

Energy Efficient Geared Motors

AC Line Operated / North America
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Type Designations

BK 50 Z - 1 1 U W A / D.. 09L A 4 - TF - S / ES 010 A 9 HN / C2

B	K	50	Z	X	-	1	1	U	W	A
									A	= SSV Cover
									W	= Double Shaft Seals
								V	H	= Front and Rear
								V	=	Flange A or C or Torque Arm front
								H	=	Flange, A or C or screw-on Torque Arm rear
								U	=	Foot bottom or screw-on Torque Arm to bottom
								O	=	Foot top or Torque Arm angeschraubt in Richtung to top
								R	=	Foot right or Torque Arm angeschraubt in Richtung to right
								L	=	Foot left or Torque Arm angeschraubt in Richtung to left
								0	=	Splined Shaft acc. to DIN 5480
								1	=	Solid Shaft, front
								2	=	Solid Shaft, rear
								3	=	Solid Shaft, front and rear
								4	=	Hollow Shaft with Keyway
								5	=	Hollow Shaft for Shrink disk connection, rear (Standard)
								6	=	Hollow Shaft for Shrink disk connection, front (Special)
								7	=	Solid Shaft front, flush with Standard-Flange only BG10-BG90 and BS02+BS03
								8	=	Solid Shaft rear, flush with Standard-Flange only BS02+BS03
								9	=	Solid Shaft front and rear, flush with Standard-Flange only BS02+BS03
								0	=	Gear Housing, no surfaces except torque arm bore for BF
								1	=	Gear Housing, Foot
								2	=	Gear Housing, Standard flange diameter 1 small A-Flange
								3	=	Gear Housing, Standard flange diameter 2 Standard A-Flange
								4	=	Gear Housing, Standard flange diameter 3 large A-Flange
								5	=	Gear Housing, with Torque Arm for BK + BS as screw-on
								6	=	Gear Housing, Foot-threaded bores
								7	=	Gear Housing, C - Flange
								8	=	Gear Housing, completely machined
								9	=	Gear Housing, with Footplate only BG (Universal housing)
								-	=	seperates gear type from gear design
								X	=	reinforced bearings (radial)
								Z	=	Gearbox with pre-stage
								• •	=	Gear Size (03, 04, 05, 06, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100)
								B •	=	Gear type (BG, BF, BK, BS)

D.. 09 LA 4 - TF - S

									S	= rectifier (see chapter 3)
									TF	= Motor monitoring (see chapter 3)
									4	= No. of pole for motor
									LA	= Motor core length and design
									09	= Motor size
									..	= A Aseptic motor
									..	= SE Three-Phase Motor with increased efficiency acc. to IE1
									..	= HE Three-Phase Motor with increased efficiency acc. to IE2
									..	= PE Three-Phase Motor with increased efficiency acc. to IE3
									..	= NF Motor without Gearbox, Motor in flange design
									..	= XE Expl.-Motor with increased safety
									..	= XD Flame Proof
									D	= Three-Phase Motor

ES 010 A 9 HN

									HA	= Hand Release (lockable)
									HN	= Hand Release (none lockable)
									9	= Code for setting torque
									A	= Design
									010	= Brake size
									ES	= Single disk brakes - HOLDING BRAKE
									ZS	= Double disk brakes - HOLDING BRAKE
									ESX	= Single disk brakes - WORKING BRAKE
									ZSX	= Double disk brakes - WORKING BRAKE

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Energy Efficient Geared Motors

Bauer Gear Motor - profile

Innovation since 1927

During its 90-year history, Bauer Gear Motor has developed to become the preferred international provider of high-quality and extremely reliable geared motors. A great deal of knowledge has been accrued over the decades, and this has continually been built upon and shared. Bauer has pioneered many new geared motor solutions and will continue to do so in the future. Our engineers develop technically-advanced solutions that feature energy-efficient motors paired with optimal gearboxes so that we can offer our customers the lowest possible operating costs. It is not without reason that the Bauer brand has become world famous; this is because our geared motor solutions are the driving power in drive technology.

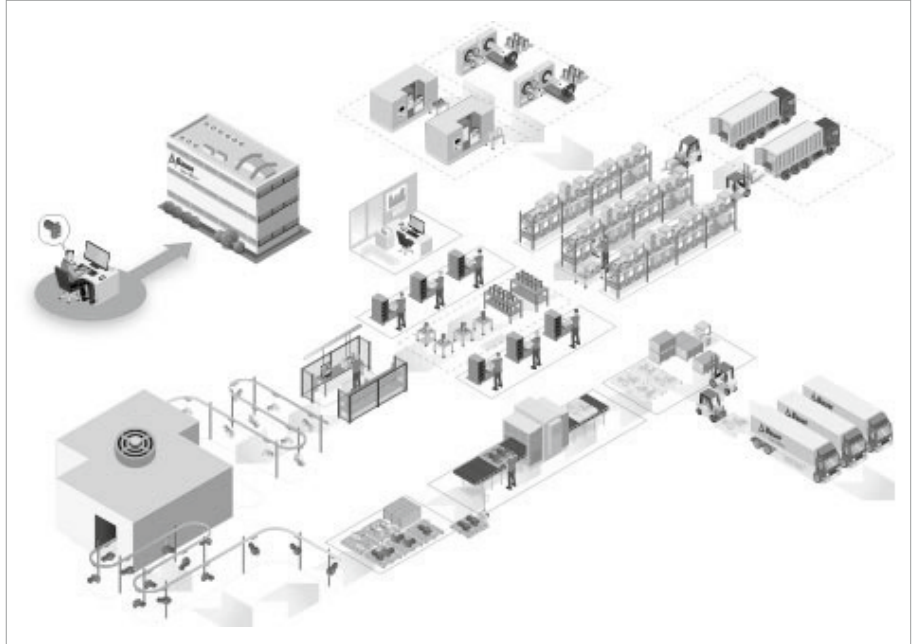


Competent and customer-focused

We see ourselves as the value adding partner for individual drive technology solutions along the entire customer value chain ... **Uncomplicated ... Competent ... Enduring.** With our global sales and expertise, we are there to support you side by side- right from the design of your drive. Our employees will ensure that you have the optimum geared motor solution for your application

Our quick response time to requests ensures that you receive the required offer within 24 hours. After your order has arrived, we check your order details and you will receive a confirmation of the order within 24 hours. This means that you will have the details for your own production planning process by the following day.

As we concentrate our production in regional factories, we are also able to deliver customised solutions from the factory reliably and directly, with an extremely short delivery period.



Closer to the customer's needs thanks to greater flexibility

Orders are processed immediately and passed on to our production team. By reducing set-up times, we are able to start producing the order specific parts right away. This is synchronised with assembly, ensuring that the parts are available according to just-in-time principles.

The entire manufacturing processes starting from the production of the motor, the mechanical geared motor parts and the electrical components, are perfectly coordinated to ensure greater process reliability and availability. This means that a high delivery reliability of over 95% can be achieved, while maintaining Bauer's high quality.

The product range



Energy Efficient Geared Motors

Bauer Gear Motor - profile

Helical Geared Motors

- Power range from 0.03 kW to 75 kW
- 13 gear sizes for torques ranging from 20 Nm to 18500 Nm
- New attachment possibilities with low design height
- High efficiency through 2-stage base design
- High protection rating of IP65 as standard

Shaft Mounted Geared Motors

- Power range from 0.03 kW to 75 kW
- 10 gear sizes for torques ranging from 90 Nm to 18500 Nm
- Gearbox housing with integral torque arm
- High efficiency through 2-stage base design
- High protection rating of IP65 as standard

Bevel Geared Motors

- Power range from 0.03 kW to 75 kW
- 10 gearbox sizes for torques ranging from 80 Nm to 18500 Nm
- Right angle with universal, space-saving mounting options
- High efficiency through 2-stage base design
- High protection rating of IP65 as standard

Worm Geared Motors

- Power range from 0.03 kW to 5.5 kW
- 8 gearbox sizes for torques ranging from 25 Nm to 1000 Nm
- Hollow shaft version available from 25 Nm
- Heavy duty worm gearing for a long service life
- High protection rating of IP65 as standard

Monorail Geared Motor Drives

- Torque rating from 30 Nm to 680 Nm
- Radial force up to 25,000 N
- Gearboxes with a wide range of mounting options
- High protection rating of IP65 as standard
- Improved efficiency
- low energy consumption - ideal for travel drives
- Reverse motion of gearbox possible with released brake

AsepticDRIVE

- Motor without cooling ribs and fan
- Available with helical, shaft-mounted, bevel and worm gearboxes
- Motor winding with thermistors and ISO class F as standard
- IP67 and IP69K protection ratings with alkali and acid-resistant coating as standard.
- Motor connection through standard, round stainless steel connector

CleanDRIVE

- Motor without cooling ribs and fan
- Available with helical, shaft-mounted, bevel and worm gearboxes
- Motor winding with thermistors and ISO class F as standard
- Motor connection through a standard terminal box or stainless steel cable gland

HiflexDRIVE

BK04 gearbox

- Torque 80 Nm
- Gear reductions 7.25 – 63.33

BK08 gearbox

- Torque 200 Nm
- Gear reductions 4.44 - 102.5

BK17 gearbox

- Torque 330 Nm
- Gear reductions 4.54 - 108.6

Motors

- Output power 0.12 kW ... 3.0 kW
- Efficiency classes no rating and IE1 to IE4
- Enclosure IP65 (standard)
IP67 / IP69K (optional)

Energy-efficient motor solutions

Mains Supply

- IE1 asynchronous technology 0.12 kW – 45 kW
- IE2 asynchronous technology 0.12 kW – 45 kW
- IE3 asynchronous technology 0.12 kW – 45 kW
- IE4 asynchronous technology 0.55 kW – 4 kW

Inverter Duty

- IE3 PMSM-technology 1.5 kW – 15 kW
- IE4 PMSM-technology 0.55 kW – 11 kW

Energy-efficient motor solutions for explosion hazard areas

The S series in permanent magnet synchronous motors (PMSMs) offers variable-speed geared motors in efficiency class IE4 for use in explosion hazard areas^[1].

- Design torque M_N : 5 Nm – 48 Nm
- Rated power P_N : 0.75 kW – 15 kW
- Increased safety for zone 1 II 2 G Ex e IIC T1 - T3 Gb
- Dust explosion protection – Zone 21 II 2 D Ex tb IIIC T 160°C ... 120° Db

^[1] Individual motor designs can show lower efficiency classes than IE4 at rated torque.

EtaK2.0 Decentral Solutions

- PMSM enabled
- Integrated safety technology and field bus communication according to specific needs
- Modular structure minimises spare parts stock
- Energy savings of up to 30 % possible under partial load conditions
- Suited to extremely harsh environments thanks to IP65 enclosure rating
- 200 % overload current (3 s)
- Sensorless vector control
- CANopen, Profibus, Profinet, EtherCAT, EtherNet/IP and AS-Interface
- STO safety function

Energy Efficient Geared Motors

Bauer Gear Motor - profile

Submersible Solutions

- **Special sealing concepts** for maximum leakage protection
- **Reinforced bearings** for higher strength and longer service life
- **Shafts** available on request in V4A steel or coating
- **Motor Connection**
 - Standard with cast terminal box
 - Optional with special plug connection
- **Additional features:**
 - Special design for continuous submersible operation
 - Electronic leakage detection available on request
 - Brakes available in IP68 design
 - Water depths of 5m (deeper on request)
- **Corrosion category Im2** based on DIN ISO 12944-5

Customised geared motor solutions for all applications

- Special applications
- Special adaptations
- Special environments
- Series production

Based on our modular, geared motor programme, we offer specific solutions for applications in all key markets such as, for example, food & beverage, energy, wastewater, concrete, metals and material handling in applications such as washdown conveyor systems, rolling mills, monorail systems and overhead conveyors, sludge thickeners, cranes, fans and blowers and turbines. Our aim is to provide our customers with products tailored to their needs. At the same time, we take care to ensure that a geared motor solution will prove to be especially profitable throughout its entire life cycle.

We already equip our geared motors with highly efficient permanent magnet motors to achieve low life cycle costs because low energy consumption will be particularly important in the future. We are very confident that we are once again pioneers in this sector

Learn more about Bauer Gear Motor, its products and philosophy at www.bauergears.com.



General

Advantages of Bauer-Geared Motors 19

Bauer Gearmotors 19

Bauer Gearboxes 19

Bauer Motors 19

Bauer Brakes 19

Energy Efficient Geared Motors

AC Line Operated / North America

1

Bauer Gearmotors

- Low operating costs due to a high total efficiency
- 2-stage gearbox concept gives a longer lifetime due to a reduced number of moving parts
- Lower servicing costs due to a modular system
- No additional protective measures (e.g. dusty environment) through the IP65 enclosure as standard
- The electrical design of the motor is matched to the gearbox
- Quick reaction time in emergency situations (Breakdowns etc.) through Fast Assembly Delivery (within 24 hours)

Bauer Gearboxes

- Easy access to the fixation points reduces assembly times and installation costs
- Low servicing costs as the lubrication change results in normal duty with a lubrication temperature of approx. 80 °C first after 15.000 operating hours when using CLP 220 or 25.000 operating hours when using PGLP 220 / PGLP 460
- 2-stage gearbox concept reduces the spare part stocking
- A variety of attachment possibilities (Foot, Flange, Solid and Hollow shafts, Torque arms)
- Sealed housing design reduces the risk of oil leakage and increases the oil lifetime
- The large housing volume allows usage in very harsh environments

Bauer Motors

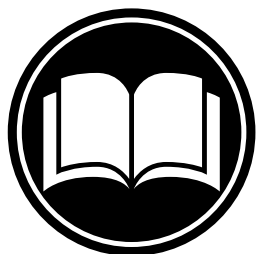
- Dust tight and hose Proof IP65 Construction
- Low installation costs through CAGE CLAMP® instead of the classical terminal block connection cost effective
- All efficiency classes in the same motor frame size. No size increase
- A variety of additional designs (connectors, brakes, backstops, rain covers, forced cooling, encoders etc.)
- Cost reduction of connection cabling and avoidance of additional protective elements (chokes, filters etc.), through built-on inverters
- Ideal for frequency inverter duty through insulation class F as standard
- Advantages of energy efficient motor solutions

Bauer Brakes

- Low servicing costs through long lifetime of the brake discs (without adjustment)
- Brake-Motor correlation tailor made to the application by virtue of on average three brake sizes per motor size
- A variety of designs (lockable and non-lockable hand release, microswitch, heater)
- Robust design for heavy duty applications
- Enclosure IP65 as standard
- Very high wear resistance

Energy Efficient Geared Motors

AC Line Operated / North America



2

Product Description

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 Installed positions of geared motors 23
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 Touch protection 23
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 Painting and corrosion protection.....23
Modular system overview 24

Energy Efficient Geared Motors

AC Line Operated / North America

2

Product Description

Selection of geared motors

2

Installed positions of geared motors	Bauer geared motors can be supplied for any type of fitting position. Vertical installation positions (motor-down) place a particularly severe strain on the shaft seal. It is advisable to avoid this arrangement especially at high motor speeds (e.g. above 1800 r/min) and continuous operation
Notes on safety	See the notes on safety regarding installation in Operating Instructions.
Guards for rotating parts	The shrink disk (SSV) guards required under the German law relating to technical materials (Law Concerning Industrial Equipment - Equipment safety law GPSG) or by the Accident Prevention Regulations (UVV) are not included in the standard scope of supply because they are fitted by the customer in most cases, or the risk of accident can be eliminated by suitable installation. See the Operating Instruction.
Touch protection	The fan hoods, via the externally mounted fan wheels, of the entire B2000 motor series fulfil the protection against contact with the standard finger (Ø12 mm).
Operating noise	The typical operating noise levels of BAUER geared motors are within the limits stipulated by VDI directive 2159 for gears and EN 60034-9, Table 2 for motors. For physical reasons, low-ratio, high-speed gears produce more noise than medium- and high-ratio gears operating at low speeds.
Painting and corrosion protection	BAUER geared motors are spray-painted in RAL 7031 to DIN 1843 as standard. Other RAL colours are available at extra cost. The output shafts are shipped in protective sleeves or with a protective coating to prevent corrosion. The prerequisite for achieving a long protection period is the right choice of coating. The coating system from Bauer Gear Motor GmbH, based on DIN EN 12944-5, offers suitable and long-lasting corrosion protection for all areas of application.

Category	Loads	Examples of indoor areas	Examples of outdoor areas	Possible IP-Protection class
Standard	Insignificant	Insulated and heated buildings with neutral atmosphere	—	IP54 IP65
C1	Insignificant	Insulated and heated buildings with neutral atmosphere	—	IP54 IP65
C2	Low	Uninsulated and unheated buildings where condensation can occur, e.g. warehouses, sports halls	Atmosphere with low corrosive load, mostly rural areas	IP54 IP65
C3	Moderate	Production rooms with high relative humidity and some air pollution, e.g. facilities for food production, laundries, breweries, dairies	Urban and industrial atmosphere, moderate pollution by sulphur dioxide. Moderate coastal area with low salt pollution	IP65 IP66
C4	Strong	chemical plants, swimming pools, objects above sea water	Industrial and coastal areas with moderate salt exposure	IP65 IP66
C5-I	Very strong (industry)	areas with almost constant condensation and heavy contamination	Industrial areas with high relative humidity and aggressive atmosphere	IP66
C5-M	Very strong (sea)	areas with almost constant condensation and heavy contamination	Coastal and offshore areas with high salt pollution, buildings with almost constant condensation and heavy air pollution	IP66
IM2	Sea or brackish water	IP68 Underwater Drives	Port areas, lock gates, moles, offshore installations	IP68
Aseptics (proprietary development of Bauer)	Very strong	For indoor and outdoor use with very high environmental pollution and in hygiene-sensitive areas, in each case with high-pressure cleaning with chemical cleaning agents		IP67/IP69K

Duration of protection according to DIN EN ISO 12944-5: medium (M) 5 to 15 years

Product Description

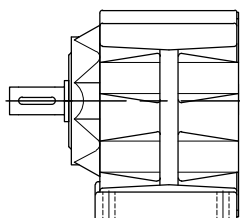
Modular system overview

2

Gear design

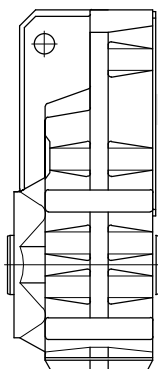
BG

Helical gear



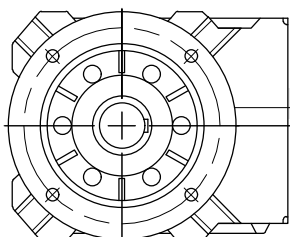
BF

Shaft-mounted gear



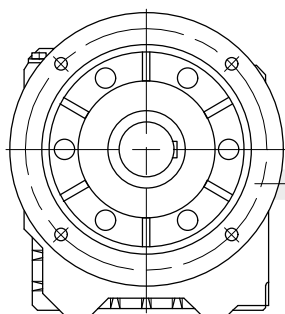
BK

Bevel gear

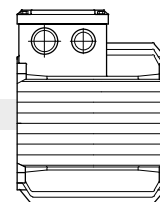


BS

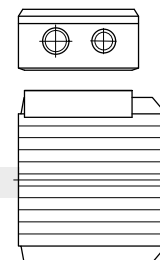
Worm gear



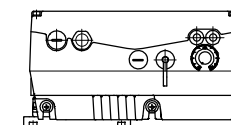
Motor terminal box design



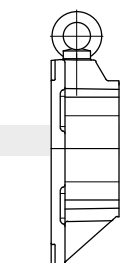
Motor with cast-on terminal box (KAG)



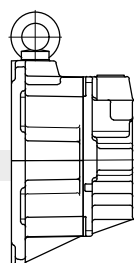
Motor with screwed-on terminal box (TB)



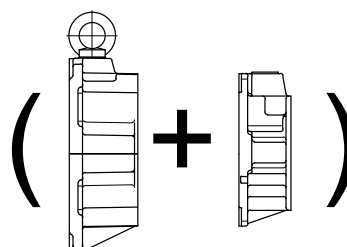
Motor with ETA-K-Converter



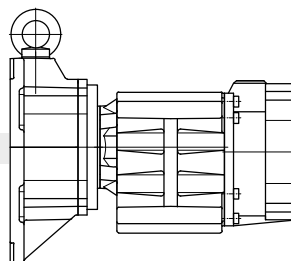
System cover



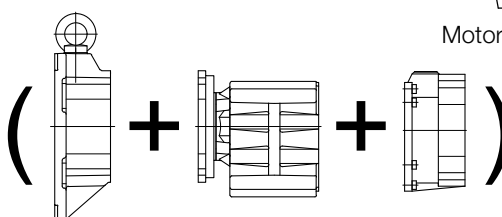
Pre-stage



Pre-stage + System cover



Intermediate gear

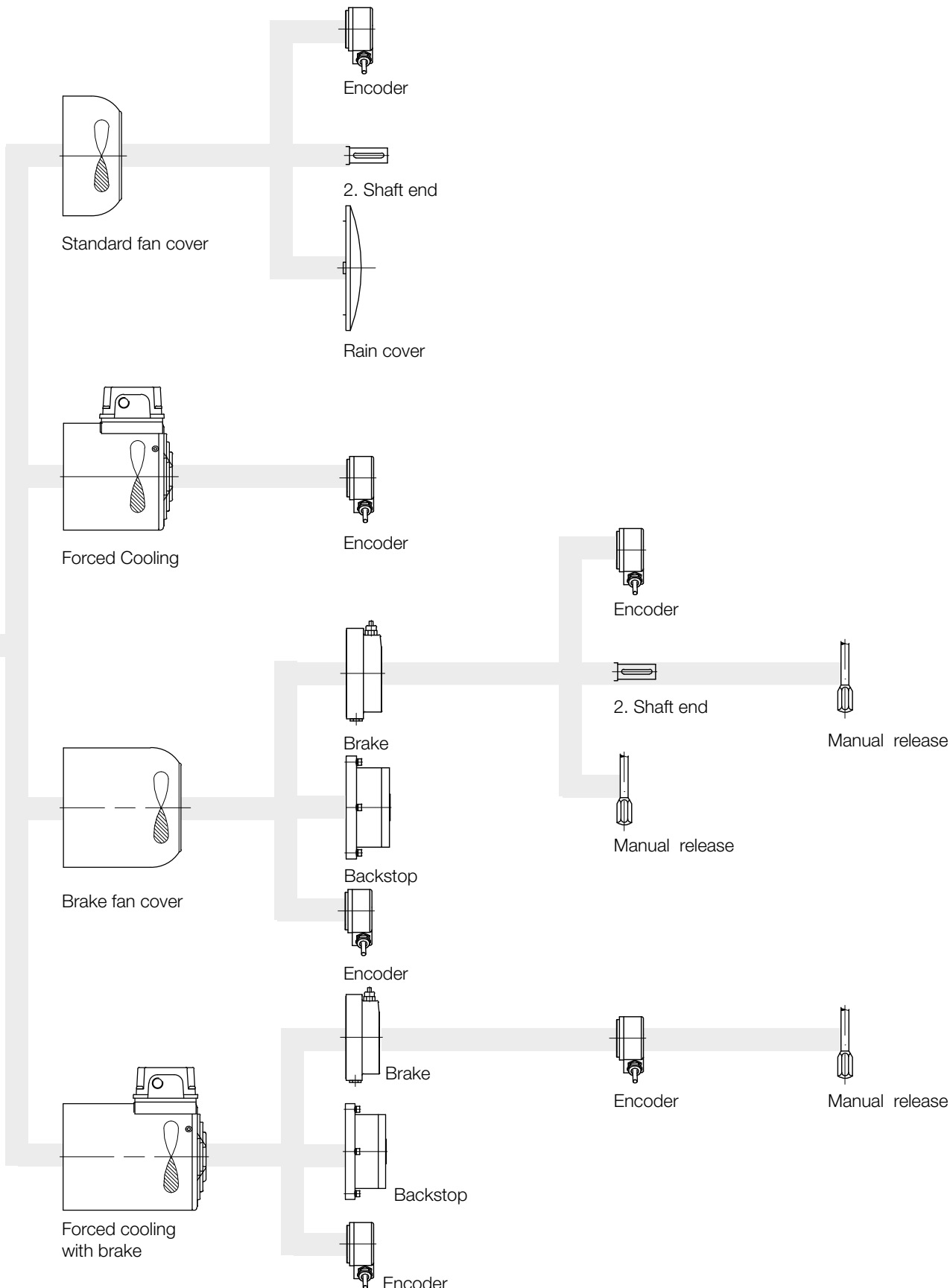


(System cover + Intermediate gear + System cover)

Covers B-Side

Extensions Standard Motor

Extensions Motor with Brake



Energy Efficient Geard Motors

AC Line Operated / North America

 Bauer [®]			
Gear Motor Somerset, NJ 08873			
3~Motor		Year	
Type			
HP		kW Con	
Gear Rpm		V	
Motor Rpm		Hz	
COS		A	
		PINTS	
Insul. Cl.	IP	IM	

3

Type Designations

Significance of type designation	29
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Energy Efficient Geared Motors

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3

Type Designations

Significance of type designation

Example: Bauer bevel-gear motor with brake and standard add-ons

Significance of type designation

The type designation of a BAUER geared motor is a code designating of almost all features in the drive configuration.

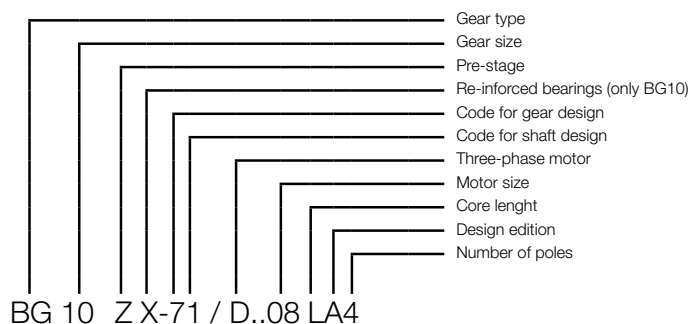
The build-up of the type designation is explained with the help of the following example of a bevel geared motor with brake and series options.

	Gear							/	Motor							/	Brake								
	BK	50	Z	-	1	1	U	W	/	D..	09L	A	4	-	TF	-	S	/	ES	010	A	9	HN	/	C2
Bauer bevel-gears																									
Gear size 50																									
With pre-stage																									
Separates gear type from gear design																									
Gear housing, foot with clearance holes at bottom																									
Solid output shaft at front																									
Foot with clearance holes at bottom																									
Double shaft seals																									
End of gear part, start of motor part																									
Three-phase motor																									
Motor size																									
State of construction of motor																									
Poles of Winding																									
Separates motor-type from motor supplement																									
Motor protection, thermistors from thermal class F																									
Separation between motor supplements																									
Standard brake rectifier, in the motor terminal box																									
End of motor, start of brake																									
Single disc brake																									
Brake size																									
State of construction of brake																									
Code for braking torque set																									
Manual release non lockable																									
End of supplement, start total design																									
Unit in corrosion protection CORO2																									

Type Designations

BG-series helical-geared motor

3



Z- Gear with pre-stage
 G- Tandem gear

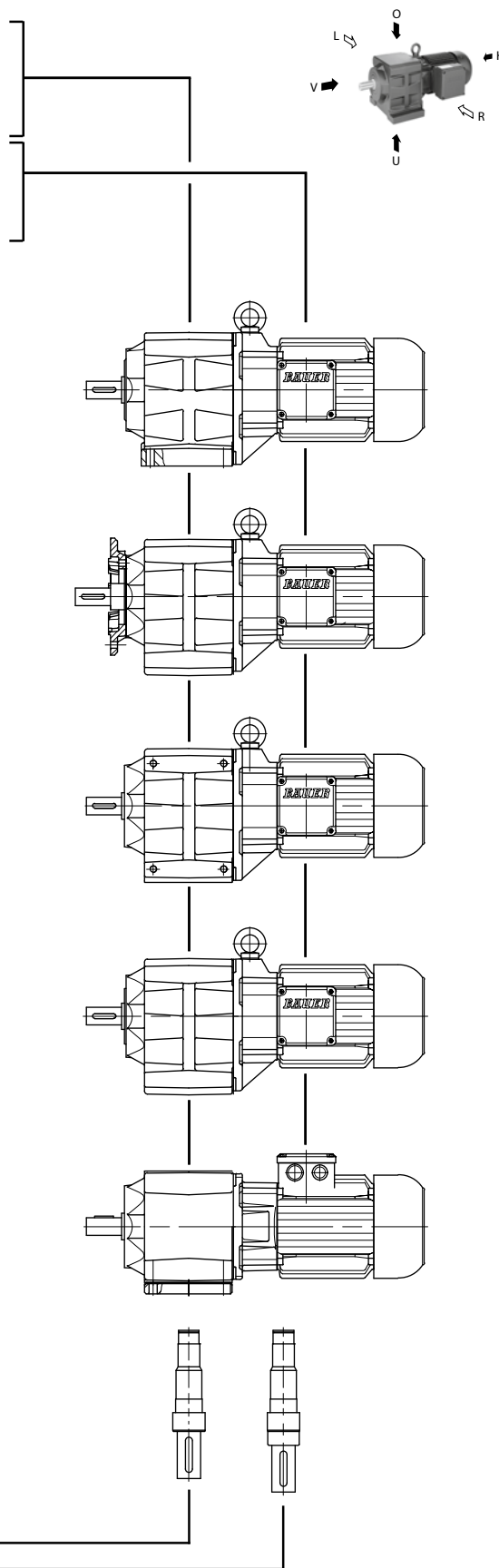
1 Foot with clearance holes
 2 Small A-flange with clearance holes
 3 Standard A-flange with clearance holes
 4 Large A-flange with clearance holes

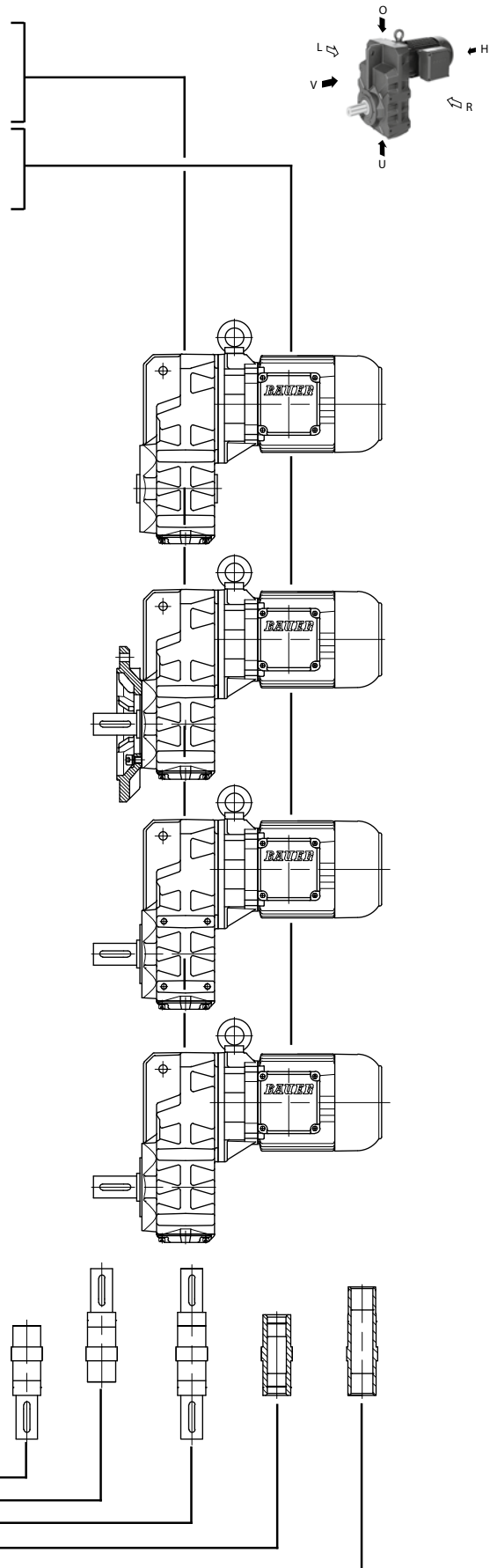
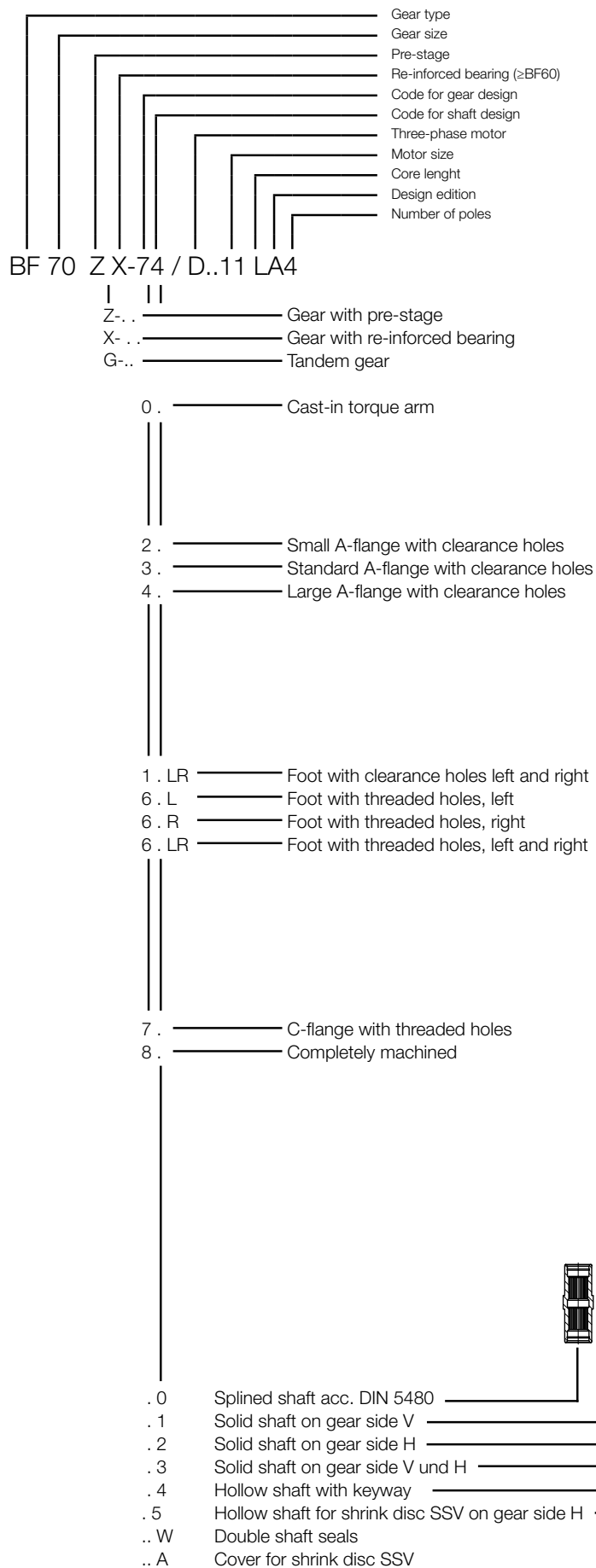
6 . L Foot with tapped holes, left
 6 . R Foot with tapped holes, right
 6 . LR Foot with tapped holes, left and right

7 C-flange with threaded holes
 8 Completely machined

9 . L Foot plate, left
 9 . R Footplate, right
 9 . LR Footplate, left and right

. 1 Solid shaft on gear side V
 . 7 Solid shaft on gear side V for flange as from BG10
 .. W Double shaft seals

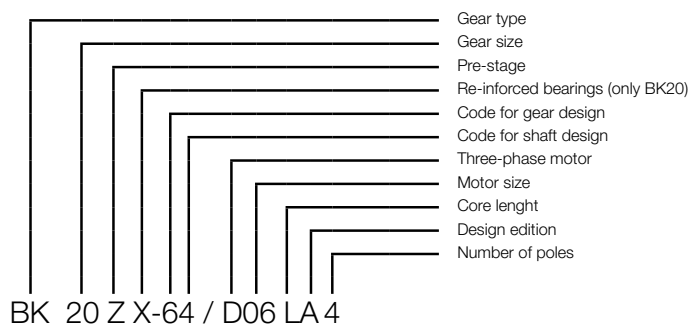




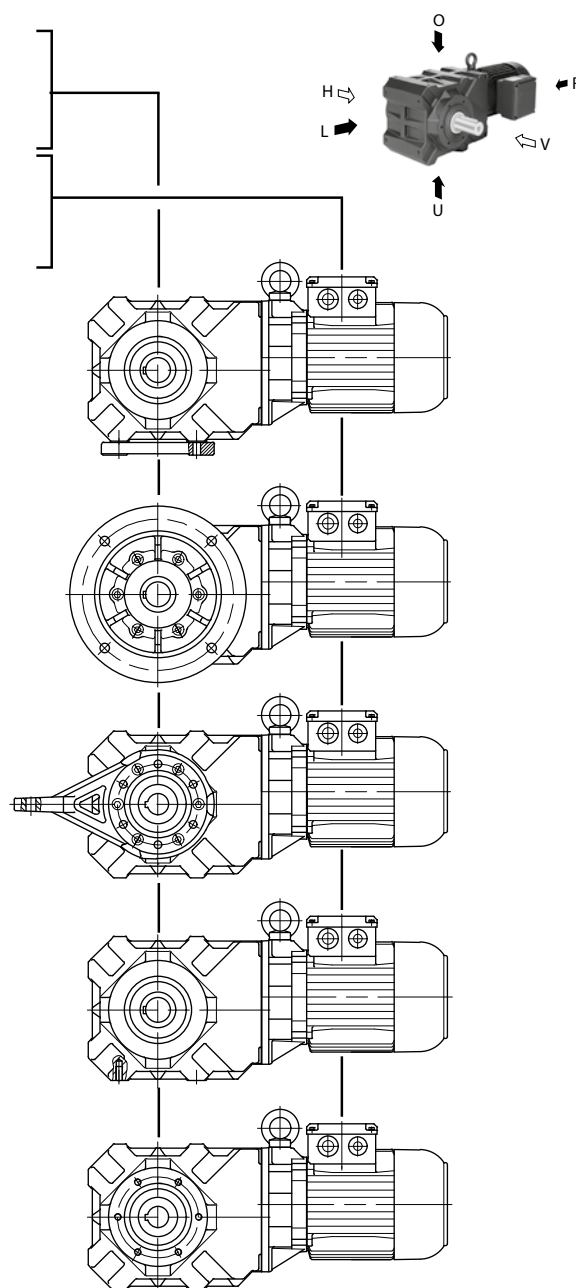
Type Designations

BK-series bevel-gear motor

3



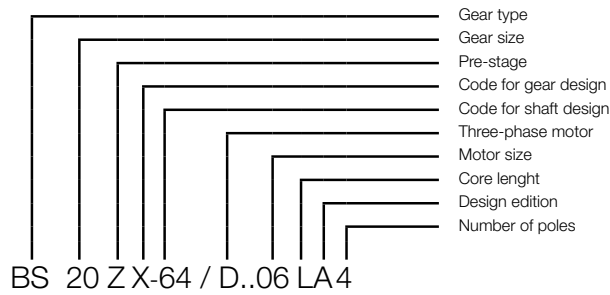
- 1 . U — Foot with clearance holes, bottom
- 1 . L — Foot with clearance holes, left
- 1 . O — Foot with clearance holes, top
- 2 . V — small A-flange with clearance holes , front
- 3 . V — Standard A-flange with clearance holes, front
- 4 . V — large A-flange with clearance holes, front
- . . H — A-flange, rear
- . . VH — A-flange, front and rear
- 5 . V — Torque arm at front
- 5 . VL — Torque arm, front to left
- 5 . VO — Torque arm, front to top
- 5 . VU — Torque arm, front to bottom
- 5 . HL — Torque arm, rear to left
- 5 . HO — Torque arm, rear to top
- 5 . HU — Torque arm, rear to bottom
- 6 . U — Foot with threaded holes, bottom
- 6 . L — Foot with threaded holes, left
- 6 . O — Foot with threaded holes, top
- 7 . V — C-flange with threaded holes, front
- 7 . H — C-flange with threaded holes, rear
- 7 . VH — C-flange with threaded holes, front and rear
- 8 . — Completely machined



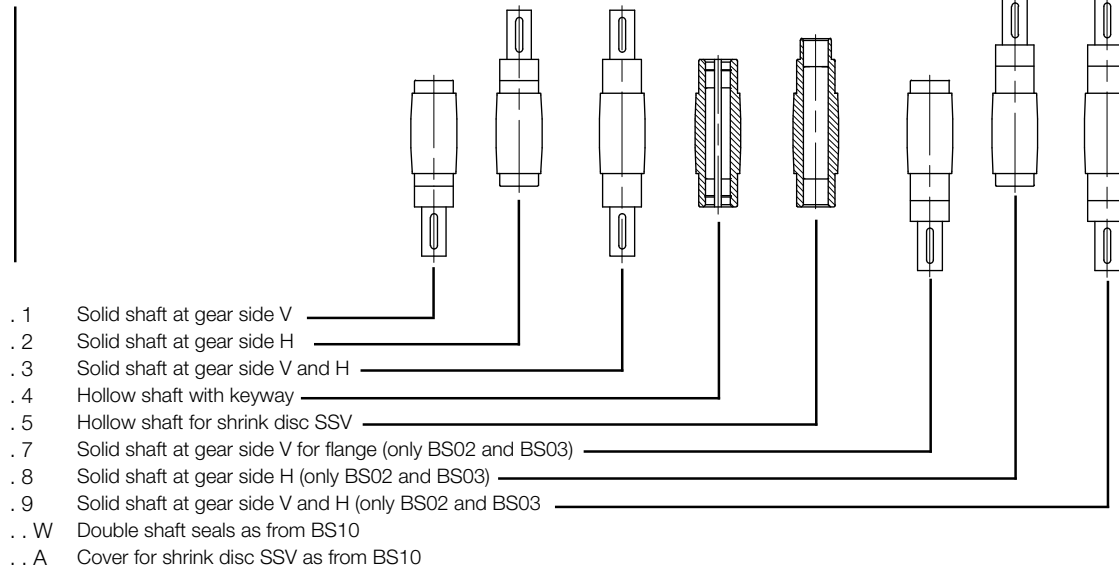
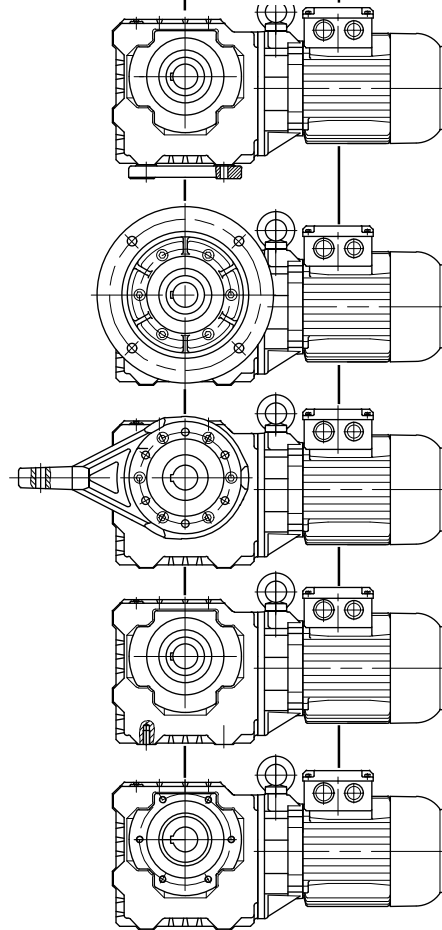
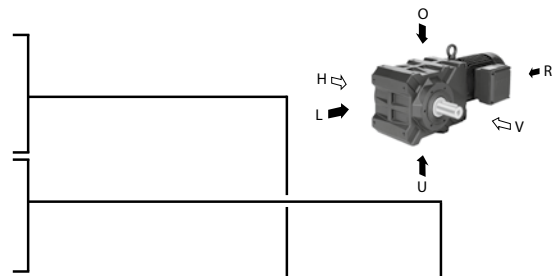
- . 0 Splined shaft acc. DIN 5480
- . 1 Solid shaft on gear side V
- . 2 Solid shaft on gear side H
- . 3 Solid shaft on gear side V and H
- . 4 Hollow shaft with keyway
- . 5 Hollow shaft for shrink disc SSV on gear side H
- . 7 Solid shaft at gear side V for flange (only BK06)
- . 8 Solid shaft at gear side H for flange (only BK06)
- . 9 Solid shaft at gear side V and H for flange (only BK06)
- . . W Double shaft seals
- . . A Cover for shrink disc SSV

Type Designations

BS-series worm-geared motor



- 1 . U — Foot with clearance holes, bottom
- 1 . L — Foot with clearance holes, left
- 1 . O — Foot with clearance holes, top
- 2 . V — small A-flange with clearance holes , front
- 3 . V — Standard A-flange with clearance holes, front
- 4 . V — large A-flange with clearance holes, front
- .. H — A-flange, rear
- .. VH — A-flange, front and rear
- 5 . V — Torque arm at front
- 5 . VL — Torque arm, front to left
- 5 . VO — Torque arm, front to top
- 5 . VU — Torque arm, front to bottom
- 5 . HL — Torque arm, rear to left
- 5 . HO — Torque arm, rear to top
- 5 . HU — Torque arm, rear to bottom
- 6 . U — Foot with threaded holes, bottom
- 6 . L — Foot with threaded holes, left
- 6 . O — Foot with threaded holes, top
- 7 . V — C-flange with threaded holes, front
- 7 . H — C-flange with threaded holes, rear
- 7 . VH — C-flange with threaded holes, front and rear
- 8 . — Completely machined

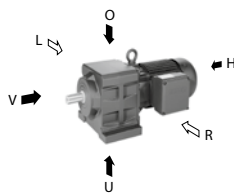


Type Designations

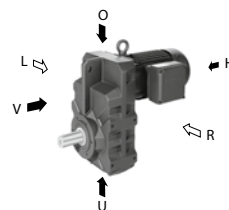
Codes for gear options

BG and BF series

BG series: mounting position B3



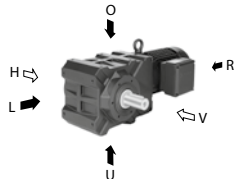
BF series: mounting position H4



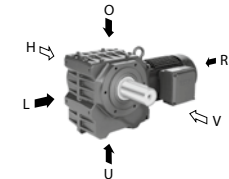
- V = Front
The side of the gear unit facing away from the motor or the source of motive power
- H = Rear
The side of the gear unit facing toward the motor or the source of motive power
- L = Left
The left side of the gear unit as viewed from the output shaft side of mounting position B3 for the BG series or mounting position H4 for the BF series
- R = Right
The right side of the gear unit as viewed from the output shaft side of mounting position B3 for the BG series or mounting position H4 for the BF series

BK and BS series

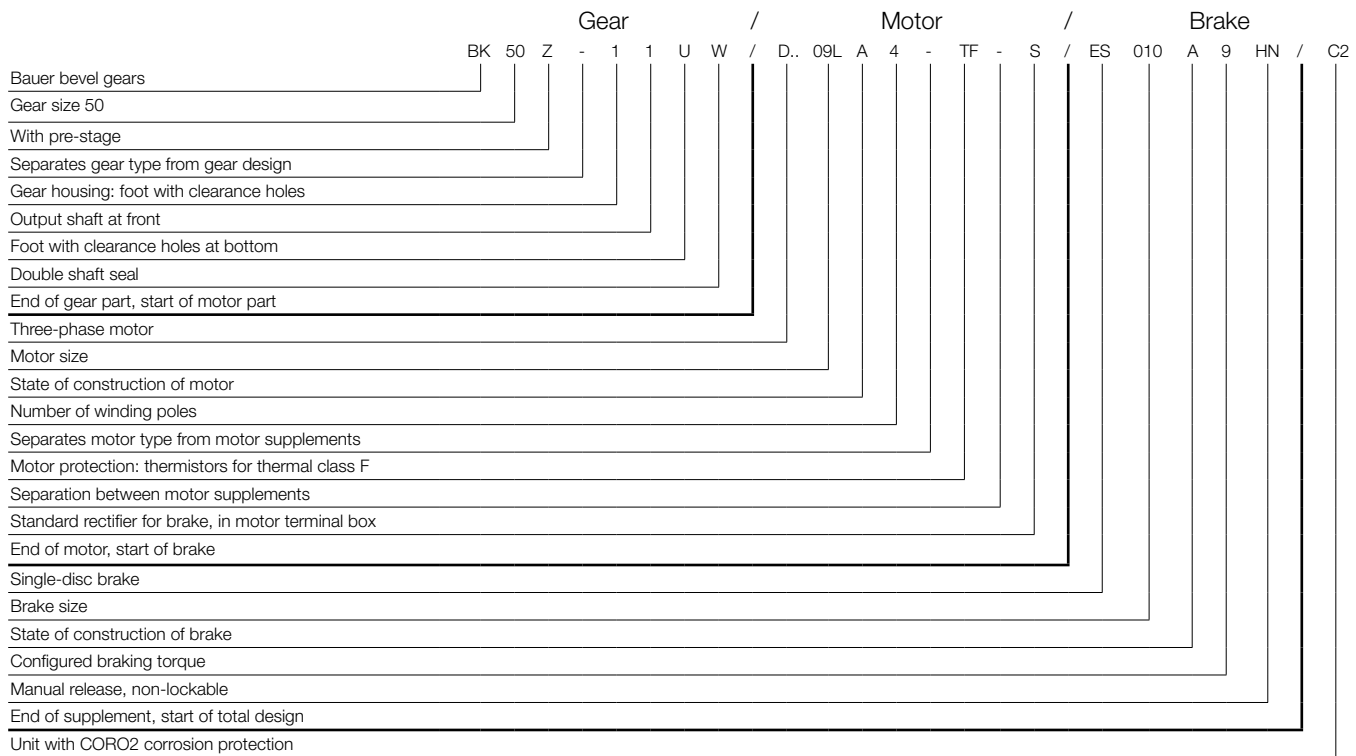
BK series: mounting position H1



BS series: mounting position H1



- V = Front
The side of the gear unit facing toward the viewer looking toward the unit - mounting position H1
- H = Rear
The side of the gear unit facing away from the viewer looking toward the unit - mounting position H1
- L = Left
The left side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented to the left
- O = Top
The top side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented upwards
- U = Bottom
The bottom side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented downwards



Three-phase motor

D	=	Three-phase motor
E	=	Single-phase motor (Steinmetz circuit)
S	=	PM-Synchronous motor
. A	=	Aseptic motor (germ-free drive)
. SE	=	Three-phase motor with enhanced efficiency compliant with IE1
. HE	=	Three-phase motor with enhanced efficiency compliant with IE2
. PE	=	Three-phase motor with enhanced efficiency compliant with IE3
. N	=	Motor without gear unit; foot-mount version
. NF	=	Motor without gear unit; flange-mount version
. R	=	Roller table motor
. XE	=	Explosion-proof motor with increased safety
. XD	=	Explosion-proof motors
. W	=	Torque motor
. L	=	Special rotor for traction and slewing gear motors
. C	=	With main and auxiliary windings; only with single-phase motors (EC....)
. V	=	Multiple voltage ranges (wide voltage range)
. U	=	Unventilated (no forced ventilation)

Motor protection

TB	=	Thermistor 140°
TF	=	Thermistor 160°
TH	=	Thermistor 180°
TEB	=	Thermistor warning/shutdown 120°/140°
TBF	=	Thermistor warning/shutdown 140°/160°
TFH	=	Thermistor warning/shutdown 160°/180°
TOB	=	Thermostatic switch, NC 140°
TOF	=	Thermostatic switch, NC 160°
TOH	=	Thermostatic switch, NC 180°
TSB	=	Thermostatic switch, NO 125°
TSF	=	Thermostatic switch, NO 160°
TSH	=	Thermostatic switch, NO 180°
TX	=	Other

Brake rectifier in motor terminal box

S	=	Standard rectifier	SG
E	=	Special rectifier	ESG
M	=	Special rectifier	MSG
Plug connector	ST	= Harting (other)	
Heavy-duty fan	SL		
Protective cover	D		
CleanDrive	CD	= Aseptic drive with cable	

Type Designations

Motor Mounted Components

	Gear										/	Motor										/	Brake										/	
	BK	50	Z	-	1	1	U	W	/	D..	09L	A	4	-	TF	-	S	/	ES	010	A	9	HN	/	C2									
Bauer bevel gears																																		
Gear size 50																																		
With pre-stage																																		
Separates gear type from gear design																																		
Gear housing: foot with clearance holes																																		
Output shaft at front																																		
Foot with clearance holes at bottom																																		
Double shaft seal																																		
End of gear part, start of motor part																																		
Three-phase motor																																		
Motor size																																		
State of construction of motor																																		
Number of winding poles																																		
Separates motor type from motor supplements																																		
Motor protection: thermistors for thermal class F																																		
Separation between motor supplements																																		
Standard rectifier for brake, in motor terminal box																																		
End of motor, start of brake																																		
Single-disc brake																																		
Brake size																																		
State of construction of brake																																		
Configured braking torque																																		
Manual release, non-lockable																																		
End of supplement, start of total design																																		
Unit with CORO2 corrosion protection																																		

Brake

E	= Single-disc brake
ES	= Single-disc holding brake
EH	= Single-disc holding brake in heavy duty version
ZS	= Two-disc holding brake
ESX	= Single-disc service brake
EHX	= Single-disc service brake in heavy duty version
ZSX	= Two-disc service brake
... 010	= Brake size
... .. A	= Construction state
... .. 9	= Code for configured braking torque
... .. HN	= Manual release (not lockable)
... .. HA	= Manual release (lockable)

Reverse rotation block

RR	= Blocking direction clockwise
RL	= Blocking direction anticlockwise

Digital and analogue encoder

G

Second shaft end

ZW	= With key
ZV	= With square shaft

Forced ventilation

FV

Overall design

AV	= USA/Canada version with shaft dimensions in inches
AM	= USA/Canada version with metric shaft dimensions
UL	= US version
CS	= Canadian version
C1	= Coro1 corrosion protection
C2	= Coro2 corrosion protection
C3	= Coro3 corrosion protection
C4	= Coro4 corrosion protection
C5I	= Coro5 corrosion protection
C5M	= Coro5 corrosion protection
IM2	= Protection against sea or brackish water
SP	= Non-catalogue version



4

Geared Motor Selection

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Energy Efficient Geared Motors

AC Line Operated / North America

4

Gear Motor Selection

Questionnaire for geared motor selection



Bauer Gear Motor LLC.,
701 Carrier Dr., NC 28216 Charlotte
Phone (732)469-8770 bauer.us@bauergears.com



Information

Company: _____
Contact person: _____
Phone: _____
Email: _____

Questionnaire for geared motor selection

Gearbox type



☐ BG
Helical gears BG



☐ BF
Parallel shaft gears



☐ BK
Bevel gears



☐ BS
Worm gears



☐ Hiflex
☐ Standard
☐ Stainless

Number of items: _____
Country of operation: _____

Technical Data

Output shaft speed n2: _____ rpm
Torque M2: _____ Nm
Motor power: _____ kW
Efficiency class: _____
With pole-changing: _____

Voltage: _____ V
Concentration: ☐ Y ☐ Δ
Temperature class: ☐ B ☐ F ☐ H
Frequency: ☐ 50 Hz ☐ 60 Hz
☐ Frequency inverter duty
Frequency range: _____ Hz

Operation

Service factor required: min _____ max _____
or Type of loads (conveyor, mixer, crusher, centrifuge, etc.): _____
Number of switching per hour: _____

Daily operating time:	☐ 8 hour	☐ 16 hour	☐ 24 hour
	☐ Light shock load	☐ Medium shock load	☐ Heavy shock load
Operation Duty:	☐ S1	☐ S2 _____ min	☐ other S _____ Duty = _____ %

Output shaft design

☐ Solid shaft on side V/H/VH: _____
☐ Hollow shaft with keyway
☐ Solid shaft without parallel key
☐ Hollow Shaft for shrink disk
☐ Shrink disk
☐ Other (sketch attached)
☐ Splined Shaft acc. to DIN 5480
☐ Special shaft dimensions (DxL), _____ x _____ mm
☐ Second shaft end on motor with parallel key (ZW)
☐ Second shaft end on motor (DxL), _____ x _____ mm
☐ Second shaft end on motor with square shaft (ZV)

Mounting position

☐ Foot with clearance hole	☐ A-Flange	☐ rear	☐ bottom
☐ Foot with tapped holes	☐ C-Flange with tapped holes	☐ front	☐ top
☐ Torque arm with rubber buffers	☐ Foot plate	☐ left	☐ right

Mounting (acc. to page. 2 - H1, H2, V1, V2, etc.): _____
Terminal box position (acc. to page. 3): ☐ I ☐ II ☐ III ☐ IV
other: _____

Painting

☐ Standard RAL 7031
☐ other RAL _____

Environment

IP prot. type per EN 60034: ☐ IP54 ☐ IP65 ☐ IP66 ☐ IP67 ☐ IP68 ☐ IP69K
☐ Indoor installation
☐ Outdoor installation
☐ Corrosive environment: _____
Ambient temperature range: from _____ °C to + _____ °C
Relative humidity: _____ %

Motor Accessories

☐ Brake, voltage: _____ V
☐ Backstop: ☐ left ☐ right
☐ Thermistor motor protection
☐ Temperature sensor KTY
☐ Encoder type _____
☐ Rain cover
Required braking torque: _____ Nm
☐ Brake wear/function monitoring
☐ Thermostats motor protection
☐ Temperature sensor PT100
No. of pulse: _____
☐ Forced ventilation
☐ Manual brake release
☐ Brake heater
☐ Anticondensatormotor heater
Supply voltage ☐ HTL \ ☐ TTL

Additional requirements may be specified in a free written form.

Drive configuration General

Motions are necessary in production plants and equipment for the manufacture of goods and products. Geared motors are used to implement these motions in stationary production equipment. The objective of drive configuration is to obtain the optimal motor for each type of motion.

Motions in machines and equipment vary considerably. Experienced design engineers reduce the necessary motions to a few standard types:

- continuous linear motion
- reciprocating linear motion
- horizontal linear motion
- vertical or oblique linear motion for lifting and lowering loads
- continuous rotary motion and reciprocating rotary motion

All motions can be divided into:

- an acceleration phase
- a constant-velocity phase
- a braking (deceleration) phase

These motion phases must be examined separately when sizing a drive, in order to determine the phase with the highest load. After the maximum load has been determined, the drive system can be selected.

See our separate “Design Guide” publication for assistance with various use cases.

Required data for drive configuration

In addition to the data in the questionnaire for geared motor selection, the following data is necessary for drive configuration:

Designation	Description	Unit
Z	Cycle rate	[1/h]
t_d	Operating time per day	[h]
t_a	Deceleration time	[s]
n_2	Output speed	[rpm]
n	Rated rotor shaft speed	[rpm]
J	Moment of inertia	[kgm ²]
J_{ext}	External moment of inertia	[kgm ²]
J_{ext}	External moment of inertia referred to the rotor shaft	[kgm ²]
J_{rot}	Rotor moment of inertia	[kgm ²]
F	Force	[N]
m	Mass	[kg]
v	Velocity	[m/s]
a	Acceleration	[m/s ²]
g	Earth gravitational constant	[m/s ²]
P_{dyn}	Dynamic power	[kW]
P_s	Static power	[kW]
P	Power	[kW]
M_2	Output torque	[Nm]
M_{2erf}	Required drive torque	[Nm]
M_N	Rated torque at rotor shaft	[Nm]
M_a	Deceleration torque	[Nm]
M_L	Braking or driving load torque	[Nm]
M_{gr}	Specific limiting torque of gearbox at gear ratio i	[Nm]
M_{Br}	Rated braking torque	[Nm]
i	Gear reduction ratio	
FI	Inertia ratio	

Drive configuration process

Motor configuration

Determining the motor power

The required power can generally be calculated as follows:

$$P = \frac{F \times v}{\eta}$$

As previously described, all motions are divided into an acceleration phase (dynamic power), a constant-velocity phase (static power), and a braking (deceleration) phase.

Depending on the type of motion, the force F necessary to overcome all opposing forces such as rolling friction, linear friction, gravitational force, acceleration and so on arising from the drive train has a strong influence on the required power and must be determined explicitly for each use case.

See chapter Motors for assistance in selecting the right motor power.

Determining the required torque

After the motor power has been determined, the required gearbox output torque can be calculated with:

$$M_2 = \frac{P \times 9550}{n_2}$$

Determining the gear reduction ratio

The gear reduction ratio is the ratio of the rated speed of the motor (motor data see in chapter Motors) to the desired output speed of the geared motor.

$$i = \frac{n}{n_2}$$

Gearbox size selection

Determining the factor of inertia

The inertia ratio is the ratio of the sum of the moments of inertia of all masses driven by the motor and converted to the motor speed, including the moment of inertia of the motor rotor, to the moment of inertia of the rotor:

$$FI = \frac{J_{\text{ext}} + J_{\text{rot}}}{J_{\text{rot}}} \quad \text{where} \quad J_{\text{ext}}' = \frac{J_{\text{ext}}}{i^2}$$

Gear Motor Selection

Drive configuration

4

Determining the shock load

The shock load (see chapter 6, 7, 8 and 9) is determined from the inertia factor, the type of transmission component and the relative moment of acceleration.

Determining the minimum service factor f_{Bmin}

Based on the operating time per day, the cycle rate and the ascertained shock load, the service factor f_{Bmin} can be taken from the tables in chapter 6, 7, 8 and 9.

Based on this minimum service factor f_{Bmin} , select a geared motor from the tables that has a higher service factor as well as the required output speed, output torque and motor power.

Note: The service factor relates solely to the required torque for static operation needed by the application, which should be covered by the output torque of the selected geared motor.
The dynamic portion is not taken into consideration here.

The actual service factor of the geared motor with regard to required torque for static operation can therefore be calculated as follows:

$$f_B = \frac{M_{gr}}{M_{2erf}}$$

The final step is to specify the accessory options for the geared motor.

Brake specification

Essentially it is necessary to determine, based on the amount of friction energy to be dissipated by the brake, whether the brake is a holding brake or a working brake. See chapter Motor Mounted Components for the definitions of holding brakes and service brakes.

Once all the necessary data and requirements are known, the required braking torque can be calculated as follows:

$$M_{br} = M_a \pm M_L$$

$$M_a = \frac{J \times n}{9,55 \times t_a}$$

If the specific application data is not known, for horizontally driven equipment we recommend selecting a braking torque that is 1.0 to 1.5 times the rated torque of the motor.

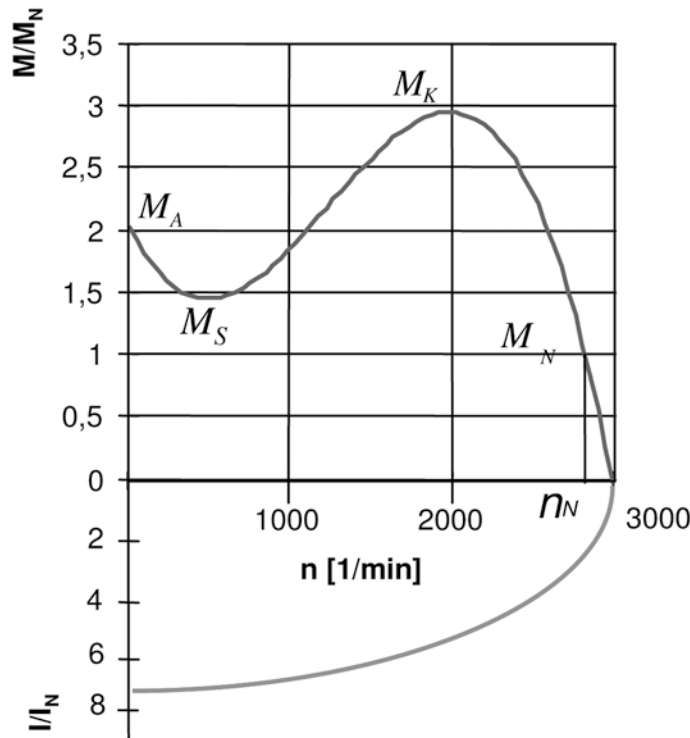
In the case of applications with significant external moments of inertia (FI greater than 2) and with operating cycles per hour, the brake size must always be selected on the basis of the thermally allowable braking energy. See chapter Motor Mounted Components for detailed information on brake configuration.

In the case of lifting equipment, for safety reasons a braking torque twice as large as the rated torque of the motor should always be selected.

Torque-speed characteristic

The starting torque M_A with the rotor stationary, which is also called the locked-rotor torque, determines the acceleration of the equipment or system. If the motor is powered directly from the mains, bear in mind that the starting torque, usually listed in the motor data tables in the form of the ratio M_A/M_N , is a fixed and unalterable quantity. This means that the desired acceleration can only be approximated when the motor is operated directly from the mains. Operation from a frequency inverter is discussed separately.

Torque vs. Speed Curve



The **starting torque M_A** with the rotor stationary, which is also called the locked-rotor torque, determines the acceleration of the equipment or system. If the motor is powered directly from the mains, bear in mind that the starting torque, usually listed in the motor data tables in the form of the ratio M_A/M_N , is a fixed and unalterable quantity. This means that the desired acceleration can only be approximated when the motor is operated directly from the mains. Operation from a frequency converter is discussed separately.

The **pull-up torque M_S** is the least amount of torque developed by the motor while it is coming up to speed. It must always be greater than the effective load torque at the time when the pull-up torque occurs, as otherwise it will not be possible to accelerate the drive.

The **breakdown torque M_K** is the maximum torque the motor is capable of producing. If the load increases above the rated torque M_N , the slip s increases, the speed n decreases, and the motor delivers more torque. This can rise to a maximum level M_K . After this point the motor stalls, which means that it suddenly stops running at this slip value (breakdown slip). If the breakdown torque is exceeded, either the load must be removed or the motor must be switched off immediately. Otherwise the motor will be destroyed as a result of overheating.

The **rated torque M_N** is the torque available in continuous operation at the rated power P_N and rated speed n_N .

Gear Motor Selection

Motor configuration

Dynamic power

The dynamic power is the power that accelerates the entire system, which consists of the load, transmission components, gearbox and motor.

$$P_{\text{dyn}} = \frac{m \times a \times v}{\eta}$$

P_{dyn}	Dynamic power [W]
m	Mass [kg]
a	Acceleration [m/s ²]
v	Velocity [m/s]
η	Efficiency

Static power

The static power includes all forces present under zero-acceleration conditions. This includes rolling friction, linear friction, lifting force (with lifting) and wind force, among others.

$$P_s = \frac{F_F \times v}{\eta}$$

P_s	Static power [W]
F_F	Travel resistance [N]

Total power P_G

$$P_G = P_{\text{dyn}} + P_s$$

$$P_G = \frac{m \times a \times v}{\eta} + \frac{F_F \times v}{\eta}$$

Horizontal motion, rotary motion and vertical motion upwards	
Start-up time [s]	$t_A = \frac{\left[J_M + \frac{J_{\text{ext}}}{\eta} \right] \times \eta_M}{9,55 \times \left[M_A - \frac{M_L}{\eta} \right]}$
Cycle rate [c/h]	$Z = Z_0 \times \frac{1 - \left[\frac{M_L}{M_A \times \eta} \right]}{\left[\frac{J_s + \frac{J_{\text{ext}}}{\eta} + J_M}{J_M} \right]} \times K_L$
Vertical motion downwards	
Start-up time [s]	$t_A = \frac{\left[J_M + \frac{J_{\text{ext}}}{\eta} \right] \times \eta_M}{9,55 \times \left[M_A - (M_L \times \eta) \right]}$
Cycle rate [c/h]	$Z = Z_0 \times \frac{1 - \left[\frac{M_L \times \eta}{M_A} \right]}{\left[\frac{J_s + J_M + (J_{\text{ext}} \times \eta)}{J_M} \right]} \times K_L$

No-load cycle rate Z_0

If the cycle rate is greater than normal (typically around 60 cycles per hour), the additional thermal load and, depending on the type of power transmission, the additional mechanical load must be taken into account in motor selection.

The no-load cycle rate Z_0 is the number of start cycles per hour with the motor running under no load (no external moments of inertia) in which the allowable winding temperature for the insulating material class F is reached.

No-load cycle rate Z_0 :

PN [HP]	PN [kW]	Type	Z0 [c/h]
0.075	0.055	D04LA4	122000
0.1	0.075	D04LA4	95000
0.12	0.09	D04LA4	82000
0.15	0.11	D04LA4	70000
0.1	0.075	D05LA4	95000
0.12	0.09	D05LA4	82000
0.15	0.11	D05LA4	70000
0.25	0.18	D05LA4	47000
0.33	0.25	D05LA4	36000
0.4	0.3	D05LA4	31000
0.1	0.075	D06LA4	95000
0.12	0.09	D06LA4	82000
0.15	0.11	D06LA4	70000
0.25	0.18	D06LA4	47000
0.33	0.25	D06LA4	36000
0.4	0.3	D06LA4	31000
0.5	0.37	D07LA4	27000
0.75	0.55	D08MA4	19000
1	0.75	DPE08XB4	15000
1.5	1.1	DPE09XA4	11000
2	1.5	DPE09XB4	8700
3	2.2	DPE09XB4C	6400
4	3	DPE11LA4	5000
5	3.7	DPE11LA4	4200
5.4	4	DPE11LB4	4000
7.5	5.5	DPE11LB4C	3100
10	7.5	DPE13XA4	2400
12.5	9.5	DPE16LB4	2000
15	11	DPE16LB4	1800
20	15	DPE16XB4	1400
25	18.5	DPE18LB4	1200
30	22	DPE18XB4	1000
40	30	DPE20LA4	790
50	37	DPE22SA4	670
60	45	DPE22MA4	570

As a result of external loads, the no-load cycle rate is reduced to the allowable service cycle rate. The effect of the load is expressed by the inertia ratio FI and the load factor K_L .

Load factor K_L

The load factor reflects the relative load P/P_N and the duty cycle of the motor in operation between the cycles.

The relative load has a quadratic effect on the allowable cycle rate. The effect of the duty cycle depends on the circumstances. With little or no load, the stress on the motor decreases due to the relatively long cooling periods, while at rated load or heavy loading the stress on the motor increases due to load losses.

The load factor K_L for 4-pole motors is determined as follows:

$$K_{L100} = 1 - \left(\frac{P}{P_n} \right)^{1,5}$$

$$K_L = 0,35 + (K_{L100} - 0,25) \times ED$$

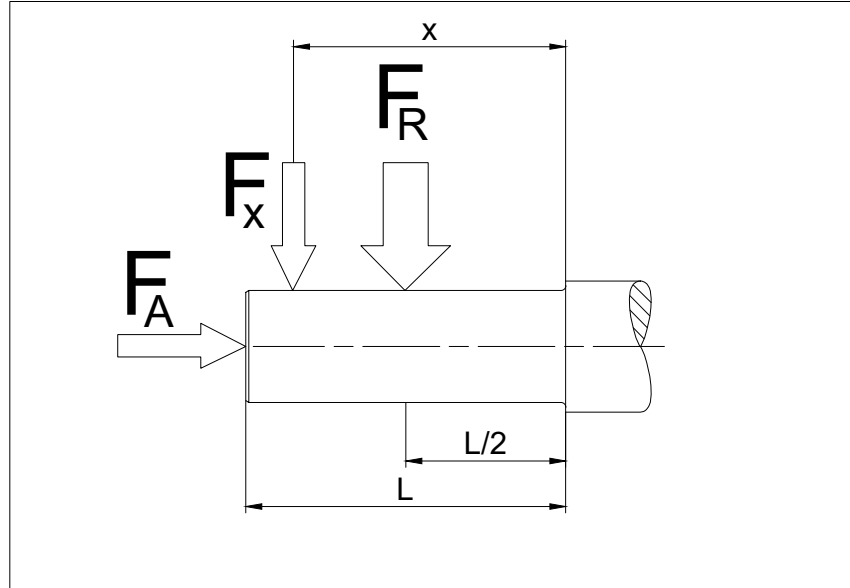
Gear Motor Selection

Radial and axial forces on the output shaft

Radial and axial forces on the output shaft

Maximum allowable radial force at force application point X

For each geared motor with a solid shaft, the allowable radial force $F_{R(N,V)}$ referred to the center of the output shaft, $x = l/2$, is listed in the selection tables. The listed data applies to both foot-mounted and flange-mounted versions. If the force application point F_x is off center, the allowable radial force must be recalculated taking into account the bearing lifetime and the shaft strength.



$F_{R(N,V)}$	Allowable radial force ($x = l/2$) according to the selection tables [N]
x	Distance from shaft junction to the force application point [mm]
F_A	Axial force [N]

To evaluate the radial force present at the force application point x , the allowable radial forces at position x must be determined with respect to the load limits of the bearings and the shaft strength.

If the calculated allowable radial forces at the force application point x are greater than the radial force that is present, the gearbox may be selected for the application. If the calculated values are not sufficient or the force application point x is not within the stub shaft length l , please consult Bauer Gear Motor.

If the calculated values are not sufficient or the force application point x is not within the stub shaft length l , please consult us.

Bearing load limit

$$F_{xL1} = F_q \times \frac{0,5 + b}{\left(\frac{x}{l} + b\right)}$$

$$F_{xL2} = F_q \times \frac{0,5 + a}{\left(\frac{x}{l} + a\right)}$$

Gear Motor Selection

Radial and axial forces on the output shaft

Shaft strength

$$F_{xw1} = F_{qmax} \times \frac{0,5}{\left(\frac{X}{l}\right)}$$

$$F_{xw2} = F_{qmax} \times \frac{0,5 + c}{\left(\frac{X}{l} + c\right)}$$

For the selected gear ratio and bearing type (normal or reinforced), F_q is the allowable perpendicular force F_{RN} or F_{RV} taken from the geared motor selection tables.

F_{qmax} is the maximum allowable perpendicular force for the selected gearbox size as listed in the geared motor selection tables, independent of the bearing type (normal or reinforced).

The factors a, b and c for the individual gearbox types are listed in the following tables.

Helical gear unit BG series

Frame size	Bearings	Output shaft code	l	a	b	c
BG04	normal	-.1	24	0.5625	1.5	-
BG05	normal	-.1	28	0.5893	1.3929	-
BG06	normal	-.1	30	0.6667	1.4167	-
BG10	normal	-.1	40	0.7125	1.6750	-
		-.7		1.1000	2.0625	-
BG15	normal	-.1	50	0.6100	2.2500	-
BG20	normal	-.1	50	0.6100	2.2500	-
		-.7		0.9400	2.5800	-
BG30	normal	-.1	60	0.5917	2.1750	-
		-.7		0.9417	2.5250	-
BG40	normal	-.1	60	0.6917	2.3667	-
		-.7		1.0083	2.6833	-
BG50	normal	-.1	80	0.5625	2.0000	-
		-.7		0.8563	2.2938	-
BG60	normal	-.1	100	0.5300	2.0200	-
		-.7		0.7650	2.2550	-
BG70	normal	-.1	120	0.4750	1.7292	-
		-.7		0.7292	1.9833	-
BG80	normal	-.1	140	0.4286	1.7000	-
		-.7		0.6000	1.8714	-
BG90	normal	-.1	200	0.3675	1.5300	-
		-.7		0.5825	1.7450	-
BG100	normal	-.1	220	0.3477	1.4341	-
		-.7		0.5386	1.625	-

Gear Motor Selection

Radial and axial forces on the output shaft

Shaft-mounted gear unit BF series

Frame size	Bearings	Output shaft code	l	a	b	c
BF06	Normal	-.1	50	0.4500	1.4100	-
BF10	Normal	-.1	60	0.5083	1.4833	-
		-.2		0.6500	1.6250	-
BF20	Normal	-.1	70	0.4286	1.3571	-
		-.2		0.5571	1.4857	-
BF30	Normal	-.1	80	0.3875	1.2563	-
		-.2		0.5688	1.4375	-
BF40	Normal	-.1	100	0.4050	1.2250	-
		-.2		0.5250	1.3450	-
BF50	Normal	-.1	120	0.3125	1.0625	-
		-.2		0.3959	1.1458	-
BF60	Normal	-.1	140	0.3286	1.0821	-
		-.2		0.4036	1.1571	-
	Reinforced	-.1		-	-	0.2750
		-.2		-	-	0.3643
BF70	Normal	-.1	180	0.2722	1.0566	-
		-.2		0.3056	1.0889	-
	Reinforced	-.1		-	-	0.2194
		-.2		-	-	0.2639
BF80	Normal	-.1	220	0.2878	1.3536	-
		-.2		0.2873	1.3518	-
	Reinforced	-.1		-	-	0.2364
		-.2		-	-	0.2268

Bevel gear unit BK series

Frame size	Bearings	Output shaft code	l	a	b	c
BK06	Normal	-1	40	0.4375	1.9875	-
		-2		0.4375	1.9875	-
		-7		0.9125	2.4625	-
		-8		0.9125	2.4625	-
BK10	Normal	-1	60	0.5917	2.2417	-
		-2		0.5917	2.2417	-
BK20	Normal	-1	70	0.5071	2.2357	-
		-2		0.5071	2.2357	-
	Reinforced	-1		-	-	0.3929
		-2		-	-	0.3929
BK30	Normal	-1	80	0.5250	2.2750	-
		-2		0.5250	2.2750	-
	Reinforced	-1		-	-	0.4125
		-2		-	-	0.4125
BK40	Normal	-1	100	0.4300	2.1700	-
		-2		0.4300	2.1700	-
	Reinforced	-1		-	-	0.3400
		-2		-	-	0.3400
BK50	Normal	-1	120	0.4083	1.9417	-
		-2		0.4083	1.417	-
	Reinforced	-1		-	-	0.3250
		-2		-	-	0.3250
BK60	Normal	-1	140	0.3536	1.8036	-
		-2		0.3536	1.0836	-
	Reinforced	-1		-	-	0.3121
		-2		-	-	0.2979
BK70	Normal	-1	180	0.2861	1.6694	-
		-2		0.2861	1.6694	-
	Reinforced	-1		-	-	0.2428
		-2		-	-	0.2317
BK80	Normal	-1	220	0.2818	1.5545	-
		-2		0.2818	1.5545	-
	Reinforced	-1		-	-	0.2305
		-2		-	-	0.2214
BK90	Normal	-1		0.2519	1.6096	-
		-2		0.2519	1.6096	-
	Reinforced	-1		-	-	0.1989
		-2		-	-	0.1912

Gear Motor Selection

Radial and axial forces on the output shaft

Worm gear unit BS series

Frame size	Bearings	Output shaft code	l	a	b	c
BS02	Normal	-.1	30	0.6	2.1	-
		-.2		-	-	-
		-.7		1.3333	2.8333	-
		-.8		-	-	-
BS03	Normal	-.1	40	0.4375	1.9875	-
		-.2		-	-	-
		-.7		0.9125	2.4625	-
		-.8		-	-	-
BS04	Normal	-.1	40	0.5375	1.7875	-
		-.2		-	-	-
BS06	Normal	-.1	50	0.4800	1.9400	-
		-.2		-	-	-
BS10	Normal	-.1	60	0.5917	2.3083	-
		-.2		-	-	-
BS20	Normal	-.1	70	0.5500	2.4357	-
		-.2		-	-	-
BS30	Normal	-.1	80	0.5312	2.4313	-
		-.2		-	-	-
BS40	Normal	-.1	120	0.4292	1.7042	-
		-.2		-	-	-

Transmission components

If a transmission component is used (gearwheels, chainwheels, V-belt, etc.), the resulting radial forces can be determined as follows.

$$F_R = \frac{2000 \times M}{D_T} \times f_z \leq F_{R(N,V)}$$

F_R	Radial force [N]
M	Torque [Nm]
D_T	Pitch radius of the transmission component [mm]
f_z	Safety factor

A safety factor f_z depending on the type of transmission component attached to the output shaft must be included when determining the value of the radial force F_R that is present.

Factor f_z for the type of transmission component

Transmission component	Safety factor f_z	Note
Gearwheel	1	= > 17 teeth
Gearwheel	1,15	< 17 teeth
Chainwheel	1	= > 17 teeth
Chainwheel	1,25	< 17 teeth
Toothed rack	1,15	< 17 teeth (pinion)
V-belt	2.....2,5	From tensioning force
Flat belt	2....3	From tensioning force
Friction wheel	3....4	

Axial force

The following specification applies to the allowable axial force F_A on the output shaft (either tension or compression) for all Bauer geared motors and for foot, flange or hollowshaft versions:

$$F_A = 0,5 \times F_{R(N,V)}$$

Please consult Bauer Gear Motor in case of larger axial forces.

Gear Motor Selection

Sizing based on efficiency

4

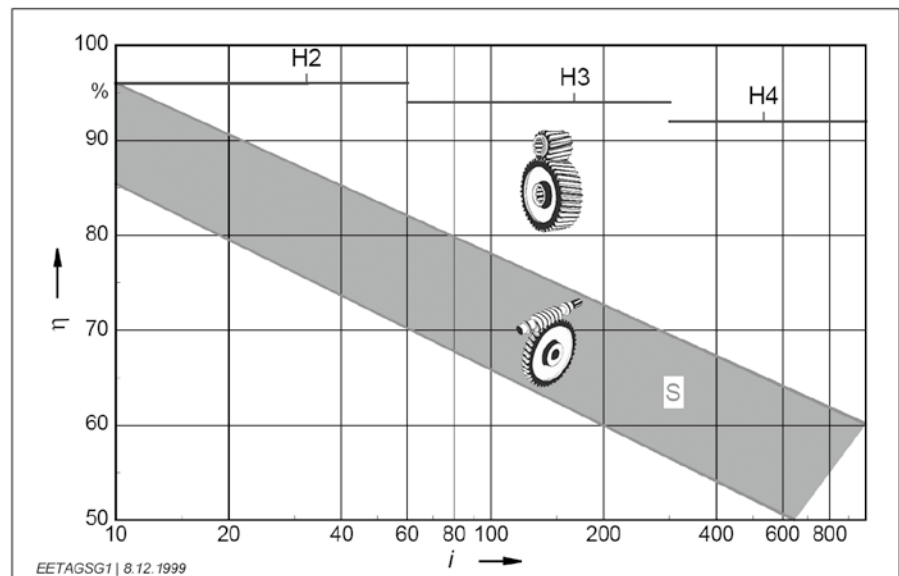
Consequently, the most cost-effective motor selection must be based on the following factors.

- Duty type
Evaluate the application, since most applications do not operate with S1 duty type.
- Operating time
The longer the operating time, the shorter the payback time.
- Motor capacity utilisation
Motor utilisation 75 % or higher load.
- Additional financial expenditure
Safety factors increase the economic overhead.
- Payback time

Gear efficiency η_{gear}

Comparison of the general savings potential of gearboxes and motors in continuous running duty (S1) shows that the energy savings potential of gearboxes is significantly higher than that of motors. The efficiency of gearboxes is predominantly dependent on the tooth geometry and the friction values of the bearings and seals. At high input speeds and with vertical designs in which the first stage rotates fully immersed in oil, splash losses cannot be neglected. Vertical designs should generally be avoided.

The efficiency of worm gear drives is highly speed dependent (see illustration). Bauer worm gear units are available as two-stage worm gear units for frame sizes BS04 and larger. This enables very high reduction ratios and significantly higher efficiency than with pure worm gear units. A loss of 2 % per stage can be assumed for two-stage worm gear units.



Comparison of typical efficiency (η) versus reduction ratio (i) for helical spur gear units (H) with two, three or four stages and two-stage worm gear units (S), relative to the rated power of the gear unit.

Gear Motor Selection

Sizing based on efficiency

System efficiency η_{system}

The drive system provides the highest savings potential in the analysis of the overall efficiency. Designers and plant engineers should always strive to optimize the transmission components.

Transmission component	Conditions	Efficiency
Wire rope	Per full turn on the wire drum (with journal or roller bearings)	0.91–0.95
V-belt	Per full turn on the belt pulley (with normal belt tension)	0.88–0.93
Synthetic belts	For each full turn or roll, with roller bearings (normal belt tension)	0.81–0.85
Rubber belts	For each full turn or roll, with roller bearings (normal belt tension)	0.81–0.85
Toothed belts	For each full turn or roll, with roller bearings (normal belt tension)	0.90–0.96
Chains	For each full turn or chainwheel, with roller bearings (depending on chain size)	0.90–0.96
Spindles	Trapezoid-thread spindle	0.30 – 0.70
	Ballscrew spindle	0.70 – 0.95
Gear unit	With spur gears or bevel gears: 2% per stage, with worm gears and other types of toothing, according to manufacturer's data	0.94–0.98

Gear Motor Selection

Shock loads of machinery

Shock loads for various types of machinery are listed in standards and guidelines as well as industry-specific documents and manufacturer's documents. If for example a crusher or a press is listed here with an shock load class of III, this is justified. On the other hand, under favorable conditions a belt conveyor could have an shock load class of I, but this could quickly change to III with on/off operation, high speed and overdrive due to a loose chain.

Consequently, the classifications in the following table should by no means be taken blindly. They provide a rough point of reference, but the ultimate classification of the shock load should always take into account the factors specified by Bauer, in particular the inertia ratio, the cycle rate and the transmission component(s).

Drive	Shock load		
Construction machinery			
Construction lifts		II	
Concrete mixers		II	
Road construction machinery		II	
Chemical industry			
Cooling drums		II	
Mixers		II	
Stirrers (light media)	I		
Stirrers (viscous media)		II	
Drying drums		II	
Centrifuges (light)	I		
Centrifuges (heavy)		II	
Transport and conveying systems			
Hauling winches		II	
Conveying machines			III
Apron conveyors		II	
Belt conveyors (bulk material)	I		
Belt conveyors (piece goods)		II	
Bucket belt conveyors		II	
Chain conveyors		II	
Circular conveyors		II	
Freight lifts		II	
Flour bucket conveyors	I		
Passenger lifts		II	
Flat belts		II	
Screw conveyors		II	
Gravel bucket conveyors		II	
Inclined lifts			III
Steel belt conveyors		II	
Chain conveyors		II	
Blowers and fans			
Roots blowers		II	
Blowers (axial and radial)	I		
Cooling tower fans		II	
Suction blowers		II	

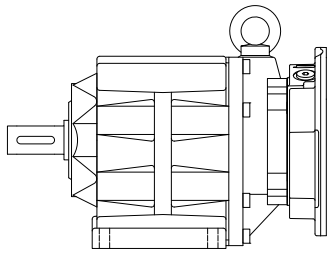
Drive	Shock load		
Rubber			
Extruders			III
Calenders		II	
Kneaders			III
Mixers		II	
Rolling mills			III
Timber processing and woodworking			
Debarking drums			III
Planers		II	
Woodworking machinery	I		
Saw frames			III
Crane systems			
Luffing mechanisms	I		
Traversing mechanisms			III
Hoisting mechanisms	I		
Slewing mechanisms		II	
Jib mechanisms		II	
Plastics			
Extruders		II	
Calenders		II	
Mixers		II	
Grinders and pulverisers		II	
Metalworking			
Plate bending machines		II	
Plate straightening machines			III
Hammers			III
Planers			III
Presses			III
Shears		II	
Forging presses			III
Punches			III
Countershafts and driveshafts	I		
Machine tools (principal)		II	
Machine tools (ancillary)	I		

Drive	Shock load		
Food processing			
Filling machines	I		
Kneading machines		II	
Mashing machines		II	
Packaging machines	I		
Sugar cane cutters		II	
Sugar cane mills			III
Sugar beet cutters		II	
Sugar beet washers		II	
Paper			
Couching			III
Smoothing rolls			III
Hollander		II	
Pulp grinder			III
Calender		II	
Wet presses			III
Shredders			III
Suction presses			III
Suction rolls			III
Drying rolls			III
Stone and soil			
Crushers			III
Rotary kilns			III
Hammer mills			III
Tube mills			III
Beating mills			III
Tile and block presses			III
Fabrics			
Winders		II	
Printing and dyeing machines		II	
Tanning vats		II	
Shredders		II	
Looms		II	

Drive	Shock load		
Rolling mills			
Plate shears			III
Plate turners		II	
Billet presses			III
Billet and slab lines			III
Billet conveyors			III
Wire drawing machines		II	
Descaling machines			III
Sheet metal mills			III
Plate mills			III
Winders (strip and wire)		II	
Cold rolling mills			III
Chain transports		II	
Billet shears			III
Cooling beds		II	
Cross transports		II	
Roller tables (light)		II	
Roller tables (heavy)			III
Roll straighteners		II	
Tube welders			III
Trimming shears		II	
Cropping shears			III
Continuous casting machines			III
Roll adjustment devices		II	
Manipulators			III
Laundry			
Drum dryers		II	
Washing machines		II	
Water treatment			
Centrifugal aerators		II	
Archimedes screw		II	

Energy Efficient Geard Motors

AC Line Operated / North America



5

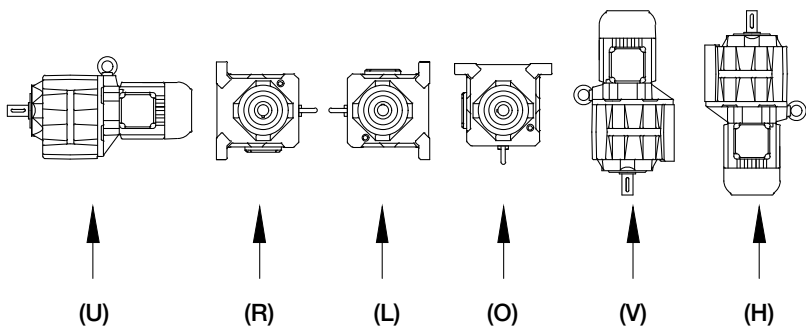
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Energy Efficient Geared Motors

AC Line Operated / North America

BG Series



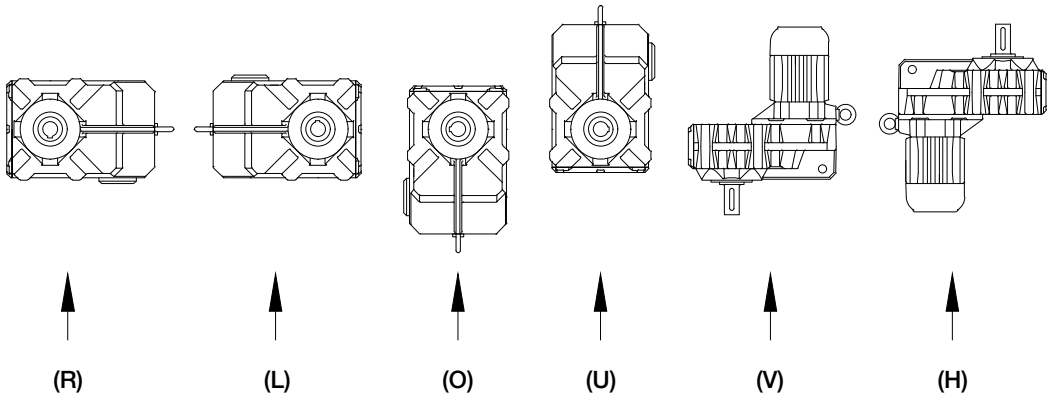
Gear side

(U) (R) (L) (O) (V) (H)

Mounting position

H4 H1 H2 H3 V1 V2

BF Series



Gear side

(R) (L) (O) (U) (V) (H)

Mounting position

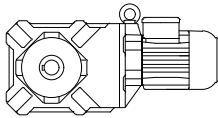
H1 H2 H3 H4 V1 V2

Gearboxes & Lubrication

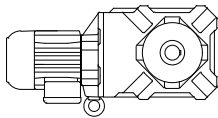
Standard mounting positions

BK Series

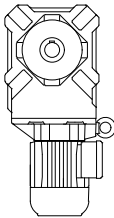
Gear side



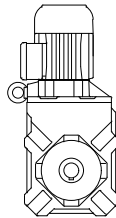
(U)



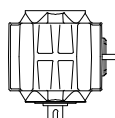
(O)



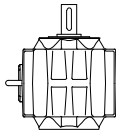
(R)



(L)



(V)



(H)

Mounting position

H1

H2

H3

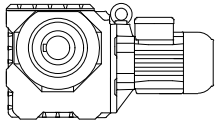
H4

V1

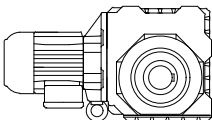
V2

BS Series

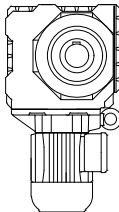
Gear side



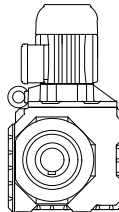
(U)



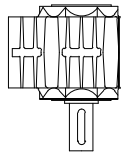
(O)



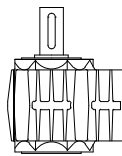
(R)



(L)



(V)



(H)

Mounting position

H1

H2

H3

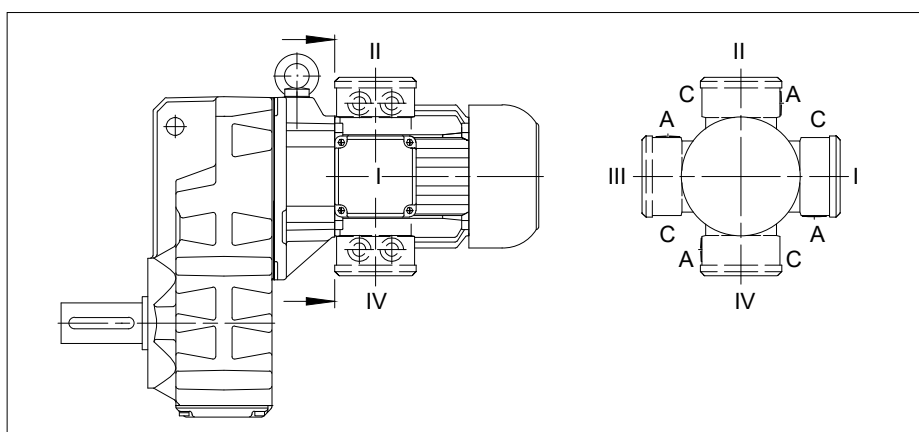
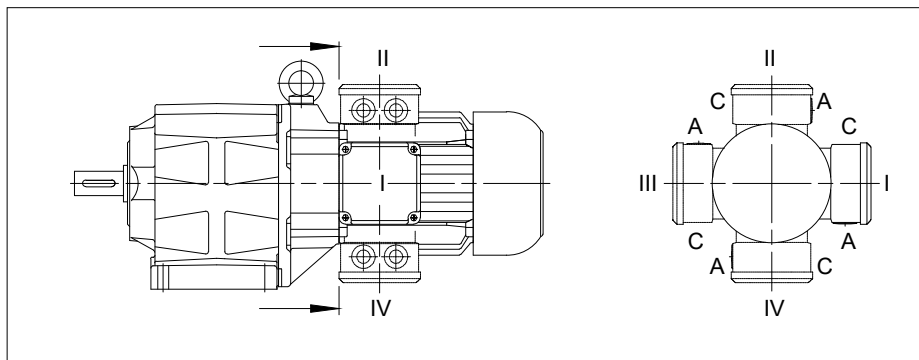
H4

V1

V2

Position of the terminal box and the cable entry points (BG and BF)

The standard position of the terminal box for helical-gear and shaft-mounted geared motors is position I. Cables may be introduced from side A or C.



Turning or rotating the gearbox in space in the different mounting positions according to DIN 42950 does not influence the marking as shown. The details of the terminal box always show the position of the terminal box and the cable entry in relation to the gearbox and not in space. The mounting according to DIN 42950 is to be given separately.

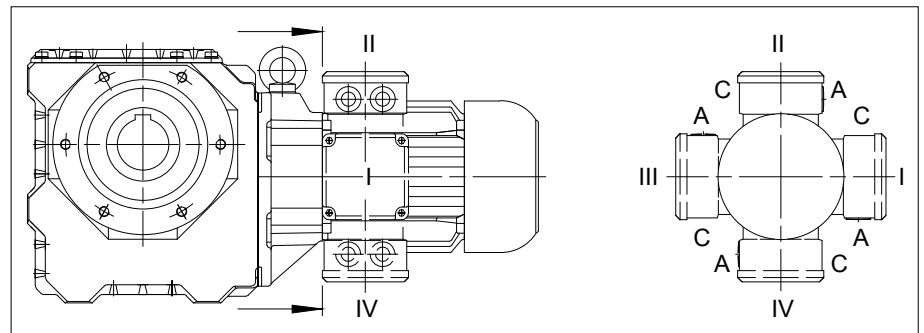
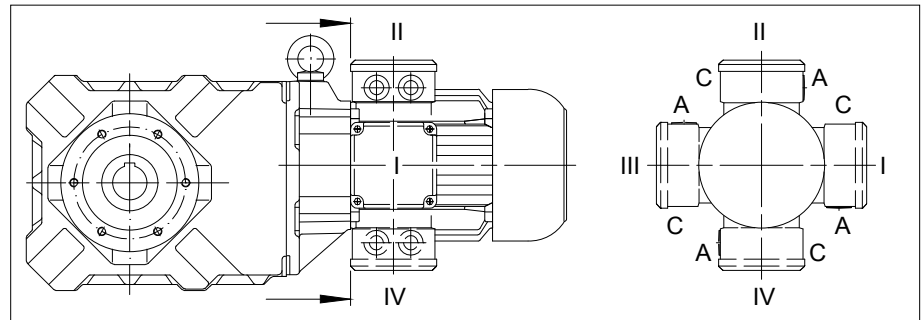
Gearboxes & Lubrication

Position of the terminal box

Position of the terminal box and the cable entry points (BK and BS)

The standard position of the terminal box for bevel-geared and worm-geared motors is position II.

Cable entry through side A or side C is possible



Turning or rotating the gearbox in space in the different mounting positions according to DIN 42950 does not influence the marking as shown. The details of the terminal box always show the position of the terminal box and the cable entry in relation to the gearbox and not in space. The mounting according to DIN 42950 is to be given separately.

Radial and axial forces at the output shaft

The output shafts and output-shaft bearings are matched to the motor torques. It is advisable to locate the drive-transmission element's point of application as close as possible to the shaft collar to ensure that the load imposed by external radial forces is not unnecessarily high. Permissible values for radial forces referred to the output shaft center line are listed in the selection tables. Please consult us if your application involves extra-high axial loading.

Dimensions and fits of output shafts and keyways

The output shaft and second motor shaft extension together with keyways are machined to the following standards:

Solid shafts

Suffix letters		AV Dimensions and tolerances	AM or CS or none Dimen- sions Tolerances	up to 50 mm dia	above 50 mm dia
Output dia	shaft	ANSI B4.1	ISO R 775	k6	m6
Keyway		ANSI B17.1	ISO R 773	P9	P9
Keyway	high shape	ANSI B17.1	ISO R 773	h9	h9
Bore of power transmission elements		AGMA 511.02	ISO R 286	H7	H7

Hollow shafts with keyway

Suffix letters		AV Dimensions and tolerances	AM or CS or none Dimensions Tolerances
Bore dia		ANSI B4.1	ISO R 775 H7
Keyway		ANSI B17.1	ISO R 773 JS9
Keyway	high shape	ANSI B17.1	ISO R 773 h9
Countershaft		ANSI B4.1	ISO R 286 h6

Plain hollow shafts without keyway for shrink disk connection (SSV)

Suffix letters		AV Dimensions and tolerances	AM or CS or none Dimensions Tolerances
External dia		ANSI B4.1	manufacturer's standard f7
Internal dia		ANSI B4.1	manufacturer's standard H7
Countershaft		ANSI B4.1	ISO R 286 h6

H7 permits the following tolerances:

Boring diameter (mm)	Limiting tolerances (1/1000 mm)
above 6 to 10	0 to +15
above 10 to 18	0 to +18
above 18 to 30	0 to +21
above 30 to 50	0 to +25
above 50 to 80	0 to +30
above 80 to 120	0 to +35
above 120 to 140	0 to +40

Boring diameter (inch)	Limiting tolerances (1/1000 inch)
above 0 to 0.12	0 to -0.4
above 0.12 to 0.24	0 to -0.5
above 0.24 to 0.40	0 to -0.6
above 0.40 to 0.71	0 to -0.7
above 0.71 to 1.19	0 to -0.8
above 1.19 to 1.97	0 to -1.0
above 1.97 to 3.15	0 to -1.2
above 3.15 to 4.73	0 to -1.4
above 4.73 to 7.09	0 to -1.6
above 7.09 to 9.85	0 to -1.8
above 9.85 to 12.41	0 to -2.0
above 12.41 to 15.75	0 to -2.2
above 15.75 to 19.69	0 to -2.5

H 6 permits the following tolerances:

Boring diameter (mm)	Limiting tolerances (1/1000 mm)
above 30 to 50	0 to -16
above 50 to 80	0 to -19
above 80 to 120	0 to -22
above 120 to 180	0 to -25

Boring diameter (inch)	Limiting tolerances (1/1000 inch)
above 0 to 0.12	0 to -0.25
above 0.12 to 0.24	0 to -0.3
above 0.24 to 0.40	0 to -0.4
above 0.40 to 0.71	0 to -0.4
above 0.71 to 1.19	0 to -0.5
above 1.19 to 1.97	0 to -0.6
above 1.97 to 3.15	0 to -0.7
above 3.15 to 4.73	0 to -0.9
above 4.73 to 7.09	0 to -1.0
above 7.09 to 9.85	0 to -1.2
above 9.85 to 12.41	0 to -1.2
above 12.41 to 15.75	0 to -1.4
above 15.75 to 19.69	0 to -1.6

Installing transmission elements

Note:

Gearboxes using torque reaction by means of a flange (Code 2.; 3; 4.; 7.; 8.) or torque arm (Code 5.), must have the side for the torque reaction the same as where the radial force on the output shaft occurs (see rubber buffers for torque arms)! Please consult the factory for other designs.

Gear with solid shaft

Always exercise meticulous care when fitting transmission elements onto output shafts and, whenever possible, use the DIN 332 tapped bore provided for this purpose. Fitting is usually easier if the transmission element can be heated to approximately 100° C for installation. Dimension the locating bore to ISO H7.

Gears with solid shaft at each end (gear code -.3/): alignment of the two keys is subject to the DIN 7168 tolerances, the degree of accuracy is "fine".

Gear with hollow shaft

Hollow shafts usually engage solid shafts of the driven machinery. The gear unit must be mounted such as to be free of constraint and be fixed axially (e.g. by means of assembly help acc. following description "notes for installing shaft mount gears with hollow shaft and keyway"). Special contract provision must be made if the hollow shaft has to guide the solid shaft or, for any other reason, close out-of-round tolerance referenced to a point on the gear housing (such as a flange, for instance) is required.

Shrink disc coupling

A shrink disc coupling (SSV) can transmit high torque from the non- grooved hub to the smooth shaft. The SSV is easily secured and released, using commercially available bolts. SSVs are the ideal supplement for shaft mount gears. The maximum transmittable torque for the selected shrink discs when fitted and mounted according to instructions is above the breakaway torque of the respective motors classified as standard (for classification of shrink disc sizes see chapter 11, 12, 13 "Additional dimensional drawings for Shrink disc coupling).

Torque restraint

Shaft-mounted geared motors require a suitable torque restraint to resist the reaction torque. Shaft-mounted gears have cast torque arms as standard. Bevel gears and worm gears are available with bolt-on torque arms on request. The torque arm is screwed onto the front "V" on the side of the gear unit. It is always important to ensure that the torque arm does not create excessive constraining forces due to the driven shaft running untrue, for example. Excessive play can result in excessive shock torques in switching or reversing operations. Consequently, we recommend the use of pre-tensioned rubber damping elements. These rubber buffers are part of the scope of supply for designs with a torque arm (see chapter 11, 12, 13 dimensional drawings "Rubber buffer for torque restraint").

Notes for installing shaft mount gears with hollow shaft and keyway

(1) Attaching the hollow shaft to the customer shaft

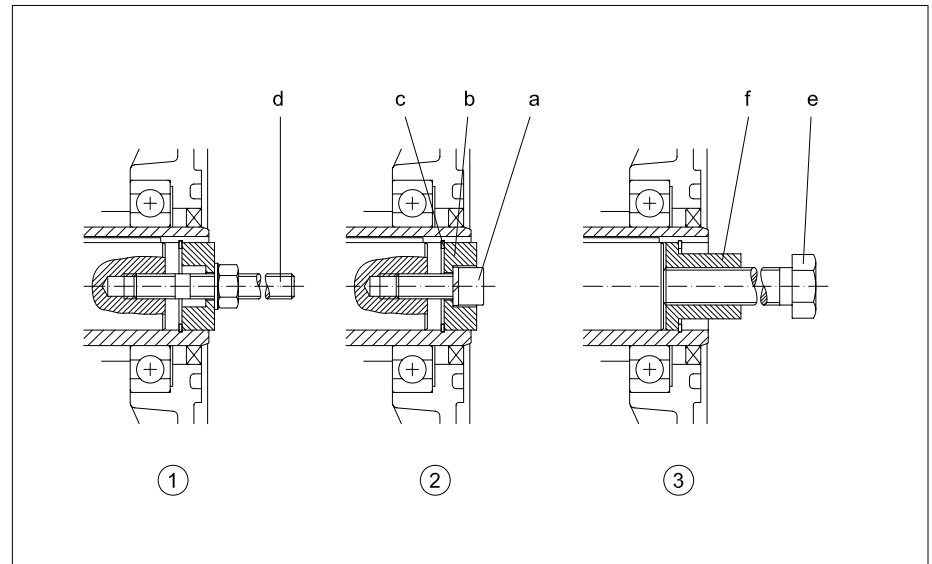
Threaded bolt (d) is screwed into the end thread of the shaft to be driven. By tightening the nut, apply force to thrust plate (b) and locating ring (c) to draw the gear unit onto the shaft.

(2) Axial fastening

Pressure piece (b) is rotated and fitted against retaining ring (c) using fixing screw (a).

(3) Removing

Extractor (f) is fitted between the end face of the shaft and retainer ring (c). Tighten press-off screw (e) against the end of the shaft and pull the gear unit off the shaft. Manufacturing drawings for the required parts are available on request. These parts are not included in the scope of supply.



Detailed information on shaft-mounted gear units, bevel-gear units and worm-gear units is available (see chapter 11, 12, 13 dimensional drawings "Tools for fitting shaft-mounted gear with hollow shaft and keyway").

Gear ventilation

The lifetime of the gearbox lubricant increases, the better it is protected from negative environmental influences. Should the oil level or the gearbox ratio cause a very high lubricant temperature, the gearbox will be supplied as standard with a breather plug. Either on request or for corresponding high ambient temperatures, all gearboxes from size 10 can be supplied with a breather plug.

For the position of the threaded plugs see chapter 5 threaded plugs.

Output shaft seals

All size 10 and larger gears are available with double seals for the output shaft on request and at extra cost. Double seals are particularly effective if the output shaft points down and as protection against external influences.

Lubricants

The drives are shipped ready-filled with gear lubricant. Lubricated in this way, the gear units are suitable for ambient temperatures in the range -20 °C to + 40 °C. The quantity of lubricant is optimized for the desired installed position as is stated on the nameplate. The type of lubricant is stated in the Operating Instructions. Lubricants for other temperature ranges or special applications available on request.

Wear-protective EP gear oils as indicated in the following table have proven particularly effective:

Manufacturer	Lubricant type					
	Mineral Oil	Synthetic Oil				USDA H1 Oil
	ISO VG 220	ISO VG 68		ISO VG 220	ISO VG 460	ISO VG 220
	Standard oil for gearboxes in the series BF06-BF90 BG04-BG100 BK60-BK90	Low temperature oil for gearboxes in the series BF06-BF90 BG04-BG100	BK06-BK90 BM09-BM40 BS02-BS40	Standard oil for gearboxes in the series BS02-BS10 BK06-BK10 BM09-BM40 High temperature oil for gearboxes in the series BS02-BS10 BK06-BK10 BF06-BF90 BG04-BG100 BK60-BK90 BM09-BM10	Standard oil for gearboxes in the series BS20-BS40 BK17-BK50 BM20-BM40 High temperature oil for gearboxes BS20-BS40 BK17-BK50 BM20-BM40	Food and Beverage Industry Oil for gearboxes in the series BF06-BF90 BG04-BG100 BK06-BK90 BM09-BM40 BS02-BS40
AGIP	BLASIA 220 [13 02 08]	—	—	BLASIA S 220 [13 02 06]	BLASIA S 460 [13 02 06]	—
BECHER RHUS	STAROIL G 220 [13 02 08]	—	BERUSYNTH EP 68 [13 02 06]	BERUSYNTH EP 220 [13 02 06]	BERUSYNTH EP 460 [13 02 06]	BERUSYNTH EP 220 H1 [13 02 06]
CASTROL	ALPHA EP 220 [13 02 08] ALPHA SP 220 [13 02 08] OPTIGEAR EP 220 [13 02 08] OPTIGEAR 1100/220 [13 02 08]	Alphasyn T68 [13 02 06]	—	ALPHASYN PG 220 [13 02 06] OPTIGEAR 800/220 [13 02 06] OPTIGEAR 1300/220 [13 02 06] ALPHASYN GS 220 [13 02 06]	ALPHASYN PG 460 [13 02 06] OPTIGEAR 800/460 [13 02 06] OPTIGEAR 1300/460 [13 02 06] ALPHASYN GS 460 [13 02 06]	OPTILEB GT 220 (CLP-HC) [13 02 06] OPTILEB GT 1800/220 (CLP-PG) [13 02 08]
CHEVRON	Meropa 220 [13 02 08] GEARTEX EP-A SAE 85W-90 [13 02 06]	—	Meropa Synlu- be WS 68 [13 02 06]	Meropa Synlube WS 220 [13 02 06]	Meropa Synlube WS 460 [13 02 06]	Chevron lubricating oils FM 220 (USA) [13 02 06]
FUCHS	RENOLIN CLP 220 [13 02 08] RENOLIN CLPF 220 SUPER [13 02 08] RENOLIN CLP 220 PLUS [13 02 08]	RENOLIN UNI- SYN CLP 68 [13 02 06]	RENOLIN PG 68 [13 02 06]	RENOLIN PG 220 [13 02 06]	RENOLIN PG 460 [13 02 06]	CASSIDA FLUID GL 220 [13 02 06]
KLÜBER	KLÜBEROIL GEM 1-220 N [13 02 08]	—	KLÜBER- SYNTH GH 6-80 [13 02 06]	KLÜBERSYNTH GH 6-220 [13 02 06]	KLÜBERSYNTH GH 6-460 [13 02 06]	KLÜBEROIL 4UH1-220 N [13 02 06] KLÜBERSYNTH UH1 6-220 [13 02 06]
MOBIL	MOBILGEAR 600 XP 220 [13 02 08]	MOBIL SHC 626 [13 02 06]	—	MOBIL SHC Gear 220 [13 02 06] MOBIL SHC 630 [13 02 06]	MOBIL SHC Gear460 [13 02 06] MOBIL SHC 634 [13 02 06]	MOBIL SHC CIBUS 220 [13 02 06]
OEST	Gearol 220 [13 02 06]	—	—	—	—	—
SHELL	OMALA S2 GX220 [13 02 08]	—	—	OMALA S4 WE 220 [13 02 06]	OMALA S4 WE 460 [13 02 06]	—
TOTAL	CARTER EP 220 [13 02 08] CARTER XEP 220 [13 02 06]	—	—	CARTER SY 220 [13 02 06]	CARTER SY 460 [13 02 06]	NEVASTANE SL220 [13 02 06] NEVASTANE EP 220 [13 02 06] NEVASTANE SY 220 [13 02 06]
WINTERSHALL	SRS ERSOLAN 220 [13 02 08]	—	—	—	—	—

[...] European Waste Catalogue Code (Decision 2001/118/CE)

Important:

Synthetic gear oils of a Polyglykol base (e.g. PGLP...) must be disposed of separately to mineral oil as **special waste** .

So long as the ambient temperature does not fall below – 20 °C the international definition of the viscosity class at 40 °C according to ISO 3448 and DIN 51519 ISO the viscosity class VG220 (SAE90) is recommended according, in North America AGMA 5EP.

For lower temperatures it is recommended to use oils of a lower nominal viscosity with a corresponding better starting characteristic, for instance a PGLP with a nominal viscosity VG68 (SAE80) or AGMA 2EP respectively. These types of oil can already be necessary at a temperature around the freezing point, if the break away torque of a drive is reduced by some smooth starting device or if the motor has a relatively low power.

The preferred quantity of lubricant for the planned type of installation is stated on the motor's rating plate (symbol "oil can"). Unless a Sight Glass is present oil should Never Be Topped UP. Information about the quantity of lubricant required for other types of installation can be obtained from the factory.

Lubricant quantities

Lubricant quantities, BG-series gears

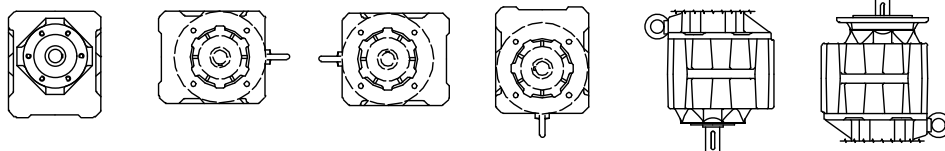
Gear-housing with flange or foot

Flange (Code-2./Code-3./Code-4./Code-7.)

Foot with threaded holes (Code -6.)

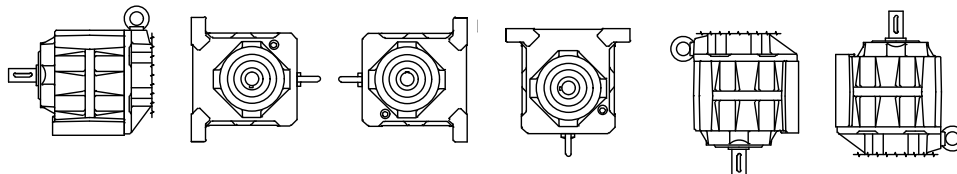
Foot with clearance holes (Code-9.)

Completely machined (Code -8.)



Foot housing

cast foot with clearance holes (Code -1.)



Gearbox type		H4	H1	H2	H3	V1	V2
BG04	*	0.06	0.06	0.06	0.06	0.11	0.11
	**	0.11	0.11	0.11	0.11	0.21	0.11
BG05	*	0.11	0.11	0.11	0.11	0.17	0.17
	**	0.17	0.17	0.17	0.17	0.34	0.17
BG06	*	0.17	0.17	0.17	0.17	0.32	0.32
	**	0.25	0.25	0.25	0.25	0.51	0.32
BG10	*	1.37	1.37	1.37	1.80	2.22	1.80
	**	0.95	0.95	0.95	1.27	1.59	1.27
BG15	**	0.85	0.85	0.85	0.74	1.31	1.16
BG20	*	1.69	1.69	1.69	2.32	2.96	2.32
	**	1.27	1.27	1.27	2.11	2.43	1.90
BG30	*	2.11	2.11	2.11	3.59	5.07	3.38
	**	2.11	2.11	2.11	3.59	4.86	3.59
BG40	*	3.59	3.59	3.59	5.28	7.40	4.44
	**	3.59	3.59	3.59	5.28	7.40	4.44
BG50	*	6.34	6.34	6.34	9.51	11.62	6.97
	**	6.34	6.34	6.34	9.51	11.62	6.97
BG60	*	11.62	11.62	11.62	14.79	23.04	13.53
	**	11.62	11.62	11.62	14.79	23.04	13.53
BG70		13.74	13.74	13.74	16.91	28.53	19.02
BG80		23.25	23.25	23.25	23.25	47.55	31.70
BG90		40.15	40.15	40.15	40.15	84.54	54.95
BG100		73.97	73.97	116.24	105.67	139.48	105.67

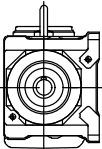
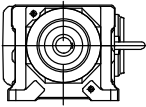
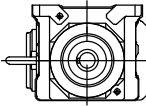
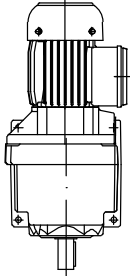
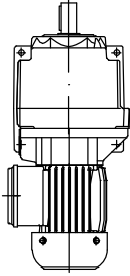
* Flange Housing

** Foot Housing

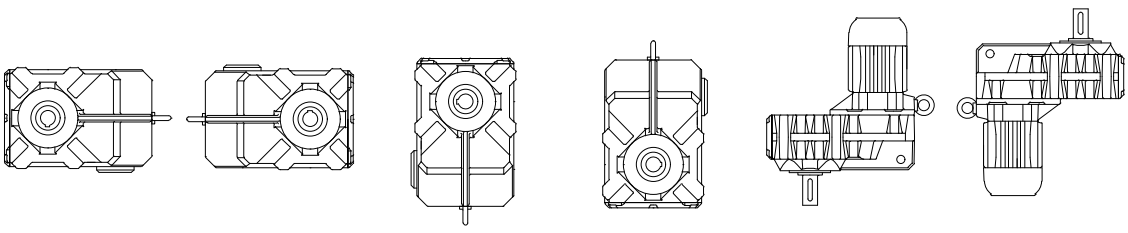
Lubrication quantity in liquid pint

Lubricant quantities, BG20-01R

5

						
Gearbox type	H4	H1	H2	H3	V1	V2
BG20R	1.69	2.11	1.69	2.96	3.49	2.11
	Lubrication quantity in liquid pint					

Lubricant quantities, BF-series gears

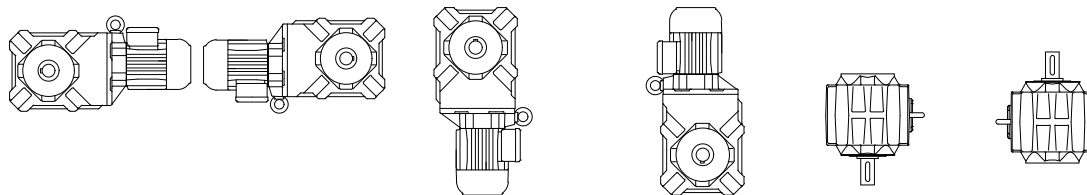


Gear type	H1	H2	H3	H4	V1	V2
BF06	0.53	0.53	0.53	0.78	0.74	0.63
BF10	1.80	1.180	1.80	2.32	3.06	3.17
BF20	2.75	2.75	2.75	3.59	4.65	4.76
BF30	3.59	3.59	3.59	4.65	6.76	6.34
BF40	5.71	5.71	5.71	7.40	10.36	10.14
BF50	8.03	8.03	8.03	10.57	14.16	14.16
BF60	14.16	14.16	14.16	19.02	25.99	25.36
BF70	25.78	25.78	25.78	33.81	51.14	46.07
BF80	35.93	35.93	35.93	44.38	68.05	58.12
BF90	67.63	67.63	67.63	86.65	131.03	112.01
Lubrication quantity in liquid pint						

Gearboxes & Lubrication

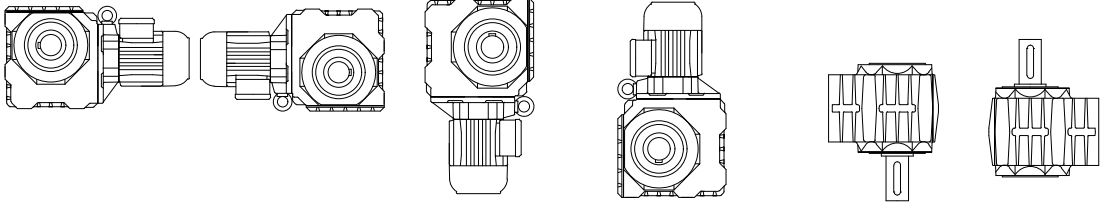
Lubricants

Lubricant quantities, BK-series gears



Gear type	H1	H2	H3	H4	V1	V2
BK06	0.32	0.49	0.61	0.66	0.38	0.49
BK10	1.75	1.75	1.94	3.70	1.94	1.94
BK17	2.11	3.59	3.80	5.49	2.75	3.80
BK20	3.17	3.17	3.38	6.13	3.49	3.49
BK30	4.65	4.65	4.86	9.30	5.07	5.07
BK40	7.40	7.40	7.40	14.16	7.82	7.82
BK50	12.26	12.26	12.26	24.30	12.68	12.68
BK60	12.68	18.39	14.58	25.36	18.18	18.18
BK70	21.56	31.70	24.30	43.32	28.53	30.64
BK80	38.04	53.89	40.15	78.20	49.67	53.89
BK90	69.74	101.44	76.08	145.83	95.10	101.44
Lubrication quantity in liquid pint						

Lubricant quantities, BS-series gears

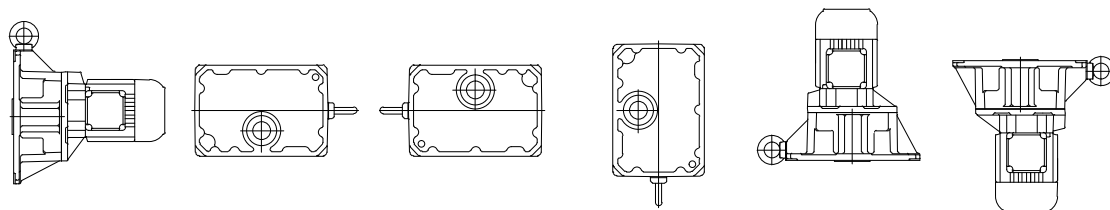


Gear type	H1	H2	H3	H4	V1	V2
BS02	0.13	0.13	0.13	0.13	0.13	0.13
BS03	0.36	0.36	0.36	0.36	0.36	0.36
BS04	0.23	0.36	0.23	0.42	0.23	0.23
BS06	0.51	0.76	0.51	0.95	0.51	0.51
BS10	1.90	2.75	1.90	3.38	1.90	1.90
BS20	3.17	4.44	3.17	5.71	3.17	3.17
BS30	4.65	6.34	4.65	8.03	4.65	4.65
BS40	7.40	9.93	7.40	12.68	7.40	7.40
Lubrication quantity in liquid pint						

Gearboxes & Lubrication

Lubricants

Lubricant quantities, pre-stage gears (Z)



BF	H4	H1	H2	H3	V1	V2
BG						
BK	H1	V1	V2	H2	H4	H3
BS						
Gear type						
BF10Z BF10Z BK10Z BS10Z	0.21	0.11	0.25	0.15	0.34	0.15
BG20Z BF20Z BK20Z BS20Z	0.32	0.15	0.40	0.36	0.57	0.21
BG30Z BF30Z BK30Z BS30Z BM30Z BM30Z	0.42*	0.21	0.74	0.46	0.74	0.40
BG40Z BF40Z BK40Z BS40Z BM40Z	0.68*	0.36	1.06	0.78	1.27	0.68
BG50Z BF50Z BK50Z	1.06	0.63	1.94	1.48	2.43	1.06
BG60Z BF60Z BK60Z	2.54	1.06	3.28	2.32	4.23	1.48
BG70Z BF70Z BK70Z BS70Z	2.54	1.27	3.80	3.38	5.07	2.96
BG80Z BF80Z BK80Z BS80Z	6.55	2.75	7.45	5.49	10.99	4.23
BG90Z BK90Z	8.88	3.17	11.41	7.40	16.27	6.34
*: with BM30Z/BM40Z the pre-stage lubricant is filled via the main gearbox.						
Lubrication quantity in liquid pint						

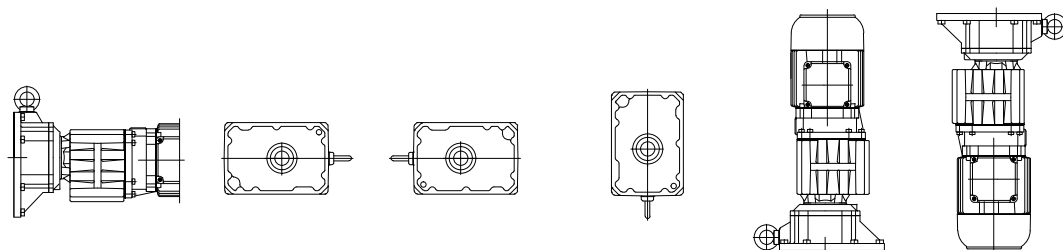
Lubrication quantity for intermediate gear

Definition of the terminal box position

Terminal box position for intermediate gear is similar to the main gearbox that means

Main gearbox BG, BF terminal box pos. I -> intermediate gearbox terminal box pos. I

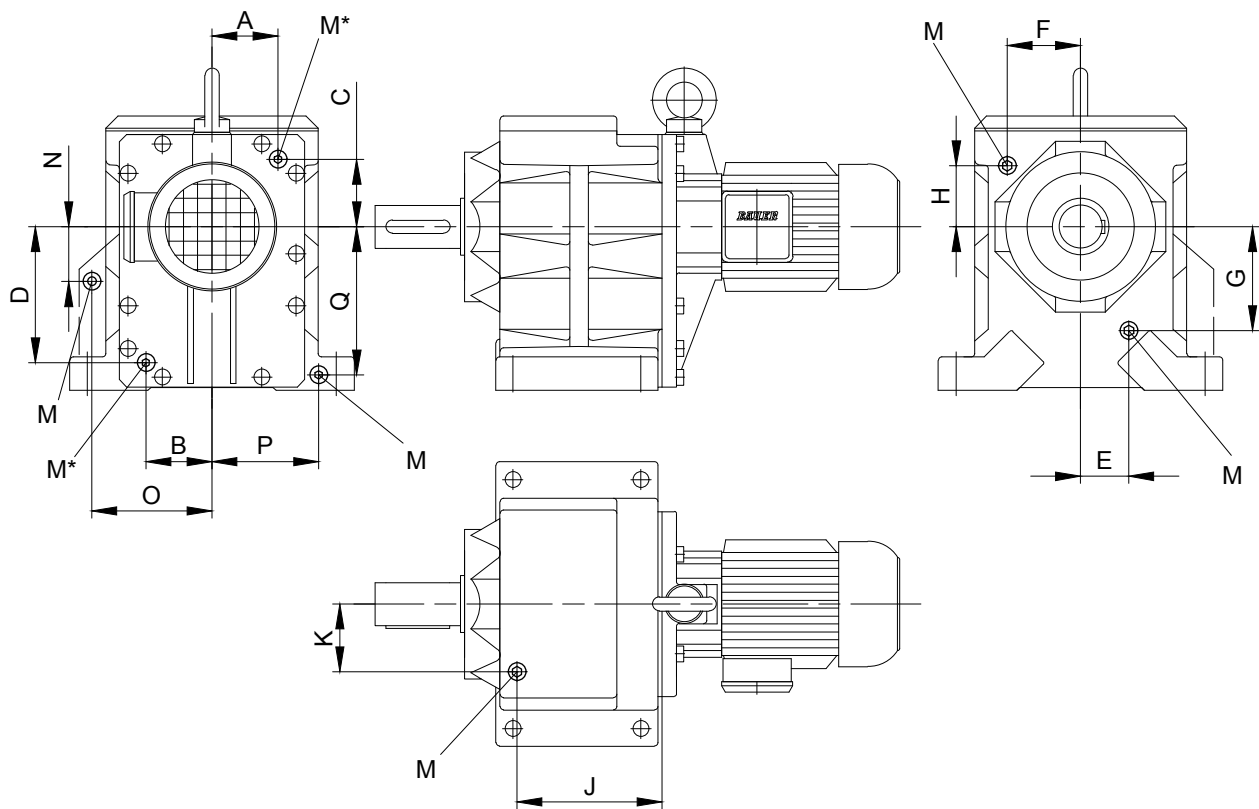
Main gearbox BK, BS terminal box pos. II -> intermediate gearbox terminal box pos. II



Mounting position of main gearbox	BF	H4	H1	H2	H3	V1	V2
	BG						
	BK	H1	V1	V2	H2	H4	H3
	BS						
Type designation of double gearbox combination							
BG06G04 BK06G04	BS06G04	0.06	0.06	0.06	0.06	0.11	0.11
BG10G06 BK10G06	BF10G06 BS10G06	0.17	0.17	0.17	0.17	0.32	0.32
BG20G06 BK20G06	BF20G06 BS20G06	0.17	0.17	0.17	0.17	0.32	0.32
BG30G06 BK30G06	BF30G06 BS30G06	0.17	0.17	0.17	0.17	0.32	0.32
BG40G10 BK40G10	BF40G10 BS40G10	1.37	1.37	1.37	1.80	2.22	1.80
BG50G10 BK50G10	BF50G10	1.37	1.37	1.37	1.80	2.22	1.80
BG60G20 BK60G20	BF60G20	1.69	1.69	1.69	2.32	2.96	2.32
BG70G20 BK70G20	BF70G20	1.69	1.69	1.69	2.32	2.96	2.32
BG80G40 BK80G40	BF80G40	3.59	3.59	3.59	5.28	6.97	4.44
BG90G50 BK90G50	BF90G50 BG100G50	6.34	6.34	6.34	9.51	11.62	6.97
Lubrication quantity in liquid pint							

Threaded plugs

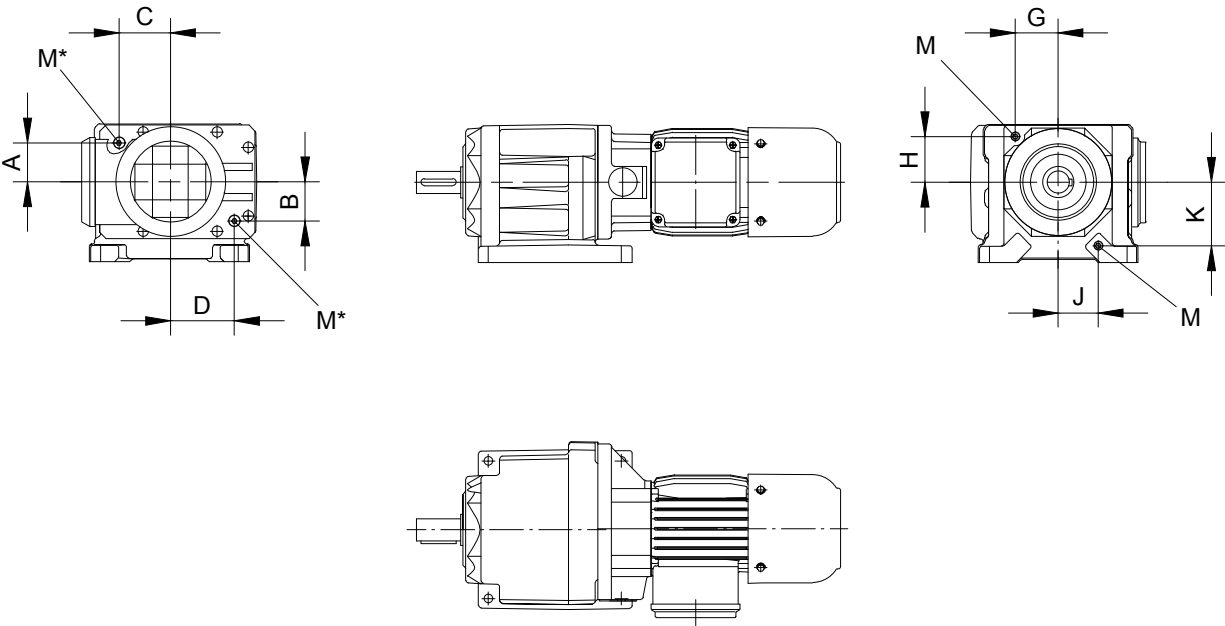
Position of threaded plugs
-BG-series gears



Type		A	B	C	D	E	F	G	H	J	K	N	O	P	Q	M
BG10	Foot housing	see position of the oil drain an filler plugs on the system cover	Tab.I-Tab.III size B.10		1.30	1.65	1.89	1.63	-	-	-	-	-	-	-	M10x1
BG10	Flange housing		Tab.I-Tab.III size B.10		1.06	-	2.87	-	-	-	-	-	-	-	-	M10x1
BG15	Foot housing		Tab.I-Tab.III size B.10		-	-	-	-	-	-	-	-	-	-	-	-
BG20	Foot housing		Tab.I-Tab.III size B.20		-	1.85	-	2.07	-	-	-	-	-	-	-	M10x1
BG20	Flange housing		Tab.I-Tab.III size B.20		-	1.10	-	2.68	-	-	-	-	-	-	-	M10x1
BG30	Foot housing		Tab.I-Tab.III size B.30		-	2.13	-	2.28	-	-	-	-	-	-	-	M10x1
BG30	Flange housing		Tab.I-Tab.III size B.30		-	2.28	-	1.89	-	-	-	-	-	-	-	M10x1
BG40	Foot housing		Tab.I-Tab.III size B.40		-	2.95	-	1.89	-	-	-	-	-	-	-	M10x1
BG40	Flange housing		Tab.I-Tab.III size B.40		-	2.95	-	1.89	-	-	-	-	-	-	-	M10x1.5
BG50	Foot housing		Tab.I-Tab.III size B.50		-	2.09	-	3.94	-	-	-	-	-	-	-	M10x1.5
BG50	Flange housing		Tab.I-Tab.III size B.50		-	2.09	-	3.94	-	-	-	-	-	-	-	M10x1.5
BG60	Foot housing		Tab.I-Tab.III size B.60		-	2.76	-	4.69	-	-	-	-	-	-	-	M10x1.5
BG60	Flange housing		Tab.I-Tab.III size B.60		-	2.76	-	4.69	-	-	-	-	-	-	-	M10x1.5
BG70			Tab.I-Tab.III size B.70		-	4.06	-	3.39	8.03	3.74	-	-	-	-	-	M10x1.5
BG80			Tab.I-Tab.III size B.80		-	5.24	-	4.33	9.33	4.37	-	-	-	-	-	M10x1.5
BG90			Tab.I-Tab.III size B.90		-	6.50	-	4.88	11.69	5.51	-	-	-	-	-	M24x1.5
BG100			Tab.I-Tab.III size B.80		-	7.95	-	5.04	16.54	6.50	5.32	10.35	7.95	11.54		M24x1.5
M = Plug according to DIN 908																
Dimensions in inch																

M* =Factor and position of the drain plug see page 82.

Position of threaded plugs
-BG-20-01R



5

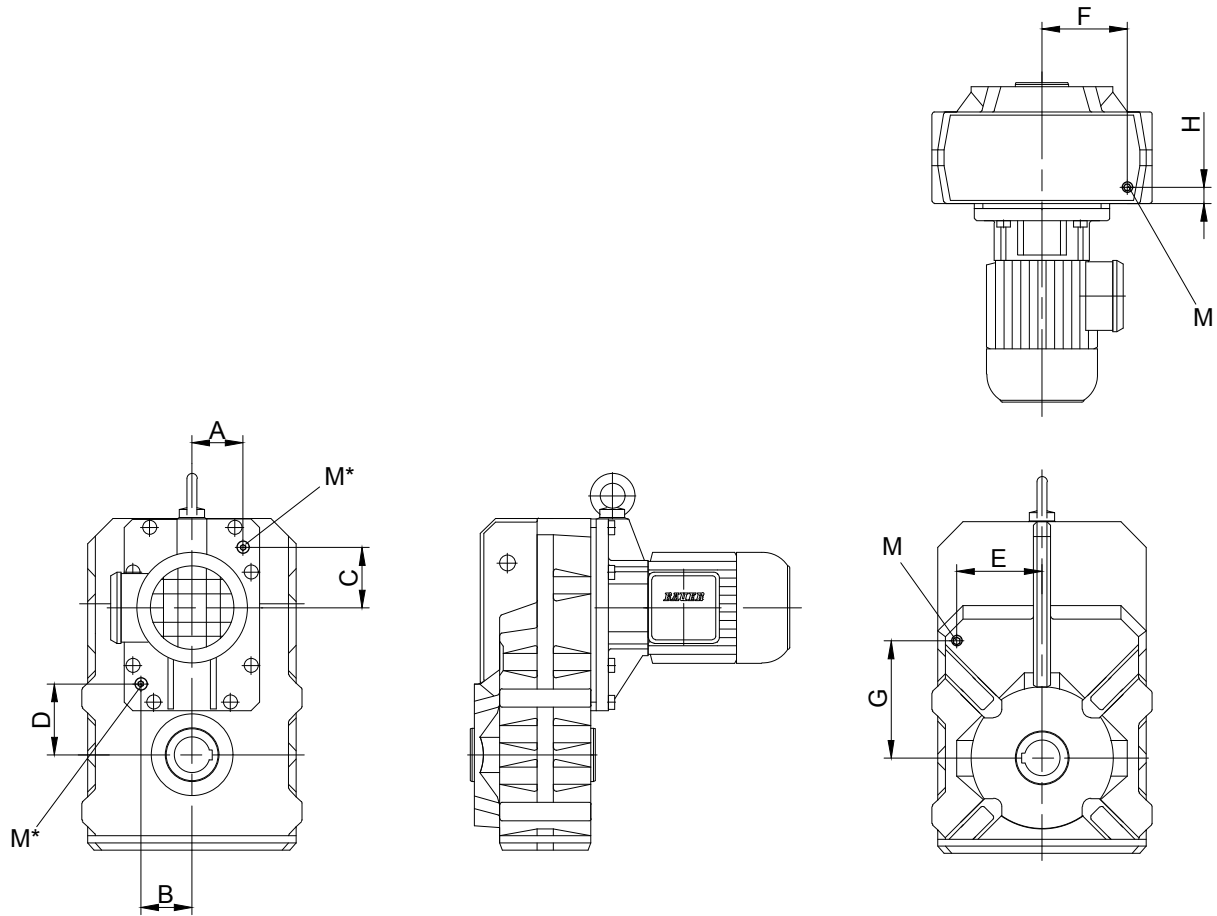
Type	A	B	C	D	G	H	J	K	M
BG20-01R Roller table	see position of the oil drain and filler plugs on the system cover Tab.I-Tab.III size B20				1.91	2.03	1.77	2.82	M10x1
M = Plug according to DIN 908 Dimensions in inch									

M* = Size and position of the drain plug see page 82.

Threaded plugs

Position of threaded plugs

-BF-series gears



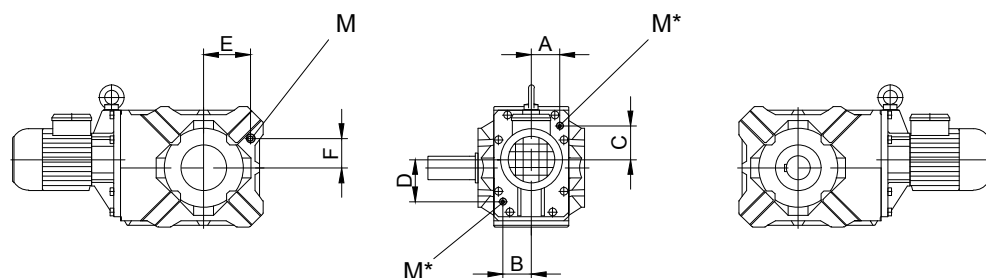
Type	A	B	C	D	E	F	G	H	M
BF06	see position of the oil drain and filler plugs on the system cover	on request							
BF10		Tab.I-Tab.III size	B.10	2.52	2.56	3.82	1.10	M10x1	
BF20		Tab.I-Tab.III size	B.20	3.03	2.76	4.53	1.20	M10x1	
BF30		Tab.I-Tab.III size	B.30	3.46	3.23	4.92	1.44	M10x1	
BF40		Tab.I-Tab.III size	B.40	3.94	3.39	5.55	1.30	M14x1.5	
BF50		Tab.I-Tab.III size	B.50	4.72	4.13	6.50	1.67	M14x1.5	
BF60		Tab.I-Tab.III size	B.60	5.51	5.71	7.87	1.99	M20x1.5	
BF70		Tab.I-Tab.III size	B.70	6.50	6.97	9.25	2.07	M20x1.5	
BF80		Tab.I-Tab.III size	B.70	5.71	5.83	10.04	4.84	M20x1.5	
BF90		Tab.I-Tab.III size	B.80	6.10	6.93	13.68	10.24	M24x1.5	
M = Plug according to DIN 908									
Dimensions in inch									

M* = Size and position of the drain plug see page 82.

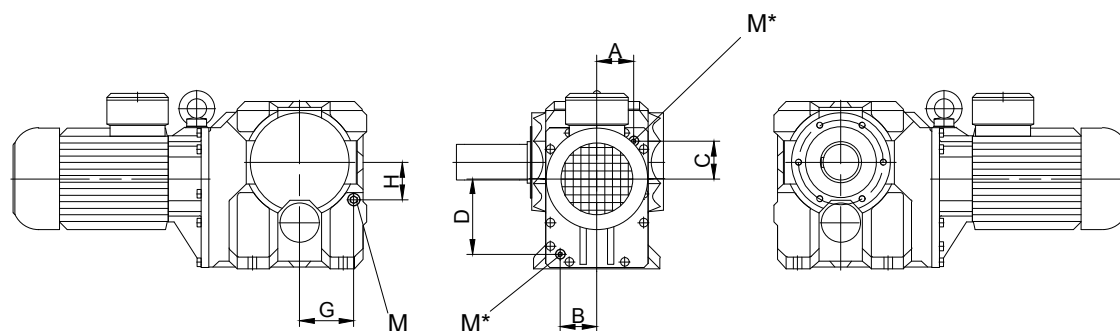
Position of threaded plugs

-BK-series gears

BK10 - BK50



BK60 - BK90



Type	A	B	C	D	E	F	G	H	M
BK06	see position of the oil drain and filler plugs on the system cover	on request							
BK10		Tab.I-Tab.III size B.10			2.44	1.28	-	-	M10x1
BK20		Tab.I-Tab.III size B.20			2.89	1.48	-	-	M10x1
BK30		Tab.I-Tab.III size B.30			3.15	1.69	-	-	M10x1
BK40		Tab.I-Tab.III size B.40			3.46	1.93	-	-	M14x1.5
BK50		Tab.I-Tab.III size B.50			4.65	2.91	-	-	M14x1.5
BK60		Tab.I-Tab.III size B.60			-	-	3.66	3.43	M20x1.5
BK70		Tab.I-Tab.III size B.70			-	-	5.39	3.74	M20x1.5
BK80		Tab.I-Tab.III size B.80			-	-	5.91	4.61	M20x1.5
BK90		Tab.I-Tab.III size B.90			-	-	8.19	5.32	M24x1.5
M = Plug according to DIN 908 Dimensions in inch									

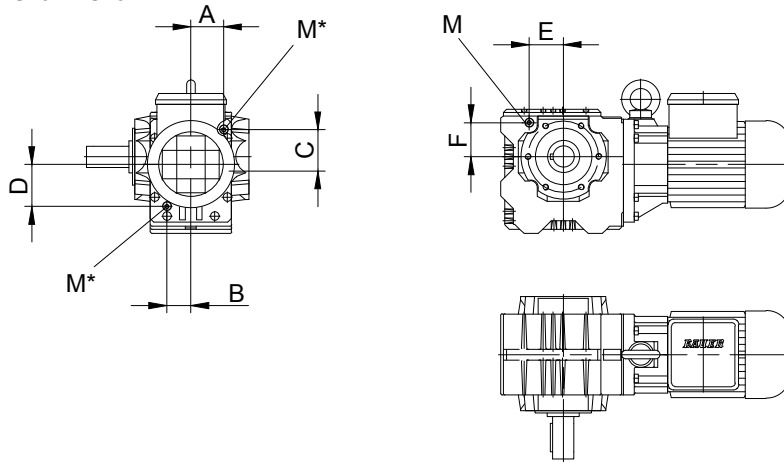
M* = Size and position of the drain plug see page 82.

Threaded plugs

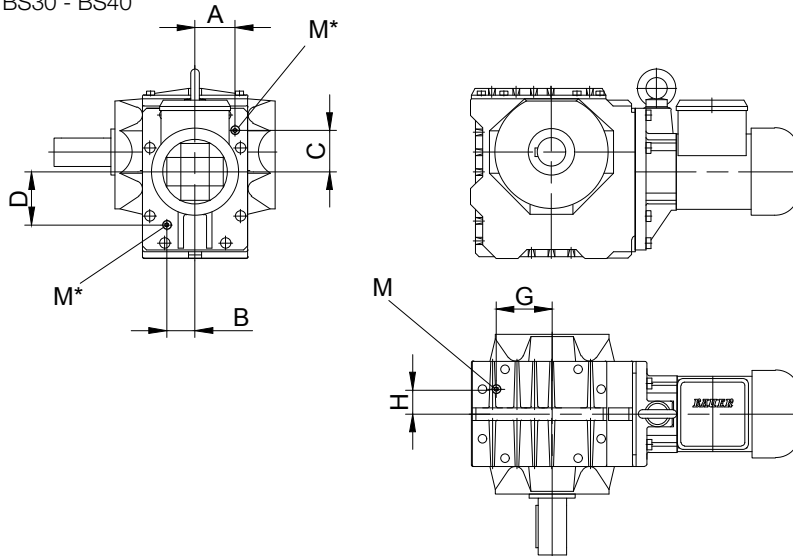
Position of threaded plugs

-BS-series gears

BS10 - BS20



BS30 - BS40



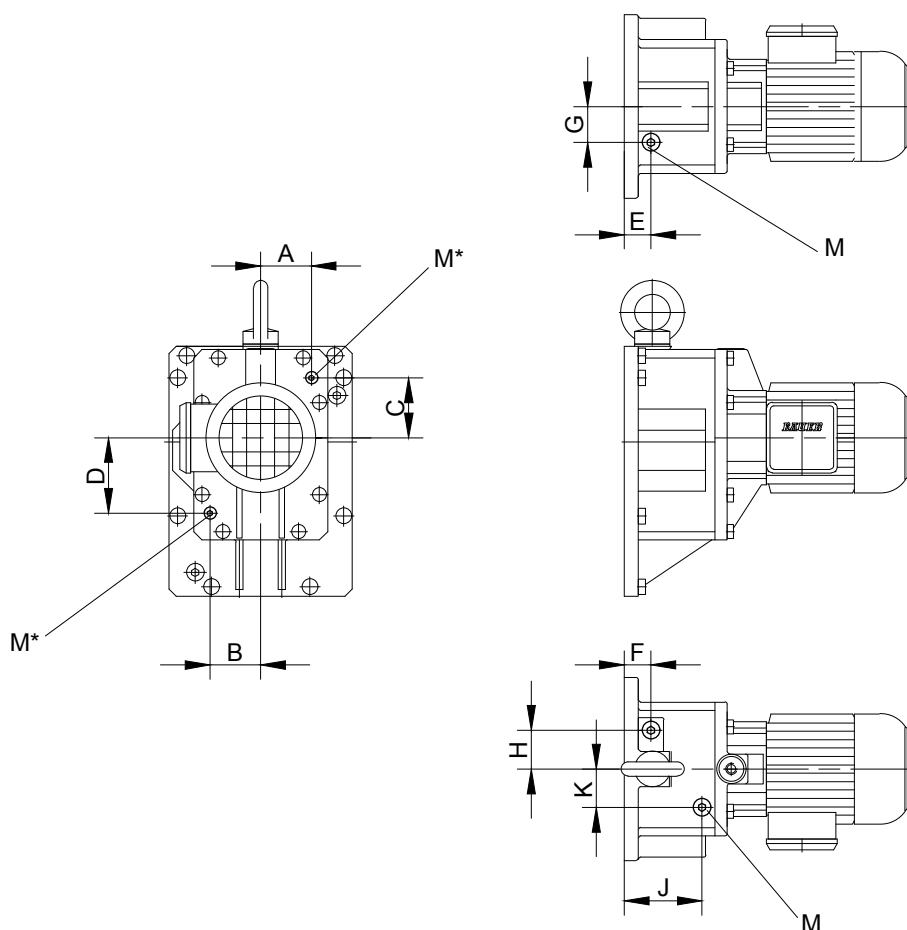
Type	A	B	C	D	E	F	G	H	M
BS10	see position of the oil drain and filler plugs on the system cover	Tab.I-Tab.III size B.10			1.89	1.97	-	-	M10x1
BS20		Tab.I-Tab.III size B.20			2.32	2.48	-	-	M10x1
BS30		Tab.I-Tab.III size B.30			-	-	3.11	1.38	M10x1
BS40		Tab.I-Tab.III size B.40			-	-	3.68	1.63	M14x1.5
M = Plug according to DIN 908									
Dimensions in inch									

M* = Size and position of the drain plug see page 82.

Position of threaded plugs

-pre-stage gears (Z)

5



Gear	A	B	C	D	E	F	G	H	J	K	M	
BG10(Z);BK10(Z)	-	-	-	-	0.98	-	0.69	-	1.79	0.98	M10x1	
BF10(Z);BS10(Z)												
BG20(Z);BK20(Z)	-	-	-	-	1.93	-	1.12	-	0.93	1.10	M10x1	
BF20(Z);BS20(Z)												
BG30(Z);BK30(Z)	see position of the oil drain and filler plugs on the system cover	Tab.I and Tab.III size B10			-	0.94	-	1.18	-	-	M10x1	
BF30(Z);BS30(Z)		Tab.I and Tab.III size B20			-	1.08	-	1.44	-	-	M14x1.5	
BG40(Z);BK40(Z)		Tab.I and Tab.III size B30			-	-	-	-	1.14	1.69	M14x1.5	
BF40(Z);BS40(Z)		Tab.I and Tab.III size B40			-	1.30	-	1.89	-	-	M20x1.5	
BG50(Z);BK50(Z)		Tab.I and Tab.III size B50			-	1.50	-	2.17	-	-	M20x1.5	
BF50(Z)		Tab.I and Tab.III size B60			-	1.77	-	2.87	-	-	M20x1.5	
BG60(Z);BK60(Z)		Tab.I and Tab.III size B70			-	1.77	-	2.44	-	-	M24x1.5	
BF60(Z)												
BG70(Z);BK70(Z)												
BF70(Z);BF80(Z)												
BG80(Z);BK80(Z)												
BF90(Z);BG100(Z)												
BG90(Z);BK90(Z)												
M = Plug according to DIN 908 Dimensions in inch												

M* = Size and position of the drain plug see page 82.

Gearboxes & Lubrication

Threaded plugs

Position of threaded plugs

-in the System Cover Design with Standard Geared Motor

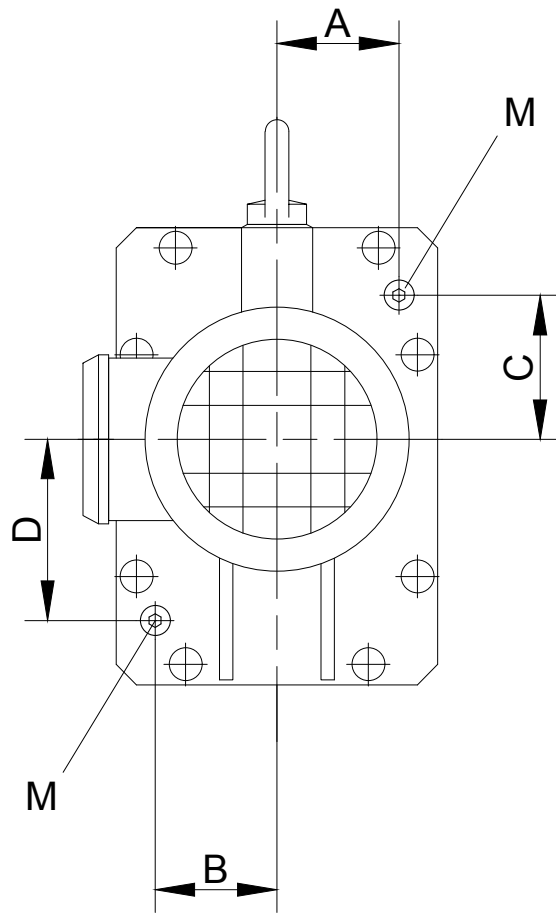


Table I: Design with Standard Geared Motor

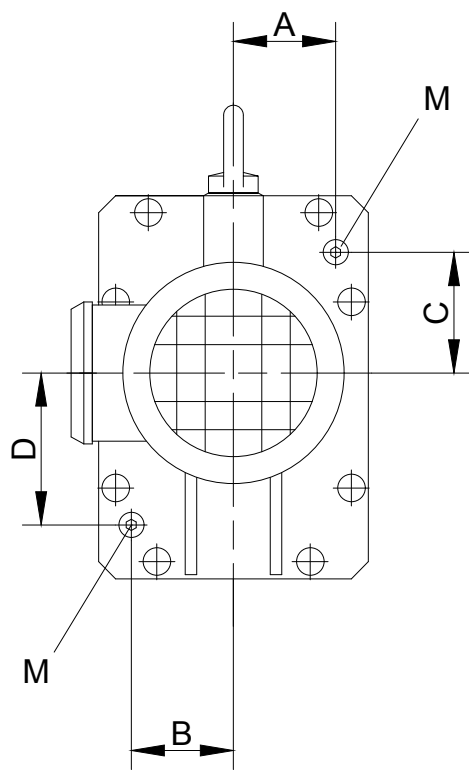
Gear	Size	A	B	C	D	M
BG10(Z); BK10(Z); BF10(Z);BS10(Z)	D05-D..09	1.42	1.34	1.71	2.32	M10x1
BG15	D05-D..09	1.42	1.34	1.71	2.32	M10x1
BG20(Z); BK20(Z); BF20(Z);BS20(Z)	D05-D..09	1.73	1.73	2.28	2.85	M10x1
BG30(Z); BK30(Z); BF30(Z);BS30(Z)	D05-D..09	2.22	1.57	2.29	2.95	M10x1
BG40(Z); BK40(Z); BF40(Z);BS40(Z)	D..08-D..11	2.60	2.80	2.80	3.70	M14x1.5
BG50(Z); BK50(Z); BF50(Z);	D..08-D..11	2.83	2.91	3.35	4.29	M14x1.5
BG60(Z); BK60(Z); BF60(Z);	D..13-D..16	3.07	2.91	3.23	4.29	M14x1.5
BG70(Z); BK70(Z); BF70(Z);BF80(Z)	D..09-D..13	3.31	3.19	4.72	6.10	M20x1.5
BG80(Z); BK80(Z); BF90(Z);BG100(Z)	D..16	3.39	3.19	4.72	6.10	M20x1.5
BG90(Z); BK90(Z);	D..09-D..18	3.74	3.35	3.82	7.60	M20x1.5
BG100(Z); BK100(Z);	D..11-D..18	4.65	4.65	4.33	9.65	M20x1.5
BG110(Z); BK110(Z);	D..13-D..18	5.71	5.71	4.57	11.57	M24x1.5

M = Plug according to DIN 908
Dimensions in inch

Position of the drain plugs for BG, BK, BS and BF gear ranges and pre-stages.

Position of threaded plugs

-in the System Cover Design with foreign motor or gear design with input shaft



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Table II: Design with foreign motor or gear design with input shaft

Gear	A	B	C	D	M
BG10(Z); BK10(Z);	1.34	1.34	1.59	2.24	M10x1
BF10(Z);BS10(Z)					
BG15	1.34	1.34	1.59	2.24	M10x1
BG20(Z); BK20(Z);	1.73	1.73	2.24	2.83	M10x1
BF20(Z);BS20(Z)					
BG30(Z); BK30(Z);	2.30	1.61	2.27	3.03	M10x1
BF30(Z);BS30(Z)					
BG40(Z); BK40(Z);	2.72	2.87	2.76	3.82	M14x1.5
BF40(Z);BS40(Z)					
BG50(Z); BK50(Z);	2.95	2.95	3.23	4.33	M14x1.5
BF50(Z);					
BG60(Z); BK60(Z);	3.31	3.19	4.69	6.10	M20x1.5
BF60(Z);					
BG70(Z); BK70(Z);	3.78	3.74	3.78	7.60	M20x1.5
BF70(Z);BF80(Z)					
BG80(Z); BK80(Z);	4.65	4.65	4.33	9.65	M20x1.5
BF90(Z);BG100(Z)					
BG90(Z); BK90(Z);	5.71	5.71	4.57	11.57	M24x1.5
M = Plug according to DIN 908 Dimensions in inch					

Position of the drain plugs for BG, BK, BS and BF gear ranges and pre-stages.

Threaded plugs

Position of threaded plugs
-in the System Cover Design with pre-stage Z

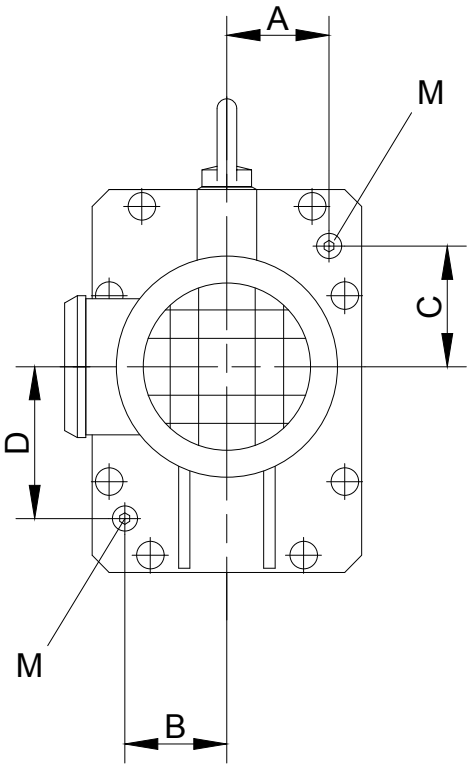
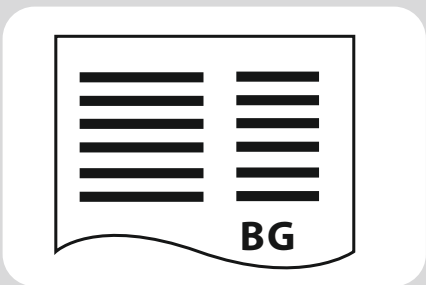


Table III: Design with pre-stage Z

Gear					M
B.10	1.50	1.56	1.73	2.42	M10x1
B.20	1.73	1.73	2.28	2.83	M10x1
B.30	2.32	1.65	2.29	3.03	M10x1
B.40	2.60	2.80	2.80	3.78	M14x1.5
B.50	2.83	2.87	3.35	4.37	M14x1.5
B.60	3.35	3.19	4.72	7.56	M20x1.5
B.70	3.74	3.74	3.82	7.60	M20x1.5
B.80	4.65	4.65	4.33	9.65	M20x1.5
B.90	5.47	5.47	4.88	11.89	M24x1.5
M = Plug according to DIN 908					
Dimensions in inch					

Position of the drain plugs for BG, BK, BS and BF gear ranges and pre-stages.



6

BG-series helical-geared motors - Selection

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Selection helical-geared motors 89

Energy Efficient Geared Motors

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6

Sizes

Bauer BG-series helical-gear motors are available in 13 standard sizes with torques from 20 Nm to 18,500 Nm. Higher torques are available on request. The geared unit is accommodated in a sturdy cast housing.

Bauer service factors (f_B) for helical-gear motors

Of the numerous factors influencing the total loading of a geared unit, the most important include:

Mean torque (rated torque)

- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)

These factors can be represented in a simplified and practical manner by the tables and explanations below aim to provide an objective description of the **shock classification**, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_x/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information (available on request).

Continuous operation without switching frequency $Z \leq 1/h$

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d	>4 h	>8 h	>16 h
		≤ 8 h	≤ 16 h	≤ 24 h
I		0.8	1.0	1.2
II		1.05	1.25	1.45
III		1.45	1.55	1.7

Switching duty

Factor f_2 for shock classification and switching frequency

Switching frequency in single-shift operation $t_d \leq 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	0.95	1.1	1.15
II	1.2	1.35	1.4
III	1.55	1.6	1.6

Switching frequency in multiple-shift operation $t_d > 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1.3	1.45	1.5
II	1.5	1.6	1.65
III	1.75	1.8	1.8

Bauer service factor

Bauer service factor $f_B = f_1$ or $f_B = f_2$

For example: Shock classification II for $Z = 100$ switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.5$

BG-series helical-geared motors

Description of helical-geared units

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Explanation of shock classification

Shock classification I:

Uniform without shock loads. All the following requirements must be satisfied:

- $FI \leq 1.3$
- $M_x/M_N \leq 1.0$
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, $\varphi N \geq 5^\circ$)

Shock classification II:

Moderate shock loads. At least one of the following conditions applies:

- $1.3 < FI \leq 4$
- $1 < M_x/M_N \leq 1.6$
- Shock-neutral power transmission components (e.g. gear wheels, zero-play rigid coupling or resilient coupling with $\varphi N < 5^\circ$)

Shock classification III:

Heavy shock loads. At least one of the following conditions applies:

- $FI > 4$
- $1.6 < M_x/M_N \leq 2.0$
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

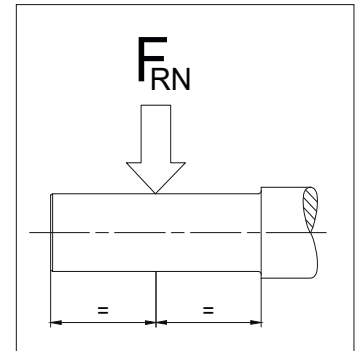
Key to abbreviations

Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia $FI = (J_{ext} + J_{rot})/J_{rot}$
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm^2)
J_{rot}	Mass moment of inertia of the motor rotor (kgm^2)
M_x	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
φ_N	Torsional offset of the resilient coupling under rated torque

Selection tables, helical-geared motors

Key to abbreviations

P	Rated output Power
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer service factor
F_{RN}	Maximum permissible radial force with a standard solid shaft (Code -.1 and -.7)
F_{RV}	Maximum permissible radial force with reinforced bearings in each case with standard solid shaft (Code -.1 and -.7)

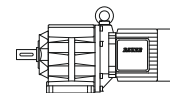


Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear (see chapter 10 "dimensional drawings, helical-geared motors"). The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

Motor power overload protection

Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., slip clutch, slip hub, shear pin or an alternative).

0.075 HP (0.055 kW)



P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.075 HP (0.055 kW)	650	5.0	7	0.8	BG04-../D04LA4	2.51	76	340	-	-	10	4.4
0.075 HP (0.055 kW)	445	4.2	10	1.18	BG04-../D04LA4	3.65	88	390	-	-	10	4.4
0.075 HP (0.055 kW)	370	5.0	12	1.41	BG04-../D04LA4	4.39	85	380	-	-	10	4.4
0.075 HP (0.055 kW)	305	5.2	15	1.72	BG04-../D04LA4	5.36	85	380	-	-	10	4.4
0.075 HP (0.055 kW)	265	5.6	18	1.98	BG04-../D04LA4	6.18	93	415	-	-	10	4.4
0.075 HP (0.055 kW)	245	4.8	19	2.1	BG04-../D04LA4	6.67	92	410	-	-	10	4.4
0.075 HP (0.055 kW)	240	5.1	19	2.15	BG04-../D04LA4	6.80	94	420	-	-	10	4.4
0.075 HP (0.055 kW)	189	4.0	24	2.75	BG04-../D04LA4	8.58	92	410	-	-	10	4.4
0.075 HP (0.055 kW)	180	4.1	26	2.9	BG04-../D04LA4	9.00	106	470	-	-	10	4.4
0.075 HP (0.055 kW)	164	4.1	28	3.2	BG04-../D04LA4	9.90	108	480	-	-	10	4.4
0.075 HP (0.055 kW)	150	4.0	31	3.5	BG04-../D04LA4	10.82	108	480	-	-	10	4.4
0.075 HP (0.055 kW)	137	3.9	34	3.8	BG04-../D04LA4	11.90	110	490	-	-	10	4.4
0.075 HP (0.055 kW)	130	3.8	35	4.0	BG04-../D04LA4	12.55	110	490	-	-	10	4.4
0.075 HP (0.055 kW)	123	3.8	38	4.25	BG04-../D04LA4	13.20	112	500	-	-	10	4.4
0.075 HP (0.055 kW)	112	3.7	41	4.65	BG04-../D04LA4	14.52	115	510	-	-	10	4.4
0.075 HP (0.055 kW)	99	3.4	47	5.3	BG04-../D04LA4	16.44	119	530	-	-	10	4.4
0.075 HP (0.055 kW)	90	3.1	51	5.8	BG04-../D04LA4	18.08	121	540	-	-	10	4.4
0.075 HP (0.055 kW)	77	2.8	60	6.8	BG04-../D04LA4	21.12	126	560	-	-	10	4.4
0.075 HP (0.055 kW)	70	2.7	66	7.5	BG04-../D04LA4	23.23	135	600	-	-	10	4.4
0.075 HP (0.055 kW)	67	2.6	69	7.8	BG04-../D04LA4	24.45	137	610	-	-	10	4.4
0.075 HP (0.055 kW)	61	2.3	76	8.6	BG04-../D04LA4	26.89	146	650	-	-	10	4.4
0.075 HP (0.055 kW)	54	3.1	86	9.7	BG04-../D04LA4	30.35	171	760	-	-	11	5.1
0.075 HP (0.055 kW)	53	2.0	88	9.9	BG04-../D04LA4	30.91	155	690	-	-	10	4.4
0.075 HP (0.055 kW)	48	1.85	96	10.9	BG04-../D04LA4	34.00	162	720	-	-	10	4.4
0.075 HP (0.055 kW)	46.5	2.7	99	11.2	BG05-../D04LA4	35.00	182	810	-	-	11	5.1
0.075 HP (0.055 kW)	46	1.75	101	11.4	BG04-../D04LA4	35.35	164	730	-	-	10	4.4
0.075 HP (0.055 kW)	42.5	2.4	109	12.3	BG05-../D04LA4	38.18	191	850	-	-	11	5.1
0.075 HP (0.055 kW)	42	1.6	111	12.5	BG04-../D04LA4	38.89	169	750	-	-	10	4.4
0.075 HP (0.055 kW)	41	2.3	113	12.8	BG05-../D04LA4	39.94	193	860	-	-	11	5.1
0.075 HP (0.055 kW)	38.5	1.45	120	13.6	BG04-../D04LA4	42.24	169	750	-	-	10	4.4
0.075 HP (0.055 kW)	37.5	2.1	124	14	BG05-../D04LA4	43.57	202	900	-	-	11	5.1
0.075 HP (0.055 kW)	35.5	3.1	130	14.7	BG06-../D04LA4	46.19	200	890	-	-	13	6.1
0.075 HP (0.055 kW)	34.5	1.3	135	15.2	BG04-../D04LA4	47.52	169	750	-	-	10	4.4
0.075 HP (0.055 kW)	34.5	1.95	135	15.2	BG05-../D04LA4	47.00	209	930	-	-	11	5.1
0.075 HP (0.055 kW)	32.5	2.8	142	16.1	BG06-../D04LA4	50.38	211	940	-	-	13	6.1
0.075 HP (0.055 kW)	32	1.85	145	16.4	BG05-../D04LA4	51.27	218	970	-	-	11	5.1
0.075 HP (0.055 kW)	31	1.2	150	16.9	BG04-../D04LA4	52.28	169	750	-	-	10	4.4
0.075 HP (0.055 kW)	31	2.7	150	16.9	BG06-../D04LA4	52.56	214	950	-	-	13	6.1
0.075 HP (0.055 kW)	30.5	1.75	152	17.2	BG05-../D04LA4	53.44	220	980	-	-	11	5.1
0.075 HP (0.055 kW)	29.5	1.1	158	17.8	BG04-../D04LA4	54.97	169	750	-	-	10	4.4
0.075 HP (0.055 kW)	28.5	2.4	163	18.4	BG06-../D04LA4	57.34	225	1000	-	-	13	6.1
0.075 HP (0.055 kW)	28	1.6	166	18.7	BG05-../D04LA4	58.30	225	1000	-	-	11	5.1
0.075 HP (0.055 kW)	27	1.05	172	19.4	BG04-../D04LA4	60.47	169	750	-	-	10	4.4
0.075 HP (0.055 kW)	26.5	2.3	175	19.8	BG06-../D04LA4	61.22	229	1020	-	-	13	6.1
0.075 HP (0.055 kW)	24.5	2.1	186	21	BG06-../D04LA4	66.79	241	1070	-	-	13	6.1
0.075 HP (0.055 kW)	21.5	1.8	195	22	BG06G04-../D04LA4	75.99	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	20	1.85	208	23.5	BG06G04-../D04LA4	82.89	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	17.5	1.65	239	27	BG06G04-../D04LA4	93.00	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	16	1.5	266	30	BG06G04-../D04LA4	101.5	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	13.5	1.3	310	35	BG06G04-../D04LA4	122.0	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	13.5	3.1	341	38.5	BG10Z-../D04LA4	121.7	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	12.5	2.9	372	42	BG10Z-../D04LA4	131.8	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	11.5	2.6	403	45.5	BG10Z-../D04LA4	146.0	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	11	1.05	376	42.5	BG06G04-../D04LA4	149.0	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	9.8	2.3	469	53	BG10Z-../D04LA4	166.0	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	8.9	2.0	522	59	BG10Z-../D04LA4	184.0	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	8.8	0.83	478	54	BG06G04-../D04LA4	185.4	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	8.4	1.95	549	62	BG10Z-../D04LA4	194.6	450	2000	629	2800	24	11

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.075 HP (0.055 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.075 HP (0.055 kW)	8.2	3.1	566	64	BG20Z-../D04LA4	199.9	1124	5000	-	-	29	13
0.075 HP (0.055 kW)	7.6	1.75	611	69	BG10Z-../D04LA4	215.7	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	7.3	2.8	628	71	BG20Z-../D04LA4	222.1	1124	5000	-	-	29	13
0.075 HP (0.055 kW)	6.8	1.55	682	77	BG10Z-../D04LA4	240.4	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	6.5	1.0	398*	45*	BG06G04-../D04LA4	250.2	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	5.9	1.0	398*	45*	BG06G04-../D04LA4	275.2	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	5.9	1.35	788	89	BG10Z-../D04LA4	276.0	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	5.5	3.3	584	66	BG20G06-../D04LA4	297.9	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	5.3	1.2	876	99	BG10Z-../D04LA4	305.8	450	2000	629	2800	24	11
0.075 HP (0.055 kW)	4.9	1.0	398*	45*	BG06G04-../D04LA4	330.8	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	4.9	1.75	664	75	BG10G06-../D04LA4	332.0	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	4.7	2.7	735	83	BG20G06-../D04LA4	352.1	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	4.5	1.0	398*	45*	BG06G04-../D04LA4	367.0	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	4.3	1.45	805	91	BG10G06-../D04LA4	379.6	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	4.2	2.4	823	93	BG20G06-../D04LA4	391.1	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	3.8	1.25	912	103	BG10G06-../D04LA4	435.9	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	3.6	1.0	398*	45*	BG06G04-../D04LA4	457.0	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	3.6	2.0	982	111	BG20G06-../D04LA4	460.0	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	3.5	2.8	1018	115	BG30G06-../D04LA4	472.8	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	3.3	1.0	398*	45*	BG06G04-../D04LA4	502.6	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	3.2	1.05	1115	126	BG10G06-../D04LA4	512.6	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	3.0	1.6	1221	138	BG20G06-../D04LA4	550.6	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	2.9	2.3	1266	143	BG30G06-../D04LA4	565.8	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	2.8	1.0	398*	45*	BG06G04-../D04LA4	587.1	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	2.7	0.85	1354	153	BG10G06-../D04LA4	613.6	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	2.6	1.0	398*	45*	BG06G04-../D04LA4	645.8	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	2.5	1.3	1496	169	BG20G06-../D04LA4	671.9	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	2.4	1.85	1567	177	BG30G06-../D04LA4	690.6	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	2.2	1.0	398*	45*	BG06G04-../D04LA4	747.5	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	2.2	1.0	1151*	130*	BG10G06-../D04LA4	748.9	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	2.2	1.65	1726	195	BG30G06-../D04LA4	760.7	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	2.1	1.05	1814	205	BG20G06-../D04LA4	807.1	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	2.0	1.5	1903	215	BG30G06-../D04LA4	829.5	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	1.9	1.0	398*	45*	BG06G04-../D04LA4	859.3	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	1.9	1.0	1151*	130*	BG10G06-../D04LA4	899.5	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	1.8	1.0	398*	45*	BG06G04-../D04LA4	945.2	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	1.7	0.85	2301	260	BG20G06-../D04LA4	969.9	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	1.7	1.25	2301	260	BG30G06-../D04LA4	996.8	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	1.5	1.0	398*	45*	BG06G04-../D04LA4	1081	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	1.5	1.0	1151*	130*	BG10G06-../D04LA4	1081	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	1.5	1.0	1947*	220*	BG20G06-../D04LA4	1142	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	1.5	1.1	2655	300	BG30G06-../D04LA4	1088	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	1.4	1.0	398*	45*	BG06G04-../D04LA4	1174	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	1.3	1.0	398*	45*	BG06G04-../D04LA4	1321	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	1.3	1.0	1151*	130*	BG10G06-../D04LA4	1272	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	1.3	0.93	3098	350	BG30G06-../D04LA4	1280	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	1.2	1.0	1947*	220*	BG20G06-../D04LA4	1366	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	1.2	0.86	3363	380	BG30G06-../D04LA4	1404	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	1.1	1.0	398*	45*	BG06G04-../D04LA4	1528	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	1.1	1.0	1151*	130*	BG10G06-../D04LA4	1523	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	1.0	1.0	398*	45*	BG06G04-../D04LA4	1681	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	1.0	1.0	1947*	220*	BG20G06-../D04LA4	1672	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.95	1.0	2876*	325*	BG30G06-../D04LA4	1718	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.9	1.0	1151*	130*	BG10G06-../D04LA4	1863	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	0.9	1.0	1947*	220*	BG20G06-../D04LA4	1824	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.9	1.0	2876*	325*	BG30G06-../D04LA4	1875	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.85	1.0	398*	45*	BG06G04-../D04LA4	1948	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	0.8	1.0	398*	45*	BG06G04-../D04LA4	2126	241	1070	-	-	19	8.4

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.075 HP (0.055 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.075 HP (0.055 kW)	0.8	1.0	1947*	220*	BG20G06-../D04LA4	2114	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.75	1.0	2876*	325*	BG30G06-../D04LA4	2173	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.7	1.0	398*	45*	BG06G04-../D04LA4	2435	241	1070	-	-	19	8.4
0.075 HP (0.055 kW)	0.7	1.0	1151*	130*	BG10G06-../D04LA4	2356	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	0.7	1.0	1947*	220*	BG20G06-../D04LA4	2422	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.65	1.0	1151*	130*	BG10G06-../D04LA4	2699	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	0.65	1.0	1947*	220*	BG20G06-../D04LA4	2642	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.6	1.0	1151*	130*	BG10G06-../D04LA4	2944	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	0.6	1.0	2876*	325*	BG30G06-../D04LA4	2715	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.55	1.0	1947*	220*	BG20G06-../D04LA4	3031	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.55	1.0	2876*	325*	BG30G06-../D04LA4	3115	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.5	1.0	1947*	220*	BG20G06-../D04LA4	3306	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.48	1.0	1151*	130*	BG10G06-../D04LA4	3378	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	0.48	1.0	2876*	325*	BG30G06-../D04LA4	3398	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.44	1.0	1151*	130*	BG10G06-../D04LA4	3684	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	0.42	1.0	2876*	325*	BG30G06-../D04LA4	3867	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.41	1.0	1947*	220*	BG20G06-../D04LA4	4017	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.37	1.0	1151*	130*	BG10G06-../D04LA4	4477	450	2000	629	2800	31	14
0.075 HP (0.055 kW)	0.37	1.0	1947*	220*	BG20G06-../D04LA4	4383	1124	5000	472	2100	37	17
0.075 HP (0.055 kW)	0.36	1.0	2876*	325*	BG30G06-../D04LA4	4504	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	0.34	1.0	1151*	130*	BG10G06-../D04LA4	4884	450	2000	629	2800	31	14

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0.1 HP (0.075 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.1 HP (0.075 kW)	650	3.6	10	1.1	BG04-../D04LA4	2.51	76	340	-	-	10	4.4
0.1 HP (0.075 kW)	445	3.1	14	1.6	BG04-../D04LA4	3.65	88	390	-	-	10	4.4
0.1 HP (0.075 kW)	370	3.6	17	1.93	BG04-../D04LA4	4.39	85	380	-	-	10	4.4
0.1 HP (0.075 kW)	305	3.9	20	2.3	BG04-../D04LA4	5.36	85	380	-	-	10	4.4
0.1 HP (0.075 kW)	265	4.1	24	2.7	BG04-../D04LA4	6.18	93	415	-	-	10	4.4
0.1 HP (0.075 kW)	245	3.4	26	2.9	BG04-../D04LA4	6.67	92	410	-	-	10	4.4
0.1 HP (0.075 kW)	240	3.7	26	2.95	BG04-../D04LA4	6.80	94	420	-	-	10	4.4
0.1 HP (0.075 kW)	189	2.9	33	3.75	BG04-../D04LA4	8.58	92	410	-	-	10	4.4
0.1 HP (0.075 kW)	180	3.0	35	3.95	BG04-../D04LA4	9.00	106	470	-	-	10	4.4
0.1 HP (0.075 kW)	164	3.0	39	4.35	BG04-../D04LA4	9.90	108	480	-	-	10	4.4
0.1 HP (0.075 kW)	150	2.9	42	4.75	BG04-../D04LA4	10.82	108	480	-	-	10	4.4
0.1 HP (0.075 kW)	137	2.9	46	5.2	BG04-../D04LA4	11.90	110	490	-	-	10	4.4
0.1 HP (0.075 kW)	130	2.7	49	5.5	BG04-../D04LA4	12.55	110	490	-	-	10	4.4
0.1 HP (0.075 kW)	123	2.8	51	5.8	BG04-../D04LA4	13.20	112	500	-	-	10	4.4
0.1 HP (0.075 kW)	112	2.7	56	6.3	BG04-../D04LA4	14.52	115	510	-	-	10	4.4
0.1 HP (0.075 kW)	99	2.5	64	7.2	BG04-../D04LA4	16.44	119	530	-	-	10	4.4
0.1 HP (0.075 kW)	90	2.3	70	7.9	BG04-../D04LA4	18.08	121	540	-	-	10	4.4
0.1 HP (0.075 kW)	87	3.2	73	8.2	BG05-../D04LA4	18.82	153	680	-	-	11	5.1
0.1 HP (0.075 kW)	79	3.0	80	9.0	BG05-../D04LA4	20.53	157	700	-	-	11	5.1
0.1 HP (0.075 kW)	77	2.0	82	9.3	BG04-../D04LA4	21.12	126	560	-	-	10	4.4
0.1 HP (0.075 kW)	70	1.95	90	10.2	BG04-../D04LA4	23.23	135	600	-	-	10	4.4
0.1 HP (0.075 kW)	68	2.7	93	10.5	BG05-../D04LA4	24.00	166	740	-	-	11	5.1
0.1 HP (0.075 kW)	67	1.9	94	10.6	BG04-../D04LA4	24.45	137	610	-	-	10	4.4
0.1 HP (0.075 kW)	62	2.5	102	11.5	BG05-../D04LA4	26.18	171	760	-	-	11	5.1
0.1 HP (0.075 kW)	61	1.7	104	11.7	BG04-../D04LA4	26.89	146	650	-	-	10	4.4
0.1 HP (0.075 kW)	59	2.5	107	12.1	BG05-../D04LA4	27.82	173	770	-	-	11	5.1

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.1 HP (0.075 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
0.1 HP (0.075 kW)	54	2.3	117	13.2	BG05-../D04LA4	30.35	171	760	-	-	11	5.1		
0.1 HP (0.075 kW)	53	1.5	119	13.5	BG04-../D04LA4	30.91	155	690	-	-	10	4.4		
0.1 HP (0.075 kW)	51	3.2	124	14	BG06-../D04LA4	32.22	200	890	-	-	13	6.1		
0.1 HP (0.075 kW)	48	1.35	132	14.9	BG04-../D04LA4	34.00	162	720	-	-	10	4.4		
0.1 HP (0.075 kW)	46.5	1.95	136	15.4	BG05-../D04LA4	35.00	182	810	-	-	11	5.1		
0.1 HP (0.075 kW)	46.5	2.9	136	15.4	BG06-../D04LA4	35.15	198	880	-	-	13	6.1		
0.1 HP (0.075 kW)	46	1.3	137	15.5	BG04-../D04LA4	35.35	164	730	-	-	10	4.4		
0.1 HP (0.075 kW)	44	2.8	143	16.2	BG06-../D04LA4	36.91	200	890	-	-	13	6.1		
0.1 HP (0.075 kW)	42.5	1.8	149	16.8	BG05-../D04LA4	38.18	191	850	-	-	11	5.1		
0.1 HP (0.075 kW)	42	1.2	150	17	BG04-../D04LA4	38.89	169	750	-	-	10	4.4		
0.1 HP (0.075 kW)	41	1.7	154	17.4	BG05-../D04LA4	39.94	193	860	-	-	11	5.1		
0.1 HP (0.075 kW)	40.5	2.6	156	17.6	BG06-../D04LA4	40.26	200	890	-	-	13	6.1		
0.1 HP (0.075 kW)	38.5	1.1	165	18.6	BG04-../D04LA4	42.24	169	750	-	-	10	4.4		
0.1 HP (0.075 kW)	37.5	1.55	169	19.1	BG05-../D04LA4	43.57	202	900	-	-	11	5.1		
0.1 HP (0.075 kW)	35.5	2.3	177	20	BG06-../D04LA4	46.19	200	890	-	-	13	6.1		
0.1 HP (0.075 kW)	34.5	0.98	181	20.5	BG04-../D04LA4	47.52	169	750	-	-	10	4.4		
0.1 HP (0.075 kW)	34.5	1.45	181	20.5	BG05-../D04LA4	47.00	209	930	-	-	11	5.1		
0.1 HP (0.075 kW)	32.5	2.0	195	22	BG06-../D04LA4	50.38	211	940	-	-	13	6.1		
0.1 HP (0.075 kW)	32	1.35	195	22	BG05-../D04LA4	51.27	218	970	-	-	11	5.1		
0.1 HP (0.075 kW)	31	0.87	204	23	BG04-../D04LA4	52.28	169	750	-	-	10	4.4		
0.1 HP (0.075 kW)	31	1.95	204	23	BG06-../D04LA4	52.56	214	950	-	-	13	6.1		
0.1 HP (0.075 kW)	30.5	1.3	204	23	BG05-../D04LA4	53.44	220	980	-	-	11	5.1		
0.1 HP (0.075 kW)	29.5	0.83	212	24	BG04-../D04LA4	54.97	169	750	-	-	10	4.4		
0.1 HP (0.075 kW)	28.5	1.8	221	25	BG06-../D04LA4	57.34	225	1000	-	-	13	6.1		
0.1 HP (0.075 kW)	28	1.2	226	25.5	BG05-../D04LA4	58.30	225	1000	-	-	11	5.1		
0.1 HP (0.075 kW)	26.5	1.65	239	27	BG06-../D04LA4	61.22	229	1020	-	-	13	6.1		
0.1 HP (0.075 kW)	24.5	1.55	257	29	BG06-../D04LA4	66.79	241	1070	-	-	13	6.1		
0.1 HP (0.075 kW)	21.5	1.3	274	31	BG06G04-../D04LA4	75.99	241	1070	-	-	19	8.4		
0.1 HP (0.075 kW)	20	1.3	296	33.5	BG06G04-../D04LA4	82.89	241	1070	-	-	19	8.4		
0.1 HP (0.075 kW)	19	3.2	332	37.5	BG10Z-../D06LA4	85.76	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	18	3.0	350	39.5	BG10Z-../D06LA4	92.19	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	17.5	1.2	336	38	BG06G04-../D04LA4	93.00	241	1070	-	-	19	8.4		
0.1 HP (0.075 kW)	16	1.1	367	41.5	BG06G04-../D04LA4	101.5	241	1070	-	-	19	8.4		
0.1 HP (0.075 kW)	16	2.7	394	44.5	BG10Z-../D06LA4	102.1	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	15	2.5	420	47.5	BG10Z-../D06LA4	109.8	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	13.5	0.92	434	49	BG06G04-../D04LA4	122.0	241	1070	-	-	19	8.4		
0.1 HP (0.075 kW)	13.5	2.3	469	53	BG10Z-../D06LA4	121.7	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	12.5	2.1	504	57	BG10Z-../D06LA4	131.8	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	11.5	1.95	549	62	BG10Z-../D06LA4	146.0	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	11.5	3.2	549	62	BG20Z-../D06LA4	141.3	1124	5000	-	-	35	16		
0.1 HP (0.075 kW)	10.5	2.9	602	68	BG20Z-../D06LA4	157.0	1124	5000	-	-	35	16		
0.1 HP (0.075 kW)	10	2.8	628	71	BG20Z-../D06LA4	162.2	1124	5000	-	-	35	16		
0.1 HP (0.075 kW)	9.8	1.65	646	73	BG10Z-../D06LA4	166.0	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	9.0	2.5	699	79	BG20Z-../D06LA4	180.1	1124	5000	-	-	35	16		
0.1 HP (0.075 kW)	8.9	1.5	708	80	BG10Z-../D06LA4	184.0	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	8.4	1.4	752	85	BG10Z-../D06LA4	194.6	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	8.2	2.3	770	87	BG20Z-../D06LA4	199.9	1124	5000	-	-	35	16		
0.1 HP (0.075 kW)	7.6	1.3	832	94	BG10Z-../D06LA4	215.7	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	7.3	2.0	867	98	BG20Z-../D06LA4	222.1	1124	5000	-	-	35	16		
0.1 HP (0.075 kW)	7.2	3.0	876	99	BG30Z-../D06LA4	225.9	1349	6000	-	-	49	22		
0.1 HP (0.075 kW)	6.8	1.15	929	105	BG10Z-../D06LA4	240.4	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	6.6	2.7	726	82	BG20G06-../D06LA4	248.0	1124	5000	472	2100	44	20		
0.1 HP (0.075 kW)	6.5	2.7	974	110	BG30Z-../D06LA4	250.6	1349	6000	-	-	49	22		
0.1 HP (0.075 kW)	6.2	2.6	1018	115	BG30Z-../D06LA4	261.9	1349	6000	-	-	49	22		
0.1 HP (0.075 kW)	5.9	0.99	1071	121	BG10Z-../D06LA4	276.0	450	2000	629	2800	31	14		
0.1 HP (0.075 kW)	5.6	2.4	1124	127	BG30Z-../D06LA4	290.5	1349	6000	-	-	49	22		
0.1 HP (0.075 kW)	5.5	2.2	894	101	BG20G06-../D06LA4	297.9	1124	5000	472	2100	44	20		
0.1 HP (0.075 kW)	5.3	0.89	1195	135	BG10Z-../D06LA4	305.8	450	2000	629	2800	31	14		

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.1 HP (0.075 kW)

P _N							Permissible Overhung Load					
			Output Torque				Standard Bearings		Reinforced Bearings		Weight	
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.1 HP (0.075 kW)	5.3	3.1	929	105	BG30G06-../D06LA4	306.2	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	4.9	1.15	1000	113	BG10G06-../D06LA4	332.0	450	2000	629	2800	40	18
0.1 HP (0.075 kW)	4.7	1.75	1097	124	BG20G06-../D06LA4	352.1	1124	5000	472	2100	44	20
0.1 HP (0.075 kW)	4.7	2.6	1097	124	BG30G06-../D06LA4	346.8	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	4.3	0.96	1195	135	BG10G06-../D06LA4	379.6	450	2000	629	2800	40	18
0.1 HP (0.075 kW)	4.2	1.6	1230	139	BG20G06-../D06LA4	391.1	1124	5000	472	2100	44	20
0.1 HP (0.075 kW)	4.1	2.3	1257	142	BG30G06-../D06LA4	401.9	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	3.8	0.85	1354	153	BG10G06-../D06LA4	435.9	450	2000	629	2800	40	18
0.1 HP (0.075 kW)	3.6	1.35	1452	164	BG20G06-../D06LA4	460.0	1124	5000	472	2100	44	20
0.1 HP (0.075 kW)	3.5	1.9	1496	169	BG30G06-../D06LA4	472.8	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	3.0	1.1	1770	200	BG20G06-../D06LA4	550.6	1124	5000	472	2100	44	20
0.1 HP (0.075 kW)	2.9	1.6	1814	205	BG30G06-../D06LA4	565.8	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	2.6	2.9	1434	162	BG40G10-../D06LA4	640.0	1574	7000	-	-	95	43
0.1 HP (0.075 kW)	2.5	0.9	2168	245	BG20G06-../D06LA4	671.9	1124	5000	472	2100	44	20
0.1 HP (0.075 kW)	2.4	1.25	2257	255	BG30G06-../D06LA4	690.6	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	2.3	2.5	1646	186	BG40G10-../D06LA4	710.9	1574	7000	-	-	95	43
0.1 HP (0.075 kW)	2.2	1.15	2478	280	BG30G06-../D06LA4	760.7	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	2.1	2.3	1770	200	BG40G10-../D06LA4	789.1	1574	7000	-	-	95	43
0.1 HP (0.075 kW)	2.0	1.05	2744	310	BG30G06-../D06LA4	829.5	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	1.7	0.87	3319	375	BG30G06-../D06LA4	996.8	1349	6000	-	-	55	25
0.1 HP (0.075 kW)	1.7	1.7	2390	270	BG40G10-../D06LA4	965.2	1574	7000	-	-	95	43
0.1 HP (0.075 kW)	1.7	2.6	2390	270	BG50G10-../D06LA4	960.2	2248	10000	-	-	112	51
0.1 HP (0.075 kW)	1.4	1.35	3098	350	BG40G10-../D06LA4	1225	1574	7000	-	-	95	43
0.1 HP (0.075 kW)	1.4	1.95	3098	350	BG50G10-../D06LA4	1219	2248	10000	-	-	112	51
0.1 HP (0.075 kW)	1.2	1.05	3850	435	BG40G10-../D06LA4	1459	1574	7000	-	-	95	43
0.1 HP (0.075 kW)	1.2	1.6	3850	435	BG50G10-../D06LA4	1452	2248	10000	-	-	112	51
0.1 HP (0.075 kW)	0.95	1.15	5222	590	BG50G10-../D06LA4	1729	2248	10000	-	-	112	51
0.1 HP (0.075 kW)	0.95	2.7	4248	480	BG60G20-../D06LA4	1741	3597	16000	-	-	220	100
0.1 HP (0.075 kW)	0.9	2.5	4602	520	BG60G20-../D06LA4	1880	3597	16000	-	-	220	100
0.1 HP (0.075 kW)	0.75	1.9	6019	680	BG60G20-../D06LA4	2249	3597	16000	-	-	220	100
0.1 HP (0.075 kW)	0.6	1.4	8143	920	BG60G20-../D06LA4	2818	3597	16000	-	-	220	100
0.1 HP (0.075 kW)	0.6	2.6	8408	950	BG70G20-../D06LA4	2774	4496	20000	-	-	287	130
0.1 HP (0.075 kW)	0.55	1.25	9116	1030	BG60G20-../D06LA4	3234	3597	16000	-	-	220	100
0.1 HP (0.075 kW)	0.55	2.4	9382	1060	BG70G20-../D06LA4	3184	4496	20000	-	-	287	130
0.1 HP (0.075 kW)	0.46	1.0	11329	1280	BG60G20-../D06LA4	3592	3597	16000	-	-	220	100
0.1 HP (0.075 kW)	0.42	1.7	12922	1460	BG70G20-../D06LA4	3925	4496	20000	-	-	287	130

0.12 HP (0.09 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.12 HP (0.09 kW)	650	3.0	12	1.32	BG04-../D04LA4	2.51	76	340	-	-	10	4.4
0.12 HP (0.09 kW)	445	2.6	17	1.93	BG04-../D04LA4	3.65	88	390	-	-	10	4.4
0.12 HP (0.09 kW)	370	3.0	20	2.3	BG04-../D04LA4	4.39	85	380	-	-	10	4.4
0.12 HP (0.09 kW)	305	3.2	25	2.8	BG04-../D04LA4	5.36	85	380	-	-	10	4.4
0.12 HP (0.09 kW)	265	3.4	28	3.2	BG04-../D04LA4	6.18	93	415	-	-	10	4.4
0.12 HP (0.09 kW)	245	2.9	31	3.5	BG04-../D04LA4	6.67	92	410	-	-	10	4.4
0.12 HP (0.09 kW)	240	3.1	31	3.55	BG04-../D04LA4	6.80	94	420	-	-	10	4.4
0.12 HP (0.09 kW)	189	2.4	40	4.5	BG04-../D04LA4	8.58	92	410	-	-	10	4.4
0.12 HP (0.09 kW)	180	2.5	42	4.75	BG04-../D04LA4	9.00	106	470	-	-	10	4.4

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.12 HP (0.09 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.12 HP (0.09 kW)	164	2.5	46	5.2	BG04-../D04LA4	9.90	108	480	-	-	10	4.4
0.12 HP (0.09 kW)	150	2.5	50	5.7	BG04-../D04LA4	10.82	108	480	-	-	10	4.4
0.12 HP (0.09 kW)	137	2.4	55	6.2	BG04-../D04LA4	11.90	110	490	-	-	10	4.4
0.12 HP (0.09 kW)	135	3.3	56	6.3	BG05-../D04LA4	12.05	115	510	-	-	11	5.1
0.12 HP (0.09 kW)	130	2.3	58	6.6	BG04-../D04LA4	12.55	110	490	-	-	10	4.4
0.12 HP (0.09 kW)	129	3.3	58	6.6	BG05-../D04LA4	12.60	137	610	-	-	11	5.1
0.12 HP (0.09 kW)	123	2.3	61	6.9	BG04-../D04LA4	13.20	112	500	-	-	10	4.4
0.12 HP (0.09 kW)	118	3.2	64	7.2	BG05-../D04LA4	13.75	142	630	-	-	11	5.1
0.12 HP (0.09 kW)	112	2.2	67	7.6	BG04-../D04LA4	14.52	115	510	-	-	10	4.4
0.12 HP (0.09 kW)	107	3.0	71	8.0	BG05-../D04LA4	15.23	144	640	-	-	11	5.1
0.12 HP (0.09 kW)	99	2.1	76	8.6	BG04-../D04LA4	16.44	119	530	-	-	10	4.4
0.12 HP (0.09 kW)	98	2.9	77	8.7	BG05-../D04LA4	16.62	148	660	-	-	11	5.1
0.12 HP (0.09 kW)	90	1.9	84	9.5	BG04-../D04LA4	18.08	121	540	-	-	10	4.4
0.12 HP (0.09 kW)	87	2.7	87	9.8	BG05-../D04LA4	18.82	153	680	-	-	11	5.1
0.12 HP (0.09 kW)	79	2.5	96	10.8	BG05-../D04LA4	20.53	157	700	-	-	11	5.1
0.12 HP (0.09 kW)	77	1.7	98	11.1	BG04-../D04LA4	21.12	126	560	-	-	10	4.4
0.12 HP (0.09 kW)	70	1.65	108	12.2	BG04-../D04LA4	23.23	135	600	-	-	10	4.4
0.12 HP (0.09 kW)	68	2.2	112	12.6	BG05-../D04LA4	24.00	166	740	-	-	11	5.1
0.12 HP (0.09 kW)	67	1.55	113	12.8	BG04-../D04LA4	24.45	137	610	-	-	10	4.4
0.12 HP (0.09 kW)	62	2.1	122	13.8	BG05-../D04LA4	26.18	171	760	-	-	11	5.1
0.12 HP (0.09 kW)	61	1.45	124	14	BG04-../D04LA4	26.89	146	650	-	-	10	4.4
0.12 HP (0.09 kW)	59	2.1	128	14.5	BG05-../D04LA4	27.82	173	770	-	-	11	5.1
0.12 HP (0.09 kW)	59	3.1	128	14.5	BG06-../D04LA4	27.80	189	840	-	-	13	6.1
0.12 HP (0.09 kW)	54	1.9	141	15.9	BG05-../D04LA4	30.35	171	760	-	-	11	5.1
0.12 HP (0.09 kW)	53	1.25	143	16.2	BG04-../D04LA4	30.91	155	690	-	-	10	4.4
0.12 HP (0.09 kW)	51	2.7	149	16.8	BG06-../D04LA4	32.22	200	890	-	-	13	6.1
0.12 HP (0.09 kW)	48	1.1	158	17.9	BG04-../D04LA4	34.00	162	720	-	-	10	4.4
0.12 HP (0.09 kW)	46.5	1.65	163	18.4	BG05-../D04LA4	35.00	182	810	-	-	11	5.1
0.12 HP (0.09 kW)	46.5	2.4	163	18.4	BG06-../D04LA4	35.15	198	880	-	-	13	6.1
0.12 HP (0.09 kW)	46	1.1	165	18.6	BG04-../D04LA4	35.35	164	730	-	-	10	4.4
0.12 HP (0.09 kW)	44	2.3	173	19.5	BG06-../D04LA4	36.91	200	890	-	-	13	6.1
0.12 HP (0.09 kW)	42.5	1.5	177	20	BG05-../D04LA4	38.18	191	850	-	-	11	5.1
0.12 HP (0.09 kW)	42	1.0	177	20	BG04-../D04LA4	38.89	169	750	-	-	10	4.4
0.12 HP (0.09 kW)	41	1.45	181	20.5	BG05-../D04LA4	39.94	193	860	-	-	11	5.1
0.12 HP (0.09 kW)	40.5	2.1	186	21	BG06-../D04LA4	40.26	200	890	-	-	13	6.1
0.12 HP (0.09 kW)	38.5	0.91	195	22	BG04-../D04LA4	42.24	169	750	-	-	10	4.4
0.12 HP (0.09 kW)	37.5	1.35	199	22.5	BG05-../D04LA4	43.57	202	900	-	-	11	5.1
0.12 HP (0.09 kW)	35.5	1.9	212	24	BG06-../D04LA4	46.19	200	890	-	-	13	6.1
0.12 HP (0.09 kW)	34.5	0.82	217	24.5	BG04-../D04LA4	47.52	169	750	-	-	10	4.4
0.12 HP (0.09 kW)	34.5	1.2	217	24.5	BG05-../D04LA4	47.00	209	930	-	-	11	5.1
0.12 HP (0.09 kW)	32.5	1.75	230	26	BG06-../D04LA4	50.38	211	940	-	-	13	6.1
0.12 HP (0.09 kW)	32	1.15	235	26.5	BG05-../D04LA4	51.27	218	970	-	-	11	5.1
0.12 HP (0.09 kW)	31	1.65	243	27.5	BG06-../D04LA4	52.56	214	950	-	-	13	6.1
0.12 HP (0.09 kW)	30.5	1.05	248	28	BG05-../D04LA4	53.44	220	980	-	-	11	5.1
0.12 HP (0.09 kW)	28.5	1.5	266	30	BG06-../D04LA4	57.34	225	1000	-	-	13	6.1
0.12 HP (0.09 kW)	28	0.98	270	30.5	BG05-../D04LA4	58.30	225	1000	-	-	11	5.1
0.12 HP (0.09 kW)	26.5	1.4	283	32	BG06-../D04LA4	61.22	229	1020	-	-	13	6.1
0.12 HP (0.09 kW)	24.5	1.3	310	35	BG06-../D04LA4	66.79	241	1070	-	-	13	6.1
0.12 HP (0.09 kW)	22.5	3.2	336	38	BG10-../D06LA4	73.13	450	2000	629	2800	29	13
0.12 HP (0.09 kW)	21.5	1.05	332	37.5	BG06G04-../D04LA4	75.99	241	1070	-	-	19	8.4
0.12 HP (0.09 kW)	21	3.0	358	40.5	BG10Z-../D06LA4	77.40	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	20	1.05	358	40.5	BG06G04-../D04LA4	82.89	241	1070	-	-	19	8.4
0.12 HP (0.09 kW)	19	2.7	398	45	BG10Z-../D06LA4	85.76	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	18	2.5	420	47.5	BG10Z-../D06LA4	92.19	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	17.5	0.97	412	46.5	BG06G04-../D04LA4	93.00	241	1070	-	-	19	8.4
0.12 HP (0.09 kW)	16	0.9	443	50	BG06G04-../D04LA4	101.5	241	1070	-	-	19	8.4
0.12 HP (0.09 kW)	16	2.3	469	53	BG10Z-../D06LA4	102.1	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	15	2.1	504	57	BG10Z-../D06LA4	109.8	450	2000	629	2800	31	14

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.12 HP (0.09 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.12 HP (0.09 kW)	13.5	1.9	558	63	BG10Z-../D06LA4	121.7	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	13	3.0	584	66	BG20Z-../D06LA4	125.3	1124	5000	-	-	35	16
0.12 HP (0.09 kW)	12.5	1.75	602	68	BG10Z-../D06LA4	131.8	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	11.5	1.6	655	74	BG10Z-../D06LA4	146.0	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	11.5	2.7	655	74	BG20Z-../D06LA4	141.3	1124	5000	-	-	35	16
0.12 HP (0.09 kW)	10.5	2.5	717	81	BG20Z-../D06LA4	157.0	1124	5000	-	-	35	16
0.12 HP (0.09 kW)	10	2.4	752	85	BG20Z-../D06LA4	162.2	1124	5000	-	-	35	16
0.12 HP (0.09 kW)	9.8	1.4	770	87	BG10Z-../D06LA4	166.0	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	9.0	2.1	841	95	BG20Z-../D06LA4	180.1	1124	5000	-	-	35	16
0.12 HP (0.09 kW)	8.9	1.25	850	96	BG10Z-../D06LA4	184.0	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	8.9	3.1	850	96	BG30Z-../D06LA4	182.9	1349	6000	-	-	49	22
0.12 HP (0.09 kW)	8.4	1.2	903	102	BG10Z-../D06LA4	194.6	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	8.2	1.9	920	104	BG20Z-../D06LA4	199.9	1124	5000	-	-	35	16
0.12 HP (0.09 kW)	8.0	2.8	947	107	BG30Z-../D06LA4	202.9	1349	6000	-	-	49	22
0.12 HP (0.09 kW)	7.6	1.05	1000	113	BG10Z-../D06LA4	215.7	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	7.3	1.7	1036	117	BG20Z-../D06LA4	222.1	1124	5000	-	-	35	16
0.12 HP (0.09 kW)	7.2	2.5	1053	119	BG30Z-../D06LA4	225.9	1349	6000	-	-	49	22
0.12 HP (0.09 kW)	6.8	0.95	1115	126	BG10Z-../D06LA4	240.4	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	6.6	2.1	912	103	BG20G06-../D06LA4	248.0	1124	5000	472	2100	44	20
0.12 HP (0.09 kW)	6.6	3.3	1151	130	BG40Z-../D06LA4	246.5	1574	7000	-	-	84	38
0.12 HP (0.09 kW)	6.5	2.3	1168	132	BG30Z-../D06LA4	250.6	1349	6000	-	-	49	22
0.12 HP (0.09 kW)	6.2	2.2	1221	138	BG30Z-../D06LA4	261.9	1349	6000	-	-	49	22
0.12 HP (0.09 kW)	6.0	3.0	1266	143	BG40Z-../D06LA4	273.6	1574	7000	-	-	84	38
0.12 HP (0.09 kW)	5.9	0.83	1283	145	BG10Z-../D06LA4	276.0	450	2000	629	2800	31	14
0.12 HP (0.09 kW)	5.6	1.95	1354	153	BG30Z-../D06LA4	290.5	1349	6000	-	-	49	22
0.12 HP (0.09 kW)	5.5	1.75	1124	127	BG20G06-../D06LA4	297.9	1124	5000	472	2100	44	20
0.12 HP (0.09 kW)	5.3	2.5	1168	132	BG30G06-../D06LA4	306.2	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	4.9	0.91	1266	143	BG10G06-../D06LA4	332.0	450	2000	629	2800	40	18
0.12 HP (0.09 kW)	4.7	1.45	1363	154	BG20G06-../D06LA4	352.1	1124	5000	472	2100	44	20
0.12 HP (0.09 kW)	4.7	2.1	1363	154	BG30G06-../D06LA4	346.8	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	4.2	1.25	1531	173	BG20G06-../D06LA4	391.1	1124	5000	472	2100	44	20
0.12 HP (0.09 kW)	4.1	1.85	1567	177	BG30G06-../D06LA4	401.9	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	3.6	1.1	1770	200	BG20G06-../D06LA4	460.0	1124	5000	472	2100	44	20
0.12 HP (0.09 kW)	3.5	1.55	1859	210	BG30G06-../D06LA4	472.8	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	3.1	2.9	1416	160	BG40G10-../D06LA4	534.2	1574	7000	-	-	95	43
0.12 HP (0.09 kW)	3.0	0.9	2168	245	BG20G06-../D06LA4	550.6	1124	5000	472	2100	44	20
0.12 HP (0.09 kW)	2.9	1.25	2257	255	BG30G06-../D06LA4	565.8	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	2.6	2.2	1903	215	BG40G10-../D06LA4	640.0	1574	7000	-	-	95	43
0.12 HP (0.09 kW)	2.4	1.05	2788	315	BG30G06-../D06LA4	690.6	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	2.3	1.9	2168	245	BG40G10-../D06LA4	710.9	1574	7000	-	-	95	43
0.12 HP (0.09 kW)	2.3	2.8	2168	245	BG50G10-../D06LA4	708.3	2248	10000	-	-	112	51
0.12 HP (0.09 kW)	2.2	0.94	3054	345	BG30G06-../D06LA4	760.7	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	2.1	1.7	2390	270	BG40G10-../D06LA4	789.1	1574	7000	-	-	95	43
0.12 HP (0.09 kW)	2.1	2.6	2390	270	BG50G10-../D06LA4	785.1	2248	10000	-	-	112	51
0.12 HP (0.09 kW)	2.0	0.84	3408	385	BG30G06-../D06LA4	829.5	1349	6000	-	-	55	25
0.12 HP (0.09 kW)	1.7	1.35	3098	350	BG40G10-../D06LA4	965.2	1574	7000	-	-	95	43
0.12 HP (0.09 kW)	1.7	1.95	3142	355	BG50G10-../D06LA4	960.2	2248	10000	-	-	112	51
0.12 HP (0.09 kW)	1.4	1.0	4027	455	BG40G10-../D06LA4	1225	1574	7000	-	-	95	43
0.12 HP (0.09 kW)	1.4	1.5	4027	455	BG50G10-../D06LA4	1219	2248	10000	-	-	112	51
0.12 HP (0.09 kW)	1.3	3.3	3496	395	BG60G20-../D06LA4	1346	3597	16000	-	-	220	100
0.12 HP (0.09 kW)	1.2	0.85	4868	550	BG40G10-../D06LA4	1459	1574	7000	-	-	95	43
0.12 HP (0.09 kW)	1.2	1.25	4868	550	BG50G10-../D06LA4	1452	2248	10000	-	-	112	51
0.12 HP (0.09 kW)	1.1	2.5	4514	510	BG60G20-../D06LA4	1496	3597	16000	-	-	220	100
0.12 HP (0.09 kW)	0.95	2.1	5576	630	BG60G20-../D06LA4	1741	3597	16000	-	-	220	100
0.12 HP (0.09 kW)	0.9	1.9	6019	680	BG60G20-../D06LA4	1880	3597	16000	-	-	220	100
0.12 HP (0.09 kW)	0.85	3.2	6815	770	BG70G20-../D06LA4	1994	4496	20000	-	-	287	130
0.12 HP (0.09 kW)	0.75	1.5	7700	870	BG60G20-../D06LA4	2249	3597	16000	-	-	220	100
0.12 HP (0.09 kW)	0.75	2.8	7966	900	BG70G20-../D06LA4	2215	4496	20000	-	-	287	130

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.12 HP (0.09 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.12 HP (0.09 kW)	0.6	1.1	10267	1160	BG60G20-../D06LA4	2818	3597	16000	-	-	220	100
0.12 HP (0.09 kW)	0.6	2.1	10532	1190	BG70G20-../D06LA4	2774	4496	20000	-	-	287	130
0.12 HP (0.09 kW)	0.55	1.0	11417	1290	BG60G20-../D06LA4	3234	3597	16000	-	-	220	100
0.12 HP (0.09 kW)	0.55	1.9	11683	1320	BG70G20-../D06LA4	3184	4496	20000	-	-	287	130
0.12 HP (0.09 kW)	0.42	1.4	15931	1800	BG70G20-../D06LA4	3925	4496	20000	-	-	287	130

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.15 HP (0.11 kW)	650	2.5	14	1.61	BG04-../D04LA4	2.51	76	340	-	-	10	4.4
0.15 HP (0.11 kW)	445	2.1	21	2.35	BG04-../D04LA4	3.65	88	390	-	-	10	4.4
0.15 HP (0.11 kW)	370	2.5	25	2.8	BG04-../D04LA4	4.39	85	380	-	-	10	4.4
0.15 HP (0.11 kW)	305	2.6	30	3.4	BG04-../D04LA4	5.36	85	380	-	-	10	4.4
0.15 HP (0.11 kW)	265	2.8	35	3.95	BG04-../D04LA4	6.18	93	415	-	-	10	4.4
0.15 HP (0.11 kW)	245	2.4	38	4.25	BG04-../D04LA4	6.67	92	410	-	-	10	4.4
0.15 HP (0.11 kW)	240	2.5	39	4.35	BG04-../D04LA4	6.80	94	420	-	-	10	4.4
0.15 HP (0.11 kW)	189	2.0	49	5.5	BG04-../D04LA4	8.58	92	410	-	-	10	4.4
0.15 HP (0.11 kW)	180	2.1	51	5.8	BG04-../D04LA4	9.00	106	470	-	-	10	4.4
0.15 HP (0.11 kW)	164	2.0	57	6.4	BG04-../D04LA4	9.90	108	480	-	-	10	4.4
0.15 HP (0.11 kW)	153	2.9	60	6.8	BG05-../D04LA4	10.59	133	590	-	-	11	5.1
0.15 HP (0.11 kW)	150	2.0	62	7.0	BG04-../D04LA4	10.82	108	480	-	-	10	4.4
0.15 HP (0.11 kW)	141	2.8	65	7.4	BG05-../D04LA4	11.55	135	600	-	-	11	5.1
0.15 HP (0.11 kW)	137	1.95	67	7.6	BG04-../D04LA4	11.90	110	490	-	-	10	4.4
0.15 HP (0.11 kW)	135	2.7	68	7.7	BG05-../D04LA4	12.05	115	510	-	-	11	5.1
0.15 HP (0.11 kW)	130	1.9	71	8.0	BG04-../D04LA4	12.55	110	490	-	-	10	4.4
0.15 HP (0.11 kW)	129	2.7	72	8.1	BG05-../D04LA4	12.60	137	610	-	-	11	5.1
0.15 HP (0.11 kW)	123	1.9	75	8.5	BG04-../D04LA4	13.20	112	500	-	-	10	4.4
0.15 HP (0.11 kW)	118	2.6	79	8.9	BG05-../D04LA4	13.75	142	630	-	-	11	5.1
0.15 HP (0.11 kW)	112	1.85	82	9.3	BG04-../D04LA4	14.52	115	510	-	-	10	4.4
0.15 HP (0.11 kW)	107	2.4	87	9.8	BG05-../D04LA4	15.23	144	640	-	-	11	5.1
0.15 HP (0.11 kW)	99	1.7	94	10.6	BG04-../D04LA4	16.44	119	530	-	-	10	4.4
0.15 HP (0.11 kW)	98	2.3	95	10.7	BG05-../D04LA4	16.62	148	660	-	-	11	5.1
0.15 HP (0.11 kW)	90	1.55	103	11.6	BG04-../D04LA4	18.08	121	540	-	-	10	4.4
0.15 HP (0.11 kW)	87	2.2	106	12	BG05-../D04LA4	18.82	153	680	-	-	11	5.1
0.15 HP (0.11 kW)	86	3.3	108	12.2	BG06-../D04LA4	18.98	173	770	-	-	13	6.1
0.15 HP (0.11 kW)	79	2.0	117	13.2	BG05-../D04LA4	20.53	157	700	-	-	11	5.1
0.15 HP (0.11 kW)	78	3.0	119	13.4	BG06-../D04LA4	20.82	180	800	-	-	13	6.1
0.15 HP (0.11 kW)	77	1.4	120	13.6	BG04-../D04LA4	21.12	126	560	-	-	10	4.4
0.15 HP (0.11 kW)	72	3.0	128	14.5	BG06-../D04LA4	22.71	182	810	-	-	13	6.1
0.15 HP (0.11 kW)	70	1.35	133	15	BG04-../D04LA4	23.23	135	600	-	-	10	4.4
0.15 HP (0.11 kW)	68	1.8	136	15.4	BG05-../D04LA4	24.00	166	740	-	-	11	5.1
0.15 HP (0.11 kW)	67	1.3	138	15.6	BG04-../D04LA4	24.45	137	610	-	-	10	4.4
0.15 HP (0.11 kW)	64	2.7	145	16.4	BG06-../D04LA4	25.48	191	850	-	-	13	6.1
0.15 HP (0.11 kW)	62	1.7	150	16.9	BG05-../D04LA4	26.18	171	760	-	-	11	5.1
0.15 HP (0.11 kW)	61	1.15	152	17.2	BG04-../D04LA4	26.89	146	650	-	-	10	4.4
0.15 HP (0.11 kW)	59	1.7	158	17.8	BG05-../D04LA4	27.82	173	770	-	-	11	5.1
0.15 HP (0.11 kW)	59	2.5	158	17.8	BG06-../D04LA4	27.80	189	840	-	-	13	6.1
0.15 HP (0.11 kW)	54	1.55	172	19.4	BG05-../D04LA4	30.35	171	760	-	-	11	5.1
0.15 HP (0.11 kW)	53	1.0	175	19.8	BG04-../D04LA4	30.91	155	690	-	-	10	4.4
0.15 HP (0.11 kW)	51	2.2	181	20.5	BG06-../D04LA4	32.22	200	890	-	-	13	6.1
0.15 HP (0.11 kW)	48	0.93	190	21.5	BG04-../D04LA4	34.00	162	720	-	-	10	4.4

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings	Reinforced Bearings			lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.15 HP (0.11 kW)	46.5	1.35	199	22.5	BG05-../D04LA4	35.00	182	810	-	-	11	5.1
0.15 HP (0.11 kW)	46.5	2.0	199	22.5	BG06-../D04LA4	35.15	198	880	-	-	13	6.1
0.15 HP (0.11 kW)	46	0.89	199	22.5	BG04-../D04LA4	35.35	164	730	-	-	10	4.4
0.15 HP (0.11 kW)	44	1.9	208	23.5	BG06-../D04LA4	36.91	200	890	-	-	13	6.1
0.15 HP (0.11 kW)	42.5	1.2	217	24.5	BG05-../D04LA4	38.18	191	850	-	-	11	5.1
0.15 HP (0.11 kW)	42	0.8	221	25	BG04-../D04LA4	38.89	169	750	-	-	10	4.4
0.15 HP (0.11 kW)	41	1.2	226	25.5	BG05-../D04LA4	39.94	193	860	-	-	11	5.1
0.15 HP (0.11 kW)	40.5	1.75	226	25.5	BG06-../D04LA4	40.26	200	890	-	-	13	6.1
0.15 HP (0.11 kW)	37.5	1.05	248	28	BG05-../D04LA4	43.57	202	900	-	-	11	5.1
0.15 HP (0.11 kW)	35.5	1.55	261	29.5	BG06-../D04LA4	46.19	200	890	-	-	13	6.1
0.15 HP (0.11 kW)	34.5	1.0	266	30	BG05-../D04LA4	47.00	209	930	-	-	11	5.1
0.15 HP (0.11 kW)	32.5	1.4	283	32	BG06-../D04LA4	50.38	211	940	-	-	13	6.1
0.15 HP (0.11 kW)	32	0.92	288	32.5	BG05-../D04LA4	51.27	218	970	-	-	11	5.1
0.15 HP (0.11 kW)	31	1.35	296	33.5	BG06-../D04LA4	52.56	214	950	-	-	13	6.1
0.15 HP (0.11 kW)	30.5	0.88	301	34	BG05-../D04LA4	53.44	220	980	-	-	11	5.1
0.15 HP (0.11 kW)	28.5	1.25	323	36.5	BG06-../D04LA4	57.34	225	1000	-	-	13	6.1
0.15 HP (0.11 kW)	28.5	3.3	323	36.5	BG10-../D06LA4	57.48	450	2000	629	2800	29	13
0.15 HP (0.11 kW)	28	0.8	332	37.5	BG05-../D04LA4	58.30	225	1000	-	-	11	5.1
0.15 HP (0.11 kW)	26.5	1.15	350	39.5	BG06-../D04LA4	61.22	229	1020	-	-	13	6.1
0.15 HP (0.11 kW)	25.5	2.9	363	41	BG10-../D06LA4	63.69	450	2000	629	2800	29	13
0.15 HP (0.11 kW)	25	2.9	372	42	BG10-../D06LA4	66.00	450	2000	629	2800	29	13
0.15 HP (0.11 kW)	24.5	1.05	376	42.5	BG06-../D04LA4	66.79	241	1070	-	-	13	6.1
0.15 HP (0.11 kW)	22.5	2.6	412	46.5	BG10-../D06LA4	73.13	450	2000	629	2800	29	13
0.15 HP (0.11 kW)	21.5	0.86	412	46.5	BG06G04-../D04LA4	75.99	241	1070	-	-	19	8.4
0.15 HP (0.11 kW)	21	2.4	443	50	BG10Z-../D06LA4	77.40	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	20	0.86	443	50	BG06G04-../D04LA4	82.89	241	1070	-	-	19	8.4
0.15 HP (0.11 kW)	19	2.2	487	55	BG10Z-../D06LA4	85.76	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	18	2.1	513	58	BG10Z-../D06LA4	92.19	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	17.5	3.3	531	60	BG20Z-../D06LA4	94.27	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	16	1.85	575	65	BG10Z-../D06LA4	102.1	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	15.5	3.0	593	67	BG20Z-../D06LA4	104.7	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	15	1.7	620	70	BG10Z-../D06LA4	109.8	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	14.5	2.8	637	72	BG20Z-../D06LA4	112.8	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	13.5	1.55	682	77	BG10Z-../D06LA4	121.7	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	13	2.5	708	80	BG20Z-../D06LA4	125.3	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	12.5	1.45	743	84	BG10Z-../D06LA4	131.8	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	11.5	1.3	805	91	BG10Z-../D06LA4	146.0	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	11.5	2.2	805	91	BG20Z-../D06LA4	141.3	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	11.5	3.3	805	91	BG30Z-../D06LA4	142.5	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	11	3.2	841	95	BG30Z-../D06LA4	151.5	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	10.5	2.0	885	100	BG20Z-../D06LA4	157.0	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	10	1.9	929	105	BG20Z-../D06LA4	162.2	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	9.8	1.1	947	107	BG10Z-../D06LA4	166.0	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	9.7	2.8	956	108	BG30Z-../D06LA4	168.1	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	9.0	1.7	1027	116	BG20Z-../D06LA4	180.1	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	8.9	1.0	1044	118	BG10Z-../D06LA4	184.0	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	8.9	2.5	1044	118	BG30Z-../D06LA4	182.9	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	8.4	0.96	1106	125	BG10Z-../D06LA4	194.6	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	8.2	1.55	1133	128	BG20Z-../D06LA4	199.9	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	8.2	3.3	1133	128	BG40Z-../D06LA4	199.9	1574	7000	-	-	84	38
0.15 HP (0.11 kW)	8.0	2.3	1159	131	BG30Z-../D06LA4	202.9	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	7.6	0.87	1221	138	BG10Z-../D06LA4	215.7	450	2000	629	2800	31	14
0.15 HP (0.11 kW)	7.4	3.0	1248	141	BG40Z-../D06LA4	221.9	1574	7000	-	-	84	38
0.15 HP (0.11 kW)	7.3	1.4	1266	143	BG20Z-../D06LA4	222.1	1124	5000	-	-	35	16
0.15 HP (0.11 kW)	7.2	2.1	1283	145	BG30Z-../D06LA4	225.9	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	6.8	1.0	1142	129	BG10G06-../D06LA4	240.7	450	2000	629	2800	40	18
0.15 HP (0.11 kW)	6.6	1.65	1168	132	BG20G06-../D06LA4	248.0	1124	5000	472	2100	44	20
0.15 HP (0.11 kW)	6.6	2.7	1407	159	BG40Z-../D06LA4	246.5	1574	7000	-	-	84	38

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.15 HP (0.11 kW)	6.5	1.85	1425	161	BG30Z-../D06LA4	250.6	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	6.2	1.8	1496	169	BG30Z-../D06LA4	261.9	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	6.0	2.4	1549	175	BG40Z-../D06LA4	273.6	1574	7000	-	-	84	38
0.15 HP (0.11 kW)	5.9	0.88	1310	148	BG10G06-../D06LA4	276.4	450	2000	629	2800	40	18
0.15 HP (0.11 kW)	5.6	1.6	1655	187	BG30Z-../D06LA4	290.5	1349	6000	-	-	49	22
0.15 HP (0.11 kW)	5.5	1.35	1434	162	BG20G06-../D06LA4	297.9	1124	5000	472	2100	44	20
0.15 HP (0.11 kW)	5.3	1.95	1487	168	BG30G06-../D06LA4	306.2	1349	6000	-	-	55	25
0.15 HP (0.11 kW)	4.7	1.15	1726	195	BG20G06-../D06LA4	352.1	1124	5000	472	2100	44	20
0.15 HP (0.11 kW)	4.7	1.65	1726	195	BG30G06-../D06LA4	346.8	1349	6000	-	-	55	25
0.15 HP (0.11 kW)	4.2	1.0	1903	215	BG20G06-../D06LA4	391.1	1124	5000	472	2100	44	20
0.15 HP (0.11 kW)	4.1	1.5	1947	220	BG30G06-../D06LA4	401.9	1349	6000	-	-	55	25
0.15 HP (0.11 kW)	3.7	2.6	1558	176	BG40G10-../D06LA4	448.8	1574	7000	-	-	95	43
0.15 HP (0.11 kW)	3.6	0.86	2257	255	BG20G06-../D06LA4	460.0	1124	5000	472	2100	44	20
0.15 HP (0.11 kW)	3.5	1.25	2345	265	BG30G06-../D06LA4	472.8	1349	6000	-	-	55	25
0.15 HP (0.11 kW)	3.1	2.1	1947	220	BG40G10-../D06LA4	534.2	1574	7000	-	-	95	43
0.15 HP (0.11 kW)	3.1	3.1	1947	220	BG50G10-../D06LA4	531.5	2248	10000	-	-	112	51
0.15 HP (0.11 kW)	2.9	1.0	2832	320	BG30G06-../D06LA4	565.8	1349	6000	-	-	55	25
0.15 HP (0.11 kW)	2.7	2.5	2434	275	BG50G10-../D06LA4	621.3	2248	10000	-	-	112	51
0.15 HP (0.11 kW)	2.6	1.6	2567	290	BG40G10-../D06LA4	640.0	1574	7000	-	-	95	43
0.15 HP (0.11 kW)	2.4	0.82	3496	395	BG30G06-../D06LA4	690.6	1349	6000	-	-	55	25
0.15 HP (0.11 kW)	2.3	1.4	2921	330	BG40G10-../D06LA4	710.9	1574	7000	-	-	95	43
0.15 HP (0.11 kW)	2.3	2.1	2921	330	BG50G10-../D06LA4	708.3	2248	10000	-	-	112	51
0.15 HP (0.11 kW)	2.1	1.3	3186	360	BG40G10-../D06LA4	789.1	1574	7000	-	-	95	43
0.15 HP (0.11 kW)	2.1	1.9	3186	360	BG50G10-../D06LA4	785.1	2248	10000	-	-	112	51
0.15 HP (0.11 kW)	1.7	1.0	4116	465	BG40G10-../D06LA4	965.2	1574	7000	-	-	95	43
0.15 HP (0.11 kW)	1.7	1.5	4116	465	BG50G10-../D06LA4	960.2	2248	10000	-	-	112	51
0.15 HP (0.11 kW)	1.6	3.1	3673	415	BG60G20-../D06LA4	1051	3597	16000	-	-	220	100
0.15 HP (0.11 kW)	1.4	1.15	5222	590	BG50G10-../D06LA4	1219	2248	10000	-	-	112	51
0.15 HP (0.11 kW)	1.4	2.6	4425	500	BG60G20-../D06LA4	1168	3597	16000	-	-	220	100
0.15 HP (0.11 kW)	1.3	2.4	4779	540	BG60G20-../D06LA4	1346	3597	16000	-	-	220	100
0.15 HP (0.11 kW)	1.2	0.97	6284	710	BG50G10-../D06LA4	1452	2248	10000	-	-	112	51
0.15 HP (0.11 kW)	1.1	1.9	6019	680	BG60G20-../D06LA4	1496	3597	16000	-	-	220	100
0.15 HP (0.11 kW)	1.0	3.1	7169	810	BG70G20-../D06LA4	1666	4496	20000	-	-	287	130
0.15 HP (0.11 kW)	0.95	1.55	7346	830	BG60G20-../D06LA4	1741	3597	16000	-	-	220	100
0.15 HP (0.11 kW)	0.9	1.45	7877	890	BG60G20-../D06LA4	1880	3597	16000	-	-	220	100
0.15 HP (0.11 kW)	0.85	2.5	8762	990	BG70G20-../D06LA4	1994	4496	20000	-	-	287	130
0.15 HP (0.11 kW)	0.75	1.15	10001	1130	BG60G20-../D06LA4	2249	3597	16000	-	-	220	100
0.15 HP (0.11 kW)	0.75	2.2	10267	1160	BG70G20-../D06LA4	2215	4496	20000	-	-	287	130
0.15 HP (0.11 kW)	0.6	1.65	13365	1510	BG70G20-../D06LA4	2774	4496	20000	-	-	287	130
0.15 HP (0.11 kW)	0.55	1.5	14781	1670	BG70G20-../D06LA4	3184	4496	20000	-	-	287	130
0.15 HP (0.11 kW)	0.42	1.1	19914	2250	BG70G20-../D06LA4	3925	4496	20000	-	-	287	130

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.25 HP (0.18 kW)	620	3.3	24	2.75	BG05-../D05LA4	2.64	94	420	-	-	15	7.0
0.25 HP (0.18 kW)	480	2.8	31	3.55	BG05-../D05LA4	3.38	103	460	-	-	15	7.0
0.25 HP (0.18 kW)	355	2.5	42	4.8	BG05-../D05LA4	4.59	110	490	-	-	15	7.0
0.25 HP (0.18 kW)	300	2.5	50	5.7	BG05-../D05LA4	5.46	110	490	-	-	15	7.0
0.25 HP (0.18 kW)	270	2.7	56	6.3	BG05-../D05LA4	6.09	108	480	-	-	15	7.0
0.25 HP (0.18 kW)	250	2.4	60	6.8	BG05-../D05LA4	6.60	115	510	-	-	15	7.0

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings	Reinforced Bearings			lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.25 HP (0.18 kW)	245	2.4	62	7.0	BG05-../D05LA4	6.64	112	500	-	-	15	7.0
0.25 HP (0.18 kW)	210	2.2	72	8.1	BG05-../D05LA4	7.80	119	530	-	-	15	7.0
0.25 HP (0.18 kW)	199	2.1	76	8.6	BG05-../D05LA4	8.15	115	510	-	-	15	7.0
0.25 HP (0.18 kW)	194	3.2	78	8.8	BG06-../D05LA4	8.39	135	600	-	-	18	8.0
0.25 HP (0.18 kW)	191	2.1	80	9.0	BG05-../D05LA4	8.51	124	550	-	-	15	7.0
0.25 HP (0.18 kW)	173	3.0	88	9.9	BG06-../D05LA4	9.38	144	640	-	-	18	8.0
0.25 HP (0.18 kW)	159	2.9	96	10.8	BG06-../D05LA4	10.24	144	640	-	-	18	8.0
0.25 HP (0.18 kW)	153	1.8	99	11.2	BG05-../D05LA4	10.59	133	590	-	-	15	7.0
0.25 HP (0.18 kW)	144	2.7	105	11.9	BG06-../D05LA4	11.28	151	670	-	-	18	8.0
0.25 HP (0.18 kW)	141	1.75	107	12.1	BG05-../D05LA4	11.55	135	600	-	-	15	7.0
0.25 HP (0.18 kW)	135	1.65	112	12.7	BG05-../D05LA4	12.05	115	510	-	-	15	7.0
0.25 HP (0.18 kW)	132	2.5	115	13	BG06-../D05LA4	12.30	151	670	-	-	18	8.0
0.25 HP (0.18 kW)	129	1.65	118	13.3	BG05-../D05LA4	12.60	137	610	-	-	15	7.0
0.25 HP (0.18 kW)	125	2.4	121	13.7	BG06-../D05LA4	12.98	135	600	-	-	18	8.0
0.25 HP (0.18 kW)	118	1.6	128	14.5	BG05-../D05LA4	13.75	142	630	-	-	15	7.0
0.25 HP (0.18 kW)	110	2.2	138	15.6	BG06-../D05LA4	14.78	164	730	-	-	18	8.0
0.25 HP (0.18 kW)	107	1.5	142	16	BG05-../D05LA4	15.23	144	640	-	-	15	7.0
0.25 HP (0.18 kW)	101	2.1	150	17	BG06-../D05LA4	16.13	166	740	-	-	18	8.0
0.25 HP (0.18 kW)	98	1.45	155	17.5	BG05-../D05LA4	16.62	148	660	-	-	15	7.0
0.25 HP (0.18 kW)	94	2.1	161	18.2	BG06-../D05LA4	17.40	171	760	-	-	18	8.0
0.25 HP (0.18 kW)	87	1.3	174	19.7	BG05-../D05LA4	18.82	153	680	-	-	15	7.0
0.25 HP (0.18 kW)	86	2.0	176	19.9	BG06-../D05LA4	18.98	173	770	-	-	18	8.0
0.25 HP (0.18 kW)	79	1.25	190	21.5	BG05-../D05LA4	20.53	157	700	-	-	15	7.0
0.25 HP (0.18 kW)	78	1.8	195	22	BG06-../D05LA4	20.82	180	800	-	-	18	8.0
0.25 HP (0.18 kW)	72	1.85	208	23.5	BG06-../D05LA4	22.71	182	810	-	-	18	8.0
0.25 HP (0.18 kW)	68	1.1	221	25	BG05-../D05LA4	24.00	166	740	-	-	15	7.0
0.25 HP (0.18 kW)	64	1.7	235	26.5	BG06-../D05LA4	25.48	191	850	-	-	18	8.0
0.25 HP (0.18 kW)	62	1.05	243	27.5	BG05-../D05LA4	26.18	171	760	-	-	15	7.0
0.25 HP (0.18 kW)	59	1.05	257	29	BG05-../D05LA4	27.82	173	770	-	-	15	7.0
0.25 HP (0.18 kW)	59	1.55	257	29	BG06-../D05LA4	27.80	189	840	-	-	18	8.0
0.25 HP (0.18 kW)	54	0.95	279	31.5	BG05-../D05LA4	30.35	171	760	-	-	15	7.0
0.25 HP (0.18 kW)	51	1.35	296	33.5	BG06-../D05LA4	32.22	200	890	-	-	18	8.0
0.25 HP (0.18 kW)	46.5	0.82	323	36.5	BG05-../D05LA4	35.00	182	810	-	-	15	7.0
0.25 HP (0.18 kW)	46.5	1.25	323	36.5	BG06-../D05LA4	35.15	198	880	-	-	18	8.0
0.25 HP (0.18 kW)	46.5	3.3	323	36.5	BG10-../D06LA4	34.92	380	1690	528	2350	29	13
0.25 HP (0.18 kW)	44	1.15	345	39	BG06-../D05LA4	36.91	200	890	-	-	18	8.0
0.25 HP (0.18 kW)	41	2.9	367	41.5	BG10-../D06LA4	39.70	400	1780	551	2450	29	13
0.25 HP (0.18 kW)	40.5	1.05	372	42	BG06-../D05LA4	40.26	200	890	-	-	18	8.0
0.25 HP (0.18 kW)	37	2.6	407	46	BG10-../D06LA4	43.99	423	1880	585	2600	29	13
0.25 HP (0.18 kW)	35.5	0.94	425	48	BG06-../D05LA4	46.19	200	890	-	-	18	8.0
0.25 HP (0.18 kW)	35	2.4	434	49	BG10-../D06LA4	46.55	432	1920	596	2650	29	13
0.25 HP (0.18 kW)	32.5	0.87	460	52	BG06-../D05LA4	50.38	211	940	-	-	18	8.0
0.25 HP (0.18 kW)	31.5	2.2	478	54	BG10-../D06LA4	51.57	450	2000	629	2800	29	13
0.25 HP (0.18 kW)	31	0.82	487	55	BG06-../D05LA4	52.56	214	950	-	-	18	8.0
0.25 HP (0.18 kW)	28.5	2.0	531	60	BG10-../D06LA4	57.48	450	2000	629	2800	29	13
0.25 HP (0.18 kW)	27.5	3.2	549	62	BG20-../D06LA4	59.07	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	25.5	1.8	593	67	BG10-../D06LA4	63.69	450	2000	629	2800	29	13
0.25 HP (0.18 kW)	25	1.75	602	68	BG10-../D06LA4	66.00	450	2000	629	2800	29	13
0.25 HP (0.18 kW)	25	2.9	602	68	BG20-../D06LA4	65.62	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	24	2.8	628	71	BG20Z-../D06LA4	67.53	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	22.5	1.6	673	76	BG10-../D06LA4	73.13	450	2000	629	2800	29	13
0.25 HP (0.18 kW)	22	2.6	690	78	BG20Z-../D06LA4	75.00	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	21	1.5	717	81	BG10Z-../D06LA4	77.40	450	2000	629	2800	31	14
0.25 HP (0.18 kW)	21	2.5	717	81	BG20Z-../D06LA4	78.60	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	19	1.35	797	90	BG10Z-../D06LA4	85.76	450	2000	629	2800	31	14
0.25 HP (0.18 kW)	19	2.2	797	90	BG20Z-../D06LA4	87.30	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	19	3.3	797	90	BG30Z-../D06LA4	86.13	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	18	1.25	841	95	BG10Z-../D06LA4	92.19	450	2000	629	2800	31	14

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.25 HP (0.18 kW)	17.5	2.0	867	98	BG20Z-../D06LA4	94.27	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	17	3.0	894	101	BG30Z-../D06LA4	95.55	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	16	1.1	947	107	BG10Z-../D06LA4	102.1	450	2000	629	2800	31	14
0.25 HP (0.18 kW)	15.5	1.8	974	110	BG20Z-../D06LA4	104.7	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	15	1.05	1009	114	BG10Z-../D06LA4	109.8	450	2000	629	2800	31	14
0.25 HP (0.18 kW)	15	2.6	1009	114	BG30Z-../D06LA4	109.6	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	14.5	1.7	1044	118	BG20Z-../D06LA4	112.8	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	13.5	0.94	1124	127	BG10Z-../D06LA4	121.7	450	2000	629	2800	31	14
0.25 HP (0.18 kW)	13.5	3.3	1124	127	BG40Z-../D06LA4	121.3	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	13	1.5	1168	132	BG20Z-../D06LA4	125.3	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	13	2.3	1168	132	BG30Z-../D06LA4	128.5	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	12.5	0.88	1213	137	BG10Z-../D06LA4	131.8	450	2000	629	2800	31	14
0.25 HP (0.18 kW)	12.5	3.1	1213	137	BG40Z-../D06LA4	134.6	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	11.5	0.81	1319	149	BG10Z-../D06LA4	146.0	450	2000	629	2800	31	14
0.25 HP (0.18 kW)	11.5	1.35	1319	149	BG20Z-../D06LA4	141.3	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	11.5	2.0	1319	149	BG30Z-../D06LA4	142.5	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	11.5	2.9	1319	149	BG40Z-../D06LA4	141.4	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	11	0.93	1239	140	BG10G06-../D06LA4	150.1	450	2000	629	2800	40	18
0.25 HP (0.18 kW)	11	1.9	1381	156	BG30Z-../D06LA4	151.5	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	10.5	1.25	1443	163	BG20Z-../D06LA4	157.0	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	10.5	2.6	1443	163	BG40Z-../D06LA4	156.9	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	10	1.15	1513	171	BG20Z-../D06LA4	162.2	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	9.8	0.83	1390	157	BG10G06-../D06LA4	166.3	450	2000	629	2800	40	18
0.25 HP (0.18 kW)	9.8	2.4	1549	175	BG40Z-../D06LA4	166.1	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	9.7	1.7	1567	177	BG30Z-../D06LA4	168.1	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	9.0	1.05	1690	191	BG20Z-../D06LA4	180.1	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	8.9	1.55	1708	193	BG30Z-../D06LA4	182.9	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	8.9	3.3	1708	193	BG50Z-../D06LA4	182.8	2248	10000	-	-	104	47
0.25 HP (0.18 kW)	8.8	2.2	1726	195	BG40Z-../D06LA4	184.4	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	8.2	0.98	1814	205	BG20Z-../D06LA4	199.9	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	8.2	2.1	1814	205	BG40Z-../D06LA4	199.9	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	8.0	1.45	1859	210	BG30Z-../D06LA4	202.9	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	8.0	3.0	1859	210	BG50Z-../D06LA4	204.7	2248	10000	-	-	104	47
0.25 HP (0.18 kW)	7.4	1.85	2036	230	BG40Z-../D06LA4	221.9	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	7.3	0.85	2080	235	BG20Z-../D06LA4	222.1	1124	5000	-	-	35	16
0.25 HP (0.18 kW)	7.2	1.3	2080	235	BG30Z-../D06LA4	225.9	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	7.2	2.7	2080	235	BG50Z-../D06LA4	226.9	2248	10000	-	-	104	47
0.25 HP (0.18 kW)	6.6	0.96	2036	230	BG20G06-../D06LA4	248.0	1124	5000	472	2100	44	20
0.25 HP (0.18 kW)	6.6	1.65	2301	260	BG40Z-../D06LA4	246.5	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	6.5	1.15	2301	260	BG30Z-../D06LA4	250.6	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	6.3	2.3	2390	270	BG50Z-../D06LA4	258.6	2248	10000	-	-	104	47
0.25 HP (0.18 kW)	6.2	1.1	2434	275	BG30Z-../D06LA4	261.9	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	6.0	1.5	2522	285	BG40Z-../D06LA4	273.6	1574	7000	-	-	84	38
0.25 HP (0.18 kW)	5.7	2.2	1859	210	BG40G10-../D06LA4	288.6	1574	7000	-	-	95	43
0.25 HP (0.18 kW)	5.7	2.1	2655	300	BG50Z-../D06LA4	286.7	2248	10000	-	-	104	47
0.25 HP (0.18 kW)	5.6	0.98	2699	305	BG30Z-../D06LA4	290.5	1349	6000	-	-	49	22
0.25 HP (0.18 kW)	5.3	1.1	2567	290	BG30G06-../D06LA4	306.2	1349	6000	-	-	55	25
0.25 HP (0.18 kW)	4.7	0.97	2965	335	BG30G06-../D06LA4	346.8	1349	6000	-	-	55	25
0.25 HP (0.18 kW)	4.7	2.6	2345	265	BG50G10-../D06LA4	351.7	2248	10000	-	-	112	51
0.25 HP (0.18 kW)	4.6	1.7	2390	270	BG40G10-../D06LA4	353.5	1574	7000	-	-	95	43
0.25 HP (0.18 kW)	4.1	0.84	3408	385	BG30G06-../D06LA4	401.9	1349	6000	-	-	55	25
0.25 HP (0.18 kW)	3.7	1.3	3142	355	BG40G10-../D06LA4	448.8	1574	7000	-	-	95	43
0.25 HP (0.18 kW)	3.7	1.95	3142	355	BG50G10-../D06LA4	446.5	2248	10000	-	-	112	51
0.25 HP (0.18 kW)	3.1	1.05	3850	435	BG40G10-../D06LA4	534.2	1574	7000	-	-	95	43
0.25 HP (0.18 kW)	3.1	1.6	3850	435	BG50G10-../D06LA4	531.5	2248	10000	-	-	112	51
0.25 HP (0.18 kW)	2.9	3.1	3762	425	BG60G20-../D06LA4	559.5	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	2.7	1.35	4602	520	BG50G10-../D06LA4	621.3	2248	10000	-	-	112	51
0.25 HP (0.18 kW)	2.6	0.86	4779	540	BG40G10-../D06LA4	640.0	1574	7000	-	-	95	43

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.25 HP (0.18 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.25 HP (0.18 kW)	2.5	2.5	4602	520	BG60G20-../D06LA4	651.3	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	2.3	1.1	5487	620	BG50G10-../D06LA4	708.3	2248	10000	-	-	112	51
0.25 HP (0.18 kW)	2.1	1.0	6019	680	BG50G10-../D06LA4	785.1	2248	10000	-	-	112	51
0.25 HP (0.18 kW)	2.1	2.1	5399	610	BG60G20-../D06LA4	804.5	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	1.9	1.95	5930	670	BG60G20-../D06LA4	891.5	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	1.7	0.8	7612	860	BG50G10-../D06LA4	960.2	2248	10000	-	-	112	51
0.25 HP (0.18 kW)	1.6	1.55	7346	830	BG60G20-../D06LA4	1051	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	1.6	2.9	7523	850	BG70G20-../D06LA4	1035	4496	20000	-	-	287	130
0.25 HP (0.18 kW)	1.4	1.35	8674	980	BG60G20-../D06LA4	1168	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	1.4	2.5	8762	990	BG70G20-../D06LA4	1193	4496	20000	-	-	287	130
0.25 HP (0.18 kW)	1.3	1.25	9293	1050	BG60G20-../D06LA4	1346	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	1.2	2.1	10532	1190	BG70G20-../D06LA4	1389	4496	20000	-	-	287	130
0.25 HP (0.18 kW)	1.1	1.0	11417	1290	BG60G20-../D06LA4	1496	3597	16000	-	-	220	100
0.25 HP (0.18 kW)	1.1	1.9	11683	1320	BG70G20-../D06LA4	1543	4496	20000	-	-	287	130
0.25 HP (0.18 kW)	1.0	1.7	13011	1470	BG70G20-../D06LA4	1666	4496	20000	-	-	287	130
0.25 HP (0.18 kW)	0.85	1.4	15754	1780	BG70G20-../D06LA4	1994	4496	20000	-	-	287	130
0.25 HP (0.18 kW)	0.75	1.2	18144	2050	BG70G20-../D06LA4	2215	4496	20000	-	-	287	130

0.33 HP (0.25 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.33 HP (0.25 kW)	620	2.3	34	3.85	BG05-../D05LA4	2.64	94	420	-	-	15	7.0
0.33 HP (0.25 kW)	480	2.0	44	4.95	BG05-../D05LA4	3.38	103	460	-	-	15	7.0
0.33 HP (0.25 kW)	360	3.3	58	6.6	BG06-../D05LA4	4.54	119	530	-	-	18	8.0
0.33 HP (0.25 kW)	355	1.8	59	6.7	BG05-../D05LA4	4.59	110	490	-	-	15	7.0
0.33 HP (0.25 kW)	300	1.75	70	7.9	BG05-../D05LA4	5.46	110	490	-	-	15	7.0
0.33 HP (0.25 kW)	275	2.8	76	8.6	BG06-../D05LA4	5.96	128	570	-	-	18	8.0
0.33 HP (0.25 kW)	270	1.95	78	8.8	BG05-../D05LA4	6.09	108	480	-	-	15	7.0
0.33 HP (0.25 kW)	250	1.7	84	9.5	BG05-../D05LA4	6.60	115	510	-	-	15	7.0
0.33 HP (0.25 kW)	245	1.75	86	9.7	BG05-../D05LA4	6.64	112	500	-	-	15	7.0
0.33 HP (0.25 kW)	235	2.6	89	10.1	BG06-../D05LA4	7.01	130	580	-	-	18	8.0
0.33 HP (0.25 kW)	210	1.6	100	11.3	BG05-../D05LA4	7.80	119	530	-	-	15	7.0
0.33 HP (0.25 kW)	199	1.5	105	11.9	BG05-../D05LA4	8.15	115	510	-	-	15	7.0
0.33 HP (0.25 kW)	194	2.3	109	12.3	BG06-../D05LA4	8.39	135	600	-	-	18	8.0
0.33 HP (0.25 kW)	191	1.5	111	12.5	BG05-../D05LA4	8.51	124	550	-	-	15	7.0
0.33 HP (0.25 kW)	173	2.2	122	13.8	BG06-../D05LA4	9.38	144	640	-	-	18	8.0
0.33 HP (0.25 kW)	159	2.1	133	15	BG06-../D05LA4	10.24	144	640	-	-	18	8.0
0.33 HP (0.25 kW)	153	1.3	138	15.6	BG05-../D05LA4	10.59	133	590	-	-	15	7.0
0.33 HP (0.25 kW)	144	1.95	146	16.5	BG06-../D05LA4	11.28	151	670	-	-	18	8.0
0.33 HP (0.25 kW)	141	1.25	150	16.9	BG05-../D05LA4	11.55	135	600	-	-	15	7.0
0.33 HP (0.25 kW)	135	1.2	156	17.6	BG05-../D05LA4	12.05	115	510	-	-	15	7.0
0.33 HP (0.25 kW)	132	1.85	159	18	BG06-../D05LA4	12.30	151	670	-	-	18	8.0
0.33 HP (0.25 kW)	129	1.2	164	18.5	BG05-../D05LA4	12.60	137	610	-	-	15	7.0
0.33 HP (0.25 kW)	125	1.75	169	19.1	BG06-../D05LA4	12.98	135	600	-	-	18	8.0
0.33 HP (0.25 kW)	118	1.15	177	20	BG05-../D05LA4	13.75	142	630	-	-	15	7.0
0.33 HP (0.25 kW)	110	1.6	190	21.5	BG06-../D05LA4	14.78	164	730	-	-	18	8.0
0.33 HP (0.25 kW)	107	1.1	195	22	BG05-../D05LA4	15.23	144	640	-	-	15	7.0
0.33 HP (0.25 kW)	101	1.5	208	23.5	BG06-../D05LA4	16.13	166	740	-	-	18	8.0
0.33 HP (0.25 kW)	98	1.05	212	24	BG05-../D05LA4	16.62	148	660	-	-	15	7.0
0.33 HP (0.25 kW)	94	1.5	221	25	BG06-../D05LA4	17.40	171	760	-	-	18	8.0
0.33 HP (0.25 kW)	87	0.96	239	27	BG05-../D05LA4	18.82	153	680	-	-	15	7.0

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.33 HP (0.25 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.33 HP (0.25 kW)	86	1.45	243	27.5	BG06-../D05LA4	18.98	173	770	-	-	18	8.0
0.33 HP (0.25 kW)	79	0.9	266	30	BG05-../D05LA4	20.53	157	700	-	-	15	7.0
0.33 HP (0.25 kW)	78	1.3	270	30.5	BG06-../D05LA4	20.82	180	800	-	-	18	8.0
0.33 HP (0.25 kW)	72	1.3	292	33	BG06-../D05LA4	22.71	182	810	-	-	18	8.0
0.33 HP (0.25 kW)	68	0.8	310	35	BG05-../D05LA4	24.00	166	740	-	-	15	7.0
0.33 HP (0.25 kW)	64	1.2	327	37	BG06-../D05LA4	25.48	191	850	-	-	18	8.0
0.33 HP (0.25 kW)	62	3.1	341	38.5	BG10-../D06LA4	26.26	328	1460	450	2000	29	13
0.33 HP (0.25 kW)	59	1.15	354	40	BG06-../D05LA4	27.80	189	840	-	-	18	8.0
0.33 HP (0.25 kW)	56	2.8	376	42.5	BG10-../D06LA4	29.09	346	1540	483	2150	29	13
0.33 HP (0.25 kW)	52	2.6	403	45.5	BG10-../D06LA4	31.52	360	1600	495	2200	29	13
0.33 HP (0.25 kW)	51	0.97	412	46.5	BG06-../D05LA4	32.22	200	890	-	-	18	8.0
0.33 HP (0.25 kW)	47.5	3.0	443	50	BG15-../D06LA4	34.20	674	3000	1349	6000	29	13
0.33 HP (0.25 kW)	46.5	0.88	451	51	BG06-../D05LA4	35.15	198	880	-	-	18	8.0
0.33 HP (0.25 kW)	46.5	2.4	451	51	BG10-../D06LA4	34.92	380	1690	528	2350	29	13
0.33 HP (0.25 kW)	44	0.83	478	54	BG06-../D05LA4	36.91	200	890	-	-	18	8.0
0.33 HP (0.25 kW)	43	2.7	487	55	BG15-../D06LA4	37.90	674	3000	1349	6000	29	13
0.33 HP (0.25 kW)	41	2.1	513	58	BG10-../D06LA4	39.70	400	1780	551	2450	29	13
0.33 HP (0.25 kW)	39	3.3	540	61	BG20-../D06LA4	41.76	1012	4500	-	-	35	16
0.33 HP (0.25 kW)	37	1.9	566	64	BG10-../D06LA4	43.99	423	1880	585	2600	29	13
0.33 HP (0.25 kW)	35	1.75	602	68	BG10-../D06LA4	46.55	432	1920	596	2650	29	13
0.33 HP (0.25 kW)	35	2.9	602	68	BG20-../D06LA4	46.38	1057	4700	-	-	35	16
0.33 HP (0.25 kW)	34	2.9	620	70	BG20-../D06LA4	47.92	1068	4750	-	-	35	16
0.33 HP (0.25 kW)	31.5	1.6	664	75	BG10-../D06LA4	51.57	450	2000	629	2800	29	13
0.33 HP (0.25 kW)	30.5	2.6	690	78	BG20-../D06LA4	53.22	1113	4950	-	-	35	16
0.33 HP (0.25 kW)	28.5	1.45	735	83	BG10-../D06LA4	57.48	450	2000	629	2800	29	13
0.33 HP (0.25 kW)	27.5	2.3	761	86	BG20-../D06LA4	59.07	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	25.5	1.3	823	93	BG10-../D06LA4	63.69	450	2000	629	2800	29	13
0.33 HP (0.25 kW)	25	1.25	841	95	BG10-../D06LA4	66.00	450	2000	629	2800	29	13
0.33 HP (0.25 kW)	25	2.1	841	95	BG20-../D06LA4	65.62	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	24.5	3.1	859	97	BG30-../D06LA4	67.44	1349	6000	-	-	44	20
0.33 HP (0.25 kW)	24	2.0	876	99	BG20Z-../D06LA4	67.53	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	22.5	1.15	938	106	BG10-../D06LA4	73.13	450	2000	629	2800	29	13
0.33 HP (0.25 kW)	22.5	2.8	938	106	BG30Z-../D06LA4	73.51	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	22	1.85	956	108	BG20Z-../D06LA4	75.00	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	21	1.05	1000	113	BG10Z-../D06LA4	77.40	450	2000	629	2800	31	14
0.33 HP (0.25 kW)	21	1.75	1000	113	BG20Z-../D06LA4	78.60	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	20	2.5	1053	119	BG30Z-../D06LA4	81.55	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	19	0.96	1106	125	BG10Z-../D06LA4	85.76	450	2000	629	2800	31	14
0.33 HP (0.25 kW)	19	1.6	1106	125	BG20Z-../D06LA4	87.30	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	19	2.4	1106	125	BG30Z-../D06LA4	86.13	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	18	0.91	1168	132	BG10Z-../D06LA4	92.19	450	2000	629	2800	31	14
0.33 HP (0.25 kW)	18	3.2	1168	132	BG40Z-../D06LA4	91.02	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	17.5	1.45	1204	136	BG20Z-../D06LA4	94.27	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	17	2.1	1239	140	BG30Z-../D06LA4	95.55	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	17	3.0	1239	140	BG40Z-../D06LA4	96.86	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	16	0.81	1319	149	BG10Z-../D06LA4	102.1	450	2000	629	2800	31	14
0.33 HP (0.25 kW)	15.5	1.3	1363	154	BG20Z-../D06LA4	104.7	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	15.5	2.8	1363	154	BG40Z-../D06LA4	107.5	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	15	1.9	1407	159	BG30Z-../D06LA4	109.6	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	14.5	1.2	1452	164	BG20Z-../D06LA4	112.8	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	13.5	2.4	1558	176	BG40Z-../D06LA4	121.3	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	13	1.1	1620	183	BG20Z-../D06LA4	125.3	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	13	1.65	1620	183	BG30Z-../D06LA4	128.5	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	12.5	2.2	1690	191	BG40Z-../D06LA4	134.6	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	11.5	0.98	1814	205	BG20Z-../D06LA4	141.3	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	11.5	1.45	1814	205	BG30Z-../D06LA4	142.5	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	11.5	2.1	1814	205	BG40Z-../D06LA4	141.4	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	11.5	3.1	1814	205	BG50Z-../D06LA4	142.9	2248	10000	-	-	104	47

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.33 HP (0.25 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings	Reinforced Bearings				
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.33 HP (0.25 kW)	11	1.4	1903	215	BG30Z-../D06LA4	151.5	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	10.5	0.89	1991	225	BG20Z-../D06LA4	157.0	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	10.5	1.9	1991	225	BG40Z-../D06LA4	156.9	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	10	0.85	2080	235	BG20Z-../D06LA4	162.2	1124	5000	-	-	35	16
0.33 HP (0.25 kW)	9.9	2.6	2124	240	BG50Z-../D06LA4	164.9	2248	10000	-	-	104	47
0.33 HP (0.25 kW)	9.8	1.75	2124	240	BG40Z-../D06LA4	166.1	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	9.7	1.2	2168	245	BG30Z-../D06LA4	168.1	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	8.9	1.15	2345	265	BG30Z-../D06LA4	182.9	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	8.9	2.4	2345	265	BG50Z-../D06LA4	182.8	2248	10000	-	-	104	47
0.33 HP (0.25 kW)	8.8	1.55	2390	270	BG40Z-../D06LA4	184.4	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	8.2	1.45	2567	290	BG40Z-../D06LA4	199.9	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	8.0	1.0	2611	295	BG30Z-../D06LA4	202.9	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	8.0	2.1	2611	295	BG50Z-../D06LA4	204.7	2248	10000	-	-	104	47
0.33 HP (0.25 kW)	7.4	1.35	2832	320	BG40Z-../D06LA4	221.9	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	7.2	0.91	2921	330	BG30Z-../D06LA4	225.9	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	7.2	1.9	2921	330	BG50Z-../D06LA4	226.9	2248	10000	-	-	104	47
0.33 HP (0.25 kW)	6.6	1.2	3186	360	BG40Z-../D06LA4	246.5	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	6.5	0.82	3231	365	BG30Z-../D06LA4	250.6	1349	6000	-	-	49	22
0.33 HP (0.25 kW)	6.4	0.94	3054	345	BG30G06-../D06LA4	254.9	1349	6000	-	-	55	25
0.33 HP (0.25 kW)	6.3	1.7	3319	375	BG50Z-../D06LA4	258.6	2248	10000	-	-	104	47
0.33 HP (0.25 kW)	6.0	1.1	3496	395	BG40Z-../D06LA4	273.6	1574	7000	-	-	84	38
0.33 HP (0.25 kW)	5.7	1.45	2876	325	BG40G10-../D06LA4	288.6	1574	7000	-	-	95	43
0.33 HP (0.25 kW)	5.7	1.5	3673	415	BG50Z-../D06LA4	286.7	2248	10000	-	-	104	47
0.33 HP (0.25 kW)	4.7	1.7	3585	405	BG50G10-../D06LA4	351.7	2248	10000	-	-	112	51
0.33 HP (0.25 kW)	4.6	1.1	3673	415	BG40G10-../D06LA4	353.5	1574	7000	-	-	95	43
0.33 HP (0.25 kW)	3.8	2.8	4071	460	BG60G20-../D06LA4	437.3	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	3.7	0.88	4691	530	BG40G10-../D06LA4	448.8	1574	7000	-	-	95	43
0.33 HP (0.25 kW)	3.7	1.3	4691	530	BG50G10-../D06LA4	446.5	2248	10000	-	-	112	51
0.33 HP (0.25 kW)	3.3	2.3	5045	570	BG60G20-../D06LA4	504.9	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	3.1	1.05	5753	650	BG50G10-../D06LA4	531.5	2248	10000	-	-	112	51
0.33 HP (0.25 kW)	2.9	2.0	5753	650	BG60G20-../D06LA4	559.5	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	2.7	0.9	6815	770	BG50G10-../D06LA4	621.3	2248	10000	-	-	112	51
0.33 HP (0.25 kW)	2.5	1.65	6992	790	BG60G20-../D06LA4	651.3	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	2.5	3.2	6904	780	BG70G20-../D06LA4	665.8	4496	20000	-	-	287	130
0.33 HP (0.25 kW)	2.1	1.4	8231	930	BG60G20-../D06LA4	804.5	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	2.1	2.7	8231	930	BG70G20-../D06LA4	790.2	4496	20000	-	-	287	130
0.33 HP (0.25 kW)	1.9	1.25	9116	1030	BG60G20-../D06LA4	891.5	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	1.9	2.4	9293	1050	BG70G20-../D06LA4	877.6	4496	20000	-	-	287	130
0.33 HP (0.25 kW)	1.6	1.05	11063	1250	BG60G20-../D06LA4	1051	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	1.6	1.95	11240	1270	BG70G20-../D06LA4	1035	4496	20000	-	-	287	130
0.33 HP (0.25 kW)	1.4	0.9	12834	1450	BG60G20-../D06LA4	1168	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	1.4	1.7	13011	1470	BG70G20-../D06LA4	1193	4496	20000	-	-	287	130
0.33 HP (0.25 kW)	1.3	0.83	13896	1570	BG60G20-../D06LA4	1346	3597	16000	-	-	220	100
0.33 HP (0.25 kW)	1.2	1.45	15489	1750	BG70G20-../D06LA4	1389	4496	20000	-	-	287	130
0.33 HP (0.25 kW)	1.1	1.3	17082	1930	BG70G20-../D06LA4	1543	4496	20000	-	-	287	130
0.33 HP (0.25 kW)	1.0	1.2	18587	2100	BG70G20-../D06LA4	1666	4496	20000	-	-	287	130

0.4 HP (0.3 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings	Reinforced Bearings				
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.4 HP (0.3 kW)	620	1.95	41	4.6	BG05-../D05LA4	2.64	94	420	-	-	15	7.0

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
0.4 HP (0.3 kW)	480	1.7	52	5.9	BG05-../D05LA4	3.38	103	460	-	-	15	7.0		
0.4 HP (0.3 kW)	430	3.0	58	6.6	BG06-../D05LA4	3.78	117	520	-	-	18	8.0		
0.4 HP (0.3 kW)	360	2.8	70	7.9	BG06-../D05LA4	4.54	119	530	-	-	18	8.0		
0.4 HP (0.3 kW)	355	1.5	71	8.0	BG05-../D05LA4	4.59	110	490	-	-	15	7.0		
0.4 HP (0.3 kW)	300	1.45	84	9.5	BG05-../D05LA4	5.46	110	490	-	-	15	7.0		
0.4 HP (0.3 kW)	275	2.3	92	10.4	BG06-../D05LA4	5.96	128	570	-	-	18	8.0		
0.4 HP (0.3 kW)	270	1.6	94	10.6	BG05-../D05LA4	6.09	108	480	-	-	15	7.0		
0.4 HP (0.3 kW)	250	1.4	101	11.4	BG05-../D05LA4	6.60	115	510	-	-	15	7.0		
0.4 HP (0.3 kW)	245	1.45	103	11.6	BG05-../D05LA4	6.64	112	500	-	-	15	7.0		
0.4 HP (0.3 kW)	235	2.1	107	12.1	BG06-../D05LA4	7.01	130	580	-	-	18	8.0		
0.4 HP (0.3 kW)	210	1.3	120	13.6	BG05-../D05LA4	7.80	119	530	-	-	15	7.0		
0.4 HP (0.3 kW)	199	1.25	127	14.3	BG05-../D05LA4	8.15	115	510	-	-	15	7.0		
0.4 HP (0.3 kW)	194	1.9	130	14.7	BG06-../D05LA4	8.39	135	600	-	-	18	8.0		
0.4 HP (0.3 kW)	191	1.25	133	15	BG05-../D05LA4	8.51	124	550	-	-	15	7.0		
0.4 HP (0.3 kW)	173	1.8	146	16.5	BG06-../D05LA4	9.38	144	640	-	-	18	8.0		
0.4 HP (0.3 kW)	159	1.7	159	18	BG06-../D05LA4	10.24	144	640	-	-	18	8.0		
0.4 HP (0.3 kW)	153	1.05	166	18.7	BG05-../D05LA4	10.59	133	590	-	-	15	7.0		
0.4 HP (0.3 kW)	144	1.6	175	19.8	BG06-../D05LA4	11.28	151	670	-	-	18	8.0		
0.4 HP (0.3 kW)	141	1.05	177	20	BG05-../D05LA4	11.55	135	600	-	-	15	7.0		
0.4 HP (0.3 kW)	135	1.0	186	21	BG05-../D05LA4	12.05	115	510	-	-	15	7.0		
0.4 HP (0.3 kW)	132	1.55	190	21.5	BG06-../D05LA4	12.30	151	670	-	-	18	8.0		
0.4 HP (0.3 kW)	129	1.0	195	22	BG05-../D05LA4	12.60	137	610	-	-	15	7.0		
0.4 HP (0.3 kW)	125	1.45	199	22.5	BG06-../D05LA4	12.98	135	600	-	-	18	8.0		
0.4 HP (0.3 kW)	118	0.96	212	24	BG05-../D05LA4	13.75	142	630	-	-	15	7.0		
0.4 HP (0.3 kW)	110	1.3	230	26	BG06-../D05LA4	14.78	164	730	-	-	18	8.0		
0.4 HP (0.3 kW)	107	0.91	235	26.5	BG05-../D05LA4	15.23	144	640	-	-	15	7.0		
0.4 HP (0.3 kW)	101	1.25	248	28	BG06-../D05LA4	16.13	166	740	-	-	18	8.0		
0.4 HP (0.3 kW)	98	0.86	257	29	BG05-../D05LA4	16.62	148	660	-	-	15	7.0		
0.4 HP (0.3 kW)	94	1.25	266	30	BG06-../D05LA4	17.40	171	760	-	-	18	8.0		
0.4 HP (0.3 kW)	87	0.8	288	32.5	BG05-../D05LA4	18.82	153	680	-	-	15	7.0		
0.4 HP (0.3 kW)	86	1.2	292	33	BG06-../D05LA4	18.98	173	770	-	-	18	8.0		
0.4 HP (0.3 kW)	79	3.3	319	36	BG10-../D06LA4	20.51	290	1290	405	1800	29	13		
0.4 HP (0.3 kW)	78	1.1	323	36.5	BG06-../D05LA4	20.82	180	800	-	-	18	8.0		
0.4 HP (0.3 kW)	74	3.1	341	38.5	BG10-../D06LA4	22.04	299	1330	418	1860	29	13		
0.4 HP (0.3 kW)	72	1.1	350	39.5	BG06-../D05LA4	22.71	182	810	-	-	18	8.0		
0.4 HP (0.3 kW)	67	2.8	376	42.5	BG10-../D06LA4	24.42	317	1410	443	1970	29	13		
0.4 HP (0.3 kW)	64	1.0	394	44.5	BG06-../D05LA4	25.48	191	850	-	-	18	8.0		
0.4 HP (0.3 kW)	62	2.6	407	46	BG10-../D06LA4	26.26	328	1460	450	2000	29	13		
0.4 HP (0.3 kW)	60	3.2	420	47.5	BG15-../D06LA4	27.08	674	3000	1349	6000	29	13		
0.4 HP (0.3 kW)	59	0.93	429	48.5	BG06-../D05LA4	27.80	189	840	-	-	18	8.0		
0.4 HP (0.3 kW)	56	2.4	451	51	BG10-../D06LA4	29.09	346	1540	483	2150	29	13		
0.4 HP (0.3 kW)	54	2.8	469	53	BG15-../D06LA4	30.08	674	3000	1349	6000	29	13		
0.4 HP (0.3 kW)	52	2.2	487	55	BG10-../D06LA4	31.52	360	1600	495	2200	29	13		
0.4 HP (0.3 kW)	51	0.8	496	56	BG06-../D05LA4	32.22	200	890	-	-	18	8.0		
0.4 HP (0.3 kW)	47.5	2.5	531	60	BG15-../D06LA4	34.20	674	3000	1349	6000	29	13		
0.4 HP (0.3 kW)	46.5	1.95	540	61	BG10-../D06LA4	34.92	380	1690	528	2350	29	13		
0.4 HP (0.3 kW)	44	3.1	575	65	BG20-../D06LA4	37.02	967	4300	-	-	35	16		
0.4 HP (0.3 kW)	43	2.3	584	66	BG15-../D06LA4	37.90	674	3000	1349	6000	29	13		
0.4 HP (0.3 kW)	41	1.75	611	69	BG10-../D06LA4	39.70	400	1780	551	2450	29	13		
0.4 HP (0.3 kW)	39	2.7	646	73	BG20-../D06LA4	41.76	1012	4500	-	-	35	16		
0.4 HP (0.3 kW)	37	1.55	682	77	BG10-../D06LA4	43.99	423	1880	585	2600	29	13		
0.4 HP (0.3 kW)	35	1.5	717	81	BG10-../D06LA4	46.55	432	1920	596	2650	29	13		
0.4 HP (0.3 kW)	35	2.5	717	81	BG20-../D06LA4	46.38	1057	4700	-	-	35	16		
0.4 HP (0.3 kW)	34	2.4	743	84	BG20-../D06LA4	47.92	1068	4750	-	-	35	16		
0.4 HP (0.3 kW)	31.5	1.35	797	90	BG10-../D06LA4	51.57	450	2000	629	2800	29	13		
0.4 HP (0.3 kW)	31	3.3	814	92	BG30-../D06LA4	52.44	1349	6000	-	-	44	20		
0.4 HP (0.3 kW)	30.5	2.2	823	93	BG20-../D06LA4	53.22	1113	4950	-	-	35	16		
0.4 HP (0.3 kW)	28.5	1.2	885	100	BG10-../D06LA4	57.48	450	2000	629	2800	29	13		

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.4 HP (0.3 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.4 HP (0.3 kW)	28	2.9	903	102	BG30-../D06LA4	58.18	1349	6000	-	-	44	20
0.4 HP (0.3 kW)	27.5	1.9	920	104	BG20-../D06LA4	59.07	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	27	2.8	938	106	BG30-../D06LA4	60.79	1349	6000	-	-	44	20
0.4 HP (0.3 kW)	25.5	1.05	991	112	BG10-../D06LA4	63.69	450	2000	629	2800	29	13
0.4 HP (0.3 kW)	25	1.05	1009	114	BG10-../D06LA4	66.00	450	2000	629	2800	29	13
0.4 HP (0.3 kW)	25	1.75	1009	114	BG20-../D06LA4	65.62	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	24.5	2.6	1027	116	BG30-../D06LA4	67.44	1349	6000	-	-	44	20
0.4 HP (0.3 kW)	24	1.7	1053	119	BG20Z-../D06LA4	67.53	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	22.5	0.94	1124	127	BG10-../D06LA4	73.13	450	2000	629	2800	29	13
0.4 HP (0.3 kW)	22.5	2.4	1124	127	BG30Z-../D06LA4	73.51	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	22	1.55	1151	130	BG20Z-../D06LA4	75.00	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	22	3.3	1151	130	BG40Z-../D06LA4	75.19	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	21	0.88	1204	136	BG10Z-../D06LA4	77.40	450	2000	629	2800	31	14
0.4 HP (0.3 kW)	21	1.45	1204	136	BG20Z-../D06LA4	78.60	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	20	2.1	1266	143	BG30Z-../D06LA4	81.55	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	20	3.0	1266	143	BG40Z-../D06LA4	82.00	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	19	0.8	1328	150	BG10Z-../D06LA4	85.76	450	2000	629	2800	31	14
0.4 HP (0.3 kW)	19	1.35	1328	150	BG20Z-../D06LA4	87.30	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	19	2.0	1328	150	BG30Z-../D06LA4	86.13	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	18	2.7	1407	159	BG40Z-../D06LA4	91.02	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	17.5	1.25	1443	163	BG20Z-../D06LA4	94.27	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	17	1.8	1487	168	BG30Z-../D06LA4	95.55	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	17	2.5	1487	168	BG40Z-../D06LA4	96.86	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	15.5	1.1	1629	184	BG20Z-../D06LA4	104.7	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	15.5	2.3	1629	184	BG40Z-../D06LA4	107.5	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	15	1.55	1690	191	BG30Z-../D06LA4	109.6	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	14.5	1.0	1744	197	BG20Z-../D06LA4	112.8	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	13.5	2.0	1859	210	BG40Z-../D06LA4	121.3	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	13	0.91	1947	220	BG20Z-../D06LA4	125.3	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	13	1.35	1947	220	BG30Z-../D06LA4	128.5	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	13	2.9	1947	220	BG50Z-../D06LA4	128.9	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	12.5	1.9	1991	225	BG40Z-../D06LA4	134.6	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	11.5	0.82	2168	245	BG20Z-../D06LA4	141.3	1124	5000	-	-	35	16
0.4 HP (0.3 kW)	11.5	1.2	2168	245	BG30Z-../D06LA4	142.5	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	11.5	1.75	2168	245	BG40Z-../D06LA4	141.4	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	11.5	2.6	2168	245	BG50Z-../D06LA4	142.9	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	11	1.15	2301	260	BG30Z-../D06LA4	151.5	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	10.5	1.55	2390	270	BG40Z-../D06LA4	156.9	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	9.9	2.2	2522	285	BG50Z-../D06LA4	164.9	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	9.8	1.45	2567	290	BG40Z-../D06LA4	166.1	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	9.7	1.0	2611	295	BG30Z-../D06LA4	168.1	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	8.9	0.94	2832	320	BG30Z-../D06LA4	182.9	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	8.9	1.95	2832	320	BG50Z-../D06LA4	182.8	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	8.8	1.3	2876	325	BG40Z-../D06LA4	184.4	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	8.2	1.25	3054	345	BG40Z-../D06LA4	199.9	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	8.0	0.85	3142	355	BG30Z-../D06LA4	202.9	1349	6000	-	-	49	22
0.4 HP (0.3 kW)	8.0	1.75	3142	355	BG50Z-../D06LA4	204.7	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	7.4	1.1	3408	385	BG40Z-../D06LA4	221.9	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	7.2	1.6	3496	395	BG50Z-../D06LA4	226.9	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	6.6	0.99	3806	430	BG40Z-../D06LA4	246.5	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	6.3	1.4	3983	450	BG50Z-../D06LA4	258.6	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	6.0	0.89	4204	475	BG40Z-../D06LA4	273.6	1574	7000	-	-	84	38
0.4 HP (0.3 kW)	5.7	1.15	3629	410	BG40G10-../D06LA4	288.6	1574	7000	-	-	95	43
0.4 HP (0.3 kW)	5.7	1.25	4425	500	BG50Z-../D06LA4	286.7	2248	10000	-	-	104	47
0.4 HP (0.3 kW)	5.3	3.2	3629	410	BG60G20-../D06LA4	306.1	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	4.9	3.0	3894	440	BG60G20-../D06LA4	334.3	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	4.7	1.35	4514	510	BG50G10-../D06LA4	351.7	2248	10000	-	-	112	51
0.4 HP (0.3 kW)	4.6	0.89	4602	520	BG40G10-../D06LA4	353.5	1574	7000	-	-	95	43

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-gear motors

Selection helical-gear motors

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.4 HP (0.3 kW)	4.4	2.6	4381	495	BG60G20-../D06LA4	370.5	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	3.8	2.2	5133	580	BG60G20-../D06LA4	437.3	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	3.7	1.05	5841	660	BG50G10-../D06LA4	446.5	2248	10000	-	-	112	51
0.4 HP (0.3 kW)	3.3	1.85	6284	710	BG60G20-../D06LA4	504.9	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	3.1	0.86	7081	800	BG50G10-../D06LA4	531.5	2248	10000	-	-	112	51
0.4 HP (0.3 kW)	2.9	1.6	7258	820	BG60G20-../D06LA4	559.5	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	2.9	3.0	7435	840	BG70G20-../D06LA4	577.3	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	2.5	1.35	8674	980	BG60G20-../D06LA4	651.3	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	2.5	2.6	8585	970	BG70G20-../D06LA4	665.8	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	2.1	1.1	10267	1160	BG60G20-../D06LA4	804.5	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	2.1	2.2	10267	1160	BG70G20-../D06LA4	790.2	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	1.9	1.0	11329	1280	BG60G20-../D06LA4	891.5	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	1.9	1.9	11506	1300	BG70G20-../D06LA4	877.6	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	1.6	0.84	13719	1550	BG60G20-../D06LA4	1051	3597	16000	-	-	220	100
0.4 HP (0.3 kW)	1.6	1.6	13896	1570	BG70G20-../D06LA4	1035	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	1.4	1.4	16020	1810	BG70G20-../D06LA4	1193	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	1.2	1.2	18587	2100	BG70G20-../D06LA4	1389	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	1.1	1.05	20799	2350	BG70G20-../D06LA4	1543	4496	20000	-	-	287	130
0.4 HP (0.3 kW)	1.0	0.96	23012	2600	BG70G20-../D06LA4	1666	4496	20000	-	-	287	130

0.5 HP (0.37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.5 HP (0.37 kW)	620	1.6	50	5.6	BG05-../D07LA4	2.64	94	420	-	-	19	8.5
0.5 HP (0.37 kW)	480	1.35	65	7.3	BG05-../D07LA4	3.38	103	460	-	-	19	8.5
0.5 HP (0.37 kW)	430	2.4	73	8.2	BG06-../D07LA4	3.78	117	520	-	-	21	9.5
0.5 HP (0.37 kW)	360	2.2	87	9.8	BG06-../D07LA4	4.54	119	530	-	-	21	9.5
0.5 HP (0.37 kW)	355	1.2	88	9.9	BG05-../D07LA4	4.59	110	490	-	-	19	8.5
0.5 HP (0.37 kW)	300	1.2	104	11.7	BG05-../D07LA4	5.46	110	490	-	-	19	8.5
0.5 HP (0.37 kW)	275	1.9	113	12.8	BG06-../D07LA4	5.96	128	570	-	-	21	9.5
0.5 HP (0.37 kW)	270	1.3	115	13	BG05-../D07LA4	6.09	108	480	-	-	19	8.5
0.5 HP (0.37 kW)	250	1.15	125	14.1	BG05-../D07LA4	6.60	115	510	-	-	19	8.5
0.5 HP (0.37 kW)	245	1.2	127	14.4	BG05-../D07LA4	6.64	112	500	-	-	19	8.5
0.5 HP (0.37 kW)	235	1.75	133	15	BG06-../D07LA4	7.01	130	580	-	-	21	9.5
0.5 HP (0.37 kW)	210	1.05	149	16.8	BG05-../D07LA4	7.80	119	530	-	-	19	8.5
0.5 HP (0.37 kW)	199	1.0	157	17.7	BG05-../D07LA4	8.15	115	510	-	-	19	8.5
0.5 HP (0.37 kW)	194	1.55	161	18.2	BG06-../D07LA4	8.39	135	600	-	-	21	9.5
0.5 HP (0.37 kW)	191	1.05	164	18.5	BG05-../D07LA4	8.51	124	550	-	-	19	8.5
0.5 HP (0.37 kW)	173	1.5	177	20	BG06-../D07LA4	9.38	144	640	-	-	21	9.5
0.5 HP (0.37 kW)	159	1.4	195	22	BG06-../D07LA4	10.24	144	640	-	-	21	9.5
0.5 HP (0.37 kW)	153	0.87	204	23	BG05-../D07LA4	10.59	133	590	-	-	19	8.5
0.5 HP (0.37 kW)	144	1.3	217	24.5	BG06-../D07LA4	11.28	151	670	-	-	21	9.5
0.5 HP (0.37 kW)	141	0.84	221	25	BG05-../D07LA4	11.55	135	600	-	-	19	8.5
0.5 HP (0.37 kW)	135	0.81	230	26	BG05-../D07LA4	12.05	115	510	-	-	19	8.5
0.5 HP (0.37 kW)	132	1.25	235	26.5	BG06-../D07LA4	12.30	151	670	-	-	21	9.5
0.5 HP (0.37 kW)	129	0.81	239	27	BG05-../D07LA4	12.60	137	610	-	-	19	8.5
0.5 HP (0.37 kW)	125	1.2	248	28	BG06-../D07LA4	12.98	135	600	-	-	21	9.5
0.5 HP (0.37 kW)	110	1.05	283	32	BG06-../D07LA4	14.78	164	730	-	-	21	9.5
0.5 HP (0.37 kW)	101	1.0	305	34.5	BG06-../D07LA4	16.13	166	740	-	-	21	9.5
0.5 HP (0.37 kW)	94	1.0	332	37.5	BG06-../D07LA4	17.40	171	760	-	-	21	9.5
0.5 HP (0.37 kW)	88	3.0	354	40	BG10-../D07LA4	18.51	272	1210	380	1690	29	13

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.5 HP (0.37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.5 HP (0.37 kW)	86	0.98	363	41	BG06-../D07LA4	18.98	173	770	-	-	21	9.5
0.5 HP (0.37 kW)	79	2.7	394	44.5	BG10-../D07LA4	20.51	290	1290	405	1800	29	13
0.5 HP (0.37 kW)	78	0.89	398	45	BG06-../D07LA4	20.82	180	800	-	-	21	9.5
0.5 HP (0.37 kW)	74	2.5	420	47.5	BG10-../D07LA4	22.04	299	1330	418	1860	29	13
0.5 HP (0.37 kW)	72	0.88	434	49	BG06-../D07LA4	22.71	182	810	-	-	21	9.5
0.5 HP (0.37 kW)	67	2.3	460	52	BG10-../D07LA4	24.42	317	1410	443	1970	29	13
0.5 HP (0.37 kW)	64	0.82	487	55	BG06-../D07LA4	25.48	191	850	-	-	21	9.5
0.5 HP (0.37 kW)	62	2.1	496	56	BG10-../D07LA4	26.26	328	1460	450	2000	29	13
0.5 HP (0.37 kW)	60	2.6	513	58	BG15-../D07LA4	27.08	674	3000	1349	6000	29	13
0.5 HP (0.37 kW)	56	1.9	558	63	BG10-../D07LA4	29.09	346	1540	483	2150	29	13
0.5 HP (0.37 kW)	54	2.3	575	65	BG15-../D07LA4	30.08	674	3000	1349	6000	29	13
0.5 HP (0.37 kW)	53	3.0	584	66	BG20-../D07LA4	30.94	899	4000	-	-	35	16
0.5 HP (0.37 kW)	52	1.8	593	67	BG10-../D07LA4	31.52	360	1600	495	2200	29	13
0.5 HP (0.37 kW)	49	2.8	637	72	BG20-../D07LA4	33.33	922	4100	-	-	35	16
0.5 HP (0.37 kW)	47.5	2.0	655	74	BG15-../D07LA4	34.20	674	3000	1349	6000	29	13
0.5 HP (0.37 kW)	46.5	1.6	664	75	BG10-../D07LA4	34.92	380	1690	528	2350	29	13
0.5 HP (0.37 kW)	44	2.5	708	80	BG20-../D07LA4	37.02	967	4300	-	-	35	16
0.5 HP (0.37 kW)	43	1.85	726	82	BG15-../D07LA4	37.90	674	3000	1349	6000	29	13
0.5 HP (0.37 kW)	41	1.4	761	86	BG10-../D07LA4	39.70	400	1780	551	2450	29	13
0.5 HP (0.37 kW)	39	2.2	797	90	BG20-../D07LA4	41.76	1012	4500	-	-	35	16
0.5 HP (0.37 kW)	38.5	3.3	805	91	BG30-../D07LA4	42.46	1326	5900	-	-	44	20
0.5 HP (0.37 kW)	37	1.25	841	95	BG10-../D07LA4	43.99	423	1880	585	2600	29	13
0.5 HP (0.37 kW)	35	1.2	885	100	BG10-../D07LA4	46.55	432	1920	596	2650	29	13
0.5 HP (0.37 kW)	35	2.0	885	100	BG20-../D07LA4	46.38	1057	4700	-	-	35	16
0.5 HP (0.37 kW)	34.5	2.9	903	102	BG30-../D07LA4	47.11	1349	6000	-	-	44	20
0.5 HP (0.37 kW)	34	1.95	912	103	BG20-../D07LA4	47.92	1068	4750	-	-	35	16
0.5 HP (0.37 kW)	31.5	1.05	991	112	BG10-../D07LA4	51.57	450	2000	629	2800	29	13
0.5 HP (0.37 kW)	31	2.7	1000	113	BG30-../D07LA4	52.44	1349	6000	-	-	44	20
0.5 HP (0.37 kW)	30.5	1.75	1018	115	BG20-../D07LA4	53.22	1113	4950	-	-	35	16
0.5 HP (0.37 kW)	28.5	0.98	1089	123	BG10-../D07LA4	57.48	450	2000	629	2800	29	13
0.5 HP (0.37 kW)	28	2.4	1115	126	BG30-../D07LA4	58.18	1349	6000	-	-	44	20
0.5 HP (0.37 kW)	27.5	1.55	1133	128	BG20-../D07LA4	59.07	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	27	2.3	1151	130	BG30-../D07LA4	60.79	1349	6000	-	-	44	20
0.5 HP (0.37 kW)	25.5	0.87	1221	138	BG10-../D07LA4	63.69	450	2000	629	2800	29	13
0.5 HP (0.37 kW)	25	0.85	1248	141	BG10-../D07LA4	66.00	450	2000	629	2800	29	13
0.5 HP (0.37 kW)	25	1.4	1248	141	BG20-../D07LA4	65.62	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	24.5	2.1	1275	144	BG30-../D07LA4	67.44	1349	6000	-	-	44	20
0.5 HP (0.37 kW)	24	1.35	1301	147	BG20Z-../D07LA4	67.53	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	24	2.9	1301	147	BG40Z-../D07LA4	67.74	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	22.5	1.9	1390	157	BG30Z-../D07LA4	73.51	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	22	1.25	1416	160	BG20Z-../D07LA4	75.00	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	22	2.7	1416	160	BG40Z-../D07LA4	75.19	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	21	1.2	1487	168	BG20Z-../D07LA4	78.60	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	20	1.7	1558	176	BG30Z-../D07LA4	81.55	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	20	2.4	1558	176	BG40Z-../D07LA4	82.00	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	19	1.1	1637	185	BG20Z-../D07LA4	87.30	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	19	1.6	1637	185	BG30Z-../D07LA4	86.13	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	18	2.2	1735	196	BG40Z-../D07LA4	91.02	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	17.5	1.0	1770	200	BG20Z-../D07LA4	94.27	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	17	1.45	1814	205	BG30Z-../D07LA4	95.55	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	17	2.1	1814	205	BG40Z-../D07LA4	96.86	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	17	3.1	1814	205	BG50Z-../D07LA4	95.58	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	15.5	0.89	1991	225	BG20Z-../D07LA4	104.7	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	15.5	1.9	1991	225	BG40Z-../D07LA4	107.5	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	15.5	2.8	1991	225	BG50Z-../D07LA4	106.0	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	15	1.3	2080	235	BG30Z-../D07LA4	109.6	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	14.5	0.83	2124	240	BG20Z-../D07LA4	112.8	1124	5000	-	-	35	16
0.5 HP (0.37 kW)	13.5	1.65	2301	260	BG40Z-../D07LA4	121.3	1574	7000	-	-	84	38

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.5 HP (0.37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Reinforced Bearings		Weight	
			lbf-in	Nm			Standard Bearings	N	lbf	N	lb	kg
[kW]	RPM	SF					lb.f					
0.5 HP (0.37 kW)	13	1.1	2390	270	BG30Z-../D07LA4	128.5	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	13	2.3	2390	270	BG50Z-../D07LA4	128.9	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	12.5	1.5	2478	280	BG40Z-../D07LA4	134.6	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	11.5	0.98	2699	305	BG30Z-../D07LA4	142.5	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	11.5	1.4	2699	305	BG40Z-../D07LA4	141.4	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	11.5	2.1	2699	305	BG50Z-../D07LA4	142.9	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	11	0.94	2832	320	BG30Z-../D07LA4	151.5	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	10.5	1.25	2965	335	BG40Z-../D07LA4	156.9	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	9.9	1.75	3142	355	BG50Z-../D07LA4	164.9	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	9.8	1.2	3186	360	BG40Z-../D07LA4	166.1	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	9.7	0.83	3186	360	BG30Z-../D07LA4	168.1	1349	6000	-	-	49	22
0.5 HP (0.37 kW)	8.9	1.6	3496	395	BG50Z-../D07LA4	182.8	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	8.8	1.05	3540	400	BG40Z-../D07LA4	184.4	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	8.2	0.99	3806	430	BG40Z-../D07LA4	199.9	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	8.0	1.45	3894	440	BG50Z-../D07LA4	204.7	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	7.4	0.89	4204	475	BG40Z-../D07LA4	221.9	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	7.2	1.3	4337	490	BG50Z-../D07LA4	226.9	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	6.6	0.8	4691	530	BG40Z-../D07LA4	246.5	1574	7000	-	-	84	38
0.5 HP (0.37 kW)	6.3	1.15	4956	560	BG50Z-../D07LA4	258.6	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	5.9	2.7	4248	480	BG60G20-../D07LA4	276.2	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	5.7	0.89	4602	520	BG40G10-../D07LA4	288.6	1574	7000	-	-	95	43
0.5 HP (0.37 kW)	5.7	1.05	5399	610	BG50Z-../D07LA4	286.7	2248	10000	-	-	104	47
0.5 HP (0.37 kW)	5.3	2.5	4691	530	BG60G20-../D07LA4	306.1	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	4.9	2.2	5133	580	BG60G20-../D07LA4	334.3	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	4.7	1.05	5753	650	BG50G10-../D07LA4	351.7	2248	10000	-	-	112	51
0.5 HP (0.37 kW)	4.4	2.0	5664	640	BG60G20-../D07LA4	370.5	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	3.9	3.2	6904	780	BG70G20-../D07LA4	417.8	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	3.8	1.7	6727	760	BG60G20-../D07LA4	437.3	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	3.7	0.82	7435	840	BG50G10-../D07LA4	446.5	2248	10000	-	-	112	51
0.5 HP (0.37 kW)	3.3	1.4	8143	920	BG60G20-../D07LA4	504.9	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	3.3	2.7	8143	920	BG70G20-../D07LA4	495.9	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	2.9	1.25	9293	1050	BG60G20-../D07LA4	559.5	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	2.9	2.3	9470	1070	BG70G20-../D07LA4	577.3	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	2.5	1.05	10975	1240	BG60G20-../D07LA4	651.3	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	2.5	2.0	10975	1240	BG70G20-../D07LA4	665.8	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	2.1	0.88	13011	1470	BG60G20-../D07LA4	804.5	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	2.1	1.7	13099	1480	BG70G20-../D07LA4	790.2	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	1.9	0.8	14427	1630	BG60G20-../D07LA4	891.5	3597	16000	-	-	220	100
0.5 HP (0.37 kW)	1.9	1.5	14604	1650	BG70G20-../D07LA4	877.6	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	1.6	1.25	17524	1980	BG70G20-../D07LA4	1035	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	1.4	1.1	19914	2250	BG70G20-../D07LA4	1193	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	1.2	0.93	23897	2700	BG70G20-../D07LA4	1389	4496	20000	-	-	287	130
0.5 HP (0.37 kW)	1.1	0.85	26110	2950	BG70G20-../D07LA4	1543	4496	20000	-	-	287	130

0.75 HP (0.55 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Reinforced Bearings		Weight	
			lbf-in	Nm			Standard Bearings	N	lbf	N	lb	kg
[kW]	RPM	SF					lb.f					
0.75 HP (0.55 kW)	600	2.1	77	8.7	BG06-../D08MA4	2.82	106	470	-	-	35	16
0.75 HP (0.55 kW)	445	1.7	104	11.8	BG06-../D08MA4	3.78	117	520	-	-	35	16
0.75 HP (0.55 kW)	375	1.55	124	14	BG06-../D08MA4	4.54	119	530	-	-	35	16
0.75 HP (0.55 kW)	285	1.3	163	18.4	BG06-../D08MA4	5.96	128	570	-	-	35	16

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.75 HP (0.55 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings	Reinforced Bearings			lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.75 HP (0.55 kW)	240	1.2	190	21.5	BG06-../D08MA4	7.01	130	580	-	-	35	16
0.75 HP (0.55 kW)	220	1.2	208	23.5	BG06-../D08MA4	7.65	130	580	-	-	35	16
0.75 HP (0.55 kW)	205	1.1	226	25.5	BG06-../D08MA4	8.39	135	600	-	-	35	16
0.75 HP (0.55 kW)	181	3.3	257	29	BG10-../D08MA4	9.33	214	950	299	1330	35	16
0.75 HP (0.55 kW)	180	1.05	257	29	BG06-../D08MA4	9.38	144	640	-	-	35	16
0.75 HP (0.55 kW)	165	0.98	279	31.5	BG06-../D08MA4	10.24	144	640	-	-	35	16
0.75 HP (0.55 kW)	163	3.1	283	32	BG10-../D08MA4	10.34	225	1000	315	1400	35	16
0.75 HP (0.55 kW)	149	0.91	310	35	BG06-../D08MA4	11.28	151	670	-	-	35	16
0.75 HP (0.55 kW)	141	2.8	327	37	BG10-../D08MA4	11.92	232	1030	324	1440	35	16
0.75 HP (0.55 kW)	137	0.87	336	38	BG06-../D08MA4	12.30	151	670	-	-	35	16
0.75 HP (0.55 kW)	130	0.83	354	40	BG06-../D08MA4	12.98	135	600	-	-	35	16
0.75 HP (0.55 kW)	128	2.7	363	41	BG10-../D08MA4	13.21	241	1070	335	1490	35	16
0.75 HP (0.55 kW)	116	2.5	398	45	BG10-../D08MA4	14.58	247	1100	346	1540	35	16
0.75 HP (0.55 kW)	105	2.3	443	50	BG10-../D08MA4	16.15	256	1140	357	1590	35	16
0.75 HP (0.55 kW)	91	2.1	504	57	BG10-../D08MA4	18.51	272	1210	380	1690	35	16
0.75 HP (0.55 kW)	85	3.2	540	61	BG20-../D08MA4	19.95	753	3350	-	-	42	19
0.75 HP (0.55 kW)	82	1.9	566	64	BG10-../D08MA4	20.51	290	1290	405	1800	35	16
0.75 HP (0.55 kW)	77	1.75	602	68	BG10-../D08MA4	22.04	299	1330	418	1860	35	16
0.75 HP (0.55 kW)	76	2.9	611	69	BG20-../D08MA4	22.16	787	3500	-	-	42	19
0.75 HP (0.55 kW)	73	2.8	628	71	BG20-../D08MA4	23.22	798	3550	-	-	42	19
0.75 HP (0.55 kW)	69	1.6	673	76	BG10-../D08MA4	24.42	317	1410	443	1970	35	16
0.75 HP (0.55 kW)	66	2.5	699	79	BG20-../D08MA4	25.79	832	3700	-	-	42	19
0.75 HP (0.55 kW)	64	1.45	726	82	BG10-../D08MA4	26.26	328	1460	450	2000	35	16
0.75 HP (0.55 kW)	63	1.8	735	83	BG15-../D08MA4	27.08	674	3000	1349	6000	35	16
0.75 HP (0.55 kW)	61	2.3	761	86	BG20-../D08MA4	27.85	854	3800	-	-	42	19
0.75 HP (0.55 kW)	58	1.35	797	90	BG10-../D08MA4	29.09	346	1540	483	2150	35	16
0.75 HP (0.55 kW)	57	3.3	814	92	BG30-../D08MA4	29.83	1169	5200	-	-	51	23
0.75 HP (0.55 kW)	56	1.6	823	93	BG15-../D08MA4	30.08	674	3000	1349	6000	35	16
0.75 HP (0.55 kW)	55	2.1	841	95	BG20-../D08MA4	30.94	899	4000	-	-	42	19
0.75 HP (0.55 kW)	54	1.25	859	97	BG10-../D08MA4	31.52	360	1600	495	2200	35	16
0.75 HP (0.55 kW)	51	1.95	903	102	BG20-../D08MA4	33.33	922	4100	-	-	42	19
0.75 HP (0.55 kW)	51	2.9	903	102	BG30-../D08MA4	33.09	1214	5400	-	-	51	23
0.75 HP (0.55 kW)	49.5	1.4	938	106	BG15-../D08MA4	34.20	674	3000	1349	6000	35	16
0.75 HP (0.55 kW)	48.5	1.1	956	108	BG10-../D08MA4	34.92	380	1690	528	2350	35	16
0.75 HP (0.55 kW)	48	2.8	965	109	BG30-../D08MA4	35.17	1236	5500	-	-	51	23
0.75 HP (0.55 kW)	45.5	1.75	1018	115	BG20-../D08MA4	37.02	967	4300	-	-	42	19
0.75 HP (0.55 kW)	44.5	1.25	1044	118	BG15-../D08MA4	37.90	674	3000	1349	6000	35	16
0.75 HP (0.55 kW)	43.5	2.5	1062	120	BG30-../D08MA4	39.02	1304	5800	-	-	51	23
0.75 HP (0.55 kW)	42.5	0.98	1089	123	BG10-../D08MA4	39.70	400	1780	551	2450	35	16
0.75 HP (0.55 kW)	40.5	1.55	1142	129	BG20-../D08MA4	41.76	1012	4500	-	-	42	19
0.75 HP (0.55 kW)	40	2.3	1159	131	BG30-../D08MA4	42.46	1326	5900	-	-	51	23
0.75 HP (0.55 kW)	38.5	0.88	1204	136	BG10-../D08MA4	43.99	423	1880	585	2600	35	16
0.75 HP (0.55 kW)	38	3.1	1221	138	BG40-../D08MA4	44.62	1574	7000	-	-	84	38
0.75 HP (0.55 kW)	36.5	0.84	1266	143	BG10-../D08MA4	46.55	432	1920	596	2650	35	16
0.75 HP (0.55 kW)	36.5	1.4	1266	143	BG20-../D08MA4	46.38	1057	4700	-	-	42	19
0.75 HP (0.55 kW)	36	2.1	1283	145	BG30-../D08MA4	47.11	1349	6000	-	-	51	23
0.75 HP (0.55 kW)	35.5	1.35	1301	147	BG20-../D08MA4	47.92	1068	4750	-	-	42	19
0.75 HP (0.55 kW)	35	2.8	1328	150	BG40-../D08MA4	48.36	1574	7000	-	-	84	38
0.75 HP (0.55 kW)	32.5	1.85	1425	161	BG30-../D08MA4	52.44	1349	6000	-	-	51	23
0.75 HP (0.55 kW)	32	1.2	1452	164	BG20-../D08MA4	53.22	1113	4950	-	-	42	19
0.75 HP (0.55 kW)	31.5	2.6	1469	166	BG40-../D08MA4	53.69	1574	7000	-	-	84	38
0.75 HP (0.55 kW)	29	1.65	1602	181	BG30-../D08MA4	58.18	1349	6000	-	-	51	23
0.75 HP (0.55 kW)	28.5	1.1	1629	184	BG20-../D08MA4	59.07	1124	5000	-	-	42	19
0.75 HP (0.55 kW)	28.5	2.3	1629	184	BG40-../D08MA4	59.64	1574	7000	-	-	84	38
0.75 HP (0.55 kW)	28	1.6	1655	187	BG30-../D08MA4	60.79	1349	6000	-	-	51	23
0.75 HP (0.55 kW)	26	1.0	1770	200	BG20-../D08MA4	65.62	1124	5000	-	-	42	19
0.75 HP (0.55 kW)	26	3.2	1770	200	BG50-../D08MA4	65.86	2248	10000	-	-	101	46
0.75 HP (0.55 kW)	25.5	2.1	1814	205	BG40-../D08MA4	66.20	1574	7000	-	-	84	38

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

0.75 HP (0.55 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
0.75 HP (0.55 kW)	25	0.95	1859	210	BG20Z-../D08MA4	67.53	1124	5000	-	-	-	-	44	20
0.75 HP (0.55 kW)	25	1.45	1859	210	BG30-../D08MA4	67.44	1349	6000	-	-	-	-	51	23
0.75 HP (0.55 kW)	25	2.0	1859	210	BG40Z-../D08MA4	67.74	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	23.5	2.9	1947	220	BG50Z-../D08MA4	71.97	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	23	1.35	1991	225	BG30Z-../D08MA4	73.51	1349	6000	-	-	-	-	57	26
0.75 HP (0.55 kW)	22.5	0.87	2036	230	BG20Z-../D08MA4	75.00	1124	5000	-	-	-	-	44	20
0.75 HP (0.55 kW)	22.5	1.85	2036	230	BG40Z-../D08MA4	75.19	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	21.5	0.83	2124	240	BG20Z-../D08MA4	78.60	1124	5000	-	-	-	-	44	20
0.75 HP (0.55 kW)	21.5	2.6	2124	240	BG50Z-../D08MA4	79.78	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	21	1.2	2213	250	BG30Z-../D08MA4	81.55	1349	6000	-	-	-	-	57	26
0.75 HP (0.55 kW)	20.5	1.65	2257	255	BG40Z-../D08MA4	82.00	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	20	1.15	2301	260	BG30Z-../D08MA4	86.13	1349	6000	-	-	-	-	57	26
0.75 HP (0.55 kW)	18.5	1.5	2478	280	BG40Z-../D08MA4	91.02	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	18	1.05	2567	290	BG30Z-../D08MA4	95.55	1349	6000	-	-	-	-	57	26
0.75 HP (0.55 kW)	18	2.2	2567	290	BG50Z-../D08MA4	95.58	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	17.5	1.4	2655	300	BG40Z-../D08MA4	96.86	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	16	1.3	2876	325	BG40Z-../D08MA4	107.5	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	16	1.95	2876	325	BG50Z-../D08MA4	106.0	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	15.5	0.9	2965	335	BG30Z-../D08MA4	109.6	1349	6000	-	-	-	-	57	26
0.75 HP (0.55 kW)	14.5	3.3	3186	360	BG60Z-../D08MA4	119.2	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	14	0.8	3319	375	BG30Z-../D08MA4	121.6	1349	6000	-	-	-	-	57	26
0.75 HP (0.55 kW)	14	1.15	3319	375	BG40Z-../D08MA4	121.3	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	13.5	1.65	3408	385	BG50Z-../D08MA4	128.9	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	13	3.0	3540	400	BG60Z-../D08MA4	132.1	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	12.5	1.0	3717	420	BG40Z-../D08MA4	134.6	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	12	0.98	3850	435	BG40Z-../D08MA4	141.4	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	12	1.45	3850	435	BG50Z-../D08MA4	142.9	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	11	0.89	4204	475	BG40Z-../D08MA4	156.9	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	11	2.5	4204	475	BG60Z-../D08MA4	158.0	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	10.5	0.85	4425	500	BG40Z-../D08MA4	166.1	1574	7000	-	-	-	-	93	42
0.75 HP (0.55 kW)	10.5	1.25	4425	500	BG50Z-../D08MA4	164.9	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	9.6	2.2	4779	540	BG60Z-../D08MA4	175.1	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	9.2	1.1	5045	570	BG50Z-../D08MA4	182.8	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	8.3	1.0	5576	630	BG50Z-../D08MA4	204.7	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	8.3	1.9	5576	630	BG60Z-../D08MA4	204.6	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	7.5	0.9	6196	700	BG50Z-../D08MA4	226.9	2248	10000	-	-	-	-	112	51
0.75 HP (0.55 kW)	7.5	1.7	6196	700	BG60Z-../D08MA4	226.7	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	6.8	1.55	6815	770	BG60Z-../D08MA4	247.7	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	6.8	3.0	6815	770	BG70Z-../D08MA4	249.8	4496	20000	-	-	-	-	300	136
0.75 HP (0.55 kW)	6.2	1.45	7435	840	BG60Z-../D08MA4	274.5	3597	16000	-	-	-	-	212	96
0.75 HP (0.55 kW)	6.1	1.75	6550	740	BG60G20-../D08MA4	276.2	3597	16000	-	-	-	-	227	103
0.75 HP (0.55 kW)	5.9	0.86	7081	800	BG50G10-../D08MA4	287.1	2248	10000	-	-	-	-	121	55
0.75 HP (0.55 kW)	5.5	1.6	7258	820	BG60G20-../D08MA4	306.1	3597	16000	-	-	-	-	227	103
0.75 HP (0.55 kW)	5.2	2.9	7700	870	BG70G20-../D08MA4	328.4	4496	20000	-	-	-	-	293	133
0.75 HP (0.55 kW)	5.1	1.5	7789	880	BG60G20-../D08MA4	334.3	3597	16000	-	-	-	-	227	103
0.75 HP (0.55 kW)	4.6	1.35	8674	980	BG60G20-../D08MA4	370.5	3597	16000	-	-	-	-	227	103
0.75 HP (0.55 kW)	4.4	2.4	9205	1040	BG70G20-../D08MA4	387.6	4496	20000	-	-	-	-	293	133
0.75 HP (0.55 kW)	4.1	2.2	10178	1150	BG70G20-../D08MA4	417.8	4496	20000	-	-	-	-	293	133
0.75 HP (0.55 kW)	3.9	1.1	10444	1180	BG60G20-../D08MA4	437.3	3597	16000	-	-	-	-	227	103
0.75 HP (0.55 kW)	3.4	0.94	12303	1390	BG60G20-../D08MA4	504.9	3597	16000	-	-	-	-	227	103
0.75 HP (0.55 kW)	3.4	1.8	12303	1390	BG70G20-../D08MA4	495.9	4496	20000	-	-	-	-	293	133
0.75 HP (0.55 kW)	3.1	0.86	13453	1520	BG60G20-../D08MA4	559.5	3597	16000	-	-	-	-	227	103
0.75 HP (0.55 kW)	3.0	1.55	14161	1600	BG70G20-../D08MA4	577.3	4496	20000	-	-	-	-	293	133
0.75 HP (0.55 kW)	2.6	1.35	16374	1850	BG70G20-../D08MA4	665.8	4496	20000	-	-	-	-	293	133
0.75 HP (0.55 kW)	2.6	3.0	13630	1540	BG80G40-../D08MA4	657.8	5845	26000	-	-	-	-	474	215
0.75 HP (0.55 kW)	2.4	2.7	14958	1690	BG80G40-../D08MA4	730.3	5845	26000	-	-	-	-	474	215
0.75 HP (0.55 kW)	2.2	1.15	19029	2150	BG70G20-../D08MA4	790.2	4496	20000	-	-	-	-	293	133
0.75 HP (0.55 kW)	2.1	2.3	17436	1970	BG80G40-../D08MA4	817.4	5845	26000	-	-	-	-	474	215

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.75 HP (0.55 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.75 HP (0.55 kW)	2.0	1.05	21242	2400	BG70G20-../D08MA4	877.6	4496	20000	-	-	293	133
0.75 HP (0.55 kW)	1.9	2.1	19472	2200	BG80G40-../D08MA4	907.6	5845	26000	-	-	474	215
0.75 HP (0.55 kW)	1.7	0.88	25225	2850	BG70G20-../D08MA4	1035	4496	20000	-	-	293	133
0.75 HP (0.55 kW)	1.7	1.85	22127	2500	BG80G40-../D08MA4	1042	5845	26000	-	-	474	215
0.75 HP (0.55 kW)	1.5	3.3	24782	2800	BG90G50-../D08MA4	1174	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	1.4	1.45	28322	3200	BG80G40-../D08MA4	1261	5845	26000	-	-	474	215
0.75 HP (0.55 kW)	1.3	2.7	29650	3350	BG90G50-../D08MA4	1301	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	1.2	1.2	33633	3800	BG80G40-../D08MA4	1400	5845	26000	-	-	474	215
0.75 HP (0.55 kW)	1.1	1.1	37173	4200	BG80G40-../D08MA4	1653	5845	26000	-	-	474	215
0.75 HP (0.55 kW)	1.1	2.2	36288	4100	BG90G50-../D08MA4	1583	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	1.0	2.0	40271	4550	BG90G50-../D08MA4	1756	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	0.85	1.65	48679	5500	BG90G50-../D08MA4	2026	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	0.7	1.35	60185	6800	BG90G50-../D08MA4	2514	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	0.65	1.25	65496	7400	BG90G50-../D08MA4	2786	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	0.65	3.2	50449	5700	BG100G50-../D08MA4	2656	20233	90000	-	-	1129	512
0.75 HP (0.55 kW)	0.6	2.8	57530	6500	BG100G50-../D08MA4	2952	20233	90000	-	-	1129	512
0.75 HP (0.55 kW)	0.55	1.05	77887	8800	BG90G50-../D08MA4	3177	14613	65000	-	-	714	324
0.75 HP (0.55 kW)	0.55	2.6	61955	7000	BG100G50-../D08MA4	3286	20233	90000	-	-	1129	512
0.75 HP (0.55 kW)	0.47	2.2	76116	8600	BG100G50-../D08MA4	3644	20233	90000	-	-	1129	512
0.75 HP (0.55 kW)	0.39	1.7	96473	10900	BG100G50-../D08MA4	4366	20233	90000	-	-	1129	512
0.75 HP (0.55 kW)	0.35	1.5	110634	12500	BG100G50-../D08MA4	4839	20233	90000	-	-	1129	512
0.75 HP (0.55 kW)	0.29	1.2	138072	15600	BG100G50-../D08MA4	5888	20233	90000	-	-	1129	512
0.75 HP (0.55 kW)	0.26	1.05	155773	17600	BG100G50-../D08MA4	6529	20233	90000	-	-	1129	512

1 HP (0.75 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
1 HP (0.75 kW)	620	1.55	102	11.5	BG06-../DPE08XB4	2.82	106	470	-	-	42	19
1 HP (0.75 kW)	460	1.3	137	15.5	BG06-../DPE08XB4	3.78	117	520	-	-	42	19
1 HP (0.75 kW)	385	1.2	165	18.6	BG06-../DPE08XB4	4.54	119	530	-	-	42	19
1 HP (0.75 kW)	295	1.0	212	24	BG06-../DPE08XB4	5.96	128	570	-	-	42	19
1 HP (0.75 kW)	255	3.1	248	28	BG10-../DPE08XB4	6.89	191	850	270	1200	42	19
1 HP (0.75 kW)	250	0.91	252	28.5	BG06-../DPE08XB4	7.01	130	580	-	-	42	19
1 HP (0.75 kW)	230	0.9	274	31	BG06-../DPE08XB4	7.65	130	580	-	-	42	19
1 HP (0.75 kW)	230	2.9	274	31	BG10-../DPE08XB4	7.63	202	900	281	1250	42	19
1 HP (0.75 kW)	215	2.7	292	33	BG10-../DPE08XB4	8.07	148	660	207	920	42	19
1 HP (0.75 kW)	210	0.82	301	34	BG06-../DPE08XB4	8.39	135	600	-	-	42	19
1 HP (0.75 kW)	186	2.5	341	38.5	BG10-../DPE08XB4	9.33	214	950	299	1330	42	19
1 HP (0.75 kW)	180	3.1	350	39.5	BG20-../DPE08XB4	9.65	506	2250	-	-	49	22
1 HP (0.75 kW)	168	2.3	376	42.5	BG10-../DPE08XB4	10.34	225	1000	315	1400	42	19
1 HP (0.75 kW)	149	3.3	425	48	BG20-../DPE08XB4	11.71	629	2800	-	-	49	22
1 HP (0.75 kW)	146	2.1	434	49	BG10-../DPE08XB4	11.92	232	1030	324	1440	42	19
1 HP (0.75 kW)	132	2.0	478	54	BG10-../DPE08XB4	13.21	241	1070	335	1490	42	19
1 HP (0.75 kW)	132	3.1	478	54	BG20-../DPE08XB4	13.21	652	2900	-	-	49	22
1 HP (0.75 kW)	119	1.9	531	60	BG10-../DPE08XB4	14.58	247	1100	346	1540	42	19
1 HP (0.75 kW)	119	2.9	531	60	BG20-../DPE08XB4	14.67	686	3050	-	-	49	22
1 HP (0.75 kW)	112	2.8	558	63	BG20-../DPE08XB4	15.58	697	3100	-	-	49	22
1 HP (0.75 kW)	108	1.75	584	66	BG10-../DPE08XB4	16.15	256	1140	357	1590	42	19
1 HP (0.75 kW)	101	2.6	620	70	BG20-../DPE08XB4	17.31	719	3200	-	-	49	22
1 HP (0.75 kW)	94	1.6	673	76	BG10-../DPE08XB4	18.51	272	1210	380	1690	42	19
1 HP (0.75 kW)	87	2.4	726	82	BG20-../DPE08XB4	19.95	753	3350	-	-	49	22

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1 HP (0.75 kW)	85	1.45	743	84	BG10-../DPE08XB4	20.51	290	1290	405	1800	42	19
1 HP (0.75 kW)	79	1.35	797	90	BG10-../DPE08XB4	22.04	299	1330	418	1860	42	19
1 HP (0.75 kW)	79	2.2	797	90	BG20-../DPE08XB4	22.16	787	3500	-	-	49	22
1 HP (0.75 kW)	79	3.3	797	90	BG30-../DPE08XB4	22.18	1034	4600	-	-	57	26
1 HP (0.75 kW)	75	2.1	841	95	BG20-../DPE08XB4	23.22	798	3550	-	-	49	22
1 HP (0.75 kW)	72	1.2	876	99	BG10-../DPE08XB4	24.42	317	1410	443	1970	42	19
1 HP (0.75 kW)	69	2.9	912	103	BG30-../DPE08XB4	25.45	1090	4850	-	-	57	26
1 HP (0.75 kW)	68	1.9	929	105	BG20-../DPE08XB4	25.79	832	3700	-	-	49	22
1 HP (0.75 kW)	67	1.15	938	106	BG15-../DPE08XB4	26.26	328	1460	450	2000	42	19
1 HP (0.75 kW)	65	1.35	974	110	BG15-../DPE08XB4	27.08	674	3000	1349	6000	42	19
1 HP (0.75 kW)	63	1.75	1000	113	BG20-../DPE08XB4	27.85	854	3800	-	-	49	22
1 HP (0.75 kW)	62	2.6	1018	115	BG30-../DPE08XB4	28.24	1147	5100	-	-	57	26
1 HP (0.75 kW)	60	1.0	1053	119	BG10-../DPE08XB4	29.09	346	1540	483	2150	42	19
1 HP (0.75 kW)	59	2.5	1071	121	BG30-../DPE08XB4	29.83	1169	5200	-	-	57	26
1 HP (0.75 kW)	58	1.2	1089	123	BG15-../DPE08XB4	30.08	674	3000	1349	6000	42	19
1 HP (0.75 kW)	57	1.6	1106	125	BG20-../DPE08XB4	30.94	899	4000	-	-	49	22
1 HP (0.75 kW)	56	0.94	1124	127	BG10-../DPE08XB4	31.52	360	1600	495	2200	42	19
1 HP (0.75 kW)	54	3.2	1168	132	BG40-../DPE08XB4	32.57	1574	7000	-	-	90	41
1 HP (0.75 kW)	53	1.5	1195	135	BG20-../DPE08XB4	33.33	922	4100	-	-	49	22
1 HP (0.75 kW)	53	2.2	1195	135	BG30-../DPE08XB4	33.09	1214	5400	-	-	57	26
1 HP (0.75 kW)	51	1.05	1239	140	BG15-../DPE08XB4	34.20	674	3000	1349	6000	42	19
1 HP (0.75 kW)	51	3.0	1239	140	BG40-../DPE08XB4	34.20	1574	7000	-	-	90	41
1 HP (0.75 kW)	50	0.84	1266	143	BG10-../DPE08XB4	34.92	380	1690	528	2350	42	19
1 HP (0.75 kW)	49.5	2.1	1275	144	BG30-../DPE08XB4	35.17	1236	5500	-	-	57	26
1 HP (0.75 kW)	47	1.3	1345	152	BG20-../DPE08XB4	37.02	967	4300	-	-	49	22
1 HP (0.75 kW)	46	0.97	1372	155	BG15-../DPE08XB4	37.90	674	3000	1349	6000	42	19
1 HP (0.75 kW)	46	2.7	1372	155	BG40-../DPE08XB4	37.96	1574	7000	-	-	90	41
1 HP (0.75 kW)	44.5	1.9	1416	160	BG30-../DPE08XB4	39.02	1304	5800	-	-	57	26
1 HP (0.75 kW)	43.5	2.6	1452	164	BG40-../DPE08XB4	40.19	1574	7000	-	-	90	41
1 HP (0.75 kW)	42	1.2	1505	170	BG20-../DPE08XB4	41.76	1012	4500	-	-	49	22
1 HP (0.75 kW)	41	1.7	1540	174	BG30-../DPE08XB4	42.46	1326	5900	-	-	57	26
1 HP (0.75 kW)	39	2.3	1620	183	BG40-../DPE08XB4	44.62	1574	7000	-	-	90	41
1 HP (0.75 kW)	37.5	1.05	1690	191	BG20-../DPE08XB4	46.38	1057	4700	-	-	49	22
1 HP (0.75 kW)	37	1.55	1708	193	BG30-../DPE08XB4	47.11	1349	6000	-	-	57	26
1 HP (0.75 kW)	37	3.3	1708	193	BG50-../DPE08XB4	47.02	2248	10000	-	-	108	49
1 HP (0.75 kW)	36.5	1.0	1735	196	BG20-../DPE08XB4	47.92	1068	4750	-	-	49	22
1 HP (0.75 kW)	36	2.1	1752	198	BG40-../DPE08XB4	48.36	1574	7000	-	-	90	41
1 HP (0.75 kW)	33.5	1.45	1859	210	BG30-../DPE08XB4	52.44	1349	6000	-	-	57	26
1 HP (0.75 kW)	33.5	3.0	1859	210	BG50-../DPE08XB4	52.12	2248	10000	-	-	108	49
1 HP (0.75 kW)	33	0.93	1903	215	BG20-../DPE08XB4	53.22	1113	4950	-	-	49	22
1 HP (0.75 kW)	32.5	1.95	1947	220	BG40-../DPE08XB4	53.69	1574	7000	-	-	90	41
1 HP (0.75 kW)	30	1.3	2080	235	BG30-../DPE08XB4	58.18	1349	6000	-	-	57	26
1 HP (0.75 kW)	29.5	0.83	2124	240	BG20-../DPE08XB4	59.07	1124	5000	-	-	49	22
1 HP (0.75 kW)	29.5	1.75	2124	240	BG40-../DPE08XB4	59.64	1574	7000	-	-	90	41
1 HP (0.75 kW)	29.5	2.6	2124	240	BG50-../DPE08XB4	59.42	2248	10000	-	-	108	49
1 HP (0.75 kW)	29	1.2	2168	245	BG30-../DPE08XB4	60.79	1349	6000	-	-	57	26
1 HP (0.75 kW)	26.5	1.55	2390	270	BG40-../DPE08XB4	66.20	1574	7000	-	-	90	41
1 HP (0.75 kW)	26.5	2.3	2390	270	BG50-../DPE08XB4	65.86	2248	10000	-	-	108	49
1 HP (0.75 kW)	26	1.1	2434	275	BG30-../DPE08XB4	67.44	1349	6000	-	-	57	26
1 HP (0.75 kW)	26	1.55	2434	275	BG40Z-../DPE08XB4	67.74	1574	7000	-	-	97	44
1 HP (0.75 kW)	24.5	2.2	2567	290	BG50Z-../DPE08XB4	71.97	2248	10000	-	-	119	54
1 HP (0.75 kW)	24	1.0	2611	295	BG30Z-../DPE08XB4	73.51	1349	6000	-	-	64	29
1 HP (0.75 kW)	23.5	1.4	2655	300	BG40Z-../DPE08XB4	75.19	1574	7000	-	-	97	44
1 HP (0.75 kW)	22	1.95	2876	325	BG50Z-../DPE08XB4	79.78	2248	10000	-	-	119	54
1 HP (0.75 kW)	21.5	0.91	2921	330	BG30Z-../DPE08XB4	81.55	1349	6000	-	-	64	29
1 HP (0.75 kW)	21.5	1.3	2921	330	BG40Z-../DPE08XB4	82.00	1574	7000	-	-	97	44
1 HP (0.75 kW)	20.5	0.87	3054	345	BG30Z-../DPE08XB4	86.13	1349	6000	-	-	64	29
1 HP (0.75 kW)	19.5	1.15	3231	365	BG40Z-../DPE08XB4	91.02	1574	7000	-	-	97	44

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings	Reinforced Bearings			lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1 HP (0.75 kW)	19.5	3.3	3231	365	BG60Z-../DPE08XB4	91.09	3597	16000	-	-	218	99
1 HP (0.75 kW)	18.5	1.65	3408	385	BG50Z-../DPE08XB4	95.58	2248	10000	-	-	119	54
1 HP (0.75 kW)	18	1.1	3496	395	BG40Z-../DPE08XB4	96.86	1574	7000	-	-	97	44
1 HP (0.75 kW)	17.5	3.0	3585	405	BG60Z-../DPE08XB4	101.0	3597	16000	-	-	218	99
1 HP (0.75 kW)	16.5	0.99	3806	430	BG40Z-../DPE08XB4	107.5	1574	7000	-	-	97	44
1 HP (0.75 kW)	16.5	1.45	3806	430	BG50Z-../DPE08XB4	106.0	2248	10000	-	-	119	54
1 HP (0.75 kW)	15	2.5	4204	475	BG60Z-../DPE08XB4	119.2	3597	16000	-	-	218	99
1 HP (0.75 kW)	14.5	0.87	4337	490	BG40Z-../DPE08XB4	121.3	1574	7000	-	-	97	44
1 HP (0.75 kW)	13.5	1.2	4691	530	BG50Z-../DPE08XB4	128.9	2248	10000	-	-	119	54
1 HP (0.75 kW)	13.5	2.3	4691	530	BG60Z-../DPE08XB4	132.1	3597	16000	-	-	218	99
1 HP (0.75 kW)	12.5	1.1	5045	570	BG50Z-../DPE08XB4	142.9	2248	10000	-	-	119	54
1 HP (0.75 kW)	11	0.97	5753	650	BG50Z-../DPE08XB4	164.9	2248	10000	-	-	119	54
1 HP (0.75 kW)	11	1.85	5753	650	BG60Z-../DPE08XB4	158.0	3597	16000	-	-	218	99
1 HP (0.75 kW)	10	1.7	6284	710	BG60Z-../DPE08XB4	175.1	3597	16000	-	-	218	99
1 HP (0.75 kW)	9.5	0.84	6638	750	BG50Z-../DPE08XB4	182.8	2248	10000	-	-	119	54
1 HP (0.75 kW)	9.0	2.9	6992	790	BG70Z-../DPE08XB4	194.4	4496	20000	-	-	304	138
1 HP (0.75 kW)	8.5	1.45	7435	840	BG60Z-../DPE08XB4	204.6	3597	16000	-	-	218	99
1 HP (0.75 kW)	8.3	2.7	7612	860	BG70Z-../DPE08XB4	210.5	4496	20000	-	-	304	138
1 HP (0.75 kW)	7.7	1.3	8231	930	BG60Z-../DPE08XB4	226.7	3597	16000	-	-	218	99
1 HP (0.75 kW)	7.1	1.2	8851	1000	BG60Z-../DPE08XB4	247.7	3597	16000	-	-	218	99
1 HP (0.75 kW)	7.0	2.3	9028	1020	BG70Z-../DPE08XB4	249.8	4496	20000	-	-	304	138
1 HP (0.75 kW)	6.8	2.7	8320	940	BG70G20-../DPE08XB4	255.5	4496	20000	-	-	300	136
1 HP (0.75 kW)	6.4	1.1	9824	1110	BG60Z-../DPE08XB4	274.5	3597	16000	-	-	218	99
1 HP (0.75 kW)	6.3	1.25	9028	1020	BG60G20-../DPE08XB4	276.2	3597	16000	-	-	234	106
1 HP (0.75 kW)	6.3	2.5	9028	1020	BG70G20-../DPE08XB4	276.7	4496	20000	-	-	300	136
1 HP (0.75 kW)	5.7	1.15	9913	1120	BG60G20-../DPE08XB4	306.1	3597	16000	-	-	234	106
1 HP (0.75 kW)	5.3	2.1	10709	1210	BG70G20-../DPE08XB4	328.4	4496	20000	-	-	300	136
1 HP (0.75 kW)	5.2	1.05	10886	1230	BG60G20-../DPE08XB4	334.3	3597	16000	-	-	234	106
1 HP (0.75 kW)	4.7	0.96	12037	1360	BG60G20-../DPE08XB4	370.5	3597	16000	-	-	234	106
1 HP (0.75 kW)	4.5	1.75	12745	1440	BG70G20-../DPE08XB4	387.6	4496	20000	-	-	300	136
1 HP (0.75 kW)	4.2	1.6	13984	1580	BG70G20-../DPE08XB4	417.8	4496	20000	-	-	300	136
1 HP (0.75 kW)	4.0	0.8	14338	1620	BG60G20-../DPE08XB4	437.3	3597	16000	-	-	234	106
1 HP (0.75 kW)	4.0	3.2	12834	1450	BG80G40-../DPE08XB4	436.2	5845	26000	-	-	481	218
1 HP (0.75 kW)	3.6	2.9	14250	1610	BG80G40-../DPE08XB4	484.3	5845	26000	-	-	481	218
1 HP (0.75 kW)	3.5	1.3	16816	1900	BG70G20-../DPE08XB4	495.9	4496	20000	-	-	300	136
1 HP (0.75 kW)	3.1	1.15	19029	2150	BG70G20-../DPE08XB4	577.3	4496	20000	-	-	300	136
1 HP (0.75 kW)	3.1	2.4	17082	1930	BG80G40-../DPE08XB4	572.0	5845	26000	-	-	481	218
1 HP (0.75 kW)	2.7	1.0	21684	2450	BG70G20-../DPE08XB4	665.8	4496	20000	-	-	300	136
1 HP (0.75 kW)	2.7	2.1	19029	2150	BG80G40-../DPE08XB4	657.8	5845	26000	-	-	481	218
1 HP (0.75 kW)	2.4	1.9	21684	2450	BG80G40-../DPE08XB4	730.3	5845	26000	-	-	481	218
1 HP (0.75 kW)	2.2	0.82	26995	3050	BG70G20-../DPE08XB4	790.2	4496	20000	-	-	300	136
1 HP (0.75 kW)	2.2	1.7	23897	2700	BG80G40-../DPE08XB4	817.4	5845	26000	-	-	481	218
1 HP (0.75 kW)	2.0	1.55	26552	3000	BG80G40-../DPE08XB4	907.6	5845	26000	-	-	481	218
1 HP (0.75 kW)	2.0	3.2	25667	2900	BG90G50-../DPE08XB4	883.7	14613	65000	-	-	723	328
1 HP (0.75 kW)	1.7	1.25	32305	3650	BG80G40-../DPE08XB4	1042	5845	26000	-	-	481	218
1 HP (0.75 kW)	1.5	2.2	36288	4100	BG90G50-../DPE08XB4	1174	14613	65000	-	-	723	328
1 HP (0.75 kW)	1.4	1.0	40271	4550	BG80G40-../DPE08XB4	1261	5845	26000	-	-	481	218
1 HP (0.75 kW)	1.4	2.1	38943	4400	BG90G50-../DPE08XB4	1301	14613	65000	-	-	723	328
1 HP (0.75 kW)	1.3	0.93	43811	4950	BG80G40-../DPE08XB4	1400	5845	26000	-	-	481	218
1 HP (0.75 kW)	1.1	1.6	51334	5800	BG90G50-../DPE08XB4	1583	14613	65000	-	-	723	328
1 HP (0.75 kW)	1.0	1.45	56645	6400	BG90G50-../DPE08XB4	1756	14613	65000	-	-	723	328
1 HP (0.75 kW)	0.95	3.2	50449	5700	BG100G50-../DPE08XB4	1867	20233	90000	-	-	1133	514
1 HP (0.75 kW)	0.9	1.3	63725	7200	BG90G50-../DPE08XB4	2026	14613	65000	-	-	723	328
1 HP (0.75 kW)	0.85	2.9	55760	6300	BG100G50-../DPE08XB4	2154	20233	90000	-	-	1133	514
1 HP (0.75 kW)	0.7	2.4	69036	7800	BG100G50-../DPE08XB4	2656	20233	90000	-	-	1133	514
1 HP (0.75 kW)	0.6	1.95	84967	9600	BG100G50-../DPE08XB4	2952	20233	90000	-	-	1133	514
1 HP (0.75 kW)	0.55	1.75	92933	10500	BG100G50-../DPE08XB4	3286	20233	90000	-	-	1133	514
1 HP (0.75 kW)	0.48	1.5	109749	12400	BG100G50-../DPE08XB4	3644	20233	90000	-	-	1133	514

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lb·in	Nm			lb·f	N	lb·f	N	lb	kg		
[kW]	RPM	SF												
1 HP (0.75 kW)	0.4	1.2	136301	15400	BG100G50-../DPE08XB4	4366	20233	90000	-	-	1133	514		
1 HP (0.75 kW)	0.36	1.05	153118	17300	BG100G50-../DPE08XB4	4839	20233	90000	-	-	1133	514		

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lb·in	Nm			lb·f	N	lb·f	N	lb	kg		
[kW]	RPM	SF												
1.5 HP (1.1 kW)	700	3.7	133	15	BG10-../DPE09XB4	2.52	128	570	178	790	66	30		
1.5 HP (1.1 kW)	520	3.1	177	20	BG10-../DPE09XB4	3.42	142	630	198	880	66	30		
1.5 HP (1.1 kW)	405	2.7	226	25.5	BG10-../DPE09XB4	4.36	146	650	205	910	66	30		
1.5 HP (1.1 kW)	330	2.4	279	31.5	BG10-../DPE09XB4	5.34	139	620	205	910	66	30		
1.5 HP (1.1 kW)	275	3.2	336	38	BG20-../DPE09XB4	6.48	506	2250	-	-	71	32		
1.5 HP (1.1 kW)	265	3.3	350	39.5	BG20-../DPE09XB4	6.73	528	2350	472	2100	71	32		
1.5 HP (1.1 kW)	255	2.1	363	41	BG10-../DPE09XB4	6.89	191	850	270	1200	66	30		
1.5 HP (1.1 kW)	235	2.0	394	44.5	BG10-../DPE09XB4	7.63	202	900	281	1250	66	30		
1.5 HP (1.1 kW)	220	1.85	420	47.5	BG10-../DPE09XB4	8.07	148	660	207	920	66	30		
1.5 HP (1.1 kW)	220	2.9	420	47.5	BG20-../DPE09XB4	8.02	562	2500	-	-	71	32		
1.5 HP (1.1 kW)	215	2.5	429	48.5	BG20-../DPE09XB4	8.29	506	2250	-	-	71	32		
1.5 HP (1.1 kW)	197	2.7	469	53	BG20-../DPE09XB4	8.91	585	2600	-	-	71	32		
1.5 HP (1.1 kW)	189	1.75	487	55	BG10-../DPE09XB4	9.33	214	950	299	1330	66	30		
1.5 HP (1.1 kW)	182	2.1	504	57	BG20-../DPE09XB4	9.65	506	2250	-	-	71	32		
1.5 HP (1.1 kW)	170	1.6	540	61	BG10-../DPE09XB4	10.34	225	1000	315	1400	66	30		
1.5 HP (1.1 kW)	167	2.5	549	62	BG20-../DPE09XB4	10.54	607	2700	-	-	71	32		
1.5 HP (1.1 kW)	150	2.3	620	70	BG20-../DPE09XB4	11.71	629	2800	-	-	71	32		
1.5 HP (1.1 kW)	148	1.5	620	70	BG10-../DPE09XB4	11.92	232	1030	324	1440	66	30		
1.5 HP (1.1 kW)	133	1.4	690	78	BG10-../DPE09XB4	13.21	241	1070	335	1490	66	30		
1.5 HP (1.1 kW)	133	2.1	690	78	BG20-../DPE09XB4	13.21	652	2900	-	-	71	32		
1.5 HP (1.1 kW)	121	1.35	761	86	BG10-../DPE09XB4	14.58	247	1100	346	1540	66	30		
1.5 HP (1.1 kW)	120	2.0	770	87	BG20-../DPE09XB4	14.67	686	3050	-	-	71	32		
1.5 HP (1.1 kW)	115	3.3	805	91	BG30-../DPE09XB4	15.27	776	3450	-	-	82	37		
1.5 HP (1.1 kW)	113	1.9	814	92	BG20-../DPE09XB4	15.58	697	3100	-	-	71	32		
1.5 HP (1.1 kW)	109	1.2	850	96	BG10-../DPE09XB4	16.15	256	1140	357	1590	66	30		
1.5 HP (1.1 kW)	103	3.0	894	101	BG30-../DPE09XB4	17.06	832	3700	-	-	82	37		
1.5 HP (1.1 kW)	102	1.8	903	102	BG20-../DPE09XB4	17.31	719	3200	-	-	71	32		
1.5 HP (1.1 kW)	95	1.1	974	110	BG10-../DPE09XB4	18.51	272	1210	380	1690	66	30		
1.5 HP (1.1 kW)	93	2.7	991	112	BG30-../DPE09XB4	18.93	922	4100	-	-	82	37		
1.5 HP (1.1 kW)	88	1.65	1053	119	BG20-../DPE09XB4	19.95	753	3350	-	-	71	32		
1.5 HP (1.1 kW)	88	2.5	1053	119	BG30-../DPE09XB4	19.99	944	4200	-	-	82	37		
1.5 HP (1.1 kW)	86	0.98	1080	122	BG10-../DPE09XB4	20.51	290	1290	405	1800	66	30		
1.5 HP (1.1 kW)	80	0.92	1159	131	BG10-../DPE09XB4	22.04	299	1330	418	1860	66	30		
1.5 HP (1.1 kW)	80	1.55	1159	131	BG20-../DPE09XB4	22.16	787	3500	-	-	71	32		
1.5 HP (1.1 kW)	80	2.3	1159	131	BG30-../DPE09XB4	22.18	1034	4600	-	-	82	37		
1.5 HP (1.1 kW)	80	3.2	1159	131	BG40-../DPE09XB4	22.02	1349	6000	-	-	112	51		
1.5 HP (1.1 kW)	76	1.45	1221	138	BG20-../DPE09XB4	23.22	798	3550	-	-	71	32		
1.5 HP (1.1 kW)	75	3.0	1239	140	BG40-../DPE09XB4	23.43	1394	6200	-	-	112	51		
1.5 HP (1.1 kW)	72	0.83	1283	145	BG10-../DPE09XB4	24.42	317	1410	443	1970	66	30		
1.5 HP (1.1 kW)	69	1.3	1345	152	BG20-../DPE09XB4	25.79	832	3700	-	-	71	32		
1.5 HP (1.1 kW)	69	1.95	1345	152	BG30-../DPE09XB4	25.45	1090	4850	-	-	82	37		
1.5 HP (1.1 kW)	68	2.8	1363	154	BG40-../DPE09XB4	26.01	1461	6500	-	-	112	51		
1.5 HP (1.1 kW)	65	0.93	1425	161	BG15-../DPE09XB4	27.08	674	3000	1349	6000	66	30		
1.5 HP (1.1 kW)	64	1.2	1452	164	BG20-../DPE09XB4	27.85	854	3800	-	-	71	32		
1.5 HP (1.1 kW)	63	1.8	1469	166	BG30-../DPE09XB4	28.24	1147	5100	-	-	82	37		

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings	Reinforced Bearings			lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1.5 HP (1.1 kW)	60	2.4	1549	175	BG40-../DPE09XB4	29.34	1529	6800	-	-	112	51
1.5 HP (1.1 kW)	59	0.84	1575	178	BG15-../DPE09XB4	30.08	674	3000	1349	6000	66	30
1.5 HP (1.1 kW)	59	1.7	1575	178	BG30-../DPE09XB4	29.83	1169	5200	-	-	82	37
1.5 HP (1.1 kW)	57	1.1	1629	184	BG20-../DPE09XB4	30.94	899	4000	-	-	71	32
1.5 HP (1.1 kW)	54	1.55	1717	194	BG30-../DPE09XB4	33.09	1214	5400	-	-	82	37
1.5 HP (1.1 kW)	54	2.2	1717	194	BG40-../DPE09XB4	32.57	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	54	3.2	1717	194	BG50-../DPE09XB4	32.84	1956	8700	-	-	130	59
1.5 HP (1.1 kW)	53	1.0	1752	198	BG20-../DPE09XB4	33.33	922	4100	-	-	71	32
1.5 HP (1.1 kW)	52	2.1	1770	200	BG40-../DPE09XB4	34.20	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	50	1.45	1859	210	BG30-../DPE09XB4	35.17	1236	5500	-	-	82	37
1.5 HP (1.1 kW)	47.5	0.91	1947	220	BG20-../DPE09XB4	37.02	967	4300	-	-	71	32
1.5 HP (1.1 kW)	46.5	1.9	1991	225	BG40-../DPE09XB4	37.96	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	46.5	2.8	1991	225	BG50-../DPE09XB4	37.89	2248	10000	-	-	130	59
1.5 HP (1.1 kW)	45	1.3	2036	230	BG30-../DPE09XB4	39.02	1304	5800	-	-	82	37
1.5 HP (1.1 kW)	44	1.8	2080	235	BG40-../DPE09XB4	40.19	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	42.5	0.82	2168	245	BG20-../DPE09XB4	41.76	1012	4500	-	-	71	32
1.5 HP (1.1 kW)	42	2.5	2213	250	BG50-../DPE09XB4	42.00	2248	10000	-	-	130	59
1.5 HP (1.1 kW)	41.5	1.2	2213	250	BG30-../DPE09XB4	42.46	1326	5900	-	-	82	37
1.5 HP (1.1 kW)	39.5	1.6	2345	265	BG40-../DPE09XB4	44.62	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	37.5	1.05	2478	280	BG30-../DPE09XB4	47.11	1349	6000	-	-	82	37
1.5 HP (1.1 kW)	37.5	2.3	2478	280	BG50-../DPE09XB4	47.02	2248	10000	-	-	130	59
1.5 HP (1.1 kW)	36.5	1.5	2522	285	BG40-../DPE09XB4	48.36	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	34	2.1	2699	305	BG50-../DPE09XB4	52.12	2248	10000	-	-	130	59
1.5 HP (1.1 kW)	33.5	0.97	2744	310	BG30-../DPE09XB4	52.44	1349	6000	-	-	82	37
1.5 HP (1.1 kW)	33	1.35	2788	315	BG40-../DPE09XB4	53.69	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	30.5	0.88	3009	340	BG30-../DPE09XB4	58.18	1349	6000	-	-	82	37
1.5 HP (1.1 kW)	30	1.8	3098	350	BG50-../DPE09XB4	59.42	2248	10000	-	-	130	59
1.5 HP (1.1 kW)	29.5	1.2	3142	355	BG40-../DPE09XB4	59.64	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	29	0.83	3186	360	BG30-../DPE09XB4	60.79	1349	6000	-	-	82	37
1.5 HP (1.1 kW)	29	3.3	3186	360	BG60-../DPE09XB4	60.90	3597	16000	-	-	198	90
1.5 HP (1.1 kW)	27	1.1	3408	385	BG40-../DPE09XB4	66.20	1574	7000	-	-	112	51
1.5 HP (1.1 kW)	27	1.65	3408	385	BG50-../DPE09XB4	65.86	2248	10000	-	-	130	59
1.5 HP (1.1 kW)	26.5	3.0	3496	395	BG60-../DPE09XB4	67.49	3597	16000	-	-	198	90
1.5 HP (1.1 kW)	26	1.05	3540	400	BG40Z-../DPE09XB4	67.74	1574	7000	-	-	121	55
1.5 HP (1.1 kW)	26	3.0	3540	400	BG60Z-../DPE09XB4	68.32	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	24.5	1.5	3762	425	BG50Z-../DPE09XB4	71.97	2248	10000	-	-	141	64
1.5 HP (1.1 kW)	23.5	0.96	3939	445	BG40Z-../DPE09XB4	75.19	1574	7000	-	-	121	55
1.5 HP (1.1 kW)	23.5	2.7	3939	445	BG60Z-../DPE09XB4	75.71	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	22	1.35	4204	475	BG50Z-../DPE09XB4	79.78	2248	10000	-	-	141	64
1.5 HP (1.1 kW)	21.5	0.88	4293	485	BG40Z-../DPE09XB4	82.00	1574	7000	-	-	121	55
1.5 HP (1.1 kW)	19.5	0.8	4691	530	BG40Z-../DPE09XB4	91.02	1574	7000	-	-	121	55
1.5 HP (1.1 kW)	19.5	2.3	4691	530	BG60Z-../DPE09XB4	91.09	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	18.5	1.15	4956	560	BG50Z-../DPE09XB4	95.58	2248	10000	-	-	141	64
1.5 HP (1.1 kW)	17.5	2.0	5310	600	BG60Z-../DPE09XB4	101.0	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	17	1.05	5399	610	BG50Z-../DPE09XB4	106.0	2248	10000	-	-	141	64
1.5 HP (1.1 kW)	15	1.7	6196	700	BG60Z-../DPE09XB4	119.2	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	14.5	3.2	6373	720	BG70Z-../DPE09XB4	124.0	4496	20000	-	-	328	149
1.5 HP (1.1 kW)	14	0.84	6638	750	BG50Z-../DPE09XB4	128.9	2248	10000	-	-	141	64
1.5 HP (1.1 kW)	13.5	1.55	6815	770	BG60Z-../DPE09XB4	132.1	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	12	2.6	7700	870	BG70Z-../DPE09XB4	147.2	4496	20000	-	-	328	149
1.5 HP (1.1 kW)	11.5	1.3	8054	910	BG60Z-../DPE09XB4	158.0	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	11	2.4	8408	950	BG70Z-../DPE09XB4	163.8	4496	20000	-	-	328	149
1.5 HP (1.1 kW)	10.5	1.2	8851	1000	BG60Z-../DPE09XB4	175.1	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	9.1	2.0	10178	1150	BG70Z-../DPE09XB4	194.4	4496	20000	-	-	328	149
1.5 HP (1.1 kW)	8.6	0.98	10798	1220	BG60Z-../DPE09XB4	204.6	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	8.4	1.85	11063	1250	BG70Z-../DPE09XB4	210.5	4496	20000	-	-	328	149
1.5 HP (1.1 kW)	7.8	0.9	11860	1340	BG60Z-../DPE09XB4	226.7	3597	16000	-	-	240	109
1.5 HP (1.1 kW)	7.1	0.82	13011	1470	BG60Z-../DPE09XB4	247.7	3597	16000	-	-	240	109

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Reinforced Bearings		Weight	
			lbf-in	Nm			Standard Bearings	N	lbf	N	lb	kg
[kW]	RPM	SF					lb.f					
1.5 HP (1.1 kW)	7.1	1.55	13011	1470	BG70Z-../DPE09XB4	249.8	4496	20000	-	-	328	149
1.5 HP (1.1 kW)	6.9	1.75	12480	1410	BG70G20-../DPE09XB4	255.5	4496	20000	-	-	322	146
1.5 HP (1.1 kW)	6.4	0.86	13453	1520	BG60G20-../DPE09XB4	276.2	3597	16000	-	-	256	116
1.5 HP (1.1 kW)	6.4	1.65	13453	1520	BG70G20-../DPE09XB4	276.7	4496	20000	-	-	322	146
1.5 HP (1.1 kW)	5.6	3.0	13542	1530	BG80G40-../DPE09XB4	314.0	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	5.4	1.4	15931	1800	BG70G20-../DPE09XB4	328.4	4496	20000	-	-	322	146
1.5 HP (1.1 kW)	4.9	2.6	15931	1800	BG80G40-../DPE09XB4	360.0	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	4.6	1.2	18587	2100	BG70G20-../DPE09XB4	387.6	4496	20000	-	-	322	146
1.5 HP (1.1 kW)	4.4	2.3	17701	2000	BG80G40-../DPE09XB4	399.8	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	4.3	1.1	20357	2300	BG70G20-../DPE09XB4	417.8	4496	20000	-	-	322	146
1.5 HP (1.1 kW)	4.1	2.1	19472	2200	BG80G40-../DPE09XB4	436.2	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	3.7	1.9	21684	2450	BG80G40-../DPE09XB4	484.3	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	3.6	0.91	24340	2750	BG70G20-../DPE09XB4	495.9	4496	20000	-	-	322	146
1.5 HP (1.1 kW)	3.1	1.55	26552	3000	BG80G40-../DPE09XB4	572.0	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	3.0	3.2	25667	2900	BG90G50-../DPE09XB4	588.8	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	2.8	3.0	27437	3100	BG90G50-../DPE09XB4	644.7	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	2.7	1.35	30093	3400	BG80G40-../DPE09XB4	657.8	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	2.5	1.25	32748	3700	BG80G40-../DPE09XB4	730.3	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	2.5	2.6	31420	3550	BG90G50-../DPE09XB4	714.2	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	2.2	1.1	37616	4250	BG80G40-../DPE09XB4	817.4	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	2.0	0.98	41599	4700	BG80G40-../DPE09XB4	907.6	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	2.0	2.0	40271	4550	BG90G50-../DPE09XB4	883.7	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	1.7	0.82	49564	5600	BG80G40-../DPE09XB4	1042	5845	26000	-	-	503	228
1.5 HP (1.1 kW)	1.5	1.45	55760	6300	BG90G50-../DPE09XB4	1174	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	1.4	1.35	60185	6800	BG90G50-../DPE09XB4	1301	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	1.3	2.8	59300	6700	BG100G50-../DPE09XB4	1444	20233	90000	-	-	1157	525
1.5 HP (1.1 kW)	1.2	1.15	70806	8000	BG90G50-../DPE09XB4	1583	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	1.1	2.3	69921	7900	BG100G50-../DPE09XB4	1678	20233	90000	-	-	1157	525
1.5 HP (1.1 kW)	1.0	0.94	86737	9800	BG90G50-../DPE09XB4	1756	14613	65000	-	-	745	338
1.5 HP (1.1 kW)	0.95	2.0	81427	9200	BG100G50-../DPE09XB4	1867	20233	90000	-	-	1157	525
1.5 HP (1.1 kW)	0.85	1.8	91163	10300	BG100G50-../DPE09XB4	2154	20233	90000	-	-	1157	525
1.5 HP (1.1 kW)	0.7	1.45	111519	12600	BG100G50-../DPE09XB4	2656	20233	90000	-	-	1157	525
1.5 HP (1.1 kW)	0.6	1.2	134531	15200	BG100G50-../DPE09XB4	2952	20233	90000	-	-	1157	525
1.5 HP (1.1 kW)	0.55	1.1	146037	16500	BG100G50-../DPE09XB4	3286	20233	90000	-	-	1157	525

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Reinforced Bearings		Weight	
			lbf-in	Nm			Standard Bearings	N	lbf	N	lb	kg
[kW]	RPM	SF					lb.f					
2 HP (1.5 kW)	700	2.8	177	20	BG10-../DPE09XB4	2.52	128	570	178	790	66	30
2 HP (1.5 kW)	520	2.3	243	27.5	BG10-../DPE09XB4	3.42	142	630	198	880	66	30
2 HP (1.5 kW)	405	1.95	310	35	BG10-../DPE09XB4	4.36	146	650	205	910	66	30
2 HP (1.5 kW)	400	2.9	314	35.5	BG20-../DPE09XB4	4.38	447	1990	-	-	71	32
2 HP (1.5 kW)	330	1.75	381	43	BG10-../DPE09XB4	5.34	139	620	205	910	66	30
2 HP (1.5 kW)	320	2.6	394	44.5	BG20-../DPE09XB4	5.49	472	2100	-	-	71	32
2 HP (1.5 kW)	290	2.6	434	49	BG20-../DPE09XB4	6.06	506	2250	-	-	71	32
2 HP (1.5 kW)	270	2.3	469	53	BG20-../DPE09XB4	6.48	506	2250	-	-	71	32
2 HP (1.5 kW)	260	2.4	487	55	BG20-../DPE09XB4	6.73	528	2350	472	2100	71	32
2 HP (1.5 kW)	255	1.55	496	56	BG10-../DPE09XB4	6.89	191	850	270	1200	66	30
2 HP (1.5 kW)	230	1.45	549	62	BG10-../DPE09XB4	7.63	202	900	281	1250	66	30
2 HP (1.5 kW)	220	1.35	575	65	BG10-../DPE09XB4	8.07	148	660	207	920	66	30
2 HP (1.5 kW)	220	2.1	575	65	BG20-../DPE09XB4	8.02	562	2500	-	-	71	32

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
2 HP (1.5 kW)	215	1.85	584	66	BG20-../DPE09XB4	8.29	506	2250	-	-	71	32
2 HP (1.5 kW)	196	1.95	646	73	BG20-../DPE09XB4	8.91	585	2600	-	-	71	32
2 HP (1.5 kW)	188	1.3	673	76	BG10-../DPE09XB4	9.33	214	950	299	1330	66	30
2 HP (1.5 kW)	183	3.3	690	78	BG30-../DPE09XB4	9.55	674	3000	-	-	82	37
2 HP (1.5 kW)	181	1.55	699	79	BG20-../DPE09XB4	9.65	506	2250	-	-	71	32
2 HP (1.5 kW)	169	1.2	743	84	BG10-../DPE09XB4	10.34	225	1000	315	1400	66	30
2 HP (1.5 kW)	166	1.8	761	86	BG20-../DPE09XB4	10.54	607	2700	-	-	71	32
2 HP (1.5 kW)	164	3.1	770	87	BG30-../DPE09XB4	10.65	663	2950	-	-	82	37
2 HP (1.5 kW)	150	1.65	841	95	BG20-../DPE09XB4	11.71	629	2800	-	-	71	32
2 HP (1.5 kW)	148	2.9	850	96	BG30-../DPE09XB4	11.82	719	3200	-	-	82	37
2 HP (1.5 kW)	147	1.1	859	97	BG10-../DPE09XB4	11.92	232	1030	324	1440	66	30
2 HP (1.5 kW)	133	1.05	947	107	BG10-../DPE09XB4	13.21	241	1070	335	1490	66	30
2 HP (1.5 kW)	133	1.55	947	107	BG20-../DPE09XB4	13.21	652	2900	-	-	71	32
2 HP (1.5 kW)	127	2.6	991	112	BG30-../DPE09XB4	13.77	708	3150	-	-	82	37
2 HP (1.5 kW)	120	0.96	1053	119	BG10-../DPE09XB4	14.58	247	1100	346	1540	66	30
2 HP (1.5 kW)	119	1.45	1062	120	BG20-../DPE09XB4	14.67	686	3050	-	-	71	32
2 HP (1.5 kW)	115	2.4	1097	124	BG30-../DPE09XB4	15.27	776	3450	-	-	82	37
2 HP (1.5 kW)	113	1.4	1115	126	BG20-../DPE09XB4	15.58	697	3100	-	-	71	32
2 HP (1.5 kW)	109	0.89	1159	131	BG10-../DPE09XB4	16.15	256	1140	357	1590	66	30
2 HP (1.5 kW)	107	3.2	1177	133	BG40-../DPE09XB4	16.39	1191	5300	-	-	112	51
2 HP (1.5 kW)	103	2.2	1230	139	BG30-../DPE09XB4	17.06	832	3700	-	-	82	37
2 HP (1.5 kW)	101	1.3	1248	141	BG20-../DPE09XB4	17.31	719	3200	-	-	71	32
2 HP (1.5 kW)	96	2.9	1319	149	BG40-../DPE09XB4	18.19	1259	5600	-	-	112	51
2 HP (1.5 kW)	95	0.8	1328	150	BG10-../DPE09XB4	18.51	272	1210	380	1690	66	30
2 HP (1.5 kW)	93	1.95	1363	154	BG30-../DPE09XB4	18.93	922	4100	-	-	82	37
2 HP (1.5 kW)	88	1.2	1434	162	BG20-../DPE09XB4	19.95	753	3350	-	-	71	32
2 HP (1.5 kW)	88	1.85	1434	162	BG30-../DPE09XB4	19.99	944	4200	-	-	82	37
2 HP (1.5 kW)	88	2.6	1434	162	BG40-../DPE09XB4	19.84	1304	5800	-	-	112	51
2 HP (1.5 kW)	80	2.4	1584	179	BG40-../DPE09XB4	22.02	1349	6000	-	-	112	51
2 HP (1.5 kW)	79	1.1	1602	181	BG20-../DPE09XB4	22.16	787	3500	-	-	71	32
2 HP (1.5 kW)	79	1.65	1602	181	BG30-../DPE09XB4	22.18	1034	4600	-	-	82	37
2 HP (1.5 kW)	76	1.05	1664	188	BG20-../DPE09XB4	23.22	798	3550	-	-	71	32
2 HP (1.5 kW)	75	2.2	1690	191	BG40-../DPE09XB4	23.43	1394	6200	-	-	112	51
2 HP (1.5 kW)	72	3.2	1752	198	BG50-../DPE09XB4	24.34	1956	8700	-	-	130	59
2 HP (1.5 kW)	69	1.45	1814	205	BG30-../DPE09XB4	25.45	1090	4850	-	-	82	37
2 HP (1.5 kW)	68	0.95	1859	210	BG20-../DPE09XB4	25.79	832	3700	-	-	71	32
2 HP (1.5 kW)	68	2.0	1859	210	BG40-../DPE09XB4	26.01	1461	6500	-	-	112	51
2 HP (1.5 kW)	63	0.89	1991	225	BG20-../DPE09XB4	27.85	854	3800	-	-	71	32
2 HP (1.5 kW)	62	1.3	2036	230	BG30-../DPE09XB4	28.24	1147	5100	-	-	82	37
2 HP (1.5 kW)	60	1.8	2080	235	BG40-../DPE09XB4	29.34	1529	6800	-	-	112	51
2 HP (1.5 kW)	59	1.25	2124	240	BG30-../DPE09XB4	29.83	1169	5200	-	-	82	37
2 HP (1.5 kW)	59	2.6	2124	240	BG50-../DPE09XB4	29.62	1798	8000	-	-	130	59
2 HP (1.5 kW)	57	0.8	2213	250	BG20-../DPE09XB4	30.94	899	4000	-	-	71	32
2 HP (1.5 kW)	54	1.6	2345	265	BG40-../DPE09XB4	32.57	1574	7000	-	-	112	51
2 HP (1.5 kW)	54	2.4	2345	265	BG50-../DPE09XB4	32.84	1956	8700	-	-	130	59
2 HP (1.5 kW)	53	1.1	2390	270	BG30-../DPE09XB4	33.09	1214	5400	-	-	82	37
2 HP (1.5 kW)	52	1.55	2434	275	BG40-../DPE09XB4	34.20	1574	7000	-	-	112	51
2 HP (1.5 kW)	50	1.05	2522	285	BG30-../DPE09XB4	35.17	1236	5500	-	-	82	37
2 HP (1.5 kW)	46.5	2.1	2699	305	BG50-../DPE09XB4	37.89	2248	10000	-	-	130	59
2 HP (1.5 kW)	46	1.35	2744	310	BG40-../DPE09XB4	37.96	1574	7000	-	-	112	51
2 HP (1.5 kW)	45	0.95	2788	315	BG30-../DPE09XB4	39.02	1304	5800	-	-	82	37
2 HP (1.5 kW)	43.5	1.3	2876	325	BG40-../DPE09XB4	40.19	1574	7000	-	-	112	51
2 HP (1.5 kW)	42	1.85	3009	340	BG50-../DPE09XB4	42.00	2248	10000	-	-	130	59
2 HP (1.5 kW)	41.5	0.87	3054	345	BG30-../DPE09XB4	42.46	1326	5900	-	-	82	37
2 HP (1.5 kW)	39.5	1.2	3186	360	BG40-../DPE09XB4	44.62	1574	7000	-	-	112	51
2 HP (1.5 kW)	37.5	1.65	3363	380	BG50-../DPE09XB4	47.02	2248	10000	-	-	130	59
2 HP (1.5 kW)	36.5	1.1	3452	390	BG40-../DPE09XB4	48.36	1574	7000	-	-	112	51
2 HP (1.5 kW)	35	3.0	3585	405	BG60-../DPE09XB4	50.31	3597	16000	-	-	198	90

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
2 HP (1.5 kW)	33.5	1.5	3762	425	BG50-../DPE09XB4	52.12	2248	10000	-	-	-	-	130	59
2 HP (1.5 kW)	33	0.99	3806	430	BG40-../DPE09XB4	53.69	1574	7000	-	-	-	-	112	51
2 HP (1.5 kW)	31.5	2.7	3983	450	BG60-../DPE09XB4	55.76	3597	16000	-	-	-	-	198	90
2 HP (1.5 kW)	29.5	0.88	4293	485	BG40-../DPE09XB4	59.64	1574	7000	-	-	-	-	112	51
2 HP (1.5 kW)	29.5	1.3	4293	485	BG50-../DPE09XB4	59.42	2248	10000	-	-	-	-	130	59
2 HP (1.5 kW)	29	2.4	4337	490	BG60-../DPE09XB4	60.90	3597	16000	-	-	-	-	198	90
2 HP (1.5 kW)	26.5	1.15	4779	540	BG50-../DPE09XB4	65.86	2248	10000	-	-	-	-	130	59
2 HP (1.5 kW)	26	2.2	4868	550	BG60-../DPE09XB4	67.49	3597	16000	-	-	-	-	198	90
2 HP (1.5 kW)	24.5	1.1	5133	580	BG50Z-../DPE09XB4	71.97	2248	10000	-	-	-	-	141	64
2 HP (1.5 kW)	23.5	2.0	5310	600	BG60Z-../DPE09XB4	75.71	3597	16000	-	-	-	-	240	109
2 HP (1.5 kW)	22	0.97	5753	650	BG50Z-../DPE09XB4	79.78	2248	10000	-	-	-	-	141	64
2 HP (1.5 kW)	20	3.2	6284	710	BG70Z-../DPE09XB4	87.61	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	19.5	1.65	6461	730	BG60Z-../DPE09XB4	91.09	3597	16000	-	-	-	-	240	109
2 HP (1.5 kW)	18.5	0.82	6815	770	BG50Z-../DPE09XB4	95.58	2248	10000	-	-	-	-	141	64
2 HP (1.5 kW)	18.5	3.0	6815	770	BG70Z-../DPE09XB4	95.74	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	17.5	1.5	7169	810	BG60Z-../DPE09XB4	101.0	3597	16000	-	-	-	-	240	109
2 HP (1.5 kW)	15.5	2.5	8143	920	BG70Z-../DPE09XB4	113.6	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	15	1.25	8408	950	BG60Z-../DPE09XB4	119.2	3597	16000	-	-	-	-	240	109
2 HP (1.5 kW)	14.5	2.3	8674	980	BG70Z-../DPE09XB4	124.0	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	13.5	1.15	9382	1060	BG60Z-../DPE09XB4	132.1	3597	16000	-	-	-	-	240	109
2 HP (1.5 kW)	12	1.95	10532	1190	BG70Z-../DPE09XB4	147.2	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	11.5	0.97	10975	1240	BG60Z-../DPE09XB4	158.0	3597	16000	-	-	-	-	240	109
2 HP (1.5 kW)	11	1.75	11506	1300	BG70Z-../DPE09XB4	163.8	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	11	3.2	11506	1300	BG80Z-../DPE09XB4	161.5	5845	26000	-	-	-	-	478	217
2 HP (1.5 kW)	10	0.84	12657	1430	BG60Z-../DPE09XB4	175.1	3597	16000	-	-	-	-	240	109
2 HP (1.5 kW)	9.4	2.8	13453	1520	BG80Z-../DPE09XB4	186.8	5845	26000	-	-	-	-	478	217
2 HP (1.5 kW)	9.0	1.45	14073	1590	BG70Z-../DPE09XB4	194.4	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	8.5	2.5	14869	1680	BG80Z-../DPE09XB4	207.4	5845	26000	-	-	-	-	478	217
2 HP (1.5 kW)	8.3	1.35	15223	1720	BG70Z-../DPE09XB4	210.5	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	7.7	2.9	13984	1580	BG80G40-../DPE09XB4	227.2	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	7.0	1.15	17701	2000	BG70Z-../DPE09XB4	249.8	4496	20000	-	-	-	-	328	149
2 HP (1.5 kW)	7.0	2.7	15312	1730	BG80G40-../DPE09XB4	252.3	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	6.9	1.3	17347	1960	BG70G20-../DPE09XB4	255.5	4496	20000	-	-	-	-	322	146
2 HP (1.5 kW)	6.4	1.2	18587	2100	BG70G20-../DPE09XB4	276.7	4496	20000	-	-	-	-	322	146
2 HP (1.5 kW)	6.2	2.3	17701	2000	BG80G40-../DPE09XB4	282.8	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	5.6	2.1	19472	2200	BG80G40-../DPE09XB4	314.0	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	5.4	1.0	22127	2500	BG70G20-../DPE09XB4	328.4	4496	20000	-	-	-	-	322	146
2 HP (1.5 kW)	4.9	1.8	22569	2550	BG80G40-../DPE09XB4	360.0	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	4.6	0.85	26110	2950	BG70G20-../DPE09XB4	387.6	4496	20000	-	-	-	-	322	146
2 HP (1.5 kW)	4.4	1.6	25225	2850	BG80G40-../DPE09XB4	399.8	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	4.1	1.45	27880	3150	BG80G40-../DPE09XB4	436.2	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	4.1	3.0	27437	3100	BG90G50-../DPE09XB4	435.8	14613	65000	-	-	-	-	745	338
2 HP (1.5 kW)	3.7	1.35	30535	3450	BG80G40-../DPE09XB4	484.3	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	3.5	2.6	31863	3600	BG90G50-../DPE09XB4	504.7	14613	65000	-	-	-	-	745	338
2 HP (1.5 kW)	3.1	1.1	37173	4200	BG80G40-../DPE09XB4	572.0	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	3.0	2.2	37173	4200	BG90G50-../DPE09XB4	588.8	14613	65000	-	-	-	-	745	338
2 HP (1.5 kW)	2.8	2.0	39828	4500	BG90G50-../DPE09XB4	644.7	14613	65000	-	-	-	-	745	338
2 HP (1.5 kW)	2.7	0.96	42484	4800	BG80G40-../DPE09XB4	657.8	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	2.5	1.85	44254	5000	BG90G50-../DPE09XB4	714.2	14613	65000	-	-	-	-	745	338
2 HP (1.5 kW)	2.4	0.85	47794	5400	BG80G40-../DPE09XB4	730.3	5845	26000	-	-	-	-	503	228
2 HP (1.5 kW)	2.3	3.0	54875	6200	BG100Z-../DPE09XB4	759.0	20233	90000	-	-	-	-	1160	526
2 HP (1.5 kW)	2.1	2.7	60185	6800	BG100Z-../DPE09XB4	845.1	20233	90000	-	-	-	-	1160	526
2 HP (1.5 kW)	2.0	1.45	56645	6400	BG90G50-../DPE09XB4	883.7	14613	65000	-	-	-	-	745	338
2 HP (1.5 kW)	1.8	2.9	55760	6300	BG100G50-../DPE09XB4	976.1	20233	90000	-	-	-	-	1157	525
2 HP (1.5 kW)	1.7	2.6	61955	7000	BG100G50-../DPE09XB4	1043	20233	90000	-	-	-	-	1157	525
2 HP (1.5 kW)	1.5	1.05	77887	8800	BG90G50-../DPE09XB4	1174	14613	65000	-	-	-	-	745	338
2 HP (1.5 kW)	1.5	2.3	69921	7900	BG100G50-../DPE09XB4	1204	20233	90000	-	-	-	-	1157	525
2 HP (1.5 kW)	1.4	0.97	84082	9500	BG90G50-../DPE09XB4	1301	14613	65000	-	-	-	-	745	338

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

2 HP (1.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
2 HP (1.5 kW)	1.3	1.95	84967	9600	BG100G50-../DPE09XB4	1444	20233	90000	-	-	1157	525
2 HP (1.5 kW)	1.2	0.82	99128	11200	BG90G50-../DPE09XB4	1583	14613	65000	-	-	745	338
2 HP (1.5 kW)	1.1	1.6	100899	11400	BG100G50-../DPE09XB4	1678	20233	90000	-	-	1157	525
2 HP (1.5 kW)	0.95	1.4	116830	13200	BG100G50-../DPE09XB4	1867	20233	90000	-	-	1157	525
2 HP (1.5 kW)	0.85	1.25	130106	14700	BG100G50-../DPE09XB4	2154	20233	90000	-	-	1157	525
2 HP (1.5 kW)	0.7	1.0	160198	18100	BG100G50-../DPE09XB4	2656	20233	90000	-	-	1157	525

2.4 HP (1.8 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
2.4 HP (1.8 kW)	700	2.3	217	24.5	BG10-../DPE09XB4C	2.52	128	570	178	790	71	32
2.4 HP (1.8 kW)	530	2.9	283	32	BG20-../DPE09XB4C	3.33	411	1830	-	-	77	35
2.4 HP (1.8 kW)	520	1.9	292	33	BG10-../DPE09XB4C	3.42	142	630	198	880	71	32
2.4 HP (1.8 kW)	405	1.6	372	42	BG10-../DPE09XB4C	4.36	146	650	205	910	71	32
2.4 HP (1.8 kW)	405	2.5	372	42	BG20-../DPE09XB4C	4.38	447	1990	-	-	77	35
2.4 HP (1.8 kW)	330	1.45	460	52	BG10-../DPE09XB4C	5.34	139	620	205	910	71	32
2.4 HP (1.8 kW)	325	2.2	460	52	BG20-../DPE09XB4C	5.49	472	2100	-	-	77	35
2.4 HP (1.8 kW)	295	2.2	513	58	BG20-../DPE09XB4C	6.06	506	2250	-	-	77	35
2.4 HP (1.8 kW)	275	1.95	549	62	BG20-../DPE09XB4C	6.48	506	2250	-	-	77	35
2.4 HP (1.8 kW)	265	2.0	566	64	BG20-../DPE09XB4C	6.73	528	2350	472	2100	77	35
2.4 HP (1.8 kW)	260	1.35	584	66	BG10-../DPE09XB4C	6.89	191	850	270	1200	71	32
2.4 HP (1.8 kW)	235	1.2	646	73	BG10-../DPE09XB4C	7.63	202	900	281	1250	71	32
2.4 HP (1.8 kW)	235	3.2	646	73	BG30-../DPE09XB4C	7.50	618	2750	-	-	86	39
2.4 HP (1.8 kW)	225	2.9	673	76	BG30-../DPE09XB4C	7.91	396	1760	-	-	86	39
2.4 HP (1.8 kW)	220	1.15	690	78	BG10-../DPE09XB4C	8.07	148	660	207	920	71	32
2.4 HP (1.8 kW)	220	1.75	690	78	BG20-../DPE09XB4C	8.02	562	2500	-	-	77	35
2.4 HP (1.8 kW)	215	1.55	699	79	BG20-../DPE09XB4C	8.29	506	2250	-	-	77	35
2.4 HP (1.8 kW)	205	3.0	735	83	BG30-../DPE09XB4C	8.60	629	2800	-	-	86	39
2.4 HP (1.8 kW)	198	1.65	761	86	BG20-../DPE09XB4C	8.91	585	2600	-	-	77	35
2.4 HP (1.8 kW)	189	1.1	797	90	BG10-../DPE09XB4C	9.33	214	950	299	1330	71	32
2.4 HP (1.8 kW)	185	2.8	814	92	BG30-../DPE09XB4C	9.55	674	3000	-	-	86	39
2.4 HP (1.8 kW)	183	1.3	823	93	BG20-../DPE09XB4C	9.65	506	2250	-	-	77	35
2.4 HP (1.8 kW)	171	0.99	885	100	BG10-../DPE09XB4C	10.34	225	1000	315	1400	71	32
2.4 HP (1.8 kW)	167	1.5	903	102	BG20-../DPE09XB4C	10.54	607	2700	-	-	77	35
2.4 HP (1.8 kW)	166	2.6	912	103	BG30-../DPE09XB4C	10.65	663	2950	-	-	86	39
2.4 HP (1.8 kW)	151	1.4	1000	113	BG20-../DPE09XB4C	11.71	629	2800	-	-	77	35
2.4 HP (1.8 kW)	149	2.4	1018	115	BG30-../DPE09XB4C	11.82	719	3200	-	-	86	39
2.4 HP (1.8 kW)	148	0.91	1027	116	BG10-../DPE09XB4C	11.92	232	1030	324	1440	71	32
2.4 HP (1.8 kW)	137	3.3	1106	125	BG40-../DPE09XB4C	12.86	1012	4500	-	-	119	54
2.4 HP (1.8 kW)	134	0.86	1133	128	BG10-../DPE09XB4C	13.21	241	1070	335	1490	71	32
2.4 HP (1.8 kW)	134	1.3	1133	128	BG20-../DPE09XB4C	13.21	652	2900	-	-	77	35
2.4 HP (1.8 kW)	128	2.2	1186	134	BG30-../DPE09XB4C	13.77	708	3150	-	-	86	39
2.4 HP (1.8 kW)	124	3.1	1221	138	BG40-../DPE09XB4C	14.28	1102	4900	-	-	119	54
2.4 HP (1.8 kW)	121	0.8	1257	142	BG10-../DPE09XB4C	14.58	247	1100	346	1540	71	32
2.4 HP (1.8 kW)	120	1.2	1266	143	BG20-../DPE09XB4C	14.67	686	3050	-	-	77	35
2.4 HP (1.8 kW)	116	2.0	1310	148	BG30-../DPE09XB4C	15.27	776	3450	-	-	86	39
2.4 HP (1.8 kW)	113	1.15	1345	152	BG20-../DPE09XB4C	15.58	697	3100	-	-	77	35
2.4 HP (1.8 kW)	108	2.7	1407	159	BG40-../DPE09XB4C	16.39	1191	5300	-	-	119	54
2.4 HP (1.8 kW)	104	1.8	1460	165	BG30-../DPE09XB4C	17.06	832	3700	-	-	86	39
2.4 HP (1.8 kW)	102	1.1	1487	168	BG20-../DPE09XB4C	17.31	719	3200	-	-	77	35
2.4 HP (1.8 kW)	97	2.4	1567	177	BG40-../DPE09XB4C	18.19	1259	5600	-	-	119	54

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

2.4 HP (1.8 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
2.4 HP (1.8 kW)	93	1.65	1629	184	BG30-../DPE09XB4C	18.93	922	4100	-	-	86	39
2.4 HP (1.8 kW)	89	1.0	1708	193	BG20-../DPE09XB4C	19.95	753	3350	-	-	77	35
2.4 HP (1.8 kW)	89	1.55	1708	193	BG30-../DPE09XB4C	19.99	944	4200	-	-	86	39
2.4 HP (1.8 kW)	89	2.2	1708	193	BG40-../DPE09XB4C	19.84	1304	5800	-	-	119	54
2.4 HP (1.8 kW)	81	3.0	1859	210	BG50-../DPE09XB4C	21.96	1798	8000	-	-	137	62
2.4 HP (1.8 kW)	80	0.95	1859	210	BG20-../DPE09XB4C	22.16	787	3500	-	-	77	35
2.4 HP (1.8 kW)	80	1.45	1859	210	BG30-../DPE09XB4C	22.18	1034	4600	-	-	86	39
2.4 HP (1.8 kW)	80	2.0	1859	210	BG40-../DPE09XB4C	22.02	1349	6000	-	-	119	54
2.4 HP (1.8 kW)	76	0.89	1991	225	BG20-../DPE09XB4C	23.22	798	3550	-	-	77	35
2.4 HP (1.8 kW)	76	1.9	1991	225	BG40-../DPE09XB4C	23.43	1394	6200	-	-	119	54
2.4 HP (1.8 kW)	73	2.7	2080	235	BG50-../DPE09XB4C	24.34	1956	8700	-	-	137	62
2.4 HP (1.8 kW)	70	1.2	2168	245	BG30-../DPE09XB4C	25.45	1090	4850	-	-	86	39
2.4 HP (1.8 kW)	69	0.82	2168	245	BG20-../DPE09XB4C	25.79	832	3700	-	-	77	35
2.4 HP (1.8 kW)	68	1.7	2213	250	BG40-../DPE09XB4C	26.01	1461	6500	-	-	119	54
2.4 HP (1.8 kW)	63	1.1	2390	270	BG30-../DPE09XB4C	28.24	1147	5100	-	-	86	39
2.4 HP (1.8 kW)	60	1.05	2522	285	BG30-../DPE09XB4C	29.83	1169	5200	-	-	86	39
2.4 HP (1.8 kW)	60	1.5	2522	285	BG40-../DPE09XB4C	29.34	1529	6800	-	-	119	54
2.4 HP (1.8 kW)	60	2.2	2522	285	BG50-../DPE09XB4C	29.62	1798	8000	-	-	137	62
2.4 HP (1.8 kW)	55	1.35	2744	310	BG40-../DPE09XB4C	32.57	1574	7000	-	-	119	54
2.4 HP (1.8 kW)	54	0.95	2788	315	BG30-../DPE09XB4C	33.09	1214	5400	-	-	86	39
2.4 HP (1.8 kW)	54	2.0	2788	315	BG50-../DPE09XB4C	32.84	1956	8700	-	-	137	62
2.4 HP (1.8 kW)	52	1.3	2921	330	BG40-../DPE09XB4C	34.20	1574	7000	-	-	119	54
2.4 HP (1.8 kW)	51	0.9	2965	335	BG30-../DPE09XB4C	35.17	1236	5500	-	-	86	39
2.4 HP (1.8 kW)	46.5	1.15	3231	365	BG40-../DPE09XB4C	37.96	1574	7000	-	-	119	54
2.4 HP (1.8 kW)	46.5	1.75	3231	365	BG50-../DPE09XB4C	37.89	2248	10000	-	-	137	62
2.4 HP (1.8 kW)	45.5	0.8	3319	375	BG30-../DPE09XB4C	39.02	1304	5800	-	-	86	39
2.4 HP (1.8 kW)	45.5	3.2	3319	375	BG60-../DPE09XB4C	38.85	3597	16000	-	-	203	92
2.4 HP (1.8 kW)	44	1.1	3452	390	BG40-../DPE09XB4C	40.19	1574	7000	-	-	119	54
2.4 HP (1.8 kW)	42	1.55	3585	405	BG50-../DPE09XB4C	42.00	2248	10000	-	-	137	62
2.4 HP (1.8 kW)	41	2.9	3673	415	BG60-../DPE09XB4C	43.05	3597	16000	-	-	203	92
2.4 HP (1.8 kW)	39.5	0.98	3850	435	BG40-../DPE09XB4C	44.62	1574	7000	-	-	119	54
2.4 HP (1.8 kW)	37.5	1.4	4027	455	BG50-../DPE09XB4C	47.02	2248	10000	-	-	137	62
2.4 HP (1.8 kW)	36.5	0.9	4160	470	BG40-../DPE09XB4C	48.36	1574	7000	-	-	119	54
2.4 HP (1.8 kW)	35	2.4	4337	490	BG60-../DPE09XB4C	50.31	3597	16000	-	-	203	92
2.4 HP (1.8 kW)	34	1.25	4425	500	BG50-../DPE09XB4C	52.12	2248	10000	-	-	137	62
2.4 HP (1.8 kW)	33	0.82	4602	520	BG40-../DPE09XB4C	53.69	1574	7000	-	-	119	54
2.4 HP (1.8 kW)	32	2.3	4691	530	BG60-../DPE09XB4C	55.76	3597	16000	-	-	203	92
2.4 HP (1.8 kW)	30	1.1	5045	570	BG50-../DPE09XB4C	59.42	2248	10000	-	-	137	62
2.4 HP (1.8 kW)	29	2.0	5222	590	BG60-../DPE09XB4C	60.90	3597	16000	-	-	203	92
2.4 HP (1.8 kW)	27	1.0	5576	630	BG50-../DPE09XB4C	65.86	2248	10000	-	-	137	62
2.4 HP (1.8 kW)	26.5	1.9	5664	640	BG60-../DPE09XB4C	67.49	3597	16000	-	-	203	92
2.4 HP (1.8 kW)	26	1.8	5841	660	BG60Z-../DPE09XB4C	68.32	3597	16000	-	-	247	112
2.4 HP (1.8 kW)	24.5	0.9	6196	700	BG50Z-../DPE09XB4C	71.97	2248	10000	-	-	148	67
2.4 HP (1.8 kW)	24	3.2	6284	710	BG70Z-../DPE09XB4C	73.82	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	23.5	1.65	6461	730	BG60Z-../DPE09XB4C	75.71	3597	16000	-	-	247	112
2.4 HP (1.8 kW)	22.5	0.83	6727	760	BG50Z-../DPE09XB4C	79.78	2248	10000	-	-	148	67
2.4 HP (1.8 kW)	20.5	2.8	7346	830	BG70Z-../DPE09XB4C	87.61	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	19.5	1.35	7789	880	BG60Z-../DPE09XB4C	91.09	3597	16000	-	-	247	112
2.4 HP (1.8 kW)	18.5	2.5	8143	920	BG70Z-../DPE09XB4C	95.74	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	17.5	1.2	8674	980	BG60Z-../DPE09XB4C	101.0	3597	16000	-	-	247	112
2.4 HP (1.8 kW)	15.5	2.1	9736	1100	BG70Z-../DPE09XB4C	113.6	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	15	1.05	10090	1140	BG60Z-../DPE09XB4C	119.2	3597	16000	-	-	247	112
2.4 HP (1.8 kW)	14.5	1.95	10444	1180	BG70Z-../DPE09XB4C	124.0	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	13.5	0.94	11240	1270	BG60Z-../DPE09XB4C	132.1	3597	16000	-	-	247	112
2.4 HP (1.8 kW)	12.5	3.1	12126	1370	BG80Z-../DPE09XB4C	145.4	5845	26000	-	-	483	219
2.4 HP (1.8 kW)	12	1.6	12657	1430	BG70Z-../DPE09XB4C	147.2	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	11.5	0.81	13188	1490	BG60Z-../DPE09XB4C	158.0	3597	16000	-	-	247	112
2.4 HP (1.8 kW)	11	1.45	13807	1560	BG70Z-../DPE09XB4C	163.8	4496	20000	-	-	333	151

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

2.4 HP (1.8 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
2.4 HP (1.8 kW)	11	2.7	13807	1560	BG80Z-../DPE09XB4C	161.5	5845	26000	-	-	483	219
2.4 HP (1.8 kW)	9.5	2.3	15931	1800	BG80Z-../DPE09XB4C	186.8	5845	26000	-	-	483	219
2.4 HP (1.8 kW)	9.1	1.2	16639	1880	BG70Z-../DPE09XB4C	194.4	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	8.5	2.1	17701	2000	BG80Z-../DPE09XB4C	207.4	5845	26000	-	-	483	219
2.4 HP (1.8 kW)	8.4	1.15	17701	2000	BG70Z-../DPE09XB4C	210.5	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	7.8	2.4	16993	1920	BG80G40-../DPE09XB4C	227.2	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	7.1	0.96	21242	2400	BG70Z-../DPE09XB4C	249.8	4496	20000	-	-	333	151
2.4 HP (1.8 kW)	7.0	2.2	18587	2100	BG80G40-../DPE09XB4C	252.3	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	6.9	1.05	20799	2350	BG70G20-../DPE09XB4C	255.5	4496	20000	-	-	328	149
2.4 HP (1.8 kW)	6.4	0.98	22569	2550	BG70G20-../DPE09XB4C	276.7	4496	20000	-	-	328	149
2.4 HP (1.8 kW)	6.3	1.9	21242	2400	BG80G40-../DPE09XB4C	282.8	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	5.7	1.75	23454	2650	BG80G40-../DPE09XB4C	314.0	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	5.4	0.83	26552	3000	BG70G20-../DPE09XB4C	328.4	4496	20000	-	-	328	149
2.4 HP (1.8 kW)	4.9	1.45	27880	3150	BG80G40-../DPE09XB4C	360.0	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	4.9	3.1	26552	3000	BG90G50-../DPE09XB4C	360.3	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	4.5	1.35	30093	3400	BG80G40-../DPE09XB4C	399.8	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	4.1	1.2	34075	3850	BG80G40-../DPE09XB4C	436.2	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	4.1	2.4	33633	3800	BG90G50-../DPE09XB4C	435.8	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	3.7	1.1	37616	4250	BG80G40-../DPE09XB4C	484.3	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	3.5	2.1	38943	4400	BG90G50-../DPE09XB4C	504.7	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	3.1	0.9	45139	5100	BG80G40-../DPE09XB4C	572.0	5845	26000	-	-	509	231
2.4 HP (1.8 kW)	3.0	1.8	45139	5100	BG90G50-../DPE09XB4C	588.8	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	3.0	3.2	50449	5700	BG100Z-../DPE09XB4C	591.1	20233	90000	-	-	1164	528
2.4 HP (1.8 kW)	2.8	1.65	48679	5500	BG90G50-../DPE09XB4C	644.7	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	2.7	2.9	55760	6300	BG100Z-../DPE09XB4C	658.1	20233	90000	-	-	1164	528
2.4 HP (1.8 kW)	2.5	1.5	54875	6200	BG90G50-../DPE09XB4C	714.2	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	2.4	2.6	62840	7100	BG100Z-../DPE09XB4C	759.0	20233	90000	-	-	1164	528
2.4 HP (1.8 kW)	2.1	2.3	71691	8100	BG100Z-../DPE09XB4C	845.1	20233	90000	-	-	1164	528
2.4 HP (1.8 kW)	2.0	1.15	69921	7900	BG90G50-../DPE09XB4C	883.7	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	1.9	2.5	65496	7400	BG100G50-../DPE09XB4C	976.1	20233	90000	-	-	1162	527
2.4 HP (1.8 kW)	1.7	2.1	77001	8700	BG100G50-../DPE09XB4C	1043	20233	90000	-	-	1162	527
2.4 HP (1.8 kW)	1.5	0.86	94703	10700	BG90G50-../DPE09XB4C	1174	14613	65000	-	-	750	340
2.4 HP (1.8 kW)	1.5	1.9	86737	9800	BG100G50-../DPE09XB4C	1204	20233	90000	-	-	1162	527
2.4 HP (1.8 kW)	1.3	1.55	104439	11800	BG100G50-../DPE09XB4C	1444	20233	90000	-	-	1162	527
2.4 HP (1.8 kW)	1.1	1.3	123910	14000	BG100G50-../DPE09XB4C	1678	20233	90000	-	-	1162	527
2.4 HP (1.8 kW)	0.95	1.15	144267	16300	BG100G50-../DPE09XB4C	1867	20233	90000	-	-	1162	527
2.4 HP (1.8 kW)	0.85	1.0	160198	18100	BG100G50-../DPE09XB4C	2154	20233	90000	-	-	1162	527

3 HP (2.2 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
3 HP (2.2 kW)	660	4.1	279	31.5	BG30-../DPE11LB4	2.67	326	1450	-	-	128	58
3 HP (2.2 kW)	520	3.5	354	40	BG30-../DPE11LB4	3.40	355	1580	-	-	128	58
3 HP (2.2 kW)	420	3.4	443	50	BG30-../DPE11LB4	4.21	366	1630	-	-	128	58
3 HP (2.2 kW)	325	3.1	566	64	BG30-../DPE11LB4	5.44	375	1670	-	-	128	58
3 HP (2.2 kW)	265	2.9	699	79	BG30-../DPE11LB4	6.76	573	2550	-	-	128	58
3 HP (2.2 kW)	235	2.6	788	89	BG30-../DPE11LB4	7.50	618	2750	-	-	128	58
3 HP (2.2 kW)	235	3.3	788	89	BG40-../DPE11LB4	7.62	596	2650	-	-	170	77
3 HP (2.2 kW)	225	2.3	823	93	BG30-../DPE11LB4	7.91	396	1760	-	-	128	58
3 HP (2.2 kW)	205	2.4	903	102	BG30-../DPE11LB4	8.60	629	2800	-	-	128	58
3 HP (2.2 kW)	196	2.8	947	107	BG40-../DPE11LB4	9.00	596	2650	-	-	170	77

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

3 HP (2.2 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
3 HP (2.2 kW)	191	3.2	974	110	BG40-../DPE11LB4	9.23	978	4350	-	-	170	77
3 HP (2.2 kW)	185	2.2	1000	113	BG30-../DPE11LB4	9.55	674	3000	-	-	128	58
3 HP (2.2 kW)	171	3.1	1080	122	BG40-../DPE11LB4	10.35	978	4350	-	-	170	77
3 HP (2.2 kW)	166	2.1	1115	126	BG30-../DPE11LB4	10.65	663	2950	-	-	128	58
3 HP (2.2 kW)	154	2.9	1204	136	BG40-../DPE11LB4	11.49	1034	4600	-	-	170	77
3 HP (2.2 kW)	149	1.95	1248	141	BG30-../DPE11LB4	11.82	719	3200	-	-	128	58
3 HP (2.2 kW)	137	2.7	1354	153	BG40-../DPE11LB4	12.86	1012	4500	-	-	170	77
3 HP (2.2 kW)	128	1.8	1452	164	BG30-../DPE11LB4	13.77	708	3150	-	-	128	58
3 HP (2.2 kW)	124	2.5	1496	169	BG40-../DPE11LB4	14.28	1102	4900	-	-	170	77
3 HP (2.2 kW)	116	1.65	1602	181	BG30-../DPE11LB4	15.27	776	3450	-	-	128	58
3 HP (2.2 kW)	108	2.2	1717	194	BG40-../DPE11LB4	16.39	1191	5300	-	-	170	77
3 HP (2.2 kW)	107	3.2	1735	196	BG50-../DPE11LB4	16.53	1461	6500	-	-	190	86
3 HP (2.2 kW)	104	1.5	1770	200	BG30-../DPE11LB4	17.06	832	3700	-	-	128	58
3 HP (2.2 kW)	97	2.0	1903	215	BG40-../DPE11LB4	18.19	1259	5600	-	-	170	77
3 HP (2.2 kW)	97	2.9	1903	215	BG50-../DPE11LB4	18.33	1619	7200	-	-	190	86
3 HP (2.2 kW)	93	1.35	1991	225	BG30-../DPE11LB4	18.93	922	4100	-	-	128	58
3 HP (2.2 kW)	89	1.3	2080	235	BG30-../DPE11LB4	19.99	944	4200	-	-	128	58
3 HP (2.2 kW)	89	1.8	2080	235	BG40-../DPE11LB4	19.84	1304	5800	-	-	170	77
3 HP (2.2 kW)	81	2.5	2257	255	BG50-../DPE11LB4	21.96	1798	8000	-	-	190	86
3 HP (2.2 kW)	80	1.15	2301	260	BG30-../DPE11LB4	22.18	1034	4600	-	-	128	58
3 HP (2.2 kW)	80	1.65	2301	260	BG40-../DPE11LB4	22.02	1349	6000	-	-	170	77
3 HP (2.2 kW)	76	1.55	2434	275	BG40-../DPE11LB4	23.43	1394	6200	-	-	170	77
3 HP (2.2 kW)	73	2.2	2522	285	BG50-../DPE11LB4	24.34	1956	8700	-	-	190	86
3 HP (2.2 kW)	68	1.4	2699	305	BG40-../DPE11LB4	26.01	1461	6500	-	-	170	77
3 HP (2.2 kW)	60	1.8	3098	350	BG50-../DPE11LB4	29.62	1798	8000	-	-	190	86
3 HP (2.2 kW)	55	3.2	3363	380	BG60-../DPE11LB4	32.48	3462	15400	-	-	262	119
3 HP (2.2 kW)	54	1.65	3408	385	BG50-../DPE11LB4	32.84	1956	8700	-	-	190	86
3 HP (2.2 kW)	46.5	1.4	3983	450	BG50-../DPE11LB4	37.89	2248	10000	-	-	190	86
3 HP (2.2 kW)	45.5	2.6	4071	460	BG60-../DPE11LB4	38.85	3597	16000	-	-	262	119
3 HP (2.2 kW)	42	1.25	4425	500	BG50-../DPE11LB4	42.00	2248	10000	-	-	190	86
3 HP (2.2 kW)	41	2.4	4514	510	BG60-../DPE11LB4	43.05	3597	16000	-	-	262	119
3 HP (2.2 kW)	37.5	1.15	4956	560	BG50-../DPE11LB4	47.02	2248	10000	-	-	190	86
3 HP (2.2 kW)	35	2.0	5310	600	BG60-../DPE11LB4	50.31	3597	16000	-	-	262	119
3 HP (2.2 kW)	34	1.05	5399	610	BG50-../DPE11LB4	52.12	2248	10000	-	-	190	86
3 HP (2.2 kW)	32	1.85	5753	650	BG60-../DPE11LB4	55.76	3597	16000	-	-	262	119
3 HP (2.2 kW)	29.5	3.2	6284	710	BG70-../DPE11LB4	59.82	4496	20000	-	-	328	149
3 HP (2.2 kW)	29	1.65	6373	720	BG60-../DPE11LB4	60.90	3597	16000	-	-	262	119
3 HP (2.2 kW)	27.5	3.0	6727	760	BG70Z-../DPE11LB4	64.85	4496	20000	-	-	388	176
3 HP (2.2 kW)	26.5	1.5	6992	790	BG60-../DPE11LB4	67.49	3597	16000	-	-	262	119
3 HP (2.2 kW)	26	1.5	7081	800	BG60Z-../DPE11LB4	68.32	3597	16000	-	-	298	135
3 HP (2.2 kW)	24	2.6	7700	870	BG70Z-../DPE11LB4	73.82	4496	20000	-	-	388	176
3 HP (2.2 kW)	23.5	1.35	7877	890	BG60Z-../DPE11LB4	75.71	3597	16000	-	-	298	135
3 HP (2.2 kW)	20.5	2.3	9028	1020	BG70Z-../DPE11LB4	87.61	4496	20000	-	-	388	176
3 HP (2.2 kW)	19.5	1.1	9470	1070	BG60Z-../DPE11LB4	91.09	3597	16000	-	-	298	135
3 HP (2.2 kW)	18.5	2.0	10001	1130	BG70Z-../DPE11LB4	95.74	4496	20000	-	-	388	176
3 HP (2.2 kW)	17.5	1.0	10621	1200	BG60Z-../DPE11LB4	101.0	3597	16000	-	-	298	135
3 HP (2.2 kW)	16	3.2	11594	1310	BG80Z-../DPE11LB4	112.4	5845	26000	-	-	542	246
3 HP (2.2 kW)	15.5	1.7	11949	1350	BG70Z-../DPE11LB4	113.6	4496	20000	-	-	388	176
3 HP (2.2 kW)	15	0.86	12391	1400	BG60Z-../DPE11LB4	119.2	3597	16000	-	-	298	135
3 HP (2.2 kW)	14.5	1.6	12745	1440	BG70Z-../DPE11LB4	124.0	4496	20000	-	-	388	176
3 HP (2.2 kW)	14.5	2.9	12745	1440	BG80Z-../DPE11LB4	124.8	5845	26000	-	-	542	246
3 HP (2.2 kW)	12.5	2.5	14869	1680	BG80Z-../DPE11LB4	145.4	5845	26000	-	-	542	246
3 HP (2.2 kW)	12	1.3	15489	1750	BG70Z-../DPE11LB4	147.2	4496	20000	-	-	388	176
3 HP (2.2 kW)	11	1.2	16905	1910	BG70Z-../DPE11LB4	163.8	4496	20000	-	-	388	176
3 HP (2.2 kW)	11	2.2	16905	1910	BG80Z-../DPE11LB4	161.5	5845	26000	-	-	542	246
3 HP (2.2 kW)	9.5	1.9	19472	2200	BG80Z-../DPE11LB4	186.8	5845	26000	-	-	542	246
3 HP (2.2 kW)	9.1	1.0	20357	2300	BG70Z-../DPE11LB4	194.4	4496	20000	-	-	388	176
3 HP (2.2 kW)	8.5	1.7	21684	2450	BG80Z-../DPE11LB4	207.4	5845	26000	-	-	542	246

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

3 HP (2.2 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
3 HP (2.2 kW)	8.4	0.92	22127	2500	BG70Z-../DPE11LB4	210.5	4496	20000	-	-	388	176
3 HP (2.2 kW)	7.8	1.9	21242	2400	BG80G40-../DPE11LB4	227.2	5845	26000	-	-	560	254
3 HP (2.2 kW)	7.8	3.2	23454	2650	BG90Z-../DPE11LB4	228.1	14613	65000	-	-	767	348
3 HP (2.2 kW)	7.0	1.75	23454	2650	BG80G40-../DPE11LB4	252.3	5845	26000	-	-	560	254
3 HP (2.2 kW)	6.3	1.55	26552	3000	BG80G40-../DPE11LB4	282.8	5845	26000	-	-	560	254
3 HP (2.2 kW)	5.9	2.8	28765	3250	BG90G50-../DPE11LB4	298.8	14613	65000	-	-	805	365
3 HP (2.2 kW)	5.7	1.4	29207	3300	BG80G40-../DPE11LB4	314.0	5845	26000	-	-	560	254
3 HP (2.2 kW)	4.9	1.15	34960	3950	BG80G40-../DPE11LB4	360.0	5845	26000	-	-	560	254
3 HP (2.2 kW)	4.9	2.4	33633	3800	BG90G50-../DPE11LB4	360.3	14613	65000	-	-	805	365
3 HP (2.2 kW)	4.5	1.1	37616	4250	BG80G40-../DPE11LB4	399.8	5845	26000	-	-	560	254
3 HP (2.2 kW)	4.1	0.97	42041	4750	BG80G40-../DPE11LB4	436.2	5845	26000	-	-	560	254
3 HP (2.2 kW)	4.1	1.95	41599	4700	BG90G50-../DPE11LB4	435.8	14613	65000	-	-	805	365
3 HP (2.2 kW)	3.7	0.87	46909	5300	BG80G40-../DPE11LB4	484.3	5845	26000	-	-	560	254
3 HP (2.2 kW)	3.5	1.65	48679	5500	BG90G50-../DPE11LB4	504.7	14613	65000	-	-	805	365
3 HP (2.2 kW)	3.5	3.1	53104	6000	BG100Z-../DPE11LB4	508.5	20233	90000	-	-	1224	555
3 HP (2.2 kW)	3.0	1.45	56645	6400	BG90G50-../DPE11LB4	588.8	14613	65000	-	-	805	365
3 HP (2.2 kW)	3.0	2.6	61955	7000	BG100Z-../DPE11LB4	591.1	20233	90000	-	-	1224	555
3 HP (2.2 kW)	2.8	1.35	60185	6800	BG90G50-../DPE11LB4	644.7	14613	65000	-	-	805	365
3 HP (2.2 kW)	2.7	2.4	68151	7700	BG100Z-../DPE11LB4	658.1	20233	90000	-	-	1224	555
3 HP (2.2 kW)	2.5	1.2	68151	7700	BG90G50-../DPE11LB4	714.2	14613	65000	-	-	805	365
3 HP (2.2 kW)	2.4	2.1	77001	8700	BG100Z-../DPE11LB4	759.0	20233	90000	-	-	1224	555
3 HP (2.2 kW)	2.1	1.85	88507	10000	BG100Z-../DPE11LB4	845.1	20233	90000	-	-	1224	555
3 HP (2.2 kW)	2.0	0.94	86737	9800	BG90G50-../DPE11LB4	883.7	14613	65000	-	-	805	365
3 HP (2.2 kW)	1.9	1.95	83197	9400	BG100G50-../DPE11LB4	976.1	20233	90000	-	-	1217	552
3 HP (2.2 kW)	1.7	1.7	96473	10900	BG100G50-../DPE11LB4	1043	20233	90000	-	-	1217	552
3 HP (2.2 kW)	1.5	1.5	108864	12300	BG100G50-../DPE11LB4	1204	20233	90000	-	-	1217	552
3 HP (2.2 kW)	1.3	1.25	130106	14700	BG100G50-../DPE11LB4	1444	20233	90000	-	-	1217	552
3 HP (2.2 kW)	1.1	1.05	154003	17400	BG100G50-../DPE11LB4	1678	20233	90000	-	-	1217	552

4 HP (3 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
4 HP (3 kW)	660	3.0	381	43	BG30-../DPE11LB4	2.67	326	1450	-	-	128	58
4 HP (3 kW)	520	2.5	487	55	BG30-../DPE11LB4	3.40	355	1580	-	-	128	58
4 HP (3 kW)	420	2.5	602	68	BG30-../DPE11LB4	4.21	366	1630	-	-	128	58
4 HP (3 kW)	325	2.3	779	88	BG30-../DPE11LB4	5.44	375	1670	-	-	128	58
4 HP (3 kW)	275	3.0	920	104	BG40-../DPE11LB4	6.40	843	3750	-	-	170	77
4 HP (3 kW)	265	2.1	956	108	BG30-../DPE11LB4	6.76	573	2550	-	-	128	58
4 HP (3 kW)	250	2.9	1009	114	BG40-../DPE11LB4	7.11	888	3950	-	-	170	77
4 HP (3 kW)	235	1.9	1071	121	BG30-../DPE11LB4	7.50	618	2750	-	-	128	58
4 HP (3 kW)	235	2.4	1071	121	BG40-../DPE11LB4	7.62	596	2650	-	-	170	77
4 HP (3 kW)	225	1.7	1124	127	BG30-../DPE11LB4	7.91	396	1760	-	-	128	58
4 HP (3 kW)	215	2.6	1177	133	BG40-../DPE11LB4	8.31	922	4100	-	-	170	77
4 HP (3 kW)	205	1.75	1230	139	BG30-../DPE11LB4	8.60	629	2800	-	-	128	58
4 HP (3 kW)	196	2.0	1292	146	BG40-../DPE11LB4	9.00	596	2650	-	-	170	77
4 HP (3 kW)	191	2.4	1328	150	BG40-../DPE11LB4	9.23	978	4350	-	-	170	77
4 HP (3 kW)	185	1.65	1363	154	BG30-../DPE11LB4	9.55	674	3000	-	-	128	58
4 HP (3 kW)	171	2.3	1478	167	BG40-../DPE11LB4	10.35	978	4350	-	-	170	77
4 HP (3 kW)	166	1.55	1522	172	BG30-../DPE11LB4	10.65	663	2950	-	-	128	58
4 HP (3 kW)	154	2.1	1646	186	BG40-../DPE11LB4	11.49	1034	4600	-	-	170	77
4 HP (3 kW)	149	1.45	1699	192	BG30-../DPE11LB4	11.82	719	3200	-	-	128	58

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

4 HP (3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
4 HP (3 kW)	146	2.9	1735	196	BG50-../DPE11LB4	12.06	1281	5700	-	-	-	-	190	86
4 HP (3 kW)	137	2.0	1814	205	BG40-../DPE11LB4	12.86	1012	4500	-	-	-	-	170	77
4 HP (3 kW)	132	2.8	1903	215	BG50-../DPE11LB4	13.36	1371	6100	-	-	-	-	190	86
4 HP (3 kW)	128	1.35	1947	220	BG30-../DPE11LB4	13.77	708	3150	-	-	-	-	128	58
4 HP (3 kW)	124	1.85	2036	230	BG40-../DPE11LB4	14.28	1102	4900	-	-	-	-	170	77
4 HP (3 kW)	116	1.2	2168	245	BG30-../DPE11LB4	15.27	776	3450	-	-	-	-	128	58
4 HP (3 kW)	108	1.6	2345	265	BG40-../DPE11LB4	16.39	1191	5300	-	-	-	-	170	77
4 HP (3 kW)	107	2.4	2345	265	BG50-../DPE11LB4	16.53	1461	6500	-	-	-	-	190	86
4 HP (3 kW)	104	1.1	2434	275	BG30-../DPE11LB4	17.06	832	3700	-	-	-	-	128	58
4 HP (3 kW)	97	1.45	2611	295	BG40-../DPE11LB4	18.19	1259	5600	-	-	-	-	170	77
4 HP (3 kW)	97	2.1	2611	295	BG50-../DPE11LB4	18.33	1619	7200	-	-	-	-	190	86
4 HP (3 kW)	93	0.98	2699	305	BG30-../DPE11LB4	18.93	922	4100	-	-	-	-	128	58
4 HP (3 kW)	89	0.94	2832	320	BG30-../DPE11LB4	19.99	944	4200	-	-	-	-	128	58
4 HP (3 kW)	89	1.35	2832	320	BG40-../DPE11LB4	19.84	1304	5800	-	-	-	-	170	77
4 HP (3 kW)	81	1.8	3098	350	BG50-../DPE11LB4	21.96	1798	8000	-	-	-	-	190	86
4 HP (3 kW)	80	0.85	3142	355	BG30-../DPE11LB4	22.18	1034	4600	-	-	-	-	128	58
4 HP (3 kW)	80	1.2	3142	355	BG40-../DPE11LB4	22.02	1349	6000	-	-	-	-	170	77
4 HP (3 kW)	79	3.3	3186	360	BG60-../DPE11LB4	22.40	2990	13300	-	-	-	-	262	119
4 HP (3 kW)	76	1.15	3319	375	BG40-../DPE11LB4	23.43	1394	6200	-	-	-	-	170	77
4 HP (3 kW)	73	1.6	3452	390	BG50-../DPE11LB4	24.34	1956	8700	-	-	-	-	190	86
4 HP (3 kW)	71	3.0	3540	400	BG60-../DPE11LB4	24.82	3102	13800	-	-	-	-	262	119
4 HP (3 kW)	68	1.0	3717	420	BG40-../DPE11LB4	26.01	1461	6500	-	-	-	-	170	77
4 HP (3 kW)	61	2.6	4116	465	BG60-../DPE11LB4	29.31	3327	14800	-	-	-	-	262	119
4 HP (3 kW)	60	1.35	4204	475	BG50-../DPE11LB4	29.62	1798	8000	-	-	-	-	190	86
4 HP (3 kW)	55	2.3	4602	520	BG60-../DPE11LB4	32.48	3462	15400	-	-	-	-	262	119
4 HP (3 kW)	54	1.2	4691	530	BG50-../DPE11LB4	32.84	1956	8700	-	-	-	-	190	86
4 HP (3 kW)	46.5	1.05	5399	610	BG50-../DPE11LB4	37.89	2248	10000	-	-	-	-	190	86
4 HP (3 kW)	45.5	1.95	5487	620	BG60-../DPE11LB4	38.85	3597	16000	-	-	-	-	262	119
4 HP (3 kW)	42	0.93	6019	680	BG50-../DPE11LB4	42.00	2248	10000	-	-	-	-	190	86
4 HP (3 kW)	41	1.75	6107	690	BG60-../DPE11LB4	43.05	3597	16000	-	-	-	-	262	119
4 HP (3 kW)	38	3.1	6638	750	BG70-../DPE11LB4	46.54	4496	20000	-	-	-	-	328	149
4 HP (3 kW)	37.5	0.83	6727	760	BG50-../DPE11LB4	47.02	2248	10000	-	-	-	-	190	86
4 HP (3 kW)	35	1.5	7169	810	BG60-../DPE11LB4	50.31	3597	16000	-	-	-	-	262	119
4 HP (3 kW)	35	2.8	7169	810	BG70-../DPE11LB4	50.40	4496	20000	-	-	-	-	328	149
4 HP (3 kW)	32	1.35	7877	890	BG60-../DPE11LB4	55.76	3597	16000	-	-	-	-	262	119
4 HP (3 kW)	29.5	2.4	8585	970	BG70-../DPE11LB4	59.82	4496	20000	-	-	-	-	328	149
4 HP (3 kW)	29	1.2	8674	980	BG60-../DPE11LB4	60.90	3597	16000	-	-	-	-	262	119
4 HP (3 kW)	27.5	2.2	9205	1040	BG70Z-../DPE11LB4	64.85	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	26.5	1.1	9559	1080	BG60-../DPE11LB4	67.49	3597	16000	-	-	-	-	262	119
4 HP (3 kW)	26	1.1	9736	1100	BG60Z-../DPE11LB4	68.32	3597	16000	-	-	-	-	298	135
4 HP (3 kW)	24	1.95	10532	1190	BG70Z-../DPE11LB4	73.82	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	23.5	0.99	10709	1210	BG60Z-../DPE11LB4	75.71	3597	16000	-	-	-	-	298	135
4 HP (3 kW)	21	3.1	12037	1360	BG80Z-../DPE11LB4	84.55	5845	26000	-	-	-	-	542	246
4 HP (3 kW)	20.5	1.65	12303	1390	BG70Z-../DPE11LB4	87.61	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	19.5	0.82	12922	1460	BG60Z-../DPE11LB4	91.09	3597	16000	-	-	-	-	298	135
4 HP (3 kW)	19	2.8	13276	1500	BG80Z-../DPE11LB4	93.89	5845	26000	-	-	-	-	542	246
4 HP (3 kW)	18.5	1.5	13630	1540	BG70Z-../DPE11LB4	95.74	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	16	2.3	15843	1790	BG80Z-../DPE11LB4	112.4	5845	26000	-	-	-	-	542	246
4 HP (3 kW)	15.5	1.25	16285	1840	BG70Z-../DPE11LB4	113.6	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	14.5	1.15	17436	1970	BG70Z-../DPE11LB4	124.0	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	14.5	2.1	17436	1970	BG80Z-../DPE11LB4	124.8	5845	26000	-	-	-	-	542	246
4 HP (3 kW)	12.5	1.85	19914	2250	BG80Z-../DPE11LB4	145.4	5845	26000	-	-	-	-	542	246
4 HP (3 kW)	12	0.98	20799	2350	BG70Z-../DPE11LB4	147.2	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	11	0.88	23012	2600	BG70Z-../DPE11LB4	163.8	4496	20000	-	-	-	-	388	176
4 HP (3 kW)	11	1.6	23012	2600	BG80Z-../DPE11LB4	161.5	5845	26000	-	-	-	-	542	246
4 HP (3 kW)	11	3.2	23012	2600	BG90Z-../DPE11LB4	163.0	14613	65000	-	-	-	-	767	348
4 HP (3 kW)	9.9	2.9	25225	2850	BG90Z-../DPE11LB4	178.5	14613	65000	-	-	-	-	767	348
4 HP (3 kW)	9.5	1.4	26552	3000	BG80Z-../DPE11LB4	186.8	5845	26000	-	-	-	-	542	246

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

4 HP (3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
4 HP (3 kW)	8.5	1.25	29650	3350	BG80Z-../DPE11LB4	207.4	5845	26000	-	-	542	246
4 HP (3 kW)	8.5	2.5	29650	3350	BG90Z-../DPE11LB4	208.3	14613	65000	-	-	767	348
4 HP (3 kW)	7.8	1.35	29650	3350	BG80G40-../DPE11LB4	227.2	5845	26000	-	-	560	254
4 HP (3 kW)	7.8	2.3	32305	3650	BG90Z-../DPE11LB4	228.1	14613	65000	-	-	767	348
4 HP (3 kW)	7.0	1.25	33190	3750	BG80G40-../DPE11LB4	252.3	5845	26000	-	-	560	254
4 HP (3 kW)	6.8	2.5	33190	3750	BG90G50-../DPE11LB4	262.5	14613	65000	-	-	805	365
4 HP (3 kW)	6.3	1.1	37173	4200	BG80G40-../DPE11LB4	282.8	5845	26000	-	-	560	254
4 HP (3 kW)	5.9	2.0	40271	4550	BG90G50-../DPE11LB4	298.8	14613	65000	-	-	805	365
4 HP (3 kW)	5.7	0.99	41156	4650	BG80G40-../DPE11LB4	314.0	5845	26000	-	-	560	254
4 HP (3 kW)	4.9	0.84	48679	5500	BG80G40-../DPE11LB4	360.0	5845	26000	-	-	560	254
4 HP (3 kW)	4.9	1.75	46909	5300	BG90G50-../DPE11LB4	360.3	14613	65000	-	-	805	365
4 HP (3 kW)	4.7	3.1	53104	6000	BG100Z-../DPE11LB4	382.6	20233	90000	-	-	1224	555
4 HP (3 kW)	4.1	1.4	58415	6600	BG90G50-../DPE11LB4	435.8	14613	65000	-	-	805	365
4 HP (3 kW)	3.9	2.5	64610	7300	BG100Z-../DPE11LB4	456.7	20233	90000	-	-	1224	555
4 HP (3 kW)	3.5	1.2	68151	7700	BG90G50-../DPE11LB4	504.7	14613	65000	-	-	805	365
4 HP (3 kW)	3.5	2.3	71691	8100	BG100Z-../DPE11LB4	508.5	20233	90000	-	-	1224	555
4 HP (3 kW)	3.0	1.05	78772	8900	BG90G50-../DPE11LB4	588.8	14613	65000	-	-	805	365
4 HP (3 kW)	3.0	1.95	84082	9500	BG100Z-../DPE11LB4	591.1	20233	90000	-	-	1224	555
4 HP (3 kW)	2.8	0.96	84967	9600	BG90G50-../DPE11LB4	644.7	14613	65000	-	-	805	365
4 HP (3 kW)	2.7	1.75	93818	10600	BG100Z-../DPE11LB4	658.1	20233	90000	-	-	1224	555
4 HP (3 kW)	2.5	0.85	95588	10800	BG90G50-../DPE11LB4	714.2	14613	65000	-	-	805	365
4 HP (3 kW)	2.4	1.55	105324	11900	BG100Z-../DPE11LB4	759.0	20233	90000	-	-	1224	555
4 HP (3 kW)	2.1	1.35	120370	13600	BG100Z-../DPE11LB4	845.1	20233	90000	-	-	1224	555
4 HP (3 kW)	1.9	1.4	118600	13400	BG100G50-../DPE11LB4	976.1	20233	90000	-	-	1217	552
4 HP (3 kW)	1.7	1.2	136301	15400	BG100G50-../DPE11LB4	1043	20233	90000	-	-	1217	552
4 HP (3 kW)	1.5	1.05	154003	17400	BG100G50-../DPE11LB4	1204	20233	90000	-	-	1217	552
4 HP (3 kW)	1.3	0.9	182325	20600	BG100G50-../DPE11LB4	1444	20233	90000	-	-	1217	552

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
5 HP (3.7 kW)	660	2.4	469	53	BG30-../DPE11LB4	2.67	326	1450	-	-	128	58
5 HP (3.7 kW)	520	2.1	593	67	BG30-../DPE11LB4	3.40	355	1580	-	-	128	58
5 HP (3.7 kW)	445	3.1	699	79	BG40-../DPE11LB4	3.97	540	2400	-	-	170	77
5 HP (3.7 kW)	420	2.0	743	84	BG30-../DPE11LB4	4.21	366	1630	-	-	128	58
5 HP (3.7 kW)	360	2.7	867	98	BG40-../DPE11LB4	4.94	551	2450	-	-	170	77
5 HP (3.7 kW)	325	1.85	956	108	BG30-../DPE11LB4	5.44	375	1670	-	-	128	58
5 HP (3.7 kW)	275	2.4	1133	128	BG40-../DPE11LB4	6.40	843	3750	-	-	170	77
5 HP (3.7 kW)	265	1.7	1177	133	BG30-../DPE11LB4	6.76	573	2550	-	-	128	58
5 HP (3.7 kW)	250	2.3	1248	141	BG40-../DPE11LB4	7.11	888	3950	-	-	170	77
5 HP (3.7 kW)	235	1.55	1328	150	BG30-../DPE11LB4	7.50	618	2750	-	-	128	58
5 HP (3.7 kW)	235	1.95	1328	150	BG40-../DPE11LB4	7.62	596	2650	-	-	170	77
5 HP (3.7 kW)	225	1.4	1390	157	BG30-../DPE11LB4	7.91	396	1760	-	-	128	58
5 HP (3.7 kW)	215	2.1	1452	164	BG40-../DPE11LB4	8.31	922	4100	-	-	170	77
5 HP (3.7 kW)	205	1.45	1522	172	BG30-../DPE11LB4	8.60	629	2800	-	-	128	58
5 HP (3.7 kW)	205	3.0	1522	172	BG50-../DPE11LB4	8.70	1191	5300	-	-	190	86
5 HP (3.7 kW)	196	1.65	1593	180	BG40-../DPE11LB4	9.00	596	2650	-	-	170	77
5 HP (3.7 kW)	191	1.95	1637	185	BG40-../DPE11LB4	9.23	978	4350	-	-	170	77
5 HP (3.7 kW)	185	1.35	1690	191	BG30-../DPE11LB4	9.55	674	3000	-	-	128	58
5 HP (3.7 kW)	183	2.7	1708	193	BG50-../DPE11LB4	9.65	1259	5600	-	-	190	86
5 HP (3.7 kW)	171	1.85	1814	205	BG40-../DPE11LB4	10.35	978	4350	-	-	170	77

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
5 HP (3.7 kW)	166	1.25	1859	210	BG30-../DPE11LB4	10.65	663	2950	-	-	-	-	128	58
5 HP (3.7 kW)	154	1.75	1991	225	BG40-../DPE11LB4	11.49	1034	4600	-	-	-	-	170	77
5 HP (3.7 kW)	149	1.15	2080	235	BG30-../DPE11LB4	11.82	719	3200	-	-	-	-	128	58
5 HP (3.7 kW)	146	2.4	2124	240	BG50-../DPE11LB4	12.06	1281	5700	-	-	-	-	190	86
5 HP (3.7 kW)	137	1.6	2257	255	BG40-../DPE11LB4	12.86	1012	4500	-	-	-	-	170	77
5 HP (3.7 kW)	132	2.2	2345	265	BG50-../DPE11LB4	13.36	1371	6100	-	-	-	-	190	86
5 HP (3.7 kW)	128	1.05	2434	275	BG30-../DPE11LB4	13.77	708	3150	-	-	-	-	128	58
5 HP (3.7 kW)	124	1.5	2478	280	BG40-../DPE11LB4	14.28	1102	4900	-	-	-	-	170	77
5 HP (3.7 kW)	116	1.0	2655	300	BG30-../DPE11LB4	15.27	776	3450	-	-	-	-	128	58
5 HP (3.7 kW)	108	1.3	2876	325	BG40-../DPE11LB4	16.39	1191	5300	-	-	-	-	170	77
5 HP (3.7 kW)	107	1.9	2921	330	BG50-../DPE11LB4	16.53	1461	6500	-	-	-	-	190	86
5 HP (3.7 kW)	105	3.3	2965	335	BG60-../DPE11LB4	16.80	2698	12000	-	-	-	-	262	119
5 HP (3.7 kW)	104	0.9	2965	335	BG30-../DPE11LB4	17.06	832	3700	-	-	-	-	128	58
5 HP (3.7 kW)	97	1.2	3186	360	BG40-../DPE11LB4	18.19	1259	5600	-	-	-	-	170	77
5 HP (3.7 kW)	97	1.75	3186	360	BG50-../DPE11LB4	18.33	1619	7200	-	-	-	-	190	86
5 HP (3.7 kW)	95	3.1	3275	370	BG60-../DPE11LB4	18.62	2788	12400	-	-	-	-	262	119
5 HP (3.7 kW)	93	0.8	3319	375	BG30-../DPE11LB4	18.93	922	4100	-	-	-	-	128	58
5 HP (3.7 kW)	89	1.1	3496	395	BG40-../DPE11LB4	19.84	1304	5800	-	-	-	-	170	77
5 HP (3.7 kW)	81	1.45	3850	435	BG50-../DPE11LB4	21.96	1798	8000	-	-	-	-	190	86
5 HP (3.7 kW)	80	0.97	3894	440	BG40-../DPE11LB4	22.02	1349	6000	-	-	-	-	170	77
5 HP (3.7 kW)	79	2.7	3939	445	BG60-../DPE11LB4	22.40	2990	13300	-	-	-	-	262	119
5 HP (3.7 kW)	76	0.92	4071	460	BG40-../DPE11LB4	23.43	1394	6200	-	-	-	-	170	77
5 HP (3.7 kW)	73	1.3	4248	480	BG50-../DPE11LB4	24.34	1956	8700	-	-	-	-	190	86
5 HP (3.7 kW)	71	2.4	4381	495	BG60-../DPE11LB4	24.82	3102	13800	-	-	-	-	262	119
5 HP (3.7 kW)	68	0.83	4514	510	BG40-../DPE11LB4	26.01	1461	6500	-	-	-	-	170	77
5 HP (3.7 kW)	61	2.1	5045	570	BG60-../DPE11LB4	29.31	3327	14800	-	-	-	-	262	119
5 HP (3.7 kW)	60	1.1	5133	580	BG50-../DPE11LB4	29.62	1798	8000	-	-	-	-	190	86
5 HP (3.7 kW)	55	1.9	5664	640	BG60-../DPE11LB4	32.48	3462	15400	-	-	-	-	262	119
5 HP (3.7 kW)	54	0.97	5753	650	BG50-../DPE11LB4	32.84	1956	8700	-	-	-	-	190	86
5 HP (3.7 kW)	50	3.3	6196	700	BG70-../DPE11LB4	35.24	4114	18300	-	-	-	-	328	149
5 HP (3.7 kW)	46.5	0.84	6638	750	BG50-../DPE11LB4	37.89	2248	10000	-	-	-	-	190	86
5 HP (3.7 kW)	45.5	1.55	6815	770	BG60-../DPE11LB4	38.85	3597	16000	-	-	-	-	262	119
5 HP (3.7 kW)	45	2.9	6904	780	BG70-../DPE11LB4	39.22	4294	19100	-	-	-	-	328	149
5 HP (3.7 kW)	41	1.4	7612	860	BG60-../DPE11LB4	43.05	3597	16000	-	-	-	-	262	119
5 HP (3.7 kW)	38	2.5	8143	920	BG70-../DPE11LB4	46.54	4496	20000	-	-	-	-	328	149
5 HP (3.7 kW)	35	1.2	8851	1000	BG60-../DPE11LB4	50.31	3597	16000	-	-	-	-	262	119
5 HP (3.7 kW)	35	2.3	8851	1000	BG70-../DPE11LB4	50.40	4496	20000	-	-	-	-	328	149
5 HP (3.7 kW)	32	1.1	9736	1100	BG60-../DPE11LB4	55.76	3597	16000	-	-	-	-	262	119
5 HP (3.7 kW)	29.5	1.95	10532	1190	BG70-../DPE11LB4	59.82	4496	20000	-	-	-	-	328	149
5 HP (3.7 kW)	29	0.99	10709	1210	BG60-../DPE11LB4	60.90	3597	16000	-	-	-	-	262	119
5 HP (3.7 kW)	28	3.3	11152	1260	BG80-../DPE11LB4	63.56	5845	26000	-	-	-	-	450	204
5 HP (3.7 kW)	27.5	1.8	11329	1280	BG70Z-../DPE11LB4	64.85	4496	20000	-	-	-	-	388	176
5 HP (3.7 kW)	27	3.2	11506	1300	BG80Z-../DPE11LB4	66.40	5845	26000	-	-	-	-	542	246
5 HP (3.7 kW)	26.5	0.9	11771	1330	BG60-../DPE11LB4	67.49	3597	16000	-	-	-	-	262	119
5 HP (3.7 kW)	26	0.89	11949	1350	BG60Z-../DPE11LB4	68.32	3597	16000	-	-	-	-	298	135
5 HP (3.7 kW)	24	1.55	13011	1470	BG70Z-../DPE11LB4	73.82	4496	20000	-	-	-	-	388	176
5 HP (3.7 kW)	24	2.9	13011	1470	BG80Z-../DPE11LB4	73.73	5845	26000	-	-	-	-	542	246
5 HP (3.7 kW)	23.5	0.8	13276	1500	BG60Z-../DPE11LB4	75.71	3597	16000	-	-	-	-	298	135
5 HP (3.7 kW)	21	2.5	14869	1680	BG80Z-../DPE11LB4	84.55	5845	26000	-	-	-	-	542	246
5 HP (3.7 kW)	20.5	1.35	15223	1720	BG70Z-../DPE11LB4	87.61	4496	20000	-	-	-	-	388	176
5 HP (3.7 kW)	19	2.3	16374	1850	BG80Z-../DPE11LB4	93.89	5845	26000	-	-	-	-	542	246
5 HP (3.7 kW)	18.5	1.2	16905	1910	BG70Z-../DPE11LB4	95.74	4496	20000	-	-	-	-	388	176
5 HP (3.7 kW)	16	1.9	19472	2200	BG80Z-../DPE11LB4	112.4	5845	26000	-	-	-	-	542	246
5 HP (3.7 kW)	15.5	1.0	19914	2250	BG70Z-../DPE11LB4	113.6	4496	20000	-	-	-	-	388	176
5 HP (3.7 kW)	14.5	0.96	21242	2400	BG70Z-../DPE11LB4	124.0	4496	20000	-	-	-	-	388	176
5 HP (3.7 kW)	14.5	1.75	21242	2400	BG80Z-../DPE11LB4	124.8	5845	26000	-	-	-	-	542	246
5 HP (3.7 kW)	13	3.1	23897	2700	BG90Z-../DPE11LB4	139.2	14613	65000	-	-	-	-	767	348
5 HP (3.7 kW)	12.5	1.5	24782	2800	BG80Z-../DPE11LB4	145.4	5845	26000	-	-	-	-	542	246

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

5 HP (3.7 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
5 HP (3.7 kW)	11	1.3	28322	3200	BG80Z-../DPE11LB4	161.5	5845	26000	-	-	542	246
5 HP (3.7 kW)	11	2.6	28322	3200	BG90Z-../DPE11LB4	163.0	14613	65000	-	-	767	348
5 HP (3.7 kW)	9.9	2.4	31420	3550	BG90Z-../DPE11LB4	178.5	14613	65000	-	-	767	348
5 HP (3.7 kW)	9.5	1.15	32748	3700	BG80Z-../DPE11LB4	186.8	5845	26000	-	-	542	246
5 HP (3.7 kW)	8.5	1.0	36731	4150	BG80Z-../DPE11LB4	207.4	5845	26000	-	-	542	246
5 HP (3.7 kW)	8.5	2.0	36731	4150	BG90Z-../DPE11LB4	208.3	14613	65000	-	-	767	348
5 HP (3.7 kW)	7.8	1.1	37616	4250	BG80G40-../DPE11LB4	227.2	5845	26000	-	-	560	254
5 HP (3.7 kW)	7.8	1.85	39828	4500	BG90Z-../DPE11LB4	228.1	14613	65000	-	-	767	348
5 HP (3.7 kW)	7.0	0.98	41599	4700	BG80G40-../DPE11LB4	252.3	5845	26000	-	-	560	254
5 HP (3.7 kW)	6.8	1.95	42041	4750	BG90G50-../DPE11LB4	262.5	14613	65000	-	-	805	365
5 HP (3.7 kW)	6.8	3.3	45139	5100	BG100-../DPE11LB4	259.0	20233	90000	-	-	1025	465
5 HP (3.7 kW)	6.3	0.87	46909	5300	BG80G40-../DPE11LB4	282.8	5845	26000	-	-	560	254
5 HP (3.7 kW)	5.9	1.6	50449	5700	BG90G50-../DPE11LB4	298.8	14613	65000	-	-	805	365
5 HP (3.7 kW)	5.9	3.1	52219	5900	BG100Z-../DPE11LB4	300.4	20233	90000	-	-	1224	555
5 HP (3.7 kW)	5.2	2.8	59300	6700	BG100Z-../DPE11LB4	343.6	20233	90000	-	-	1224	555
5 HP (3.7 kW)	4.9	1.35	59300	6700	BG90G50-../DPE11LB4	360.3	14613	65000	-	-	805	365
5 HP (3.7 kW)	4.7	2.5	66381	7500	BG100Z-../DPE11LB4	382.6	20233	90000	-	-	1224	555
5 HP (3.7 kW)	4.1	1.1	72576	8200	BG90G50-../DPE11LB4	435.8	14613	65000	-	-	805	365
5 HP (3.7 kW)	3.9	2.1	79657	9000	BG100Z-../DPE11LB4	456.7	20233	90000	-	-	1224	555
5 HP (3.7 kW)	3.5	0.96	84967	9600	BG90G50-../DPE11LB4	504.7	14613	65000	-	-	805	365
5 HP (3.7 kW)	3.5	1.85	88507	10000	BG100Z-../DPE11LB4	508.5	20233	90000	-	-	1224	555
5 HP (3.7 kW)	3.0	0.82	99128	11200	BG90G50-../DPE11LB4	588.8	14613	65000	-	-	805	365
5 HP (3.7 kW)	3.0	1.6	103554	11700	BG100Z-../DPE11LB4	591.1	20233	90000	-	-	1224	555
5 HP (3.7 kW)	2.7	1.4	115060	13000	BG100Z-../DPE11LB4	658.1	20233	90000	-	-	1224	555
5 HP (3.7 kW)	2.4	1.25	130106	14700	BG100Z-../DPE11LB4	759.0	20233	90000	-	-	1224	555
5 HP (3.7 kW)	2.1	1.1	148693	16800	BG100Z-../DPE11LB4	845.1	20233	90000	-	-	1224	555
5 HP (3.7 kW)	1.9	1.1	150463	17000	BG100G50-../DPE11LB4	976.1	20233	90000	-	-	1217	552
5 HP (3.7 kW)	1.7	0.96	170819	19300	BG100G50-../DPE11LB4	1043	20233	90000	-	-	1217	552
5 HP (3.7 kW)	1.5	0.84	193831	21900	BG100G50-../DPE11LB4	1204	20233	90000	-	-	1217	552

5.5 HP (4.0 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
5.5 HP (4.0 kW)	660	2.2	504	57	BG30-../DPE11LB4	2.67	326	1450	-	-	128	58
5.5 HP (4.0 kW)	560	3.3	602	68	BG40-../DPE11LB4	3.19	528	2350	-	-	170	77
5.5 HP (4.0 kW)	520	1.9	646	73	BG30-../DPE11LB4	3.40	355	1580	-	-	128	58
5.5 HP (4.0 kW)	445	2.9	752	85	BG40-../DPE11LB4	3.97	540	2400	-	-	170	77
5.5 HP (4.0 kW)	420	1.9	797	90	BG30-../DPE11LB4	4.21	366	1630	-	-	128	58
5.5 HP (4.0 kW)	360	2.5	938	106	BG40-../DPE11LB4	4.94	551	2450	-	-	170	77
5.5 HP (4.0 kW)	325	1.7	1036	117	BG30-../DPE11LB4	5.44	375	1670	-	-	128	58
5.5 HP (4.0 kW)	275	2.3	1221	138	BG40-../DPE11LB4	6.40	843	3750	-	-	170	77
5.5 HP (4.0 kW)	265	1.55	1275	144	BG30-../DPE11LB4	6.76	573	2550	-	-	128	58
5.5 HP (4.0 kW)	265	3.1	1275	144	BG50-../DPE11LB4	6.74	843	3750	-	-	190	86
5.5 HP (4.0 kW)	250	2.1	1345	152	BG40-../DPE11LB4	7.11	888	3950	-	-	170	77
5.5 HP (4.0 kW)	235	1.45	1434	162	BG30-../DPE11LB4	7.50	618	2750	-	-	128	58
5.5 HP (4.0 kW)	235	1.8	1434	162	BG40-../DPE11LB4	7.62	596	2650	-	-	170	77
5.5 HP (4.0 kW)	225	1.3	1496	169	BG30-../DPE11LB4	7.91	396	1760	-	-	128	58
5.5 HP (4.0 kW)	215	1.95	1567	177	BG40-../DPE11LB4	8.31	922	4100	-	-	170	77
5.5 HP (4.0 kW)	205	1.3	1646	186	BG30-../DPE11LB4	8.60	629	2800	-	-	128	58
5.5 HP (4.0 kW)	205	2.7	1646	186	BG50-../DPE11LB4	8.70	1191	5300	-	-	190	86
5.5 HP (4.0 kW)	196	1.5	1717	194	BG40-../DPE11LB4	9.00	596	2650	-	-	170	77

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

5.5 HP (4.0 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
5.5 HP (4.0 kW)	191	1.8	1770	200	BG40-../DPE11LB4	9.23	978	4350	-	-	-	-	170	77
5.5 HP (4.0 kW)	185	1.25	1814	205	BG30-../DPE11LB4	9.55	674	3000	-	-	-	-	128	58
5.5 HP (4.0 kW)	183	2.6	1814	205	BG50-../DPE11LB4	9.65	1259	5600	-	-	-	-	190	86
5.5 HP (4.0 kW)	171	1.7	1947	220	BG40-../DPE11LB4	10.35	978	4350	-	-	-	-	170	77
5.5 HP (4.0 kW)	166	1.15	2036	230	BG30-../DPE11LB4	10.65	663	2950	-	-	-	-	128	58
5.5 HP (4.0 kW)	154	1.6	2168	245	BG40-../DPE11LB4	11.49	1034	4600	-	-	-	-	170	77
5.5 HP (4.0 kW)	149	1.05	2257	255	BG30-../DPE11LB4	11.82	719	3200	-	-	-	-	128	58
5.5 HP (4.0 kW)	146	2.2	2301	260	BG50-../DPE11LB4	12.06	1281	5700	-	-	-	-	190	86
5.5 HP (4.0 kW)	137	1.5	2434	275	BG40-../DPE11LB4	12.86	1012	4500	-	-	-	-	170	77
5.5 HP (4.0 kW)	132	2.1	2522	285	BG50-../DPE11LB4	13.36	1371	6100	-	-	-	-	190	86
5.5 HP (4.0 kW)	128	1.0	2611	295	BG30-../DPE11LB4	13.77	708	3150	-	-	-	-	128	58
5.5 HP (4.0 kW)	124	1.4	2699	305	BG40-../DPE11LB4	14.28	1102	4900	-	-	-	-	170	77
5.5 HP (4.0 kW)	116	0.92	2876	325	BG30-../DPE11LB4	15.27	776	3450	-	-	-	-	128	58
5.5 HP (4.0 kW)	108	1.2	3098	350	BG40-../DPE11LB4	16.39	1191	5300	-	-	-	-	170	77
5.5 HP (4.0 kW)	107	1.75	3142	355	BG50-../DPE11LB4	16.53	1461	6500	-	-	-	-	190	86
5.5 HP (4.0 kW)	105	3.1	3186	360	BG60-../DPE11LB4	16.80	2698	12000	-	-	-	-	262	119
5.5 HP (4.0 kW)	104	0.82	3231	365	BG30-../DPE11LB4	17.06	832	3700	-	-	-	-	128	58
5.5 HP (4.0 kW)	97	1.1	3452	390	BG40-../DPE11LB4	18.19	1259	5600	-	-	-	-	170	77
5.5 HP (4.0 kW)	97	1.6	3452	390	BG50-../DPE11LB4	18.33	1619	7200	-	-	-	-	190	86
5.5 HP (4.0 kW)	95	2.9	3540	400	BG60-../DPE11LB4	18.62	2788	12400	-	-	-	-	262	119
5.5 HP (4.0 kW)	89	1.0	3762	425	BG40-../DPE11LB4	19.84	1304	5800	-	-	-	-	170	77
5.5 HP (4.0 kW)	81	1.35	4160	470	BG50-../DPE11LB4	21.96	1798	8000	-	-	-	-	190	86
5.5 HP (4.0 kW)	80	0.89	4204	475	BG40-../DPE11LB4	22.02	1349	6000	-	-	-	-	170	77
5.5 HP (4.0 kW)	79	2.5	4248	480	BG60-../DPE11LB4	22.40	2990	13300	-	-	-	-	262	119
5.5 HP (4.0 kW)	76	0.85	4425	500	BG40-../DPE11LB4	23.43	1394	6200	-	-	-	-	170	77
5.5 HP (4.0 kW)	73	1.2	4602	520	BG50-../DPE11LB4	24.34	1956	8700	-	-	-	-	190	86
5.5 HP (4.0 kW)	71	2.3	4691	530	BG60-../DPE11LB4	24.82	3102	13800	-	-	-	-	262	119
5.5 HP (4.0 kW)	61	1.95	5487	620	BG60-../DPE11LB4	29.31	3327	14800	-	-	-	-	262	119
5.5 HP (4.0 kW)	60	1.0	5576	630	BG50-../DPE11LB4	29.62	1798	8000	-	-	-	-	190	86
5.5 HP (4.0 kW)	55	1.75	6107	690	BG60-../DPE11LB4	32.48	3462	15400	-	-	-	-	262	119
5.5 HP (4.0 kW)	54	0.9	6196	700	BG50-../DPE11LB4	32.84	1956	8700	-	-	-	-	190	86
5.5 HP (4.0 kW)	50	3.0	6727	760	BG70-../DPE11LB4	35.24	4114	18300	-	-	-	-	328	149
5.5 HP (4.0 kW)	45.5	1.45	7346	830	BG60-../DPE11LB4	38.85	3597	16000	-	-	-	-	262	119
5.5 HP (4.0 kW)	45	2.7	7435	840	BG70-../DPE11LB4	39.22	4294	19100	-	-	-	-	328	149
5.5 HP (4.0 kW)	41	1.3	8231	930	BG60-../DPE11LB4	43.05	3597	16000	-	-	-	-	262	119
5.5 HP (4.0 kW)	38	2.3	8851	1000	BG70-../DPE11LB4	46.54	4496	20000	-	-	-	-	328	149
5.5 HP (4.0 kW)	35	1.1	9647	1090	BG60-../DPE11LB4	50.31	3597	16000	-	-	-	-	262	119
5.5 HP (4.0 kW)	35	2.1	9647	1090	BG70-../DPE11LB4	50.40	4496	20000	-	-	-	-	328	149
5.5 HP (4.0 kW)	32	1.0	10532	1190	BG60-../DPE11LB4	55.76	3597	16000	-	-	-	-	262	119
5.5 HP (4.0 kW)	29.5	1.8	11417	1290	BG70-../DPE11LB4	59.82	4496	20000	-	-	-	-	328	149
5.5 HP (4.0 kW)	29	0.92	11594	1310	BG60-../DPE11LB4	60.90	3597	16000	-	-	-	-	262	119
5.5 HP (4.0 kW)	28	3.1	12037	1360	BG80-../DPE11LB4	63.56	5845	26000	-	-	-	-	450	204
5.5 HP (4.0 kW)	27.5	1.65	12214	1380	BG70Z-../DPE11LB4	64.85	4496	20000	-	-	-	-	388	176
5.5 HP (4.0 kW)	27	3.0	12480	1410	BG80Z-../DPE11LB4	66.40	5845	26000	-	-	-	-	542	246
5.5 HP (4.0 kW)	26.5	0.83	12745	1440	BG60-../DPE11LB4	67.49	3597	16000	-	-	-	-	262	119
5.5 HP (4.0 kW)	26	0.82	12922	1460	BG60Z-../DPE11LB4	68.32	3597	16000	-	-	-	-	298	135
5.5 HP (4.0 kW)	24	1.45	14073	1590	BG70Z-../DPE11LB4	73.82	4496	20000	-	-	-	-	388	176
5.5 HP (4.0 kW)	24	2.6	14073	1590	BG80Z-../DPE11LB4	73.73	5845	26000	-	-	-	-	542	246
5.5 HP (4.0 kW)	21	2.3	16020	1810	BG80Z-../DPE11LB4	84.55	5845	26000	-	-	-	-	542	246
5.5 HP (4.0 kW)	20.5	1.25	16462	1860	BG70Z-../DPE11LB4	87.61	4496	20000	-	-	-	-	388	176
5.5 HP (4.0 kW)	19	2.1	17701	2000	BG80Z-../DPE11LB4	93.89	5845	26000	-	-	-	-	542	246
5.5 HP (4.0 kW)	18.5	1.1	18144	2050	BG70Z-../DPE11LB4	95.74	4496	20000	-	-	-	-	388	176
5.5 HP (4.0 kW)	16	1.8	20799	2350	BG80Z-../DPE11LB4	112.4	5845	26000	-	-	-	-	542	246
5.5 HP (4.0 kW)	15.5	0.94	21684	2450	BG70Z-../DPE11LB4	113.6	4496	20000	-	-	-	-	388	176
5.5 HP (4.0 kW)	14.5	0.88	23012	2600	BG70Z-../DPE11LB4	124.0	4496	20000	-	-	-	-	388	176
5.5 HP (4.0 kW)	14.5	1.6	23012	2600	BG80Z-../DPE11LB4	124.8	5845	26000	-	-	-	-	542	246
5.5 HP (4.0 kW)	14	3.1	23897	2700	BG90Z-../DPE11LB4	127.1	14613	65000	-	-	-	-	767	348
5.5 HP (4.0 kW)	13	2.9	25667	2900	BG90Z-../DPE11LB4	139.2	14613	65000	-	-	-	-	767	348

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

5.5 HP (4.0 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
5.5 HP (4.0 kW)	12.5	1.4	26995	3050	BG80Z-../DPE11LB4	145.4	5845	26000	-	-	542	246
5.5 HP (4.0 kW)	11	1.2	30535	3450	BG80Z-../DPE11LB4	161.5	5845	26000	-	-	542	246
5.5 HP (4.0 kW)	11	2.4	30535	3450	BG90Z-../DPE11LB4	163.0	14613	65000	-	-	767	348
5.5 HP (4.0 kW)	9.9	2.2	34075	3850	BG90Z-../DPE11LB4	178.5	14613	65000	-	-	767	348
5.5 HP (4.0 kW)	9.5	1.05	35403	4000	BG80Z-../DPE11LB4	186.8	5845	26000	-	-	542	246
5.5 HP (4.0 kW)	8.5	0.94	39386	4450	BG80Z-../DPE11LB4	207.4	5845	26000	-	-	542	246
5.5 HP (4.0 kW)	8.5	1.9	39386	4450	BG90Z-../DPE11LB4	208.3	14613	65000	-	-	767	348
5.5 HP (4.0 kW)	7.8	1.0	40713	4600	BG80G40-../DPE11LB4	227.2	5845	26000	-	-	560	254
5.5 HP (4.0 kW)	7.8	1.75	42926	4850	BG90Z-../DPE11LB4	228.1	14613	65000	-	-	767	348
5.5 HP (4.0 kW)	7.0	0.9	45139	5100	BG80G40-../DPE11LB4	252.3	5845	26000	-	-	560	254
5.5 HP (4.0 kW)	6.8	1.8	45139	5100	BG90G50-../DPE11LB4	262.5	14613	65000	-	-	805	365
5.5 HP (4.0 kW)	6.8	3.0	49564	5600	BG100-../DPE11LB4	259.0	20233	90000	-	-	1025	465
5.5 HP (4.0 kW)	6.6	3.2	50449	5700	BG100Z-../DPE11LB4	269.8	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	6.3	0.81	50449	5700	BG80G40-../DPE11LB4	282.8	5845	26000	-	-	560	254
5.5 HP (4.0 kW)	5.9	1.5	53990	6100	BG90G50-../DPE11LB4	298.8	14613	65000	-	-	805	365
5.5 HP (4.0 kW)	5.9	2.9	56645	6400	BG100Z-../DPE11LB4	300.4	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	5.2	2.5	64610	7300	BG100Z-../DPE11LB4	343.6	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	4.9	1.25	64610	7300	BG90G50-../DPE11LB4	360.3	14613	65000	-	-	805	365
5.5 HP (4.0 kW)	4.7	2.3	71691	8100	BG100Z-../DPE11LB4	382.6	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	4.1	1.05	78772	8900	BG90G50-../DPE11LB4	435.8	14613	65000	-	-	805	365
5.5 HP (4.0 kW)	3.9	1.9	85852	9700	BG100Z-../DPE11LB4	456.7	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	3.5	0.88	92048	10400	BG90G50-../DPE11LB4	504.7	14613	65000	-	-	805	365
5.5 HP (4.0 kW)	3.5	1.7	96473	10900	BG100Z-../DPE11LB4	508.5	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	3.0	1.45	112404	12700	BG100Z-../DPE11LB4	591.1	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	2.7	1.3	124796	14100	BG100Z-../DPE11LB4	658.1	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	2.4	1.15	140727	15900	BG100Z-../DPE11LB4	759.0	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	2.1	1.0	160198	18100	BG100Z-../DPE11LB4	845.1	20233	90000	-	-	1224	555
5.5 HP (4.0 kW)	1.9	1.0	163739	18500	BG100G50-../DPE11LB4	976.1	20233	90000	-	-	1217	552
5.5 HP (4.0 kW)	1.7	0.88	185866	21000	BG100G50-../DPE11LB4	1043	20233	90000	-	-	1217	552

6 HP (4.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
6 HP (4.5 kW)	660	1.95	575	65	BG30-../DPE11LB4	2.67	326	1450	-	-	128	58
6 HP (4.5 kW)	550	2.9	690	78	BG40-../DPE11LB4	3.19	528	2350	-	-	170	77
6 HP (4.5 kW)	520	1.7	726	82	BG30-../DPE11LB4	3.40	355	1580	-	-	128	58
6 HP (4.5 kW)	445	2.5	850	96	BG40-../DPE11LB4	3.97	540	2400	-	-	170	77
6 HP (4.5 kW)	420	1.7	903	102	BG30-../DPE11LB4	4.21	366	1630	-	-	128	58
6 HP (4.5 kW)	360	3.3	1053	119	BG50-../DPE11LB4	4.91	787	3500	-	-	190	86
6 HP (4.5 kW)	355	2.2	1071	121	BG40-../DPE11LB4	4.94	551	2450	-	-	170	77
6 HP (4.5 kW)	325	1.5	1168	132	BG30-../DPE11LB4	5.44	375	1670	-	-	128	58
6 HP (4.5 kW)	290	3.0	1310	148	BG50-../DPE11LB4	6.07	1057	4700	-	-	190	86
6 HP (4.5 kW)	275	2.0	1381	156	BG40-../DPE11LB4	6.40	843	3750	-	-	170	77
6 HP (4.5 kW)	260	1.35	1460	165	BG30-../DPE11LB4	6.76	573	2550	-	-	128	58
6 HP (4.5 kW)	260	2.7	1460	165	BG50-../DPE11LB4	6.74	843	3750	-	-	190	86
6 HP (4.5 kW)	250	1.9	1513	171	BG40-../DPE11LB4	7.11	888	3950	-	-	170	77
6 HP (4.5 kW)	235	1.25	1611	182	BG30-../DPE11LB4	7.50	618	2750	-	-	128	58
6 HP (4.5 kW)	230	1.6	1646	186	BG40-../DPE11LB4	7.62	596	2650	-	-	170	77
6 HP (4.5 kW)	225	1.15	1690	191	BG30-../DPE11LB4	7.91	396	1760	-	-	128	58
6 HP (4.5 kW)	215	1.75	1761	199	BG40-../DPE11LB4	8.31	922	4100	-	-	170	77
6 HP (4.5 kW)	205	1.2	1814	205	BG30-../DPE11LB4	8.60	629	2800	-	-	128	58

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

6 HP (4.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
6 HP (4.5 kW)	205	2.5	1814	205	BG50-../DPE11LB4	8.70	1191	5300	-	-	-	-	190	86
6 HP (4.5 kW)	195	1.35	1947	220	BG40-../DPE11LB4	9.00	596	2650	-	-	-	-	170	77
6 HP (4.5 kW)	190	1.6	1991	225	BG40-../DPE11LB4	9.23	978	4350	-	-	-	-	170	77
6 HP (4.5 kW)	184	1.1	2036	230	BG30-../DPE11LB4	9.55	674	3000	-	-	-	-	128	58
6 HP (4.5 kW)	182	2.2	2080	235	BG50-../DPE11LB4	9.65	1259	5600	-	-	-	-	190	86
6 HP (4.5 kW)	170	1.5	2213	250	BG40-../DPE11LB4	10.35	978	4350	-	-	-	-	170	77
6 HP (4.5 kW)	165	1.0	2301	260	BG30-../DPE11LB4	10.65	663	2950	-	-	-	-	128	58
6 HP (4.5 kW)	153	1.4	2478	280	BG40-../DPE11LB4	11.49	1034	4600	-	-	-	-	170	77
6 HP (4.5 kW)	149	0.96	2522	285	BG30-../DPE11LB4	11.82	719	3200	-	-	-	-	128	58
6 HP (4.5 kW)	146	2.0	2567	290	BG50-../DPE11LB4	12.06	1281	5700	-	-	-	-	190	86
6 HP (4.5 kW)	137	1.35	2744	310	BG40-../DPE11LB4	12.86	1012	4500	-	-	-	-	170	77
6 HP (4.5 kW)	131	1.85	2876	325	BG50-../DPE11LB4	13.36	1371	6100	-	-	-	-	190	86
6 HP (4.5 kW)	130	3.1	2921	330	BG60-../DPE11LB4	13.47	2518	11200	-	-	-	-	262	119
6 HP (4.5 kW)	128	0.88	2965	335	BG30-../DPE11LB4	13.77	708	3150	-	-	-	-	128	58
6 HP (4.5 kW)	123	1.2	3054	345	BG40-../DPE11LB4	14.28	1102	4900	-	-	-	-	170	77
6 HP (4.5 kW)	115	0.81	3275	370	BG30-../DPE11LB4	15.27	776	3450	-	-	-	-	128	58
6 HP (4.5 kW)	107	1.05	3540	400	BG40-../DPE11LB4	16.39	1191	5300	-	-	-	-	170	77
6 HP (4.5 kW)	106	1.55	3585	405	BG50-../DPE11LB4	16.53	1461	6500	-	-	-	-	190	86
6 HP (4.5 kW)	105	2.7	3585	405	BG60-../DPE11LB4	16.80	2698	12000	-	-	-	-	262	119
6 HP (4.5 kW)	97	0.97	3894	440	BG40-../DPE11LB4	18.19	1259	5600	-	-	-	-	170	77
6 HP (4.5 kW)	96	1.4	3939	445	BG50-../DPE11LB4	18.33	1619	7200	-	-	-	-	190	86
6 HP (4.5 kW)	94	2.5	4027	455	BG60-../DPE11LB4	18.62	2788	12400	-	-	-	-	262	119
6 HP (4.5 kW)	89	0.89	4248	480	BG40-../DPE11LB4	19.84	1304	5800	-	-	-	-	170	77
6 HP (4.5 kW)	80	0.8	4691	530	BG40-../DPE11LB4	22.02	1349	6000	-	-	-	-	170	77
6 HP (4.5 kW)	80	1.2	4691	530	BG50-../DPE11LB4	21.96	1798	8000	-	-	-	-	190	86
6 HP (4.5 kW)	79	2.2	4779	540	BG60-../DPE11LB4	22.40	2990	13300	-	-	-	-	262	119
6 HP (4.5 kW)	72	1.05	5222	590	BG50-../DPE11LB4	24.34	1956	8700	-	-	-	-	190	86
6 HP (4.5 kW)	71	2.0	5310	600	BG60-../DPE11LB4	24.82	3102	13800	-	-	-	-	262	119
6 HP (4.5 kW)	60	0.89	6284	710	BG50-../DPE11LB4	29.62	1798	8000	-	-	-	-	190	86
6 HP (4.5 kW)	60	1.7	6284	710	BG60-../DPE11LB4	29.31	3327	14800	-	-	-	-	262	119
6 HP (4.5 kW)	59	3.2	6373	720	BG70-../DPE11LB4	29.69	3799	16900	-	-	-	-	328	149
6 HP (4.5 kW)	54	0.8	6992	790	BG50-../DPE11LB4	32.84	1956	8700	-	-	-	-	190	86
6 HP (4.5 kW)	54	1.5	6992	790	BG60-../DPE11LB4	32.48	3462	15400	-	-	-	-	262	119
6 HP (4.5 kW)	50	2.7	7523	850	BG70-../DPE11LB4	35.24	4114	18300	-	-	-	-	328	149
6 HP (4.5 kW)	45.5	1.3	8320	940	BG60-../DPE11LB4	38.85	3597	16000	-	-	-	-	262	119
6 HP (4.5 kW)	45	2.4	8408	950	BG70-../DPE11LB4	39.22	4294	19100	-	-	-	-	328	149
6 HP (4.5 kW)	41	1.15	9205	1040	BG60-../DPE11LB4	43.05	3597	16000	-	-	-	-	262	119
6 HP (4.5 kW)	38	2.0	10001	1130	BG70-../DPE11LB4	46.54	4496	20000	-	-	-	-	328	149
6 HP (4.5 kW)	35	0.98	10798	1220	BG60-../DPE11LB4	50.31	3597	16000	-	-	-	-	262	119
6 HP (4.5 kW)	35	1.9	10798	1220	BG70-../DPE11LB4	50.40	4496	20000	-	-	-	-	328	149
6 HP (4.5 kW)	31.5	0.88	12037	1360	BG60-../DPE11LB4	55.76	3597	16000	-	-	-	-	262	119
6 HP (4.5 kW)	31	3.0	12214	1380	BG80-../DPE11LB4	57.24	5710	25400	-	-	-	-	450	204
6 HP (4.5 kW)	29.5	1.6	12834	1450	BG70-../DPE11LB4	59.82	4496	20000	-	-	-	-	328	149
6 HP (4.5 kW)	29	0.81	13099	1480	BG60-../DPE11LB4	60.90	3597	16000	-	-	-	-	262	119
6 HP (4.5 kW)	28	2.7	13542	1530	BG80-../DPE11LB4	63.56	5845	26000	-	-	-	-	450	204
6 HP (4.5 kW)	27	1.45	14073	1590	BG70Z-../DPE11LB4	64.85	4496	20000	-	-	-	-	388	176
6 HP (4.5 kW)	26.5	2.6	14338	1620	BG80Z-../DPE11LB4	66.40	5845	26000	-	-	-	-	542	246
6 HP (4.5 kW)	24	1.3	15843	1790	BG70Z-../DPE11LB4	73.82	4496	20000	-	-	-	-	388	176
6 HP (4.5 kW)	24	2.3	15843	1790	BG80Z-../DPE11LB4	73.73	5845	26000	-	-	-	-	542	246
6 HP (4.5 kW)	21	2.1	17701	2000	BG80Z-../DPE11LB4	84.55	5845	26000	-	-	-	-	542	246
6 HP (4.5 kW)	20	1.1	18587	2100	BG70Z-../DPE11LB4	87.61	4496	20000	-	-	-	-	388	176
6 HP (4.5 kW)	19	1.85	19914	2250	BG80Z-../DPE11LB4	93.89	5845	26000	-	-	-	-	542	246
6 HP (4.5 kW)	18.5	1.0	20357	2300	BG70Z-../DPE11LB4	95.74	4496	20000	-	-	-	-	388	176
6 HP (4.5 kW)	16	1.6	23454	2650	BG80Z-../DPE11LB4	112.4	5845	26000	-	-	-	-	542	246
6 HP (4.5 kW)	15.5	0.84	24340	2750	BG70Z-../DPE11LB4	113.6	4496	20000	-	-	-	-	388	176
6 HP (4.5 kW)	14.5	1.4	26110	2950	BG80Z-../DPE11LB4	124.8	5845	26000	-	-	-	-	542	246
6 HP (4.5 kW)	14	2.8	26995	3050	BG90Z-../DPE11LB4	127.1	14613	65000	-	-	-	-	767	348
6 HP (4.5 kW)	13	2.5	29207	3300	BG90Z-../DPE11LB4	139.2	14613	65000	-	-	-	-	767	348

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

6 HP (4.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
6 HP (4.5 kW)	12.5	1.25	30093	3400	BG80Z-../DPE11LB4	145.4	5845	26000	-	-	542	246
6 HP (4.5 kW)	11	1.1	34518	3900	BG80Z-../DPE11LB4	161.5	5845	26000	-	-	542	246
6 HP (4.5 kW)	11	2.2	34518	3900	BG90Z-../DPE11LB4	163.0	14613	65000	-	-	767	348
6 HP (4.5 kW)	9.9	1.95	38058	4300	BG90Z-../DPE11LB4	178.5	14613	65000	-	-	767	348
6 HP (4.5 kW)	9.4	0.92	40271	4550	BG80Z-../DPE11LB4	186.8	5845	26000	-	-	542	246
6 HP (4.5 kW)	8.5	0.84	44254	5000	BG80Z-../DPE11LB4	207.4	5845	26000	-	-	542	246
6 HP (4.5 kW)	8.5	1.7	44254	5000	BG90Z-../DPE11LB4	208.3	14613	65000	-	-	767	348
6 HP (4.5 kW)	7.8	0.88	46024	5200	BG80G40-../DPE11LB4	227.2	5845	26000	-	-	560	254
6 HP (4.5 kW)	7.7	1.55	48679	5500	BG90Z-../DPE11LB4	228.1	14613	65000	-	-	767	348
6 HP (4.5 kW)	7.6	3.0	49564	5600	BG100-../DPE11LB4	232.6	20233	90000	-	-	1025	465
6 HP (4.5 kW)	6.8	2.7	55760	6300	BG100-../DPE11LB4	259.0	20233	90000	-	-	1025	465
6 HP (4.5 kW)	6.7	1.55	52219	5900	BG90G50-../DPE11LB4	262.5	14613	65000	-	-	805	365
6 HP (4.5 kW)	6.5	2.8	58415	6600	BG100Z-../DPE11LB4	269.8	20233	90000	-	-	1224	555
6 HP (4.5 kW)	5.9	1.35	61070	6900	BG90G50-../DPE11LB4	298.8	14613	65000	-	-	805	365
6 HP (4.5 kW)	5.9	2.6	63725	7200	BG100Z-../DPE11LB4	300.4	20233	90000	-	-	1224	555
6 HP (4.5 kW)	5.1	2.2	74346	8400	BG100Z-../DPE11LB4	343.6	20233	90000	-	-	1224	555
6 HP (4.5 kW)	4.9	1.1	72576	8200	BG90G50-../DPE11LB4	360.3	14613	65000	-	-	805	365
6 HP (4.5 kW)	4.6	2.0	82312	9300	BG100Z-../DPE11LB4	382.6	20233	90000	-	-	1224	555
6 HP (4.5 kW)	4.1	0.92	88507	10000	BG90G50-../DPE11LB4	435.8	14613	65000	-	-	805	365
6 HP (4.5 kW)	3.9	1.7	97358	11000	BG100Z-../DPE11LB4	456.7	20233	90000	-	-	1224	555
6 HP (4.5 kW)	3.5	1.5	107979	12200	BG100Z-../DPE11LB4	508.5	20233	90000	-	-	1224	555
6 HP (4.5 kW)	3.0	1.3	126566	14300	BG100Z-../DPE11LB4	591.1	20233	90000	-	-	1224	555
6 HP (4.5 kW)	2.7	1.15	140727	15900	BG100Z-../DPE11LB4	658.1	20233	90000	-	-	1224	555
6 HP (4.5 kW)	2.4	1.05	158428	17900	BG100Z-../DPE11LB4	759.0	20233	90000	-	-	1224	555
6 HP (4.5 kW)	2.1	0.91	180555	20400	BG100Z-../DPE11LB4	845.1	20233	90000	-	-	1224	555
6 HP (4.5 kW)	1.8	0.83	196487	22200	BG100G50-../DPE11LB4	976.1	20233	90000	-	-	1217	552

7.5 HP (5.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
7.5 HP (5.5 kW)	720	4.3	637	72	BG50-../DPE13XA4	2.47	652	2900	-	-	225	102
7.5 HP (5.5 kW)	500	3.3	929	105	BG50-../DPE13XA4	3.55	742	3300	-	-	225	102
7.5 HP (5.5 kW)	365	2.8	1266	143	BG50-../DPE13XA4	4.91	787	3500	-	-	225	102
7.5 HP (5.5 kW)	295	2.5	1575	178	BG50-../DPE13XA4	6.07	1057	4700	-	-	225	102
7.5 HP (5.5 kW)	265	2.3	1752	198	BG50-../DPE13XA4	6.74	843	3750	-	-	225	102
7.5 HP (5.5 kW)	205	2.0	2257	255	BG50-../DPE13XA4	8.70	1191	5300	-	-	225	102
7.5 HP (5.5 kW)	194	3.3	2390	270	BG60-../DPE13XA4	9.13	2203	9800	-	-	300	136
7.5 HP (5.5 kW)	184	1.85	2522	285	BG50-../DPE13XA4	9.65	1259	5600	-	-	225	102
7.5 HP (5.5 kW)	175	3.0	2655	300	BG60-../DPE13XA4	10.12	2293	10200	-	-	300	136
7.5 HP (5.5 kW)	147	1.6	3142	355	BG50-../DPE13XA4	12.06	1281	5700	-	-	225	102
7.5 HP (5.5 kW)	146	2.8	3142	355	BG60-../DPE13XA4	12.16	2428	10800	-	-	300	136
7.5 HP (5.5 kW)	133	1.5	3452	390	BG50-../DPE13XA4	13.36	1371	6100	-	-	225	102
7.5 HP (5.5 kW)	132	2.6	3496	395	BG60-../DPE13XA4	13.47	2518	11200	-	-	300	136
7.5 HP (5.5 kW)	108	1.3	4293	485	BG50-../DPE13XA4	16.53	1461	6500	-	-	225	102
7.5 HP (5.5 kW)	106	2.2	4381	495	BG60-../DPE13XA4	16.80	2698	12000	-	-	300	136
7.5 HP (5.5 kW)	97	1.15	4779	540	BG50-../DPE13XA4	18.33	1619	7200	-	-	225	102
7.5 HP (5.5 kW)	96	2.1	4779	540	BG60-../DPE13XA4	18.62	2788	12400	-	-	300	136
7.5 HP (5.5 kW)	81	0.98	5664	640	BG50-../DPE13XA4	21.96	1798	8000	-	-	225	102
7.5 HP (5.5 kW)	80	1.85	5753	650	BG60-../DPE13XA4	22.40	2990	13300	-	-	300	136
7.5 HP (5.5 kW)	73	0.89	6284	710	BG50-../DPE13XA4	24.34	1956	8700	-	-	225	102
7.5 HP (5.5 kW)	72	1.65	6373	720	BG60-../DPE13XA4	24.82	3102	13800	-	-	300	136

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-gear motors

Selection helical-gear motors

7.5 HP (5.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
7.5 HP (5.5 kW)	66	2.9	6992	790	BG70-../DPE13XA4	27.21	3687	16400	-	-	-	-	366	166
7.5 HP (5.5 kW)	61	1.4	7612	860	BG60-../DPE13XA4	29.31	3327	14800	-	-	-	-	300	136
7.5 HP (5.5 kW)	60	2.6	7700	870	BG70-../DPE13XA4	29.69	3799	16900	-	-	-	-	366	166
7.5 HP (5.5 kW)	55	1.25	8408	950	BG60-../DPE13XA4	32.48	3462	15400	-	-	-	-	300	136
7.5 HP (5.5 kW)	51	2.3	9028	1020	BG70-../DPE13XA4	35.24	4114	18300	-	-	-	-	366	166
7.5 HP (5.5 kW)	46	1.05	10090	1140	BG60-../DPE13XA4	38.85	3597	16000	-	-	-	-	300	136
7.5 HP (5.5 kW)	45.5	2.0	10178	1150	BG70-../DPE13XA4	39.22	4294	19100	-	-	-	-	366	166
7.5 HP (5.5 kW)	41.5	0.95	11152	1260	BG60-../DPE13XA4	43.05	3597	16000	-	-	-	-	300	136
7.5 HP (5.5 kW)	40.5	3.3	11417	1290	BG80-../DPE13XA4	43.94	5081	22600	-	-	-	-	485	220
7.5 HP (5.5 kW)	38.5	1.7	12037	1360	BG70-../DPE13XA4	46.54	4496	20000	-	-	-	-	366	166
7.5 HP (5.5 kW)	36.5	2.9	12657	1430	BG80-../DPE13XA4	48.80	5350	23800	-	-	-	-	485	220
7.5 HP (5.5 kW)	35.5	0.82	13011	1470	BG60-../DPE13XA4	50.31	3597	16000	-	-	-	-	300	136
7.5 HP (5.5 kW)	35.5	1.55	13011	1470	BG70-../DPE13XA4	50.40	4496	20000	-	-	-	-	366	166
7.5 HP (5.5 kW)	31	2.5	14958	1690	BG80-../DPE13XA4	57.24	5710	25400	-	-	-	-	485	220
7.5 HP (5.5 kW)	30	1.3	15489	1750	BG70-../DPE13XA4	59.82	4496	20000	-	-	-	-	366	166
7.5 HP (5.5 kW)	28	2.2	16551	1870	BG80-../DPE13XA4	63.56	5845	26000	-	-	-	-	485	220
7.5 HP (5.5 kW)	27.5	1.2	16905	1910	BG70Z-../DPE13XA4	64.85	4496	20000	-	-	-	-	423	192
7.5 HP (5.5 kW)	27	2.2	17170	1940	BG80Z-../DPE13XA4	66.40	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	24.5	2.0	18587	2100	BG80Z-../DPE13XA4	73.73	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	24	1.05	19029	2150	BG70Z-../DPE13XA4	73.82	4496	20000	-	-	-	-	423	192
7.5 HP (5.5 kW)	21	1.7	22127	2500	BG80Z-../DPE13XA4	84.55	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	20.5	0.9	22569	2550	BG70Z-../DPE13XA4	87.61	4496	20000	-	-	-	-	423	192
7.5 HP (5.5 kW)	19	1.55	24340	2750	BG80Z-../DPE13XA4	93.89	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	18.5	0.82	24782	2800	BG70Z-../DPE13XA4	95.74	4496	20000	-	-	-	-	423	192
7.5 HP (5.5 kW)	18.5	3.0	24782	2800	BG90Z-../DPE13XA4	96.53	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	17	2.8	26995	3050	BG90Z-../DPE13XA4	105.7	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	16	1.3	28765	3250	BG80Z-../DPE13XA4	112.4	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	14.5	1.15	31863	3600	BG80Z-../DPE13XA4	124.8	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	14	2.2	33190	3750	BG90Z-../DPE13XA4	127.1	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	13	2.1	35403	4000	BG90Z-../DPE13XA4	139.2	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	12.5	1.0	37173	4200	BG80Z-../DPE13XA4	145.4	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	11	0.88	42041	4750	BG80Z-../DPE13XA4	161.5	5845	26000	-	-	-	-	580	263
7.5 HP (5.5 kW)	11	1.75	42041	4750	BG90Z-../DPE13XA4	163.0	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	10	1.6	46024	5200	BG90Z-../DPE13XA4	178.5	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	10	3.2	46024	5200	BG100-../DPE13XA4	178.6	20233	90000	-	-	-	-	1060	481
7.5 HP (5.5 kW)	9.0	2.9	51334	5800	BG100-../DPE13XA4	198.8	20233	90000	-	-	-	-	1060	481
7.5 HP (5.5 kW)	8.5	1.4	53990	6100	BG90Z-../DPE13XA4	208.3	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	7.8	1.25	59300	6700	BG90Z-../DPE13XA4	228.1	14613	65000	-	-	-	-	805	365
7.5 HP (5.5 kW)	7.7	2.5	60185	6800	BG100-../DPE13XA4	232.6	20233	90000	-	-	-	-	1060	481
7.5 HP (5.5 kW)	6.9	2.2	67266	7600	BG100-../DPE13XA4	259.0	20233	90000	-	-	-	-	1060	481
7.5 HP (5.5 kW)	6.8	1.3	63725	7200	BG90G50-../DPE13XA4	262.5	14613	65000	-	-	-	-	840	381
7.5 HP (5.5 kW)	6.6	2.3	69921	7900	BG100Z-../DPE13XA4	269.8	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	6.0	1.1	74346	8400	BG90G50-../DPE13XA4	298.8	14613	65000	-	-	-	-	840	381
7.5 HP (5.5 kW)	5.9	2.1	78772	8900	BG100Z-../DPE13XA4	300.4	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	5.2	1.85	89393	10100	BG100Z-../DPE13XA4	343.6	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	5.0	0.92	88507	10000	BG90G50-../DPE13XA4	360.3	14613	65000	-	-	-	-	840	381
7.5 HP (5.5 kW)	4.7	1.65	98243	11100	BG100Z-../DPE13XA4	382.6	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	3.9	1.4	118600	13400	BG100Z-../DPE13XA4	456.7	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	3.5	1.25	132761	15000	BG100Z-../DPE13XA4	508.5	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	3.0	1.05	154888	17500	BG100Z-../DPE13XA4	591.1	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	2.7	0.95	171704	19400	BG100Z-../DPE13XA4	658.1	20233	90000	-	-	-	-	1261	572
7.5 HP (5.5 kW)	2.4	0.85	192946	21800	BG100Z-../DPE13XA4	759.0	20233	90000	-	-	-	-	1261	572

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

10 HP (7.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
10 HP (7.5 kW)	720	3.1	876	99	BG50-../DPE13XA4	2.47	652	2900	-	-	225	102
10 HP (7.5 kW)	500	2.4	1266	143	BG50-../DPE13XA4	3.55	742	3300	-	-	225	102
10 HP (7.5 kW)	360	2.0	1752	198	BG50-../DPE13XA4	4.91	787	3500	-	-	225	102
10 HP (7.5 kW)	295	1.85	2124	240	BG50-../DPE13XA4	6.07	1057	4700	-	-	225	102
10 HP (7.5 kW)	290	3.2	2168	245	BG60-../DPE13XA4	6.16	1911	8500	-	-	300	136
10 HP (7.5 kW)	265	1.65	2390	270	BG50-../DPE13XA4	6.74	843	3750	-	-	225	102
10 HP (7.5 kW)	260	2.8	2434	275	BG60-../DPE13XA4	6.88	1933	8600	-	-	300	136
10 HP (7.5 kW)	205	1.45	3054	345	BG50-../DPE13XA4	8.70	1191	5300	-	-	225	102
10 HP (7.5 kW)	194	2.4	3231	365	BG60-../DPE13XA4	9.13	2203	9800	-	-	300	136
10 HP (7.5 kW)	183	1.35	3452	390	BG50-../DPE13XA4	9.65	1259	5600	-	-	225	102
10 HP (7.5 kW)	175	2.3	3585	405	BG60-../DPE13XA4	10.12	2293	10200	-	-	300	136
10 HP (7.5 kW)	147	1.2	4293	485	BG50-../DPE13XA4	12.06	1281	5700	-	-	225	102
10 HP (7.5 kW)	146	2.0	4337	490	BG60-../DPE13XA4	12.16	2428	10800	-	-	300	136
10 HP (7.5 kW)	133	1.1	4691	530	BG50-../DPE13XA4	13.36	1371	6100	-	-	225	102
10 HP (7.5 kW)	132	1.9	4779	540	BG60-../DPE13XA4	13.47	2518	11200	-	-	300	136
10 HP (7.5 kW)	107	0.95	5841	660	BG50-../DPE13XA4	16.53	1461	6500	-	-	225	102
10 HP (7.5 kW)	106	1.65	5930	670	BG60-../DPE13XA4	16.80	2698	12000	-	-	300	136
10 HP (7.5 kW)	100	3.2	6284	710	BG70-../DPE13XA4	17.68	3012	13400	-	-	366	166
10 HP (7.5 kW)	97	0.86	6461	730	BG50-../DPE13XA4	18.33	1619	7200	-	-	225	102
10 HP (7.5 kW)	95	1.55	6638	750	BG60-../DPE13XA4	18.62	2788	12400	-	-	300	136
10 HP (7.5 kW)	85	2.7	7435	840	BG70-../DPE13XA4	20.98	3282	14600	-	-	366	166
10 HP (7.5 kW)	79	1.35	7966	900	BG60-../DPE13XA4	22.40	2990	13300	-	-	300	136
10 HP (7.5 kW)	78	2.5	8054	910	BG70-../DPE13XA4	22.92	3395	15100	-	-	366	166
10 HP (7.5 kW)	72	1.2	8762	990	BG60-../DPE13XA4	24.82	3102	13800	-	-	300	136
10 HP (7.5 kW)	65	2.1	9736	1100	BG70-../DPE13XA4	27.21	3687	16400	-	-	366	166
10 HP (7.5 kW)	61	1.05	10355	1170	BG60-../DPE13XA4	29.31	3327	14800	-	-	300	136
10 HP (7.5 kW)	60	1.95	10532	1190	BG70-../DPE13XA4	29.69	3799	16900	-	-	366	166
10 HP (7.5 kW)	55	0.92	11506	1300	BG60-../DPE13XA4	32.48	3462	15400	-	-	300	136
10 HP (7.5 kW)	52	3.1	12126	1370	BG80-../DPE13XA4	34.22	4541	20200	-	-	485	220
10 HP (7.5 kW)	51	1.65	12391	1400	BG70-../DPE13XA4	35.24	4114	18300	-	-	366	166
10 HP (7.5 kW)	46.5	2.7	13630	1540	BG80-../DPE13XA4	38.00	4788	21300	-	-	485	220
10 HP (7.5 kW)	45.5	1.45	13896	1570	BG70-../DPE13XA4	39.22	4294	19100	-	-	366	166
10 HP (7.5 kW)	40.5	2.4	15577	1760	BG80-../DPE13XA4	43.94	5081	22600	-	-	485	220
10 HP (7.5 kW)	38	1.2	16639	1880	BG70-../DPE13XA4	46.54	4496	20000	-	-	366	166
10 HP (7.5 kW)	36.5	2.1	17347	1960	BG80-../DPE13XA4	48.80	5350	23800	-	-	485	220
10 HP (7.5 kW)	35.5	1.15	17701	2000	BG70-../DPE13XA4	50.40	4496	20000	-	-	366	166
10 HP (7.5 kW)	31	1.85	20357	2300	BG80-../DPE13XA4	57.24	5710	25400	-	-	485	220
10 HP (7.5 kW)	31	3.0	20357	2300	BG90Z-../DPE13XA4	57.04	14613	65000	-	-	805	365
10 HP (7.5 kW)	30	0.98	20799	2350	BG70-../DPE13XA4	59.82	4496	20000	-	-	366	166
10 HP (7.5 kW)	28.5	3.0	22127	2500	BG90Z-../DPE13XA4	62.47	14613	65000	-	-	805	365
10 HP (7.5 kW)	28	1.65	22569	2550	BG80-../DPE13XA4	63.56	5845	26000	-	-	485	220
10 HP (7.5 kW)	27.5	0.88	23012	2600	BG70Z-../DPE13XA4	64.85	4496	20000	-	-	423	192
10 HP (7.5 kW)	27	1.6	23454	2650	BG80Z-../DPE13XA4	66.40	5845	26000	-	-	580	263
10 HP (7.5 kW)	24	1.4	26110	2950	BG80Z-../DPE13XA4	73.73	5845	26000	-	-	580	263
10 HP (7.5 kW)	23.5	2.8	26552	3000	BG90Z-../DPE13XA4	76.61	14613	65000	-	-	805	365
10 HP (7.5 kW)	21.5	2.5	29207	3300	BG90Z-../DPE13XA4	83.91	14613	65000	-	-	805	365
10 HP (7.5 kW)	21	1.25	30093	3400	BG80Z-../DPE13XA4	84.55	5845	26000	-	-	580	263
10 HP (7.5 kW)	19	1.1	33190	3750	BG80Z-../DPE13XA4	93.89	5845	26000	-	-	580	263
10 HP (7.5 kW)	18.5	2.2	34075	3850	BG90Z-../DPE13XA4	96.53	14613	65000	-	-	805	365
10 HP (7.5 kW)	17	2.0	37173	4200	BG90Z-../DPE13XA4	105.7	14613	65000	-	-	805	365
10 HP (7.5 kW)	16	0.94	39386	4450	BG80Z-../DPE13XA4	112.4	5845	26000	-	-	580	263
10 HP (7.5 kW)	14.5	0.86	43369	4900	BG80Z-../DPE13XA4	124.8	5845	26000	-	-	580	263
10 HP (7.5 kW)	14	1.65	45139	5100	BG90Z-../DPE13XA4	127.1	14613	65000	-	-	805	365
10 HP (7.5 kW)	13	1.55	48679	5500	BG90Z-../DPE13XA4	139.2	14613	65000	-	-	805	365
10 HP (7.5 kW)	13	3.1	48679	5500	BG100-../DPE13XA4	139.1	20233	90000	-	-	1060	481
10 HP (7.5 kW)	11.5	2.7	54875	6200	BG100-../DPE13XA4	154.8	20233	90000	-	-	1060	481
10 HP (7.5 kW)	11	1.3	57530	6500	BG90Z-../DPE13XA4	163.0	14613	65000	-	-	805	365
10 HP (7.5 kW)	9.9	1.15	63725	7200	BG90Z-../DPE13XA4	178.5	14613	65000	-	-	805	365

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

10 HP (7.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
10 HP (7.5 kW)	9.9	2.3	63725	7200	BG100-../DPE13XA4	178.6	20233	90000	-	-	1060	481
10 HP (7.5 kW)	8.9	2.1	70806	8000	BG100-../DPE13XA4	198.8	20233	90000	-	-	1060	481
10 HP (7.5 kW)	8.5	1.0	74346	8400	BG90Z-../DPE13XA4	208.3	14613	65000	-	-	805	365
10 HP (7.5 kW)	7.8	0.92	80542	9100	BG90Z-../DPE13XA4	228.1	14613	65000	-	-	805	365
10 HP (7.5 kW)	7.6	1.8	83197	9400	BG100-../DPE13XA4	232.6	20233	90000	-	-	1060	481
10 HP (7.5 kW)	6.9	1.65	91163	10300	BG100-../DPE13XA4	259.0	20233	90000	-	-	1060	481
10 HP (7.5 kW)	6.8	0.91	89393	10100	BG90G50-../DPE13XA4	262.5	14613	65000	-	-	840	381
10 HP (7.5 kW)	6.6	1.7	95588	10800	BG100Z-../DPE13XA4	269.8	20233	90000	-	-	1261	572
10 HP (7.5 kW)	5.9	1.55	107094	12100	BG100Z-../DPE13XA4	300.4	20233	90000	-	-	1261	572
10 HP (7.5 kW)	5.2	1.35	121255	13700	BG100Z-../DPE13XA4	343.6	20233	90000	-	-	1261	572
10 HP (7.5 kW)	4.7	1.2	134531	15200	BG100Z-../DPE13XA4	382.6	20233	90000	-	-	1261	572
10 HP (7.5 kW)	3.9	1.0	161969	18300	BG100Z-../DPE13XA4	456.7	20233	90000	-	-	1261	572
10 HP (7.5 kW)	3.5	0.91	180555	20400	BG100Z-../DPE13XA4	508.5	20233	90000	-	-	1261	572

12.75 HP (9.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
12.75 HP (9.5 kW)	730	2.5	1097	124	BG50-../DPE16LB4	2.47	652	2900	-	-	304	138
12.75 HP (9.5 kW)	510	1.95	1567	177	BG50-../DPE16LB4	3.55	742	3300	-	-	304	138
12.75 HP (9.5 kW)	480	3.2	1673	189	BG60-../DPE16LB4	3.74	1596	7100	-	-	379	172
12.75 HP (9.5 kW)	365	1.6	2168	245	BG50-../DPE16LB4	4.91	787	3500	-	-	304	138
12.75 HP (9.5 kW)	360	2.8	2213	250	BG60-../DPE16LB4	4.98	1754	7800	-	-	379	172
12.75 HP (9.5 kW)	295	1.45	2699	305	BG50-../DPE16LB4	6.07	1057	4700	-	-	304	138
12.75 HP (9.5 kW)	290	2.5	2744	310	BG60-../DPE16LB4	6.16	1911	8500	-	-	379	172
12.75 HP (9.5 kW)	265	1.3	3009	340	BG50-../DPE16LB4	6.74	843	3750	-	-	304	138
12.75 HP (9.5 kW)	260	2.3	3054	345	BG60-../DPE16LB4	6.88	1933	8600	-	-	379	172
12.75 HP (9.5 kW)	205	1.15	3894	440	BG50-../DPE16LB4	8.70	1191	5300	-	-	304	138
12.75 HP (9.5 kW)	195	1.9	4116	465	BG60-../DPE16LB4	9.13	2203	9800	-	-	379	172
12.75 HP (9.5 kW)	185	1.05	4337	490	BG50-../DPE16LB4	9.65	1259	5600	-	-	304	138
12.75 HP (9.5 kW)	176	1.8	4514	510	BG60-../DPE16LB4	10.12	2293	10200	-	-	379	172
12.75 HP (9.5 kW)	148	0.94	5399	610	BG50-../DPE16LB4	12.06	1281	5700	-	-	304	138
12.75 HP (9.5 kW)	147	1.6	5399	610	BG60-../DPE16LB4	12.16	2428	10800	-	-	379	172
12.75 HP (9.5 kW)	134	0.89	5930	670	BG50-../DPE16LB4	13.36	1371	6100	-	-	304	138
12.75 HP (9.5 kW)	133	1.5	6019	680	BG60-../DPE16LB4	13.47	2518	11200	-	-	379	172
12.75 HP (9.5 kW)	115	2.9	6904	780	BG70-../DPE16LB4	15.53	2855	12700	-	-	454	206
12.75 HP (9.5 kW)	106	1.3	7523	850	BG60-../DPE16LB4	16.80	2698	12000	-	-	379	172
12.75 HP (9.5 kW)	101	2.6	7877	890	BG70-../DPE16LB4	17.68	3012	13400	-	-	454	206
12.75 HP (9.5 kW)	96	1.2	8320	940	BG60-../DPE16LB4	18.62	2788	12400	-	-	379	172
12.75 HP (9.5 kW)	85	2.2	9382	1060	BG70-../DPE16LB4	20.98	3282	14600	-	-	454	206
12.75 HP (9.5 kW)	80	1.05	10001	1130	BG60-../DPE16LB4	22.40	2990	13300	-	-	379	172
12.75 HP (9.5 kW)	78	2.0	10267	1160	BG70-../DPE16LB4	22.92	3395	15100	-	-	454	206
12.75 HP (9.5 kW)	72	0.95	11152	1260	BG60-../DPE16LB4	24.82	3102	13800	-	-	379	172
12.75 HP (9.5 kW)	68	3.2	11771	1330	BG80-../DPE16LB4	26.44	4024	17900	-	-	564	256
12.75 HP (9.5 kW)	66	1.7	12126	1370	BG60-../DPE16LB4	27.21	3687	16400	-	-	454	206
12.75 HP (9.5 kW)	61	0.81	13099	1480	BG60-../DPE16LB4	29.31	3327	14800	-	-	379	172
12.75 HP (9.5 kW)	61	2.8	13099	1480	BG80-../DPE16LB4	29.36	4249	18900	-	-	564	256
12.75 HP (9.5 kW)	60	1.5	13365	1510	BG70-../DPE16LB4	29.69	3799	16900	-	-	454	206
12.75 HP (9.5 kW)	53	2.5	15135	1710	BG80-../DPE16LB4	34.22	4541	20200	-	-	564	256
12.75 HP (9.5 kW)	51	1.3	15666	1770	BG70-../DPE16LB4	35.24	4114	18300	-	-	454	206
12.75 HP (9.5 kW)	47	2.2	17082	1930	BG80-../DPE16LB4	38.00	4788	21300	-	-	564	256
12.75 HP (9.5 kW)	45.5	1.15	17613	1990	BG70-../DPE16LB4	39.22	4294	19100	-	-	454	206

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

12.75 HP (9.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
12.75 HP (9.5 kW)	41	1.9	19472	2200	BG80-../DPE16LB4	43.94	5081	22600	-	-	564	256
12.75 HP (9.5 kW)	38.5	0.98	20799	2350	BG70-../DPE16LB4	46.54	4496	20000	-	-	454	206
12.75 HP (9.5 kW)	36.5	1.7	21684	2450	BG80-../DPE16LB4	48.80	5350	23800	-	-	564	256
12.75 HP (9.5 kW)	35.5	0.9	22569	2550	BG70-../DPE16LB4	50.40	4496	20000	-	-	454	206
12.75 HP (9.5 kW)	33.5	3.1	23897	2700	BG90-../DPE16LB4	53.46	14613	65000	-	-	763	346
12.75 HP (9.5 kW)	31.5	1.45	25225	2850	BG80-../DPE16LB4	57.24	5710	25400	-	-	564	256
12.75 HP (9.5 kW)	31.5	2.4	25225	2850	BG90Z-../DPE16LB4	57.04	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	28.5	1.35	27880	3150	BG80-../DPE16LB4	63.56	5845	26000	-	-	564	256
12.75 HP (9.5 kW)	28.5	2.4	27880	3150	BG90Z-../DPE16LB4	62.47	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	27	1.25	29650	3350	BG80Z-../DPE16LB4	66.40	5845	26000	-	-	659	299
12.75 HP (9.5 kW)	24.5	1.15	32748	3700	BG80Z-../DPE16LB4	73.73	5845	26000	-	-	659	299
12.75 HP (9.5 kW)	23.5	2.2	34075	3850	BG90Z-../DPE16LB4	76.61	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	21.5	1.0	37173	4200	BG80Z-../DPE16LB4	84.55	5845	26000	-	-	659	299
12.75 HP (9.5 kW)	21.5	2.0	37173	4200	BG90Z-../DPE16LB4	83.91	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	19	0.88	42041	4750	BG80Z-../DPE16LB4	93.89	5845	26000	-	-	659	299
12.75 HP (9.5 kW)	18.5	1.7	43369	4900	BG90Z-../DPE16LB4	96.53	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	17	1.6	46909	5300	BG90Z-../DPE16LB4	105.7	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	17	3.2	46909	5300	BG100-../DPE16LB4	107.5	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	15	2.8	53104	6000	BG100-../DPE16LB4	119.7	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	14.5	1.35	54875	6200	BG90Z-../DPE16LB4	127.1	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	13	1.2	61070	6900	BG90Z-../DPE16LB4	139.2	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	13	2.4	61070	6900	BG100-../DPE16LB4	139.1	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	11.5	2.2	69036	7800	BG100-../DPE16LB4	154.8	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	11	1.0	72576	8200	BG90Z-../DPE16LB4	163.0	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	10	0.93	79657	9000	BG90Z-../DPE16LB4	178.5	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	10	1.85	79657	9000	BG100-../DPE16LB4	178.6	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	9.0	1.7	88507	10000	BG100-../DPE16LB4	198.8	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	8.6	0.8	92933	10500	BG90Z-../DPE16LB4	208.3	14613	65000	-	-	893	405
12.75 HP (9.5 kW)	8.1	0.84	96473	10900	BG90G50-../DPE16LB4	219.9	14613	65000	-	-	919	417
12.75 HP (9.5 kW)	7.7	1.45	103554	11700	BG100-../DPE16LB4	232.6	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	6.9	1.3	115945	13100	BG100-../DPE16LB4	259.0	20233	90000	-	-	1138	516
12.75 HP (9.5 kW)	6.6	1.35	121255	13700	BG100Z-../DPE16LB4	269.8	20233	90000	-	-	1340	608
12.75 HP (9.5 kW)	6.0	1.25	133646	15100	BG100Z-../DPE16LB4	300.4	20233	90000	-	-	1340	608
12.75 HP (9.5 kW)	5.2	1.05	154003	17400	BG100Z-../DPE16LB4	343.6	20233	90000	-	-	1340	608
12.75 HP (9.5 kW)	4.7	0.96	170819	19300	BG100Z-../DPE16LB4	382.6	20233	90000	-	-	1340	608
12.75 HP (9.5 kW)	3.9	0.8	205337	23200	BG100Z-../DPE16LB4	456.7	20233	90000	-	-	1340	608

15 HP (11 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
15 HP (11 kW)	730	2.1	1266	143	BG50-../DPE16LB4	2.47	652	2900	-	-	304	138
15 HP (11 kW)	510	1.7	1814	205	BG50-../DPE16LB4	3.55	742	3300	-	-	304	138
15 HP (11 kW)	480	2.8	1903	215	BG60-../DPE16LB4	3.74	1596	7100	-	-	379	172
15 HP (11 kW)	365	1.4	2522	285	BG50-../DPE16LB4	4.91	787	3500	-	-	304	138
15 HP (11 kW)	360	2.4	2567	290	BG60-../DPE16LB4	4.98	1754	7800	-	-	379	172
15 HP (11 kW)	295	1.25	3142	355	BG50-../DPE16LB4	6.07	1057	4700	-	-	304	138
15 HP (11 kW)	290	2.1	3186	360	BG60-../DPE16LB4	6.16	1911	8500	-	-	379	172
15 HP (11 kW)	265	1.15	3496	395	BG50-../DPE16LB4	6.74	843	3750	-	-	304	138
15 HP (11 kW)	260	1.95	3540	400	BG60-../DPE16LB4	6.88	1933	8600	-	-	379	172
15 HP (11 kW)	205	1.0	4514	510	BG50-../DPE16LB4	8.70	1191	5300	-	-	304	138
15 HP (11 kW)	195	1.7	4691	530	BG60-../DPE16LB4	9.13	2203	9800	-	-	379	172

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

15 HP (11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
15 HP (11 kW)	185	0.94	4956	560	BG50-../DPE16LB4	9.65	1259	5600	-	-	-	-	304	138
15 HP (11 kW)	176	1.55	5222	590	BG60-../DPE16LB4	10.12	2293	10200	-	-	-	-	379	172
15 HP (11 kW)	149	3.3	6196	700	BG70-../DPE16LB4	11.97	2518	11200	-	-	-	-	454	206
15 HP (11 kW)	148	0.82	6196	700	BG50-../DPE16LB4	12.06	1281	5700	-	-	-	-	304	138
15 HP (11 kW)	147	1.4	6284	710	BG60-../DPE16LB4	12.16	2428	10800	-	-	-	-	379	172
15 HP (11 kW)	137	3.0	6727	760	BG70-../DPE16LB4	13.08	2608	11600	-	-	-	-	454	206
15 HP (11 kW)	133	1.3	6904	780	BG60-../DPE16LB4	13.47	2518	11200	-	-	-	-	379	172
15 HP (11 kW)	115	2.5	8054	910	BG70-../DPE16LB4	15.53	2855	12700	-	-	-	-	454	206
15 HP (11 kW)	106	1.1	8762	990	BG60-../DPE16LB4	16.80	2698	12000	-	-	-	-	379	172
15 HP (11 kW)	101	2.2	9205	1040	BG70-../DPE16LB4	17.68	3012	13400	-	-	-	-	454	206
15 HP (11 kW)	96	1.05	9647	1090	BG60-../DPE16LB4	18.62	2788	12400	-	-	-	-	379	172
15 HP (11 kW)	85	1.85	10886	1230	BG70-../DPE16LB4	20.98	3282	14600	-	-	-	-	454	206
15 HP (11 kW)	81	3.3	11417	1290	BG80-../DPE16LB4	22.09	3709	16500	-	-	-	-	564	256
15 HP (11 kW)	80	0.92	11594	1310	BG60-../DPE16LB4	22.40	2990	13300	-	-	-	-	379	172
15 HP (11 kW)	78	1.7	11860	1340	BG70-../DPE16LB4	22.92	3395	15100	-	-	-	-	454	206
15 HP (11 kW)	72	0.83	12834	1450	BG60-../DPE16LB4	24.82	3102	13800	-	-	-	-	379	172
15 HP (11 kW)	68	2.7	13630	1540	BG80-../DPE16LB4	26.44	4024	17900	-	-	-	-	564	256
15 HP (11 kW)	66	1.45	14073	1590	BG70-../DPE16LB4	27.21	3687	16400	-	-	-	-	454	206
15 HP (11 kW)	61	2.4	15223	1720	BG80-../DPE16LB4	29.36	4249	18900	-	-	-	-	564	256
15 HP (11 kW)	60	1.3	15489	1750	BG70-../DPE16LB4	29.69	3799	16900	-	-	-	-	454	206
15 HP (11 kW)	53	2.1	17524	1980	BG80-../DPE16LB4	34.22	4541	20200	-	-	-	-	564	256
15 HP (11 kW)	51	1.1	18144	2050	BG70-../DPE16LB4	35.24	4114	18300	-	-	-	-	454	206
15 HP (11 kW)	47	1.9	19472	2200	BG80-../DPE16LB4	38.00	4788	21300	-	-	-	-	564	256
15 HP (11 kW)	45.5	1.0	20357	2300	BG70-../DPE16LB4	39.22	4294	19100	-	-	-	-	454	206
15 HP (11 kW)	41	1.65	22569	2550	BG80-../DPE16LB4	43.94	5081	22600	-	-	-	-	564	256
15 HP (11 kW)	38.5	0.85	23897	2700	BG70-../DPE16LB4	46.54	4496	20000	-	-	-	-	454	206
15 HP (11 kW)	36.5	1.45	25225	2850	BG80-../DPE16LB4	48.80	5350	23800	-	-	-	-	564	256
15 HP (11 kW)	36.5	2.9	25225	2850	BG90-../DPE16LB4	48.82	14613	65000	-	-	-	-	763	346
15 HP (11 kW)	33.5	2.7	27437	3100	BG90-../DPE16LB4	53.46	14613	65000	-	-	-	-	763	346
15 HP (11 kW)	31.5	1.25	29207	3300	BG80-../DPE16LB4	57.24	5710	25400	-	-	-	-	564	256
15 HP (11 kW)	31.5	2.1	29207	3300	BG90Z-../DPE16LB4	57.04	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	28.5	1.15	32305	3650	BG80-../DPE16LB4	63.56	5845	26000	-	-	-	-	564	256
15 HP (11 kW)	28.5	2.1	32305	3650	BG90Z-../DPE16LB4	62.47	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	27	1.1	34075	3850	BG80Z-../DPE16LB4	66.40	5845	26000	-	-	-	-	659	299
15 HP (11 kW)	24.5	0.99	37616	4250	BG80Z-../DPE16LB4	73.73	5845	26000	-	-	-	-	659	299
15 HP (11 kW)	23.5	1.9	39386	4450	BG90Z-../DPE16LB4	76.61	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	21.5	0.87	42926	4850	BG80Z-../DPE16LB4	84.55	5845	26000	-	-	-	-	659	299
15 HP (11 kW)	21.5	1.75	42926	4850	BG90Z-../DPE16LB4	83.91	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	20	3.2	46024	5200	BG100-../DPE16LB4	90.02	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	18.5	1.5	49564	5600	BG90Z-../DPE16LB4	96.53	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	17	1.4	53990	6100	BG90Z-../DPE16LB4	105.7	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	17	2.8	53990	6100	BG100-../DPE16LB4	107.5	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	15	2.4	61955	7000	BG100-../DPE16LB4	119.7	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	14.5	1.15	63725	7200	BG90Z-../DPE16LB4	127.1	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	13	1.05	70806	8000	BG90Z-../DPE16LB4	139.2	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	13	2.1	70806	8000	BG100-../DPE16LB4	139.1	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	11.5	1.85	80542	9100	BG100-../DPE16LB4	154.8	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	11	0.88	84082	9500	BG90Z-../DPE16LB4	163.0	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	10	0.8	92933	10500	BG90Z-../DPE16LB4	178.5	14613	65000	-	-	-	-	893	405
15 HP (11 kW)	10	1.6	92933	10500	BG100-../DPE16LB4	178.6	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	9.0	1.45	102669	11600	BG100-../DPE16LB4	198.8	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	7.7	1.25	120370	13600	BG100-../DPE16LB4	232.6	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	6.9	1.1	134531	15200	BG100-../DPE16LB4	259.0	20233	90000	-	-	-	-	1138	516
15 HP (11 kW)	6.6	1.15	140727	15900	BG100Z-../DPE16LB4	269.8	20233	90000	-	-	-	-	1340	608
15 HP (11 kW)	6.0	1.05	154888	17500	BG100Z-../DPE16LB4	300.4	20233	90000	-	-	-	-	1340	608
15 HP (11 kW)	5.2	0.92	178785	20200	BG100Z-../DPE16LB4	343.6	20233	90000	-	-	-	-	1340	608
15 HP (11 kW)	4.7	0.83	197372	22300	BG100Z-../DPE16LB4	382.6	20233	90000	-	-	-	-	1340	608

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

16.8 HP (12.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
16.8 HP (12.5 kW)	720	1.85	1460	165	BG50-../DPE16LB4	2.47	652	2900	-	-	304	138
16.8 HP (12.5 kW)	710	3.2	1487	168	BG60-../DPE16LB4	2.52	1394	6200	-	-	379	172
16.8 HP (12.5 kW)	500	1.5	2080	235	BG50-../DPE16LB4	3.55	742	3300	-	-	304	138
16.8 HP (12.5 kW)	475	2.4	2213	250	BG60-../DPE16LB4	3.74	1596	7100	-	-	379	172
16.8 HP (12.5 kW)	365	1.2	2876	325	BG50-../DPE16LB4	4.91	787	3500	-	-	304	138
16.8 HP (12.5 kW)	360	2.1	2921	330	BG60-../DPE16LB4	4.98	1754	7800	-	-	379	172
16.8 HP (12.5 kW)	295	1.1	3540	400	BG50-../DPE16LB4	6.07	1057	4700	-	-	304	138
16.8 HP (12.5 kW)	290	1.9	3629	410	BG60-../DPE16LB4	6.16	1911	8500	-	-	379	172
16.8 HP (12.5 kW)	265	1.0	3983	450	BG50-../DPE16LB4	6.74	843	3750	-	-	304	138
16.8 HP (12.5 kW)	260	1.7	4027	455	BG60-../DPE16LB4	6.88	1933	8600	-	-	379	172
16.8 HP (12.5 kW)	205	0.88	5133	580	BG50-../DPE16LB4	8.70	1191	5300	-	-	304	138
16.8 HP (12.5 kW)	194	1.45	5399	610	BG60-../DPE16LB4	9.13	2203	9800	-	-	379	172
16.8 HP (12.5 kW)	184	0.82	5664	640	BG50-../DPE16LB4	9.65	1259	5600	-	-	304	138
16.8 HP (12.5 kW)	175	1.35	6019	680	BG60-../DPE16LB4	10.12	2293	10200	-	-	379	172
16.8 HP (12.5 kW)	148	2.9	7081	800	BG70-../DPE16LB4	11.97	2518	11200	-	-	454	206
16.8 HP (12.5 kW)	146	1.2	7169	810	BG60-../DPE16LB4	12.16	2428	10800	-	-	379	172
16.8 HP (12.5 kW)	136	2.6	7700	870	BG70-../DPE16LB4	13.08	2608	11600	-	-	454	206
16.8 HP (12.5 kW)	132	1.15	7966	900	BG60-../DPE16LB4	13.47	2518	11200	-	-	379	172
16.8 HP (12.5 kW)	114	2.2	9205	1040	BG70-../DPE16LB4	15.53	2855	12700	-	-	454	206
16.8 HP (12.5 kW)	106	0.99	9913	1120	BG60-../DPE16LB4	16.80	2698	12000	-	-	379	172
16.8 HP (12.5 kW)	101	1.95	10444	1180	BG70-../DPE16LB4	17.68	3012	13400	-	-	454	206
16.8 HP (12.5 kW)	96	0.92	10975	1240	BG60-../DPE16LB4	18.62	2788	12400	-	-	379	172
16.8 HP (12.5 kW)	89	3.1	11860	1340	BG80-../DPE16LB4	19.89	3485	15500	-	-	564	256
16.8 HP (12.5 kW)	85	1.65	12391	1400	BG70-../DPE16LB4	20.98	3282	14600	-	-	454	206
16.8 HP (12.5 kW)	81	2.9	13011	1470	BG80-../DPE16LB4	22.09	3709	16500	-	-	564	256
16.8 HP (12.5 kW)	80	0.81	13188	1490	BG60-../DPE16LB4	22.40	2990	13300	-	-	379	172
16.8 HP (12.5 kW)	78	1.5	13542	1530	BG70-../DPE16LB4	22.92	3395	15100	-	-	454	206
16.8 HP (12.5 kW)	67	2.4	15754	1780	BG80-../DPE16LB4	26.44	4024	17900	-	-	564	256
16.8 HP (12.5 kW)	66	1.3	15931	1800	BG70-../DPE16LB4	27.21	3687	16400	-	-	454	206
16.8 HP (12.5 kW)	61	2.2	17259	1950	BG80-../DPE16LB4	29.36	4249	18900	-	-	564	256
16.8 HP (12.5 kW)	60	1.15	17524	1980	BG70-../DPE16LB4	29.69	3799	16900	-	-	454	206
16.8 HP (12.5 kW)	52	1.85	19914	2250	BG80-../DPE16LB4	34.22	4541	20200	-	-	564	256
16.8 HP (12.5 kW)	51	1.0	20357	2300	BG70-../DPE16LB4	35.24	4114	18300	-	-	454	206
16.8 HP (12.5 kW)	47	1.7	22127	2500	BG80-../DPE16LB4	38.00	4788	21300	-	-	564	256
16.8 HP (12.5 kW)	46.5	3.3	22569	2550	BG90-../DPE16LB4	38.21	14613	65000	-	-	763	346
16.8 HP (12.5 kW)	45.5	0.88	23012	2600	BG70-../DPE16LB4	39.22	4294	19100	-	-	454	206
16.8 HP (12.5 kW)	42.5	3.0	24782	2800	BG90-../DPE16LB4	41.85	14613	65000	-	-	763	346
16.8 HP (12.5 kW)	40.5	1.45	25667	2900	BG80-../DPE16LB4	43.94	5081	22600	-	-	564	256
16.8 HP (12.5 kW)	36.5	1.3	28765	3250	BG80-../DPE16LB4	48.80	5350	23800	-	-	564	256
16.8 HP (12.5 kW)	36.5	2.6	28765	3250	BG90-../DPE16LB4	48.82	14613	65000	-	-	763	346
16.8 HP (12.5 kW)	33.5	2.4	31420	3550	BG90-../DPE16LB4	53.46	14613	65000	-	-	763	346
16.8 HP (12.5 kW)	31.5	1.8	33190	3750	BG90Z-../DPE16LB4	57.04	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	31	1.1	34075	3850	BG80-../DPE16LB4	57.24	5710	25400	-	-	564	256
16.8 HP (12.5 kW)	28.5	1.8	36731	4150	BG90Z-../DPE16LB4	62.47	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	28	0.99	37616	4250	BG80-../DPE16LB4	63.56	5845	26000	-	-	564	256
16.8 HP (12.5 kW)	27	0.95	38943	4400	BG80Z-../DPE16LB4	66.40	5845	26000	-	-	659	299
16.8 HP (12.5 kW)	24.5	0.87	42926	4850	BG80Z-../DPE16LB4	73.73	5845	26000	-	-	659	299
16.8 HP (12.5 kW)	23.5	1.7	44254	5000	BG90Z-../DPE16LB4	76.61	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	22	3.1	47794	5400	BG100-../DPE16LB4	80.85	20233	90000	-	-	1138	516
16.8 HP (12.5 kW)	21.5	1.55	48679	5500	BG90Z-../DPE16LB4	83.91	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	20	2.8	52219	5900	BG100-../DPE16LB4	90.02	20233	90000	-	-	1138	516
16.8 HP (12.5 kW)	18.5	1.3	56645	6400	BG90Z-../DPE16LB4	96.53	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	17	1.2	61955	7000	BG90Z-../DPE16LB4	105.7	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	16.5	2.3	63725	7200	BG100-../DPE16LB4	107.5	20233	90000	-	-	1138	516
16.8 HP (12.5 kW)	15	2.1	69921	7900	BG100-../DPE16LB4	119.7	20233	90000	-	-	1138	516
16.8 HP (12.5 kW)	14	0.99	75231	8500	BG90Z-../DPE16LB4	127.1	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	13	0.92	80542	9100	BG90Z-../DPE16LB4	139.2	14613	65000	-	-	893	405
16.8 HP (12.5 kW)	13	1.85	80542	9100	BG100-../DPE16LB4	139.1	20233	90000	-	-	1138	516

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

16.8 HP (12.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb	kg		
[kW]	RPM	SF												
16.8 HP (12.5 kW)	11.5	1.65	91163	10300	BG100-../DPE16LB4	154.8	20233	90000	-	-	1138	516		
16.8 HP (12.5 kW)	10	1.4	105324	11900	BG100-../DPE16LB4	178.6	20233	90000	-	-	1138	516		
16.8 HP (12.5 kW)	9.0	1.25	116830	13200	BG100-../DPE16LB4	198.8	20233	90000	-	-	1138	516		
16.8 HP (12.5 kW)	7.7	1.1	137187	15500	BG100-../DPE16LB4	232.6	20233	90000	-	-	1138	516		
16.8 HP (12.5 kW)	6.9	0.97	153118	17300	BG100-../DPE16LB4	259.0	20233	90000	-	-	1138	516		
16.8 HP (12.5 kW)	6.6	1.05	159313	18000	BG100Z-../DPE16LB4	269.8	20233	90000	-	-	1340	608		
16.8 HP (12.5 kW)	5.9	0.92	178785	20200	BG100Z-../DPE16LB4	300.4	20233	90000	-	-	1340	608		
16.8 HP (12.5 kW)	5.2	0.81	202682	22900	BG100Z-../DPE16LB4	343.6	20233	90000	-	-	1340	608		

20 HP (15 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb	kg		
[kW]	RPM	SF												
20 HP (15 kW)	730	1.55	1735	196	BG50-../DPE16XB4	2.47	652	2900	-	-	326	148		
20 HP (15 kW)	710	2.7	1770	200	BG60-../DPE16XB4	2.52	1394	6200	-	-	401	182		
20 HP (15 kW)	510	1.25	2478	280	BG50-../DPE16XB4	3.55	742	3300	-	-	326	148		
20 HP (15 kW)	480	2.1	2611	295	BG60-../DPE16XB4	3.74	1596	7100	-	-	401	182		
20 HP (15 kW)	365	1.0	3452	390	BG50-../DPE16XB4	4.91	787	3500	-	-	326	148		
20 HP (15 kW)	360	1.75	3496	395	BG60-../DPE16XB4	4.98	1754	7800	-	-	401	182		
20 HP (15 kW)	295	0.91	4293	485	BG50-../DPE16XB4	6.07	1057	4700	-	-	326	148		
20 HP (15 kW)	290	1.6	4337	490	BG60-../DPE16XB4	6.16	1911	8500	-	-	401	182		
20 HP (15 kW)	265	0.83	4779	540	BG50-../DPE16XB4	6.74	843	3750	-	-	326	148		
20 HP (15 kW)	260	1.4	4868	550	BG60-../DPE16XB4	6.88	1933	8600	-	-	401	182		
20 HP (15 kW)	195	1.2	6461	730	BG60-../DPE16XB4	9.13	2203	9800	-	-	401	182		
20 HP (15 kW)	177	2.9	7081	800	BG70-../DPE16XB4	10.09	2293	10200	-	-	476	216		
20 HP (15 kW)	176	1.15	7169	810	BG60-../DPE16XB4	10.12	2293	10200	-	-	401	182		
20 HP (15 kW)	149	2.4	8497	960	BG70-../DPE16XB4	11.97	2518	11200	-	-	476	216		
20 HP (15 kW)	147	1.0	8585	970	BG60-../DPE16XB4	12.16	2428	10800	-	-	401	182		
20 HP (15 kW)	137	2.2	9205	1040	BG70-../DPE16XB4	13.08	2608	11600	-	-	476	216		
20 HP (15 kW)	133	0.95	9470	1070	BG60-../DPE16XB4	13.47	2518	11200	-	-	401	182		
20 HP (15 kW)	115	1.85	10975	1240	BG70-../DPE16XB4	15.53	2855	12700	-	-	476	216		
20 HP (15 kW)	106	0.82	11949	1350	BG60-../DPE16XB4	16.80	2698	12000	-	-	401	182		
20 HP (15 kW)	103	3.0	12303	1390	BG80-../DPE16XB4	17.35	3282	14600	-	-	586	266		
20 HP (15 kW)	101	1.65	12480	1410	BG60-../DPE16XB4	17.68	3012	13400	-	-	476	216		
20 HP (15 kW)	90	2.6	14073	1590	BG80-../DPE16XB4	19.89	3485	15500	-	-	586	266		
20 HP (15 kW)	85	1.35	14869	1680	BG70-../DPE16XB4	20.98	3282	14600	-	-	476	216		
20 HP (15 kW)	81	2.4	15577	1760	BG80-../DPE16XB4	22.09	3709	16500	-	-	586	266		
20 HP (15 kW)	78	1.25	16197	1830	BG70-../DPE16XB4	22.92	3395	15100	-	-	476	216		
20 HP (15 kW)	68	2.0	18587	2100	BG80-../DPE16XB4	26.44	4024	17900	-	-	586	266		
20 HP (15 kW)	66	1.05	19029	2150	BG70-../DPE16XB4	27.21	3687	16400	-	-	476	216		
20 HP (15 kW)	61	1.85	20357	2300	BG80-../DPE16XB4	29.36	4249	18900	-	-	586	266		
20 HP (15 kW)	60	0.98	20799	2350	BG70-../DPE16XB4	29.69	3799	16900	-	-	476	216		
20 HP (15 kW)	55	3.2	23012	2600	BG90-../DPE16XB4	32.62	14613	65000	-	-	785	356		
20 HP (15 kW)	53	1.55	23897	2700	BG80-../DPE16XB4	34.22	4541	20200	-	-	586	266		
20 HP (15 kW)	51	0.82	24782	2800	BG70-../DPE16XB4	35.24	4114	18300	-	-	476	216		
20 HP (15 kW)	47	1.4	26552	3000	BG80-../DPE16XB4	38.00	4788	21300	-	-	586	266		
20 HP (15 kW)	47	2.8	26552	3000	BG90-../DPE16XB4	38.21	14613	65000	-	-	785	356		
20 HP (15 kW)	43	2.5	29207	3300	BG90-../DPE16XB4	41.85	14613	65000	-	-	785	356		
20 HP (15 kW)	41	1.2	30535	3450	BG80-../DPE16XB4	43.94	5081	22600	-	-	586	266		
20 HP (15 kW)	36.5	1.1	34518	3900	BG80-../DPE16XB4	48.80	5350	23800	-	-	586	266		
20 HP (15 kW)	36.5	2.2	34518	3900	BG90-../DPE16XB4	48.82	14613	65000	-	-	785	356		
20 HP (15 kW)	33.5	2.0	37616	4250	BG90-../DPE16XB4	53.46	14613	65000	-	-	785	356		

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

20 HP (15 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
20 HP (15 kW)	31.5	0.93	39828	4500	BG80-../DPE16XB4	57.24	5710	25400	-	-	586	266
20 HP (15 kW)	31.5	1.5	39828	4500	BG90Z-../DPE16XB4	57.04	14613	65000	-	-	915	415
20 HP (15 kW)	28.5	0.84	44254	5000	BG80-../DPE16XB4	63.56	5845	26000	-	-	586	266
20 HP (15 kW)	28.5	1.5	44254	5000	BG90Z-../DPE16XB4	62.47	14613	65000	-	-	915	415
20 HP (15 kW)	28.5	3.1	44254	5000	BG100-../DPE16XB4	63.49	20233	90000	-	-	1160	526
20 HP (15 kW)	25.5	2.8	49564	5600	BG100-../DPE16XB4	70.69	20233	90000	-	-	1160	526
20 HP (15 kW)	23.5	1.4	53104	6000	BG90Z-../DPE16XB4	76.61	14613	65000	-	-	915	415
20 HP (15 kW)	22.5	2.6	55760	6300	BG100-../DPE16XB4	80.85	20233	90000	-	-	1160	526
20 HP (15 kW)	21.5	1.25	58415	6600	BG90Z-../DPE16XB4	83.91	14613	65000	-	-	915	415
20 HP (15 kW)	20	2.4	62840	7100	BG100-../DPE16XB4	90.02	20233	90000	-	-	1160	526
20 HP (15 kW)	18.5	1.1	68151	7700	BG90Z-../DPE16XB4	96.53	14613	65000	-	-	915	415
20 HP (15 kW)	17	1.0	74346	8400	BG90Z-../DPE16XB4	105.7	14613	65000	-	-	915	415
20 HP (15 kW)	17	2.0	74346	8400	BG100-../DPE16XB4	107.5	20233	90000	-	-	1160	526
20 HP (15 kW)	15	1.75	84082	9500	BG100-../DPE16XB4	119.7	20233	90000	-	-	1160	526
20 HP (15 kW)	14.5	0.86	86737	9800	BG90Z-../DPE16XB4	127.1	14613	65000	-	-	915	415
20 HP (15 kW)	13	1.55	97358	11000	BG100-../DPE16XB4	139.1	20233	90000	-	-	1160	526
20 HP (15 kW)	11.5	1.35	109749	12400	BG100-../DPE16XB4	154.8	20233	90000	-	-	1160	526
20 HP (15 kW)	10	1.15	126566	14300	BG100-../DPE16XB4	178.6	20233	90000	-	-	1160	526
20 HP (15 kW)	9.0	1.05	140727	15900	BG100-../DPE16XB4	198.8	20233	90000	-	-	1160	526
20 HP (15 kW)	7.7	0.9	164624	18600	BG100-../DPE16XB4	232.6	20233	90000	-	-	1160	526
20 HP (15 kW)	6.9	0.81	183210	20700	BG100-../DPE16XB4	259.0	20233	90000	-	-	1160	526
20 HP (15 kW)	6.6	0.85	192061	21700	BG100Z-../DPE16XB4	269.8	20233	90000	-	-	1362	618

6

25 HP (18.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
25 HP (18.5 kW)	730	1.3	2124	240	BG50-../DPE18LB4	2.47	652	2900	-	-	441	200
25 HP (18.5 kW)	710	2.2	2168	245	BG60-../DPE18LB4	2.52	1394	6200	-	-	505	229
25 HP (18.5 kW)	510	1.0	3054	345	BG50-../DPE18LB4	3.55	742	3300	-	-	441	200
25 HP (18.5 kW)	480	1.7	3231	365	BG60-../DPE18LB4	3.74	1596	7100	-	-	505	229
25 HP (18.5 kW)	365	0.83	4248	480	BG50-../DPE18LB4	4.91	787	3500	-	-	441	200
25 HP (18.5 kW)	360	1.4	4337	490	BG60-../DPE18LB4	4.98	1754	7800	-	-	505	229
25 HP (18.5 kW)	360	3.1	4337	490	BG70-../DPE18LB4	4.95	1551	6900	-	-	567	257
25 HP (18.5 kW)	305	3.1	5045	570	BG70-../DPE18LB4	5.87	1843	8200	-	-	567	257
25 HP (18.5 kW)	260	1.15	5930	670	BG60-../DPE18LB4	6.88	1933	8600	-	-	505	229
25 HP (18.5 kW)	250	3.1	6196	700	BG70-../DPE18LB4	7.14	1978	8800	-	-	567	257
25 HP (18.5 kW)	210	2.7	7435	840	BG70-../DPE18LB4	8.48	2136	9500	-	-	567	257
25 HP (18.5 kW)	195	0.99	7966	900	BG60-../DPE18LB4	9.13	2203	9800	-	-	505	229
25 HP (18.5 kW)	177	2.3	8762	990	BG70-../DPE18LB4	10.09	2293	10200	-	-	567	257
25 HP (18.5 kW)	176	0.91	8851	1000	BG60-../DPE18LB4	10.12	2293	10200	-	-	505	229
25 HP (18.5 kW)	149	1.95	10444	1180	BG70-../DPE18LB4	11.97	2518	11200	-	-	567	257
25 HP (18.5 kW)	147	0.82	10621	1200	BG60-../DPE18LB4	12.16	2428	10800	-	-	505	229
25 HP (18.5 kW)	137	1.8	11329	1280	BG70-../DPE18LB4	13.08	2608	11600	-	-	567	257
25 HP (18.5 kW)	115	1.5	13542	1530	BG70-../DPE18LB4	15.53	2855	12700	-	-	567	257
25 HP (18.5 kW)	114	2.7	13630	1540	BG80-../DPE18LB4	15.62	3080	13700	-	-	686	311
25 HP (18.5 kW)	103	2.5	15135	1710	BG80-../DPE18LB4	17.35	3282	14600	-	-	686	311
25 HP (18.5 kW)	101	1.3	15400	1740	BG70-../DPE18LB4	17.68	3012	13400	-	-	567	257
25 HP (18.5 kW)	90	2.1	17347	1960	BG80-../DPE18LB4	19.89	3485	15500	-	-	686	311
25 HP (18.5 kW)	85	1.1	18144	2050	BG70-../DPE18LB4	20.98	3282	14600	-	-	567	257
25 HP (18.5 kW)	81	1.95	19029	2150	BG80-../DPE18LB4	22.09	3709	16500	-	-	686	311
25 HP (18.5 kW)	78	1.0	19914	2250	BG70-../DPE18LB4	22.92	3395	15100	-	-	567	257

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

25 HP (18.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Reinforced Bearings		Weight	
			lbf-in	Nm			Standard Bearings	N	lbf	N	lb	kg
[kW]	RPM	SF					lb.f					
25 HP (18.5 kW)	68	1.65	22569	2550	BG80-../DPE18LB4	26.44	4024	17900	-	-	686	311
25 HP (18.5 kW)	66	0.87	23454	2650	BG70-../DPE18LB4	27.21	3687	16400	-	-	567	257
25 HP (18.5 kW)	61	1.45	25225	2850	BG80-../DPE18LB4	29.36	4249	18900	-	-	686	311
25 HP (18.5 kW)	60	2.9	25667	2900	BG90-../DPE18LB4	29.78	14613	65000	-	-	886	402
25 HP (18.5 kW)	55	2.6	28322	3200	BG90-../DPE18LB4	32.62	14613	65000	-	-	886	402
25 HP (18.5 kW)	53	1.25	29207	3300	BG80-../DPE18LB4	34.22	4541	20200	-	-	686	311
25 HP (18.5 kW)	47	1.1	33190	3750	BG80-../DPE18LB4	38.00	4788	21300	-	-	686	311
25 HP (18.5 kW)	47	2.2	33190	3750	BG90-../DPE18LB4	38.21	14613	65000	-	-	886	402
25 HP (18.5 kW)	43	2.0	36288	4100	BG90-../DPE18LB4	41.85	14613	65000	-	-	886	402
25 HP (18.5 kW)	41	0.98	38058	4300	BG80-../DPE18LB4	43.94	5081	22600	-	-	686	311
25 HP (18.5 kW)	38.5	3.1	40271	4550	BG100-../DPE18LB4	46.43	20233	90000	-	-	1261	572
25 HP (18.5 kW)	36.5	0.88	42484	4800	BG80-../DPE18LB4	48.80	5350	23800	-	-	686	311
25 HP (18.5 kW)	36.5	1.75	42484	4800	BG90-../DPE18LB4	48.82	14613	65000	-	-	886	402
25 HP (18.5 kW)	34.5	2.8	45139	5100	BG100-../DPE18LB4	51.70	20233	90000	-	-	1261	572
25 HP (18.5 kW)	33.5	1.6	46024	5200	BG90-../DPE18LB4	53.46	14613	65000	-	-	886	402
25 HP (18.5 kW)	31.5	1.2	49564	5600	BG90Z-../DPE18LB4	57.04	14613	65000	-	-	1005	456
25 HP (18.5 kW)	28.5	1.25	53990	6100	BG90Z-../DPE18LB4	62.47	14613	65000	-	-	1005	456
25 HP (18.5 kW)	28.5	2.5	53990	6100	BG100-../DPE18LB4	63.49	20233	90000	-	-	1261	572
25 HP (18.5 kW)	25.5	2.3	61070	6900	BG100-../DPE18LB4	70.69	20233	90000	-	-	1261	572
25 HP (18.5 kW)	23.5	1.1	66381	7500	BG90Z-../DPE18LB4	76.61	14613	65000	-	-	1005	456
25 HP (18.5 kW)	22.5	2.1	69036	7800	BG100-../DPE18LB4	80.85	20233	90000	-	-	1261	572
25 HP (18.5 kW)	21.5	1.0	72576	8200	BG90Z-../DPE18LB4	83.91	14613	65000	-	-	1005	456
25 HP (18.5 kW)	20	1.9	77887	8800	BG100-../DPE18LB4	90.02	20233	90000	-	-	1261	572
25 HP (18.5 kW)	18.5	0.88	84082	9500	BG90Z-../DPE18LB4	96.53	14613	65000	-	-	1005	456
25 HP (18.5 kW)	17	0.82	91163	10300	BG90Z-../DPE18LB4	105.7	14613	65000	-	-	1005	456
25 HP (18.5 kW)	17	1.65	91163	10300	BG100-../DPE18LB4	107.5	20233	90000	-	-	1261	572
25 HP (18.5 kW)	15	1.45	103554	11700	BG100-../DPE18LB4	119.7	20233	90000	-	-	1261	572
25 HP (18.5 kW)	13	1.25	119485	13500	BG100-../DPE18LB4	139.1	20233	90000	-	-	1261	572
25 HP (18.5 kW)	11.5	1.1	135416	15300	BG100-../DPE18LB4	154.8	20233	90000	-	-	1261	572
25 HP (18.5 kW)	10	0.95	155773	17600	BG100-../DPE18LB4	178.6	20233	90000	-	-	1261	572
25 HP (18.5 kW)	9.0	0.86	173475	19600	BG100-../DPE18LB4	198.8	20233	90000	-	-	1261	572

30 HP (22 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Reinforced Bearings		Weight	
			lbf-in	Nm			Standard Bearings	N	lbf	N	lb	kg
[kW]	RPM	SF					lb.f					
30 HP (22 kW)	360	2.6	5133	580	BG70-../DPE18XB4	4.95	1551	6900	-	-	606	275
30 HP (22 kW)	305	2.6	6019	680	BG70-../DPE18XB4	5.87	1843	8200	-	-	606	275
30 HP (22 kW)	250	2.6	7435	840	BG70-../DPE18XB4	7.14	1978	8800	-	-	606	275
30 HP (22 kW)	210	2.3	8851	1000	BG70-../DPE18XB4	8.48	2136	9500	-	-	606	275
30 HP (22 kW)	177	1.95	10444	1180	BG70-../DPE18XB4	10.09	2293	10200	-	-	606	275
30 HP (22 kW)	156	3.1	11860	1340	BG80-../DPE18XB4	11.43	2608	11600	-	-	725	329
30 HP (22 kW)	149	1.65	12480	1410	BG70-../DPE18XB4	11.97	2518	11200	-	-	606	275
30 HP (22 kW)	141	2.8	13188	1490	BG80-../DPE18XB4	12.69	2788	12400	-	-	725	329
30 HP (22 kW)	137	1.5	13542	1530	BG70-../DPE18XB4	13.08	2608	11600	-	-	606	275
30 HP (22 kW)	115	1.25	16108	1820	BG70-../DPE18XB4	15.53	2855	12700	-	-	606	275
30 HP (22 kW)	114	2.3	16285	1840	BG80-../DPE18XB4	15.62	3080	13700	-	-	725	329
30 HP (22 kW)	103	2.1	17701	2000	BG80-../DPE18XB4	17.35	3282	14600	-	-	725	329
30 HP (22 kW)	101	1.1	18144	2050	BG70-../DPE18XB4	17.68	3012	13400	-	-	606	275
30 HP (22 kW)	90	1.85	20357	2300	BG80-../DPE18XB4	19.89	3485	15500	-	-	725	329
30 HP (22 kW)	85	0.94	21684	2450	BG70-../DPE18XB4	20.98	3282	14600	-	-	606	275
30 HP (22 kW)	81	1.65	22569	2550	BG80-../DPE18XB4	22.09	3709	16500	-	-	725	329

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

30 HP (22 kW)

P _N							Permissible Overhung Load					
			Output Torque				Standard Bearings		Reinforced Bearings		Weight	
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
30 HP (22 kW)	79	3.2	23454	2650	BG90-../DPE18XB4	22.62	14613	65000	-	-	926	420
30 HP (22 kW)	78	0.87	23454	2650	BG70-../DPE18XB4	22.92	3395	15100	-	-	606	275
30 HP (22 kW)	72	2.9	25667	2900	BG90-../DPE18XB4	24.78	14613	65000	-	-	926	420
30 HP (22 kW)	68	1.4	26995	3050	BG80-../DPE18XB4	26.44	4024	17900	-	-	725	329
30 HP (22 kW)	61	1.25	30093	3400	BG80-../DPE18XB4	29.36	4249	18900	-	-	725	329
30 HP (22 kW)	60	2.4	30978	3500	BG90-../DPE18XB4	29.78	14613	65000	-	-	926	420
30 HP (22 kW)	55	2.2	33633	3800	BG90-../DPE18XB4	32.62	14613	65000	-	-	926	420
30 HP (22 kW)	53	1.05	34960	3950	BG80-../DPE18XB4	34.22	4541	20200	-	-	725	329
30 HP (22 kW)	53	3.3	34960	3950	BG100-../DPE18XB4	33.71	19896	88500	-	-	1301	590
30 HP (22 kW)	47.5	3.0	38943	4400	BG100-../DPE18XB4	37.54	20233	90000	-	-	1301	590
30 HP (22 kW)	47	0.94	39386	4450	BG80-../DPE18XB4	38.00	4788	21300	-	-	725	329
30 HP (22 kW)	47	1.9	39386	4450	BG90-../DPE18XB4	38.21	14613	65000	-	-	926	420
30 HP (22 kW)	43	1.75	42926	4850	BG90-../DPE18XB4	41.85	14613	65000	-	-	926	420
30 HP (22 kW)	41	0.82	45139	5100	BG80-../DPE18XB4	43.94	5081	22600	-	-	725	329
30 HP (22 kW)	38.5	2.6	47794	5400	BG100-../DPE18XB4	46.43	20233	90000	-	-	1301	590
30 HP (22 kW)	36.5	1.45	50449	5700	BG90-../DPE18XB4	48.82	14613	65000	-	-	926	420
30 HP (22 kW)	34.5	2.4	53104	6000	BG100-../DPE18XB4	51.70	20233	90000	-	-	1301	590
30 HP (22 kW)	33.5	1.35	54875	6200	BG90-../DPE18XB4	53.46	14613	65000	-	-	926	420
30 HP (22 kW)	31.5	1.05	58415	6600	BG90Z-../DPE18XB4	57.04	14613	65000	-	-	1045	474
30 HP (22 kW)	28.5	1.05	64610	7300	BG90Z-../DPE18XB4	62.47	14613	65000	-	-	1045	474
30 HP (22 kW)	28.5	2.1	64610	7300	BG100-../DPE18XB4	63.49	20233	90000	-	-	1301	590
30 HP (22 kW)	25.5	1.95	72576	8200	BG100-../DPE18XB4	70.69	20233	90000	-	-	1301	590
30 HP (22 kW)	23.5	0.94	78772	8900	BG90Z-../DPE18XB4	76.61	14613	65000	-	-	1045	474
30 HP (22 kW)	22.5	1.8	82312	9300	BG100-../DPE18XB4	80.85	20233	90000	-	-	1301	590
30 HP (22 kW)	21.5	0.87	85852	9700	BG90Z-../DPE18XB4	83.91	14613	65000	-	-	1045	474
30 HP (22 kW)	20	1.6	92933	10500	BG100-../DPE18XB4	90.02	20233	90000	-	-	1301	590
30 HP (22 kW)	17	1.35	108864	12300	BG100-../DPE18XB4	107.5	20233	90000	-	-	1301	590
30 HP (22 kW)	15	1.2	123910	14000	BG100-../DPE18XB4	119.7	20233	90000	-	-	1301	590
30 HP (22 kW)	13	1.05	142497	16100	BG100-../DPE18XB4	139.1	20233	90000	-	-	1301	590
30 HP (22 kW)	11.5	0.92	161084	18200	BG100-../DPE18XB4	154.8	20233	90000	-	-	1301	590
30 HP (22 kW)	10	0.8	185866	21000	BG100-../DPE18XB4	178.6	20233	90000	-	-	1301	590

40 HP (30 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
40 HP (30 kW)	365	1.9	6904	780	BG70-../DPE20XA4	4.95	1551	6900	-	-	948	430
40 HP (30 kW)	305	1.9	8231	930	BG70-../DPE20XA4	5.87	1843	8200	-	-	948	430
40 HP (30 kW)	305	2.8	8231	930	BG80-../DPE20XA4	5.94	1866	8300	-	-	1063	482
40 HP (30 kW)	275	2.8	9205	1040	BG80-../DPE20XA4	6.60	2046	9100	-	-	1063	482
40 HP (30 kW)	250	1.9	10090	1140	BG70-../DPE20XA4	7.14	1978	8800	-	-	948	430
40 HP (30 kW)	220	2.9	11506	1300	BG80-../DPE20XA4	8.30	2338	10400	-	-	1063	482
40 HP (30 kW)	215	1.7	11771	1330	BG70-../DPE20XA4	8.48	2136	9500	-	-	948	430
40 HP (30 kW)	194	2.7	13011	1470	BG80-../DPE20XA4	9.21	2428	10800	-	-	1063	482
40 HP (30 kW)	177	1.45	14250	1610	BG70-../DPE20XA4	10.09	2293	10200	-	-	948	430
40 HP (30 kW)	157	2.3	16108	1820	BG80-../DPE20XA4	11.43	2608	11600	-	-	1063	482
40 HP (30 kW)	150	1.2	16905	1910	BG70-../DPE20XA4	11.97	2518	11200	-	-	948	430
40 HP (30 kW)	141	2.1	17701	2000	BG80-../DPE20XA4	12.69	2788	12400	-	-	1063	482
40 HP (30 kW)	137	1.1	18144	2050	BG70-../DPE20XA4	13.08	2608	11600	-	-	948	430
40 HP (30 kW)	115	0.94	21684	2450	BG70-../DPE20XA4	15.53	2855	12700	-	-	948	430
40 HP (30 kW)	115	1.7	21684	2450	BG80-../DPE20XA4	15.62	3080	13700	-	-	1063	482
40 HP (30 kW)	103	1.55	24340	2750	BG80-../DPE20XA4	17.35	3282	14600	-	-	1063	482

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BG-series helical-geared motors

Selection helical-geared motors

40 HP (30 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
40 HP (30 kW)	101	0.82	24782	2800	BG70-../DPE20XA4	17.68	3012	13400	-	-	-	-	948	430
40 HP (30 kW)	100	2.9	25225	2850	BG90-../DPE20XA4	17.96	13444	59800	-	-	-	-	1265	574
40 HP (30 kW)	91	2.7	27437	3100	BG90-../DPE20XA4	19.67	14028	62400	-	-	-	-	1265	574
40 HP (30 kW)	90	1.35	27880	3150	BG80-../DPE20XA4	19.89	3485	15500	-	-	-	-	1063	482
40 HP (30 kW)	81	1.2	30978	3500	BG80-../DPE20XA4	22.09	3709	16500	-	-	-	-	1063	482
40 HP (30 kW)	79	2.3	31863	3600	BG90-../DPE20XA4	22.62	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	75	3.0	33633	3800	BG100-../DPE20XA4	23.95	19761	87900	-	-	-	-	1638	743
40 HP (30 kW)	73	2.2	34518	3900	BG90-../DPE20XA4	24.78	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	68	1.0	37173	4200	BG80-../DPE20XA4	26.44	4024	17900	-	-	-	-	1063	482
40 HP (30 kW)	61	0.9	41156	4650	BG80-../DPE20XA4	29.36	4249	18900	-	-	-	-	1063	482
40 HP (30 kW)	60	1.75	42041	4750	BG90-../DPE20XA4	29.78	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	55	1.6	46024	5200	BG90-../DPE20XA4	32.62	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	53	2.4	47794	5400	BG100-../DPE20XA4	33.71	19896	88500	-	-	-	-	1638	743
40 HP (30 kW)	48	2.2	52219	5900	BG100-../DPE20XA4	37.54	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	47	1.4	53104	6000	BG90-../DPE20XA4	38.21	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	43	1.25	58415	6600	BG90-../DPE20XA4	41.85	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	38.5	1.9	65496	7400	BG100-../DPE20XA4	46.43	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	37	1.1	68151	7700	BG90-../DPE20XA4	48.82	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	35	1.8	71691	8100	BG100-../DPE20XA4	51.70	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	33.5	0.99	75231	8500	BG90-../DPE20XA4	53.46	14613	65000	-	-	-	-	1265	574
40 HP (30 kW)	28.5	1.55	88507	10000	BG100-../DPE20XA4	63.49	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	25.5	1.4	99128	11200	BG100-../DPE20XA4	70.69	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	22.5	1.3	112404	12700	BG100-../DPE20XA4	80.85	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	20	1.15	126566	14300	BG100-../DPE20XA4	90.02	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	17	1.0	148693	16800	BG100-../DPE20XA4	107.5	20233	90000	-	-	-	-	1638	743
40 HP (30 kW)	15	0.88	169049	19100	BG100-../DPE20XA4	119.7	20233	90000	-	-	-	-	1638	743

50 HP (37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load		Standard Bearings		Reinforced Bearings		Weight	
			lbf-in	Nm			lb.f	N	lb.f	N	lb.f	N	lb	kg
[kW]	RPM	SF												
50 HP (37 kW)	360	1.55	8674	980	BG70-../DPE22MA4	4.95	1551	6900	-	-	-	-	1071	486
50 HP (37 kW)	305	1.55	10178	1150	BG70-../DPE22MA4	5.87	1843	8200	-	-	-	-	1071	486
50 HP (37 kW)	300	2.3	10355	1170	BG80-../DPE22MA4	5.94	1866	8300	-	-	-	-	1186	538
50 HP (37 kW)	270	2.3	11506	1300	BG80-../DPE22MA4	6.60	2046	9100	-	-	-	-	1186	538
50 HP (37 kW)	250	1.55	12480	1410	BG70-../DPE22MA4	7.14	1978	8800	-	-	-	-	1071	486
50 HP (37 kW)	215	2.3	14515	1640	BG80-../DPE22MA4	8.30	2338	10400	-	-	-	-	1186	538
50 HP (37 kW)	210	1.35	14869	1680	BG70-../DPE22MA4	8.48	2136	9500	-	-	-	-	1071	486
50 HP (37 kW)	194	2.2	16108	1820	BG80-../DPE22MA4	9.21	2428	10800	-	-	-	-	1186	538
50 HP (37 kW)	177	1.15	17613	1990	BG70-../DPE22MA4	10.09	2293	10200	-	-	-	-	1071	486
50 HP (37 kW)	164	3.3	19029	2150	BG90-../DPE22MA4	10.90	11758	52300	-	-	-	-	1389	630
50 HP (37 kW)	156	1.85	19914	2250	BG80-../DPE22MA4	11.43	2608	11600	-	-	-	-	1186	538
50 HP (37 kW)	143	3.0	21684	2450	BG100-../DPE22MA4	12.45	16209	72100	-	-	-	-	1761	799
50 HP (37 kW)	141	1.7	22127	2500	BG80-../DPE22MA4	12.69	2788	12400	-	-	-	-	1186	538
50 HP (37 kW)	134	2.9	23012	2600	BG90-../DPE22MA4	13.37	12364	55000	-	-	-	-	1389	630
50 HP (37 kW)	122	2.7	25225	2850	BG90-../DPE22MA4	14.64	12814	57000	-	-	-	-	1389	630
50 HP (37 kW)	114	1.4	26995	3050	BG80-../DPE22MA4	15.62	3080	13700	-	-	-	-	1186	538
50 HP (37 kW)	103	1.25	30093	3400	BG80-../DPE22MA4	17.35	3282	14600	-	-	-	-	1186	538
50 HP (37 kW)	103	3.0	30093	3400	BG100-../DPE22MA4	17.39	18524	82400	-	-	-	-	1761	799
50 HP (37 kW)	100	2.4	30978	3500	BG90-../DPE22MA4	17.96	13444	59800	-	-	-	-	1389	630
50 HP (37 kW)	91	2.2	34075	3850	BG90-../DPE22MA4	19.67	14028	62400	-	-	-	-	1389	630
50 HP (37 kW)	90	1.1	34518	3900	BG80-../DPE22MA4	19.89	3485	15500	-	-	-	-	1186	538

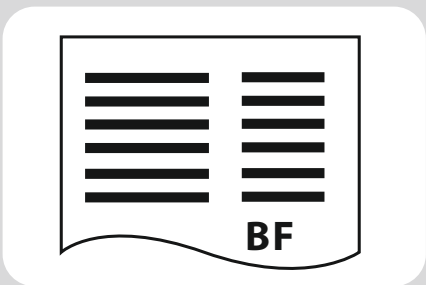
The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

50 HP (37 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
50 HP (37 kW)	79	1.9	39386	4450	BG90-../DPE22MA4	22.62	14613	65000	-	-	1389	630
50 HP (37 kW)	75	2.4	41599	4700	BG100-../DPE22MA4	23.95	19761	87900	-	-	1761	799
50 HP (37 kW)	72	1.7	43369	4900	BG90-../DPE22MA4	24.78	14613	65000	-	-	1389	630
50 HP (37 kW)	60	1.45	51334	5800	BG90-../DPE22MA4	29.78	14613	65000	-	-	1389	630
50 HP (37 kW)	55	1.3	56645	6400	BG90-../DPE22MA4	32.62	14613	65000	-	-	1389	630
50 HP (37 kW)	53	1.95	58415	6600	BG100-../DPE22MA4	33.71	19896	88500	-	-	1761	799
50 HP (37 kW)	47.5	1.8	65496	7400	BG100-../DPE22MA4	37.54	20233	90000	-	-	1761	799
50 HP (37 kW)	47	1.1	66381	7500	BG90-../DPE22MA4	38.21	14613	65000	-	-	1389	630
50 HP (37 kW)	43	1.0	72576	8200	BG90-../DPE22MA4	41.85	14613	65000	-	-	1389	630
50 HP (37 kW)	38.5	1.55	80542	9100	BG100-../DPE22MA4	46.43	20233	90000	-	-	1761	799
50 HP (37 kW)	34.5	1.4	90278	10200	BG100-../DPE22MA4	51.70	20233	90000	-	-	1761	799
50 HP (37 kW)	28.5	1.25	108864	12300	BG100-../DPE22MA4	63.49	20233	90000	-	-	1761	799
50 HP (37 kW)	25.5	1.15	122140	13800	BG100-../DPE22MA4	70.69	20233	90000	-	-	1761	799
50 HP (37 kW)	22.5	1.05	138957	15700	BG100-../DPE22MA4	80.85	20233	90000	-	-	1761	799

Energy Efficient Geared Motors

AC Line Operated / North America



7

BF-series shaft-mounted geared motors - Selection

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Energy Efficient Geared Motors

AC Line Operated / North America

7

Sizes

Bauer BF-series shaft-mounted geared motors are normally supplied in ten frame sizes and with torques of 90 to 18,500 Nm. Higher torques are available on request. The gear unit is accommodated in a sturdy cast housing

Bauer service factors (f_B) for shaft-mounted geared motors

Of the numerous factors influencing the total loading of a gear unit, the most important include:

- Mean torque (rated torque)
- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)

These factors can be represented in a simplified and practical manner by **service factors**. The tables and explanations below attempt to provide an objective description of the **shock classification**, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_s/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information.

Continuous operation without switching frequency $Z \leq 1/h$

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d	>4 h	>8 h	>16 h
		≤ 8 h	≤ 16 h	≤ 24 h
I		0.8	1.0	1.2
II		1.05	1.25	1.45
III		1.45	1.55	1.7

Switching duty

Factor f_2 for shock classification and switching frequency

Switching frequency in single- shift operation $t_d \leq 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	0.95	1.1	1.15
II	1.2	1.35	1.4
III	1.55	1.6	1.6

Switching frequency in multiple- shift operation $t_d > 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1.3	1.45	1.5
II	1.5	1.6	1.65
III	1.75	1.8	1.8

Bauer service factor

Bauer Service factor $f_B = f_1$ or $f_B = f_2$

For example: Shock classification II for $Z = 100$ switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.5$

BF-series shaft-mounted geared motors

Description of shaft-mounted gear units

Explanation of shock classification

Shock classification I:

Uniform without shock loads. All the following requirements must be satisfied:

- $FI \leq 1.3$
- $M_x/M_N \leq 1.0$
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, $\varphi N \geq 5^\circ$)

Shock classification II:

Moderate shock loads. At least one of the following conditions applies:

- $1.3 < FI \leq 4$
- $1 < M_x/M_N \leq 1.6$
- Shock-neutral power transmission components (e.g. gear wheels, zero-play rigid coupling or resilient coupling with $\varphi N < 5^\circ$)

Shock classification III:

Heavy shock loads. At least one of the following conditions applies:

- $FI > 4$
- $1.6 < M_x/M_N \leq 2.0$
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

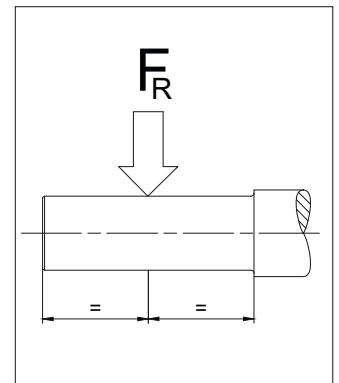
Key to abbreviations

Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia $FI = (J_{ext} + J_{rot})/J_{rot}$
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm^2)
J_{rot}	Mass moment of inertia of the motor rotor (kgm^2)
M_x	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
φ_N	Torsional offset of the resilient coupling under rated torque

Selection tables, shaft-mounted geared motors

Key to abbreviations

P	Rated output
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer service factor
F_{RN}	Maximum permissible radial force with normal bearings
F_{RV}	Maximum permissible radial force with reinforced bearings in each case with standard solid shaft (Code -.1 und -.2)



Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear unit and output shaft (see chapter 11 „dimensional drawings shaft-mounted gear motors“).

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

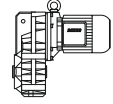
Motor power overload protection

Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., sliding clutch, sliding hub, shear pin or an alternative).

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.075 HP (0.055 kW)



P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.075 HP (0.055 kW)	11	5.1	420	47.5	BF10Z-../D04LA4	151.2	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	9.8	4.5	469	53	BF10Z-../D04LA4	166.2	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	9.0	4.1	513	58	BF10Z-../D04LA4	180.1	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	8.2	3.8	566	64	BF10Z-../D04LA4	198.0	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	7.6	3.5	611	69	BF10Z-../D04LA4	214.5	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	6.9	3.2	673	76	BF10Z-../D04LA4	235.8	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	6.3	2.9	735	83	BF10Z-../D04LA4	257.4	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	5.8	2.7	797	90	BF10Z-../D04LA4	283.1	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	5.0	2.3	929	105	BF10Z-../D04LA4	324.3	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	4.6	2.1	1009	114	BF10Z-../D04LA4	356.6	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	4.3	1.95	1080	122	BF10Z-../D04LA4	380.2	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	3.9	1.8	1186	134	BF10Z-../D04LA4	418.0	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	3.9	3.1	1186	134	BF20Z-../D04LA4	418.1	1776	7900	-	-	62	28
0.075 HP (0.055 kW)	3.6	2.9	1283	145	BF20Z-../D04LA4	460.0	1776	7900	-	-	62	28
0.075 HP (0.055 kW)	3.5	1.6	1328	150	BF10Z-../D04LA4	469.5	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	3.1	1.4	1496	169	BF10Z-../D04LA4	539.1	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	2.8	1.3	1655	187	BF10Z-../D04LA4	592.8	1439	6400	-	-	46	21
0.075 HP (0.055 kW)	2.6	1.85	1230	139	BF10G06-../D04LA4	643.8	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	2.3	2.7	1496	169	BF20G06-../D04LA4	736.1	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	2.2	1.5	1558	176	BF10G06-../D04LA4	768.2	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	2.0	1.35	1717	194	BF10G06-../D04LA4	845.1	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	2.0	2.3	1744	197	BF20G06-../D04LA4	810.0	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	2.0	3.2	1735	196	BF30G06-../D04LA4	817.1	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	1.8	2.1	1947	220	BF20G06-../D04LA4	952.7	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	1.7	1.1	2080	235	BF10G06-../D04LA4	994.0	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	1.7	2.7	2080	235	BF30G06-../D04LA4	961.1	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	1.5	1.7	2390	270	BF20G06-../D04LA4	1140	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	1.5	2.3	2390	270	BF30G06-../D04LA4	1150	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	1.4	0.88	2611	295	BF10G06-../D04LA4	1190	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	1.3	1.95	2832	320	BF30G06-../D04LA4	1286	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	1.2	1.0	2301*	260*	BF10G06-../D04LA4	1452	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	1.2	1.3	3098	350	BF20G06-../D04LA4	1392	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	1.2	1.8	3098	350	BF30G06-../D04LA4	1404	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	1.1	1.2	3452	390	BF20G06-../D04LA4	1533	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	1.0	1.45	3806	430	BF30G06-../D04LA4	1686	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.95	1.0	2301*	260*	BF10G06-../D04LA4	1744	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.95	1.0	4071*	460*	BF20G06-../D04LA4	1764	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.8	1.0	2301*	260*	BF10G06-../D04LA4	2096	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.8	1.15	4956	560	BF30G06-../D04LA4	2026	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.75	1.0	4071*	460*	BF20G06-../D04LA4	2192	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.7	1.0	2301*	260*	BF10G06-../D04LA4	2467	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.7	1.0	5576*	630*	BF30G06-../D04LA4	2386	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.65	1.0	4071*	460*	BF20G06-../D04LA4	2579	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.6	1.0	4071*	460*	BF20G06-../D04LA4	2829	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.6	1.0	5576*	630*	BF30G06-../D04LA4	2854	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.55	1.0	2301*	260*	BF10G06-../D04LA4	3220	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.55	1.0	4071*	460*	BF20G06-../D04LA4	3086	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.47	1.0	5576*	630*	BF30G06-../D04LA4	3493	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.43	1.0	4071*	460*	BF20G06-../D04LA4	3778	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.43	1.0	5576*	630*	BF30G06-../D04LA4	3811	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.42	1.0	2301*	260*	BF10G06-../D04LA4	3942	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.37	1.0	4071*	460*	BF20G06-../D04LA4	4379	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.37	1.0	5576*	630*	BF30G06-../D04LA4	4417	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.36	1.0	2301*	260*	BF10G06-../D04LA4	4569	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.33	1.0	5576*	630*	BF30G06-../D04LA4	5060	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.3	1.0	4071*	460*	BF20G06-../D04LA4	5471	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.29	1.0	2301*	260*	BF10G06-../D04LA4	5709	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.26	1.0	5576*	630*	BF30G06-../D04LA4	6333	1664	7400	-	-	90	41

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.075 HP (0.055 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.075 HP (0.055 kW)	0.25	1.0	2301*	260*	BF10G06-../D04LA4	6550	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.24	1.0	4071*	460*	BF20G06-../D04LA4	6847	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.23	1.0	2301*	260*	BF10G06-../D04LA4	7144	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.23	1.0	5576*	630*	BF30G06-../D04LA4	7206	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.21	1.0	5576*	630*	BF30G06-../D04LA4	7861	1664	7400	-	-	90	41
0.075 HP (0.055 kW)	0.2	1.0	4071*	460*	BF20G06-../D04LA4	8320	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.19	1.0	2301*	260*	BF10G06-../D04LA4	8681	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.18	1.0	2301*	260*	BF10G06-../D04LA4	9471	1439	6400	-	-	55	25
0.075 HP (0.055 kW)	0.18	1.0	4071*	460*	BF20G06-../D04LA4	9077	1776	7900	-	-	68	31
0.075 HP (0.055 kW)	0.18	1.0	5576*	630*	BF30G06-../D04LA4	9157	1664	7400	-	-	90	41

0.1 HP (0.075 kW)

P _N			Output Torque				Permissible Overhung Load					Weight	
							Standard Bearings		Reinforced Bearings				
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg	
0.1 HP (0.075 kW)	29	9.8	217	24.5	BF10-../D06LA4	56.39	1023	4550	-	-	51	23	
0.1 HP (0.075 kW)	26.5	8.9	239	27	BF10-../D06LA4	61.55	1057	4700	-	-	51	23	
0.1 HP (0.075 kW)	24	8.1	261	29.5	BF10-../D06LA4	67.69	1102	4900	-	-	51	23	
0.1 HP (0.075 kW)	21	7.1	301	34	BF10-../D06LA4	77.55	1147	5100	-	-	51	23	
0.1 HP (0.075 kW)	19	6.4	332	37.5	BF10-../D06LA4	85.27	1191	5300	-	-	51	23	
0.1 HP (0.075 kW)	18	6.1	350	39.5	BF10-../D06LA4	90.91	1214	5400	-	-	51	23	
0.1 HP (0.075 kW)	16.5	5.6	381	43	BF10-../D06LA4	99.97	1259	5600	-	-	51	23	
0.1 HP (0.075 kW)	14.5	4.9	434	49	BF10-../D06LA4	112.3	1326	5900	-	-	51	23	
0.1 HP (0.075 kW)	13	4.4	487	55	BF10-../D06LA4	128.9	1394	6200	-	-	51	23	
0.1 HP (0.075 kW)	11.5	3.9	549	62	BF10-../D06LA4	141.8	1439	6400	-	-	51	23	
0.1 HP (0.075 kW)	9.8	3.3	646	73	BF10Z-../D06LA4	166.2	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	9.0	3.0	699	79	BF10Z-../D06LA4	180.1	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	8.2	2.8	770	87	BF10Z-../D06LA4	198.0	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	7.6	2.6	832	94	BF10Z-../D06LA4	214.5	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	6.9	2.3	912	103	BF10Z-../D06LA4	235.8	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	6.3	2.1	1000	113	BF10Z-../D06LA4	257.4	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	5.8	1.95	1089	123	BF10Z-../D06LA4	283.1	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	5.5	3.2	1151	130	BF20Z-../D06LA4	295.5	1776	7900	-	-	68	31	
0.1 HP (0.075 kW)	5.0	1.7	1266	143	BF10Z-../D06LA4	324.3	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	5.0	2.9	1266	143	BF20Z-../D06LA4	325.2	1776	7900	-	-	68	31	
0.1 HP (0.075 kW)	4.8	2.8	1319	149	BF20Z-../D06LA4	339.1	1776	7900	-	-	68	31	
0.1 HP (0.075 kW)	4.6	1.55	1372	155	BF10Z-../D06LA4	356.6	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	4.4	2.6	1434	162	BF20Z-../D06LA4	373.1	1776	7900	-	-	68	31	
0.1 HP (0.075 kW)	4.3	1.45	1469	166	BF10Z-../D06LA4	380.2	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	4.0	3.2	1584	179	BF30Z-../D06LA4	412.6	1664	7400	-	-	93	42	
0.1 HP (0.075 kW)	3.9	1.3	1620	183	BF10Z-../D06LA4	418.0	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	3.9	2.3	1620	183	BF20Z-../D06LA4	418.1	1776	7900	-	-	68	31	
0.1 HP (0.075 kW)	3.6	2.1	1752	198	BF20Z-../D06LA4	460.0	1776	7900	-	-	68	31	
0.1 HP (0.075 kW)	3.5	1.2	1770	200	BF10Z-../D06LA4	469.5	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	3.5	2.9	1770	200	BF30Z-../D06LA4	463.3	1664	7400	-	-	93	42	
0.1 HP (0.075 kW)	3.2	2.7	1496	169	BF20G06-../D06LA4	513.7	1776	7900	-	-	75	34	
0.1 HP (0.075 kW)	3.1	1.05	2036	230	BF10Z-../D06LA4	539.1	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	3.1	2.5	2036	230	BF30Z-../D06LA4	537.0	1664	7400	-	-	93	42	
0.1 HP (0.075 kW)	2.8	0.94	2257	255	BF10Z-../D06LA4	592.8	1439	6400	-	-	53	24	
0.1 HP (0.075 kW)	2.8	2.3	2257	255	BF30Z-../D06LA4	590.7	1664	7400	-	-	93	42	
0.1 HP (0.075 kW)	2.7	2.2	1814	205	BF20G06-../D06LA4	617.0	1776	7900	-	-	75	34	
0.1 HP (0.075 kW)	2.7	3.2	1770	200	BF30G06-../D06LA4	622.4	1664	7400	-	-	99	45	

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.1 HP (0.075 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.1 HP (0.075 kW)	2.6	1.25	1859	210	BF10G06-../D06LA4	643.8	1439	6400	-	-	62	28
0.1 HP (0.075 kW)	2.3	1.85	2213	250	BF20G06-../D06LA4	736.1	1776	7900	-	-	75	34
0.1 HP (0.075 kW)	2.3	2.5	2213	250	BF30G06-../D06LA4	705.1	1664	7400	-	-	99	45
0.1 HP (0.075 kW)	2.2	1.0	2301	260	BF10G06-../D06LA4	768.2	1439	6400	-	-	62	28
0.1 HP (0.075 kW)	2.0	0.9	2567	290	BF10G06-../D06LA4	845.1	1439	6400	-	-	62	28
0.1 HP (0.075 kW)	2.0	1.6	2567	290	BF20G06-../D06LA4	810.0	1776	7900	-	-	75	34
0.1 HP (0.075 kW)	2.0	2.2	2567	290	BF30G06-../D06LA4	817.1	1664	7400	-	-	99	45
0.1 HP (0.075 kW)	1.8	1.4	2876	325	BF20G06-../D06LA4	952.7	1776	7900	-	-	75	34
0.1 HP (0.075 kW)	1.7	1.8	3098	350	BF30G06-../D06LA4	961.1	1664	7400	-	-	99	45
0.1 HP (0.075 kW)	1.5	1.15	3540	400	BF20G06-../D06LA4	1140	1776	7900	-	-	75	34
0.1 HP (0.075 kW)	1.5	1.6	3540	400	BF30G06-../D06LA4	1150	1664	7400	-	-	99	45
0.1 HP (0.075 kW)	1.3	1.35	4116	465	BF30G06-../D06LA4	1286	1664	7400	-	-	99	45
0.1 HP (0.075 kW)	1.3	3.2	2788	315	BF40G10-../D06LA4	1324	2383	10600	-	-	128	58
0.1 HP (0.075 kW)	1.2	0.9	4514	510	BF20G06-../D06LA4	1392	1776	7900	-	-	75	34
0.1 HP (0.075 kW)	1.2	1.25	4514	510	BF30G06-../D06LA4	1404	1664	7400	-	-	99	45
0.1 HP (0.075 kW)	1.1	0.82	4956	560	BF20G06-../D06LA4	1533	1776	7900	-	-	75	34
0.1 HP (0.075 kW)	1.1	2.6	3408	385	BF40G10-../D06LA4	1484	2383	10600	-	-	128	58
0.1 HP (0.075 kW)	1.0	1.0	5487	620	BF30G06-../D06LA4	1686	1664	7400	-	-	99	45
0.1 HP (0.075 kW)	1.0	3.2	3850	435	BF50G10-../D06LA4	1684	3057	13600	-	-	190	86
0.1 HP (0.075 kW)	0.9	2.0	4337	490	BF40G10-../D06LA4	1810	2383	10600	-	-	128	58
0.1 HP (0.075 kW)	0.85	1.9	4691	530	BF40G10-../D06LA4	1997	2383	10600	-	-	128	58
0.1 HP (0.075 kW)	0.8	2.4	5222	590	BF50G10-../D06LA4	2059	3057	13600	-	-	190	86
0.1 HP (0.075 kW)	0.7	1.95	6284	710	BF50G10-../D06LA4	2360	3057	13600	-	-	190	86
0.1 HP (0.075 kW)	0.65	1.3	6815	770	BF40G10-../D06LA4	2536	2383	10600	-	-	128	58
0.1 HP (0.075 kW)	0.6	1.15	7612	860	BF40G10-../D06LA4	2810	2383	10600	-	-	128	58
0.1 HP (0.075 kW)	0.6	1.6	7789	880	BF50G10-../D06LA4	2810	3057	13600	-	-	190	86
0.1 HP (0.075 kW)	0.55	3.1	7081	800	BF60G20-../D06LA4	3237	3440	15300	9734	43300	295	134
0.1 HP (0.075 kW)	0.49	1.2	10178	1150	BF50G10-../D06LA4	3348	3057	13600	-	-	190	86
0.1 HP (0.075 kW)	0.42	2.1	10621	1200	BF60G20-../D06LA4	3883	3440	15300	9734	43300	295	134
0.1 HP (0.075 kW)	0.35	1.6	13630	1540	BF60G20-../D06LA4	4646	3440	15300	9734	43300	295	134
0.1 HP (0.075 kW)	0.32	3.3	15400	1740	BF70G20-../D06LA4	5124	3619	16100	10723	47700	467	212
0.1 HP (0.075 kW)	0.31	1.4	15931	1800	BF60G20-../D06LA4	5241	3440	15300	9734	43300	295	134
0.1 HP (0.075 kW)	0.29	2.9	17436	1970	BF70G20-../D06LA4	5691	3619	16100	10723	47700	467	212
0.1 HP (0.075 kW)	0.27	1.15	19029	2150	BF60G20-../D06LA4	6014	3440	15300	9734	43300	295	134
0.1 HP (0.075 kW)	0.25	1.05	20799	2350	BF60G20-../D06LA4	6679	3440	15300	9734	43300	295	134
0.1 HP (0.075 kW)	0.25	2.4	20799	2350	BF70G20-../D06LA4	6530	3619	16100	10723	47700	467	212
0.1 HP (0.075 kW)	0.23	2.2	23012	2600	BF70G20-../D06LA4	7248	3619	16100	10723	47700	467	212
0.1 HP (0.075 kW)	0.21	1.95	25667	2900	BF70G20-../D06LA4	8052	3619	16100	10723	47700	467	212

0.12 HP (0.09 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.12 HP (0.09 kW)	34.5	9.8	217	24.5	BF10-../D06LA4	47.35	955	4250	-	-	51	23
0.12 HP (0.09 kW)	32	9.1	235	26.5	BF10-../D06LA4	51.28	989	4400	-	-	51	23
0.12 HP (0.09 kW)	29	8.1	261	29.5	BF10-../D06LA4	56.39	1023	4550	-	-	51	23
0.12 HP (0.09 kW)	26.5	7.5	283	32	BF10-../D06LA4	61.55	1057	4700	-	-	51	23
0.12 HP (0.09 kW)	24	6.8	314	35.5	BF10-../D06LA4	67.69	1102	4900	-	-	51	23
0.12 HP (0.09 kW)	21	5.9	358	40.5	BF10-../D06LA4	77.55	1147	5100	-	-	51	23
0.12 HP (0.09 kW)	19	5.3	398	45	BF10-../D06LA4	85.27	1191	5300	-	-	51	23
0.12 HP (0.09 kW)	18	5.1	420	47.5	BF10-../D06LA4	90.91	1214	5400	-	-	51	23
0.12 HP (0.09 kW)	16.5	4.6	460	52	BF10-../D06LA4	99.97	1259	5600	-	-	51	23

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.12 HP (0.09 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.12 HP (0.09 kW)	14.5	4.1	522	59	BF10-../D06LA4	112.3	1326	5900	-	-	51	23
0.12 HP (0.09 kW)	13	3.6	584	66	BF10-../D06LA4	128.9	1394	6200	-	-	51	23
0.12 HP (0.09 kW)	11.5	3.2	655	74	BF10-../D06LA4	141.8	1439	6400	-	-	51	23
0.12 HP (0.09 kW)	11	3.1	690	78	BF10Z-../D06LA4	151.2	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	9.8	2.8	770	87	BF10Z-../D06LA4	166.2	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	9.0	2.5	841	95	BF10Z-../D06LA4	180.1	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	8.2	2.3	920	104	BF10Z-../D06LA4	198.0	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	7.6	2.1	1000	113	BF10Z-../D06LA4	214.5	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	6.9	1.95	1097	124	BF10Z-../D06LA4	235.8	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	6.3	1.75	1204	136	BF10Z-../D06LA4	257.4	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	6.3	3.1	1204	136	BF20Z-../D06LA4	259.6	1776	7900	-	-	68	31
0.12 HP (0.09 kW)	5.8	1.6	1310	148	BF10Z-../D06LA4	283.1	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	5.5	2.7	1381	156	BF20Z-../D06LA4	295.5	1776	7900	-	-	68	31
0.12 HP (0.09 kW)	5.0	1.4	1513	171	BF10Z-../D06LA4	324.3	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	5.0	2.5	1513	171	BF20Z-../D06LA4	325.2	1776	7900	-	-	68	31
0.12 HP (0.09 kW)	4.8	2.3	1584	179	BF20Z-../D06LA4	339.1	1776	7900	-	-	68	31
0.12 HP (0.09 kW)	4.8	3.2	1584	179	BF30Z-../D06LA4	341.8	1664	7400	-	-	93	42
0.12 HP (0.09 kW)	4.6	1.3	1646	186	BF10Z-../D06LA4	356.6	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	4.4	2.2	1726	195	BF20Z-../D06LA4	373.1	1776	7900	-	-	68	31
0.12 HP (0.09 kW)	4.4	2.9	1726	195	BF30Z-../D06LA4	375.1	1664	7400	-	-	93	42
0.12 HP (0.09 kW)	4.3	1.2	1761	199	BF10Z-../D06LA4	380.2	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	4.0	2.7	1859	210	BF30Z-../D06LA4	412.6	1664	7400	-	-	93	42
0.12 HP (0.09 kW)	3.9	1.1	1947	220	BF10Z-../D06LA4	418.0	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	3.9	1.9	1947	220	BF20Z-../D06LA4	418.1	1776	7900	-	-	68	31
0.12 HP (0.09 kW)	3.6	1.8	2080	235	BF20Z-../D06LA4	460.0	1776	7900	-	-	68	31
0.12 HP (0.09 kW)	3.5	0.98	2168	245	BF10Z-../D06LA4	469.5	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	3.5	2.3	2168	245	BF30Z-../D06LA4	463.3	1664	7400	-	-	93	42
0.12 HP (0.09 kW)	3.2	2.2	1859	210	BF20G06-../D06LA4	513.7	1776	7900	-	-	75	34
0.12 HP (0.09 kW)	3.1	0.87	2434	275	BF10Z-../D06LA4	539.1	1439	6400	-	-	53	24
0.12 HP (0.09 kW)	3.1	2.1	2434	275	BF30Z-../D06LA4	537.0	1664	7400	-	-	93	42
0.12 HP (0.09 kW)	2.9	3.1	2611	295	BF40Z-../D06LA4	566.1	2383	10600	-	-	117	53
0.12 HP (0.09 kW)	2.8	1.9	2699	305	BF30Z-../D06LA4	590.7	1664	7400	-	-	93	42
0.12 HP (0.09 kW)	2.7	1.8	2257	255	BF20G06-../D06LA4	617.0	1776	7900	-	-	75	34
0.12 HP (0.09 kW)	2.7	2.5	2257	255	BF30G06-../D06LA4	622.4	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	2.6	0.98	2345	265	BF10G06-../D06LA4	643.8	1439	6400	-	-	62	28
0.12 HP (0.09 kW)	2.3	1.5	2744	310	BF20G06-../D06LA4	736.1	1776	7900	-	-	75	34
0.12 HP (0.09 kW)	2.3	2.0	2788	315	BF30G06-../D06LA4	705.1	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	2.2	0.8	2876	325	BF10G06-../D06LA4	768.2	1439	6400	-	-	62	28
0.12 HP (0.09 kW)	2.0	1.3	3186	360	BF20G06-../D06LA4	810.0	1776	7900	-	-	75	34
0.12 HP (0.09 kW)	2.0	1.75	3186	360	BF30G06-../D06LA4	817.1	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	1.8	1.15	3585	405	BF20G06-../D06LA4	952.7	1776	7900	-	-	75	34
0.12 HP (0.09 kW)	1.7	1.45	3806	430	BF30G06-../D06LA4	961.1	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	1.5	0.93	4381	495	BF20G06-../D06LA4	1140	1776	7900	-	-	75	34
0.12 HP (0.09 kW)	1.5	1.25	4381	495	BF30G06-../D06LA4	1150	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	1.5	3.0	2921	330	BF40G10-../D06LA4	1106	2383	10600	-	-	128	58
0.12 HP (0.09 kW)	1.3	1.1	5045	570	BF30G06-../D06LA4	1286	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	1.3	2.4	3762	425	BF40G10-../D06LA4	1324	2383	10600	-	-	128	58
0.12 HP (0.09 kW)	1.2	1.0	5576	630	BF30G06-../D06LA4	1404	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	1.2	2.9	4204	475	BF50G10-../D06LA4	1359	3057	13600	-	-	190	86
0.12 HP (0.09 kW)	1.1	1.95	4514	510	BF40G10-../D06LA4	1484	2383	10600	-	-	128	58
0.12 HP (0.09 kW)	1.1	2.7	4514	510	BF50G10-../D06LA4	1520	3057	13600	-	-	190	86
0.12 HP (0.09 kW)	1.0	0.83	6727	760	BF30G06-../D06LA4	1686	1664	7400	-	-	99	45
0.12 HP (0.09 kW)	1.0	2.5	5045	570	BF50G10-../D06LA4	1684	3057	13600	-	-	190	86
0.12 HP (0.09 kW)	0.9	1.55	5753	650	BF40G10-../D06LA4	1810	2383	10600	-	-	128	58
0.12 HP (0.09 kW)	0.85	1.45	6107	690	BF40G10-../D06LA4	1997	2383	10600	-	-	128	58
0.12 HP (0.09 kW)	0.8	1.8	6815	770	BF50G10-../D06LA4	2059	3057	13600	-	-	190	86
0.12 HP (0.09 kW)	0.7	1.5	8143	920	BF50G10-../D06LA4	2360	3057	13600	-	-	190	86
0.12 HP (0.09 kW)	0.65	1.0	8762	990	BF40G10-../D06LA4	2536	2383	10600	-	-	128	58

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.12 HP (0.09 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.12 HP (0.09 kW)	0.6	1.25	9913	1120	BF50G10-../D06LA4	2810	3057	13600	-	-	190	86
0.12 HP (0.09 kW)	0.6	2.7	8231	930	BF60G20-../D06LA4	2781	3440	15300	9734	43300	295	134
0.12 HP (0.09 kW)	0.55	2.4	9382	1060	BF60G20-../D06LA4	3237	3440	15300	9734	43300	295	134
0.12 HP (0.09 kW)	0.42	1.6	13630	1540	BF60G20-../D06LA4	3883	3440	15300	9734	43300	295	134
0.12 HP (0.09 kW)	0.36	3.0	16728	1890	BF70G20-../D06LA4	4542	3619	16100	10723	47700	467	212
0.12 HP (0.09 kW)	0.35	1.3	17259	1950	BF60G20-../D06LA4	4646	3440	15300	9734	43300	295	134
0.12 HP (0.09 kW)	0.32	2.7	19029	2150	BF70G20-../D06LA4	5124	3619	16100	10723	47700	467	212
0.12 HP (0.09 kW)	0.31	1.1	19914	2250	BF60G20-../D06LA4	5241	3440	15300	9734	43300	295	134
0.12 HP (0.09 kW)	0.29	2.3	21684	2450	BF70G20-../D06LA4	5691	3619	16100	10723	47700	467	212
0.12 HP (0.09 kW)	0.25	1.95	25667	2900	BF70G20-../D06LA4	6530	3619	16100	10723	47700	467	212
0.12 HP (0.09 kW)	0.23	1.8	28322	3200	BF70G20-../D06LA4	7248	3619	16100	10723	47700	467	212
0.12 HP (0.09 kW)	0.21	1.6	31863	3600	BF70G20-../D06LA4	8052	3619	16100	10723	47700	467	212

0.15 HP (0.11 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.15 HP (0.11 kW)	45	10	204	23	BF10-../D06LA4	36.15	854	3800	-	-	51	23
0.15 HP (0.11 kW)	41	9.4	226	25.5	BF10-../D06LA4	39.75	888	3950	-	-	51	23
0.15 HP (0.11 kW)	38	8.7	243	27.5	BF10-../D06LA4	43.06	922	4100	-	-	51	23
0.15 HP (0.11 kW)	34.5	8.0	266	30	BF10-../D06LA4	47.35	955	4250	-	-	51	23
0.15 HP (0.11 kW)	32	7.4	288	32.5	BF10-../D06LA4	51.28	989	4400	-	-	51	23
0.15 HP (0.11 kW)	29	6.7	319	36	BF10-../D06LA4	56.39	1023	4550	-	-	51	23
0.15 HP (0.11 kW)	26.5	6.1	350	39.5	BF10-../D06LA4	61.55	1057	4700	-	-	51	23
0.15 HP (0.11 kW)	24	5.5	385	43.5	BF10-../D06LA4	67.69	1102	4900	-	-	51	23
0.15 HP (0.11 kW)	21	4.8	443	50	BF10-../D06LA4	77.55	1147	5100	-	-	51	23
0.15 HP (0.11 kW)	19	4.4	487	55	BF10-../D06LA4	85.27	1191	5300	-	-	51	23
0.15 HP (0.11 kW)	18	4.1	513	58	BF10-../D06LA4	90.91	1214	5400	-	-	51	23
0.15 HP (0.11 kW)	16.5	3.8	558	63	BF10-../D06LA4	99.97	1259	5600	-	-	51	23
0.15 HP (0.11 kW)	14.5	3.3	637	72	BF10-../D06LA4	112.3	1326	5900	-	-	51	23
0.15 HP (0.11 kW)	13	3.0	708	80	BF10-../D06LA4	128.9	1394	6200	-	-	51	23
0.15 HP (0.11 kW)	11.5	2.6	805	91	BF10-../D06LA4	141.8	1439	6400	-	-	51	23
0.15 HP (0.11 kW)	11	2.5	841	95	BF10Z-../D06LA4	151.2	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	9.8	2.2	947	107	BF10Z-../D06LA4	166.2	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	9.0	2.1	1027	116	BF10Z-../D06LA4	180.1	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	8.3	3.3	1115	126	BF20Z-../D06LA4	197.1	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	8.2	1.9	1133	128	BF10Z-../D06LA4	198.0	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	7.6	1.75	1221	138	BF10Z-../D06LA4	214.5	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	7.5	3.0	1239	140	BF20Z-../D06LA4	216.9	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	6.9	1.6	1345	152	BF10Z-../D06LA4	235.8	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	6.9	2.8	1345	152	BF20Z-../D06LA4	235.9	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	6.3	1.45	1469	166	BF10Z-../D06LA4	257.4	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	6.3	2.5	1469	166	BF20Z-../D06LA4	259.6	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	5.8	1.35	1602	181	BF10Z-../D06LA4	283.1	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	5.6	3.1	1655	187	BF30Z-../D06LA4	289.8	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	5.5	2.2	1690	191	BF20Z-../D06LA4	295.5	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	5.3	2.9	1752	198	BF30Z-../D06LA4	310.7	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	5.0	1.15	1859	210	BF10Z-../D06LA4	324.3	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	5.0	2.0	1859	210	BF20Z-../D06LA4	325.2	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	4.8	1.95	1903	215	BF20Z-../D06LA4	339.1	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	4.8	2.7	1903	215	BF30Z-../D06LA4	341.8	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	4.6	1.05	1991	225	BF10Z-../D06LA4	356.6	1439	6400	-	-	53	24

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.15 HP (0.11 kW)	4.4	1.8	2080	235	BF20Z-../D06LA4	373.1	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	4.4	2.4	2080	235	BF30Z-../D06LA4	375.1	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	4.3	1.0	2124	240	BF10Z-../D06LA4	380.2	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	4.0	2.2	2301	260	BF30Z-../D06LA4	412.6	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	3.9	0.91	2345	265	BF10Z-../D06LA4	418.0	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	3.9	1.6	2345	265	BF20Z-../D06LA4	418.1	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	3.6	1.45	2567	290	BF20Z-../D06LA4	460.0	1776	7900	-	-	68	31
0.15 HP (0.11 kW)	3.6	3.1	2567	290	BF40Z-../D06LA4	459.1	2383	10600	-	-	117	53
0.15 HP (0.11 kW)	3.5	0.8	2655	300	BF10Z-../D06LA4	469.5	1439	6400	-	-	53	24
0.15 HP (0.11 kW)	3.5	1.9	2655	300	BF30Z-../D06LA4	463.3	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	3.2	1.7	2390	270	BF20G06-../D06LA4	513.7	1776	7900	-	-	75	34
0.15 HP (0.11 kW)	3.2	2.8	2876	325	BF40Z-../D06LA4	514.6	2383	10600	-	-	117	53
0.15 HP (0.11 kW)	3.1	0.93	2478	280	BF10G06-../D06LA4	536.0	1439	6400	-	-	62	28
0.15 HP (0.11 kW)	3.1	1.7	2965	335	BF30Z-../D06LA4	537.0	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	2.9	2.5	3186	360	BF40Z-../D06LA4	566.1	2383	10600	-	-	117	53
0.15 HP (0.11 kW)	2.8	1.55	3319	375	BF30Z-../D06LA4	590.7	1664	7400	-	-	93	42
0.15 HP (0.11 kW)	2.7	1.4	2876	325	BF20G06-../D06LA4	617.0	1776	7900	-	-	75	34
0.15 HP (0.11 kW)	2.7	1.95	2876	325	BF30G06-../D06LA4	622.4	1664	7400	-	-	99	45
0.15 HP (0.11 kW)	2.3	1.15	3496	395	BF20G06-../D06LA4	736.1	1776	7900	-	-	75	34
0.15 HP (0.11 kW)	2.3	1.6	3496	395	BF30G06-../D06LA4	705.1	1664	7400	-	-	99	45
0.15 HP (0.11 kW)	2.0	1.0	4071	460	BF20G06-../D06LA4	810.0	1776	7900	-	-	75	34
0.15 HP (0.11 kW)	2.0	1.4	4027	455	BF30G06-../D06LA4	817.1	1664	7400	-	-	99	45
0.15 HP (0.11 kW)	1.8	0.9	4514	510	BF20G06-../D06LA4	952.7	1776	7900	-	-	75	34
0.15 HP (0.11 kW)	1.8	2.8	3186	360	BF40G10-../D06LA4	928.9	2383	10600	-	-	128	58
0.15 HP (0.11 kW)	1.7	1.15	4779	540	BF30G06-../D06LA4	961.1	1664	7400	-	-	99	45
0.15 HP (0.11 kW)	1.6	3.3	3806	430	BF50G10-../D06LA4	1029	3057	13600	-	-	190	86
0.15 HP (0.11 kW)	1.5	1.0	5487	620	BF30G06-../D06LA4	1150	1664	7400	-	-	99	45
0.15 HP (0.11 kW)	1.5	2.2	4027	455	BF40G10-../D06LA4	1106	2383	10600	-	-	128	58
0.15 HP (0.11 kW)	1.4	2.6	4691	530	BF50G10-../D06LA4	1203	3057	13600	-	-	190	86
0.15 HP (0.11 kW)	1.3	0.88	6373	720	BF30G06-../D06LA4	1286	1664	7400	-	-	99	45
0.15 HP (0.11 kW)	1.3	1.75	5045	570	BF40G10-../D06LA4	1324	2383	10600	-	-	128	58
0.15 HP (0.11 kW)	1.2	0.8	6992	790	BF30G06-../D06LA4	1404	1664	7400	-	-	99	45
0.15 HP (0.11 kW)	1.2	2.2	5576	630	BF50G10-../D06LA4	1359	3057	13600	-	-	190	86
0.15 HP (0.11 kW)	1.1	1.45	6107	690	BF40G10-../D06LA4	1484	2383	10600	-	-	128	58
0.15 HP (0.11 kW)	1.1	2.1	6019	680	BF50G10-../D06LA4	1520	3057	13600	-	-	190	86
0.15 HP (0.11 kW)	1.0	1.8	6815	770	BF50G10-../D06LA4	1684	3057	13600	-	-	190	86
0.15 HP (0.11 kW)	0.9	1.15	7612	860	BF40G10-../D06LA4	1810	2383	10600	-	-	128	58
0.15 HP (0.11 kW)	0.85	1.1	8143	920	BF40G10-../D06LA4	1997	2383	10600	-	-	128	58
0.15 HP (0.11 kW)	0.85	3.2	6992	790	BF60G20-../D06LA4	1955	3440	15300	9734	43300	295	134
0.15 HP (0.11 kW)	0.8	1.4	8939	1010	BF50G10-../D06LA4	2059	3057	13600	-	-	190	86
0.15 HP (0.11 kW)	0.75	2.7	8320	940	BF60G20-../D06LA4	2172	3440	15300	9734	43300	295	134
0.15 HP (0.11 kW)	0.7	1.2	10532	1190	BF50G10-../D06LA4	2360	3057	13600	-	-	190	86
0.15 HP (0.11 kW)	0.6	2.0	10975	1240	BF60G20-../D06LA4	2781	3440	15300	9734	43300	295	134
0.15 HP (0.11 kW)	0.55	1.8	12391	1400	BF60G20-../D06LA4	3237	3440	15300	9734	43300	295	134
0.15 HP (0.11 kW)	0.42	1.25	17613	1990	BF60G20-../D06LA4	3883	3440	15300	9734	43300	295	134
0.15 HP (0.11 kW)	0.4	2.7	18587	2100	BF70G20-../D06LA4	4090	3619	16100	10723	47700	467	212
0.15 HP (0.11 kW)	0.36	2.4	21242	2400	BF70G20-../D06LA4	4542	3619	16100	10723	47700	467	212
0.15 HP (0.11 kW)	0.35	1.0	21684	2450	BF60G20-../D06LA4	4646	3440	15300	9734	43300	295	134
0.15 HP (0.11 kW)	0.32	2.1	24340	2750	BF70G20-../D06LA4	5124	3619	16100	10723	47700	467	212
0.15 HP (0.11 kW)	0.29	1.85	27437	3100	BF70G20-../D06LA4	5691	3619	16100	10723	47700	467	212
0.15 HP (0.11 kW)	0.25	1.55	32748	3700	BF70G20-../D06LA4	6530	3619	16100	10723	47700	467	212
0.15 HP (0.11 kW)	0.23	1.4	35846	4050	BF70G20-../D06LA4	7248	3619	16100	10723	47700	467	212
0.15 HP (0.11 kW)	0.21	1.25	39828	4500	BF70G20-../D06LA4	8052	3619	16100	10723	47700	467	212

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.25 HP (0.18 kW)	215	8.6	70	7.9	BF06-../D05LA4	7.66	405	1800	-	-	22	10
0.25 HP (0.18 kW)	176	7.2	86	9.7	BF06-../D05LA4	9.21	427	1900	-	-	22	10
0.25 HP (0.18 kW)	135	5.9	112	12.7	BF06-../D05LA4	12.07	450	2000	-	-	22	10
0.25 HP (0.18 kW)	115	5.7	132	14.9	BF06-../D05LA4	14.21	472	2100	-	-	22	10
0.25 HP (0.18 kW)	96	5.3	158	17.9	BF06-../D05LA4	16.99	562	2500	-	-	22	10
0.25 HP (0.18 kW)	80	4.5	186	21	BF06-../D05LA4	20.42	607	2700	-	-	22	10
0.25 HP (0.18 kW)	61	3.4	248	28	BF06-../D05LA4	26.76	674	3000	-	-	22	10
0.25 HP (0.18 kW)	52	2.9	292	33	BF06-../D05LA4	31.50	719	3200	-	-	22	10
0.25 HP (0.18 kW)	43	2.4	350	39.5	BF06-../D05LA4	37.69	787	3500	-	-	22	10
0.25 HP (0.18 kW)	35.5	2.0	425	48	BF06-../D05LA4	46.14	854	3800	-	-	22	10
0.25 HP (0.18 kW)	28	1.55	540	61	BF06-../D05LA4	58.33	899	4000	-	-	22	10
0.25 HP (0.18 kW)	24.5	1.35	620	70	BF06-../D05LA4	66.82	899	4000	-	-	22	10
0.25 HP (0.18 kW)	21	3.0	717	81	BF10-../D06LA4	77.55	1147	5100	-	-	51	23
0.25 HP (0.18 kW)	19.5	1.1	779	88	BF06-../D05LA4	83.61	899	4000	-	-	22	10
0.25 HP (0.18 kW)	19	2.7	797	90	BF10-../D06LA4	85.27	1191	5300	-	-	51	23
0.25 HP (0.18 kW)	18	2.5	841	95	BF10-../D06LA4	90.91	1214	5400	-	-	51	23
0.25 HP (0.18 kW)	17.5	0.97	867	98	BF06-../D05LA4	95.16	899	4000	-	-	22	10
0.25 HP (0.18 kW)	16.5	2.3	920	104	BF10-../D06LA4	99.97	1259	5600	-	-	51	23
0.25 HP (0.18 kW)	14.5	2.0	1044	118	BF10-../D06LA4	112.3	1326	5900	-	-	51	23
0.25 HP (0.18 kW)	13.5	3.3	1124	127	BF20-../D06LA4	123.5	1709	7600	-	-	66	30
0.25 HP (0.18 kW)	13	1.8	1168	132	BF10-../D06LA4	128.9	1394	6200	-	-	51	23
0.25 HP (0.18 kW)	12	2.9	1266	143	BF20-../D06LA4	135.9	1776	7900	-	-	66	30
0.25 HP (0.18 kW)	11.5	1.6	1319	149	BF10-../D06LA4	141.8	1439	6400	-	-	51	23
0.25 HP (0.18 kW)	11.5	2.8	1319	149	BF20Z-../D06LA4	141.2	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	11	1.55	1381	156	BF10Z-../D06LA4	151.2	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	10.5	2.6	1443	163	BF20Z-../D06LA4	155.4	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	9.9	2.4	1531	173	BF20Z-../D06LA4	164.3	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	9.8	1.35	1549	175	BF10Z-../D06LA4	166.2	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	9.8	3.3	1549	175	BF30Z-../D06LA4	165.8	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	9.2	3.1	1646	186	BF30Z-../D06LA4	176.6	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	9.0	1.25	1690	191	BF10Z-../D06LA4	180.1	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	9.0	2.2	1690	191	BF20Z-../D06LA4	180.8	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	8.4	2.9	1770	200	BF30Z-../D06LA4	194.3	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	8.3	2.0	1814	205	BF20Z-../D06LA4	197.1	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	8.2	1.15	1814	205	BF10Z-../D06LA4	198.0	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	7.6	1.05	1991	225	BF10Z-../D06LA4	214.5	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	7.5	1.85	1991	225	BF20Z-../D06LA4	216.9	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	7.3	2.4	2080	235	BF30Z-../D06LA4	224.8	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	6.9	0.98	2168	245	BF10Z-../D06LA4	235.8	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	6.9	1.7	2168	245	BF20Z-../D06LA4	235.9	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	6.6	2.2	2301	260	BF30Z-../D06LA4	247.3	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	6.3	0.89	2390	270	BF10Z-../D06LA4	257.4	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	6.3	1.55	2390	270	BF20Z-../D06LA4	259.6	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	6.2	2.1	2434	275	BF30Z-../D06LA4	263.5	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	5.9	3.1	2567	290	BF40Z-../D06LA4	278.5	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	5.8	0.81	2611	295	BF10Z-../D06LA4	283.1	1439	6400	-	-	53	24
0.25 HP (0.18 kW)	5.6	1.9	2699	305	BF30Z-../D06LA4	289.8	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	5.5	1.35	2744	310	BF20Z-../D06LA4	295.5	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	5.5	2.9	2744	310	BF40Z-../D06LA4	295.1	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	5.3	1.8	2832	320	BF30Z-../D06LA4	310.7	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	5.1	0.87	2655	300	BF10G06-../D06LA4	322.3	1439	6400	-	-	62	28
0.25 HP (0.18 kW)	5.0	1.25	3009	340	BF20Z-../D06LA4	325.2	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	5.0	2.6	3009	340	BF40Z-../D06LA4	324.7	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	4.8	1.2	3142	355	BF20Z-../D06LA4	339.1	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	4.8	1.6	3142	355	BF30Z-../D06LA4	341.8	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	4.7	2.5	3231	365	BF40Z-../D06LA4	346.8	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	4.4	1.1	3452	390	BF20Z-../D06LA4	373.1	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	4.4	1.45	3452	390	BF30Z-../D06LA4	375.1	1664	7400	-	-	93	42

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.25 HP (0.18 kW)	4.3	2.3	3496	395	BF40Z-../D06LA4	381.5	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	4.2	3.2	3585	405	BF50Z-../D06LA4	392.8	3057	13600	-	-	181	82
0.25 HP (0.18 kW)	4.0	1.35	3762	425	BF30Z-../D06LA4	412.6	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	3.9	0.95	3894	440	BF20Z-../D06LA4	418.1	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	3.9	2.0	3894	440	BF40Z-../D06LA4	417.3	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	3.7	2.8	4071	460	BF50Z-../D06LA4	439.3	3057	13600	-	-	181	82
0.25 HP (0.18 kW)	3.6	0.88	4204	475	BF20Z-../D06LA4	460.0	1776	7900	-	-	68	31
0.25 HP (0.18 kW)	3.6	1.9	4204	475	BF40Z-../D06LA4	459.1	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	3.5	1.15	4337	490	BF30Z-../D06LA4	463.3	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	3.3	2.5	4602	520	BF50Z-../D06LA4	496.4	3057	13600	-	-	181	82
0.25 HP (0.18 kW)	3.2	0.96	4248	480	BF20G06-../D06LA4	513.7	1776	7900	-	-	75	34
0.25 HP (0.18 kW)	3.2	1.7	4691	530	BF40Z-../D06LA4	514.6	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	3.1	1.05	4868	550	BF30Z-../D06LA4	537.0	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	3.0	2.3	5045	570	BF50Z-../D06LA4	555.2	3057	13600	-	-	181	82
0.25 HP (0.18 kW)	2.9	1.55	5222	590	BF40Z-../D06LA4	566.1	2383	10600	-	-	117	53
0.25 HP (0.18 kW)	2.8	0.94	5399	610	BF30Z-../D06LA4	590.7	1664	7400	-	-	93	42
0.25 HP (0.18 kW)	2.8	2.4	3762	425	BF40G10-../D06LA4	597.3	2383	10600	-	-	128	58
0.25 HP (0.18 kW)	2.7	0.81	5045	570	BF20G06-../D06LA4	617.0	1776	7900	-	-	75	34
0.25 HP (0.18 kW)	2.7	1.1	5045	570	BF30G06-../D06LA4	622.4	1664	7400	-	-	99	45
0.25 HP (0.18 kW)	2.4	2.7	4602	520	BF50G10-../D06LA4	680.9	3057	13600	-	-	190	86
0.25 HP (0.18 kW)	2.3	0.91	6107	690	BF30G06-../D06LA4	705.1	1664	7400	-	-	99	45
0.25 HP (0.18 kW)	2.3	1.85	4779	540	BF40G10-../D06LA4	731.6	2383	10600	-	-	128	58
0.25 HP (0.18 kW)	2.0	0.8	6992	790	BF30G06-../D06LA4	817.1	1664	7400	-	-	99	45
0.25 HP (0.18 kW)	1.9	2.0	6107	690	BF50G10-../D06LA4	864.5	3057	13600	-	-	190	86
0.25 HP (0.18 kW)	1.8	1.35	6461	730	BF40G10-../D06LA4	928.9	2383	10600	-	-	128	58
0.25 HP (0.18 kW)	1.6	1.65	7435	840	BF50G10-../D06LA4	1029	3057	13600	-	-	190	86
0.25 HP (0.18 kW)	1.5	1.1	7966	900	BF40G10-../D06LA4	1106	2383	10600	-	-	128	58
0.25 HP (0.18 kW)	1.4	1.4	8939	1010	BF50G10-../D06LA4	1203	3057	13600	-	-	190	86
0.25 HP (0.18 kW)	1.4	2.7	8143	920	BF60G20-../D06LA4	1211	3440	15300	9734	43300	295	134
0.25 HP (0.18 kW)	1.3	0.93	9559	1080	BF40G10-../D06LA4	1324	2383	10600	-	-	128	58
0.25 HP (0.18 kW)	1.2	1.2	10532	1190	BF50G10-../D06LA4	1359	3057	13600	-	-	190	86
0.25 HP (0.18 kW)	1.1	1.1	11417	1290	BF50G10-../D06LA4	1520	3057	13600	-	-	190	86
0.25 HP (0.18 kW)	1.1	2.1	10444	1180	BF60G20-../D06LA4	1494	3440	15300	9734	43300	295	134
0.25 HP (0.18 kW)	1.0	0.98	12657	1430	BF50G10-../D06LA4	1684	3057	13600	-	-	190	86
0.25 HP (0.18 kW)	1.0	1.95	11417	1290	BF60G20-../D06LA4	1658	3440	15300	9734	43300	295	134
0.25 HP (0.18 kW)	0.85	1.6	13896	1570	BF60G20-../D06LA4	1955	3440	15300	9734	43300	295	134
0.25 HP (0.18 kW)	0.75	1.35	16197	1830	BF60G20-../D06LA4	2172	3440	15300	9734	43300	295	134
0.25 HP (0.18 kW)	0.7	2.9	17436	1970	BF70G20-../D06LA4	2448	3619	16100	10723	47700	467	212
0.25 HP (0.18 kW)	0.6	1.05	20799	2350	BF60G20-../D06LA4	2781	3440	15300	9734	43300	295	134
0.25 HP (0.18 kW)	0.6	2.4	20799	2350	BF70G20-../D06LA4	2849	3619	16100	10723	47700	467	212
0.25 HP (0.18 kW)	0.48	1.85	26995	3050	BF70G20-../D06LA4	3417	3619	16100	10723	47700	467	212
0.25 HP (0.18 kW)	0.4	1.5	33633	3800	BF70G20-../D06LA4	4090	3619	16100	10723	47700	467	212
0.25 HP (0.18 kW)	0.36	1.35	37616	4250	BF70G20-../D06LA4	4542	3619	16100	10723	47700	467	212
0.25 HP (0.18 kW)	0.32	1.2	42926	4850	BF70G20-../D06LA4	5124	3619	16100	10723	47700	467	212
0.25 HP (0.18 kW)	0.29	1.05	47794	5400	BF70G20-../D06LA4	5691	3619	16100	10723	47700	467	212

0.33 HP (0.25 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.33 HP (0.25 kW)	215	6.1	98	11.1	BF06-../D05LA4	7.66	405	1800	-	-	22	10
0.33 HP (0.25 kW)	176	5.2	119	13.5	BF06-../D05LA4	9.21	427	1900	-	-	22	10

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.33 HP (0.25 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.33 HP (0.25 kW)	135	4.3	156	17.6	BF06-../D05LA4	12.07	450	2000	-	-	22	10
0.33 HP (0.25 kW)	115	4.1	181	20.5	BF06-../D05LA4	14.21	472	2100	-	-	22	10
0.33 HP (0.25 kW)	96	3.9	217	24.5	BF06-../D05LA4	16.99	562	2500	-	-	22	10
0.33 HP (0.25 kW)	80	3.2	261	29.5	BF06-../D05LA4	20.42	607	2700	-	-	22	10
0.33 HP (0.25 kW)	61	2.4	345	39	BF06-../D05LA4	26.76	674	3000	-	-	22	10
0.33 HP (0.25 kW)	52	2.1	403	45.5	BF06-../D05LA4	31.50	719	3200	-	-	22	10
0.33 HP (0.25 kW)	43	1.75	487	55	BF06-../D05LA4	37.69	787	3500	-	-	22	10
0.33 HP (0.25 kW)	35.5	1.4	593	67	BF06-../D05LA4	46.14	854	3800	-	-	22	10
0.33 HP (0.25 kW)	32	3.2	655	74	BF10-../D06LA4	51.28	989	4400	-	-	51	23
0.33 HP (0.25 kW)	29	2.9	726	82	BF10-../D06LA4	56.39	1023	4550	-	-	51	23
0.33 HP (0.25 kW)	28	1.1	752	85	BF06-../D05LA4	58.33	899	4000	-	-	22	10
0.33 HP (0.25 kW)	26.5	2.7	797	90	BF10-../D06LA4	61.55	1057	4700	-	-	51	23
0.33 HP (0.25 kW)	24.5	0.98	859	97	BF06-../D05LA4	66.82	899	4000	-	-	22	10
0.33 HP (0.25 kW)	24	2.4	876	99	BF10-../D06LA4	67.69	1102	4900	-	-	51	23
0.33 HP (0.25 kW)	21	2.1	1000	113	BF10-../D06LA4	77.55	1147	5100	-	-	51	23
0.33 HP (0.25 kW)	19	1.9	1106	125	BF10-../D06LA4	85.27	1191	5300	-	-	51	23
0.33 HP (0.25 kW)	18	1.8	1168	132	BF10-../D06LA4	90.91	1214	5400	-	-	51	23
0.33 HP (0.25 kW)	17	3.0	1239	140	BF20-../D06LA4	96.08	1551	6900	-	-	66	30
0.33 HP (0.25 kW)	16.5	1.65	1275	144	BF10-../D06LA4	99.97	1259	5600	-	-	51	23
0.33 HP (0.25 kW)	16.5	2.9	1275	144	BF20-../D06LA4	100.2	1574	7000	-	-	66	30
0.33 HP (0.25 kW)	15	2.6	1407	159	BF20-../D06LA4	110.2	1641	7300	-	-	66	30
0.33 HP (0.25 kW)	14.5	1.45	1452	164	BF10-../D06LA4	112.3	1326	5900	-	-	51	23
0.33 HP (0.25 kW)	13.5	2.4	1558	176	BF20-../D06LA4	123.5	1709	7600	-	-	66	30
0.33 HP (0.25 kW)	13	1.3	1620	183	BF10-../D06LA4	128.9	1394	6200	-	-	51	23
0.33 HP (0.25 kW)	13	3.1	1620	183	BF30-../D06LA4	124.7	1596	7100	-	-	88	40
0.33 HP (0.25 kW)	12	2.1	1752	198	BF20-../D06LA4	135.9	1776	7900	-	-	66	30
0.33 HP (0.25 kW)	12	2.9	1752	198	BF30-../D06LA4	137.1	1664	7400	-	-	88	40
0.33 HP (0.25 kW)	11.5	1.15	1814	205	BF10-../D06LA4	141.8	1439	6400	-	-	51	23
0.33 HP (0.25 kW)	11.5	2.0	1814	205	BF20Z-../D06LA4	141.2	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	11	1.1	1903	215	BF10Z-../D06LA4	151.2	1439	6400	-	-	53	24
0.33 HP (0.25 kW)	11	2.7	1903	215	BF30Z-../D06LA4	150.7	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	10.5	1.85	1991	225	BF20Z-../D06LA4	155.4	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	9.9	1.75	2124	240	BF20Z-../D06LA4	164.3	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	9.8	1.0	2124	240	BF10Z-../D06LA4	166.2	1439	6400	-	-	53	24
0.33 HP (0.25 kW)	9.8	2.4	2124	240	BF30Z-../D06LA4	165.8	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	9.2	2.3	2257	255	BF30Z-../D06LA4	176.6	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	9.0	0.91	2345	265	BF10Z-../D06LA4	180.1	1439	6400	-	-	53	24
0.33 HP (0.25 kW)	9.0	1.6	2345	265	BF20Z-../D06LA4	180.8	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	8.7	3.3	2390	270	BF40Z-../D06LA4	188.3	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	8.4	2.1	2478	280	BF30Z-../D06LA4	194.3	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	8.3	1.45	2522	285	BF20Z-../D06LA4	197.1	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	8.2	0.83	2567	290	BF10Z-../D06LA4	198.0	1439	6400	-	-	53	24
0.33 HP (0.25 kW)	8.1	3.1	2567	290	BF40Z-../D06LA4	202.2	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	7.5	1.35	2788	315	BF20Z-../D06LA4	216.9	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	7.3	1.75	2876	325	BF30Z-../D06LA4	224.8	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	7.3	2.8	2876	325	BF40Z-../D06LA4	222.4	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	6.9	1.2	3054	345	BF20Z-../D06LA4	235.9	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	6.6	1.6	3186	360	BF30Z-../D06LA4	247.3	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	6.4	2.4	3275	370	BF40Z-../D06LA4	253.2	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	6.3	1.1	3319	375	BF20Z-../D06LA4	259.6	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	6.2	1.5	3408	385	BF30Z-../D06LA4	263.5	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	5.9	2.3	3540	400	BF40Z-../D06LA4	278.5	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	5.9	3.3	3540	400	BF50Z-../D06LA4	276.8	3057	13600	-	-	181	82
0.33 HP (0.25 kW)	5.6	1.35	3762	425	BF30Z-../D06LA4	289.8	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	5.5	0.98	3806	430	BF20Z-../D06LA4	295.5	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	5.5	2.1	3806	430	BF40Z-../D06LA4	295.1	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	5.3	1.3	3983	450	BF30Z-../D06LA4	310.7	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	5.2	2.9	4027	455	BF50Z-../D06LA4	316.6	3057	13600	-	-	181	82

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.33 HP (0.25 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.33 HP (0.25 kW)	5.0	0.88	4204	475	BF20Z-../D06LA4	325.2	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	5.0	1.9	4204	475	BF40Z-../D06LA4	324.7	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	4.8	0.85	4381	495	BF20Z-../D06LA4	339.1	1776	7900	-	-	68	31
0.33 HP (0.25 kW)	4.8	1.15	4381	495	BF30Z-../D06LA4	341.8	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	4.7	1.8	4425	500	BF40Z-../D06LA4	346.8	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	4.6	2.5	4514	510	BF50Z-../D06LA4	354.0	3057	13600	-	-	181	82
0.33 HP (0.25 kW)	4.4	1.05	4779	540	BF30Z-../D06LA4	375.1	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	4.3	1.65	4868	550	BF40Z-../D06LA4	381.5	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	4.2	2.3	4956	560	BF50Z-../D06LA4	392.8	3057	13600	-	-	181	82
0.33 HP (0.25 kW)	4.0	0.97	5222	590	BF30Z-../D06LA4	412.6	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	3.9	1.5	5399	610	BF40Z-../D06LA4	417.3	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	3.7	2.0	5664	640	BF50Z-../D06LA4	439.3	3057	13600	-	-	181	82
0.33 HP (0.25 kW)	3.6	1.35	5841	660	BF40Z-../D06LA4	459.1	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	3.5	0.85	6019	680	BF30Z-../D06LA4	463.3	1664	7400	-	-	93	42
0.33 HP (0.25 kW)	3.3	1.8	6373	720	BF50Z-../D06LA4	496.4	3057	13600	-	-	181	82
0.33 HP (0.25 kW)	3.2	1.2	6550	740	BF40Z-../D06LA4	514.6	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	3.0	1.65	6992	790	BF50Z-../D06LA4	555.2	3057	13600	-	-	181	82
0.33 HP (0.25 kW)	2.9	1.1	7258	820	BF40Z-../D06LA4	566.1	2383	10600	-	-	117	53
0.33 HP (0.25 kW)	2.8	1.5	5841	660	BF40G10-../D06LA4	597.3	2383	10600	-	-	128	58
0.33 HP (0.25 kW)	2.4	1.75	7081	800	BF50G10-../D06LA4	680.9	3057	13600	-	-	190	86
0.33 HP (0.25 kW)	2.3	1.2	7346	830	BF40G10-../D06LA4	731.6	2383	10600	-	-	128	58
0.33 HP (0.25 kW)	2.0	2.8	7789	880	BF60G20-../D06LA4	813.2	3440	15300	9734	43300	295	134
0.33 HP (0.25 kW)	1.9	1.35	9293	1050	BF50G10-../D06LA4	864.5	3057	13600	-	-	190	86
0.33 HP (0.25 kW)	1.8	0.91	9736	1100	BF40G10-../D06LA4	928.9	2383	10600	-	-	128	58
0.33 HP (0.25 kW)	1.8	2.4	9293	1050	BF60G20-../D06LA4	937.6	3440	15300	9734	43300	295	134
0.33 HP (0.25 kW)	1.6	1.1	11152	1260	BF50G10-../D06LA4	1029	3057	13600	-	-	190	86
0.33 HP (0.25 kW)	1.4	0.94	13188	1490	BF50G10-../D06LA4	1203	3057	13600	-	-	190	86
0.33 HP (0.25 kW)	1.4	1.8	12303	1390	BF60G20-../D06LA4	1211	3440	15300	9734	43300	295	134
0.33 HP (0.25 kW)	1.2	0.8	15489	1750	BF50G10-../D06LA4	1359	3057	13600	-	-	190	86
0.33 HP (0.25 kW)	1.1	1.4	15843	1790	BF60G20-../D06LA4	1494	3440	15300	9734	43300	295	134
0.33 HP (0.25 kW)	1.0	1.3	17347	1960	BF60G20-../D06LA4	1658	3440	15300	9734	43300	295	134
0.33 HP (0.25 kW)	1.0	2.9	17436	1970	BF70G20-../D06LA4	1621	3619	16100	10723	47700	467	212
0.33 HP (0.25 kW)	0.85	1.05	20799	2350	BF60G20-../D06LA4	1955	3440	15300	9734	43300	295	134
0.33 HP (0.25 kW)	0.85	2.4	20799	2350	BF70G20-../D06LA4	1912	3619	16100	10723	47700	467	212
0.33 HP (0.25 kW)	0.7	1.95	25667	2900	BF70G20-../D06LA4	2448	3619	16100	10723	47700	467	212
0.33 HP (0.25 kW)	0.6	1.65	30535	3450	BF70G20-../D06LA4	2849	3619	16100	10723	47700	467	212
0.33 HP (0.25 kW)	0.48	1.3	39386	4450	BF70G20-../D06LA4	3417	3619	16100	10723	47700	467	212
0.33 HP (0.25 kW)	0.4	1.05	47794	5400	BF70G20-../D06LA4	4090	3619	16100	10723	47700	467	212

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.4 HP (0.3 kW)	215	5.1	118	13.3	BF06-../D05LA4	7.66	405	1800	-	-	22	10
0.4 HP (0.3 kW)	176	4.3	143	16.2	BF06-../D05LA4	9.21	427	1900	-	-	22	10
0.4 HP (0.3 kW)	135	3.6	186	21	BF06-../D05LA4	12.07	450	2000	-	-	22	10
0.4 HP (0.3 kW)	115	3.5	217	24.5	BF06-../D05LA4	14.21	472	2100	-	-	22	10
0.4 HP (0.3 kW)	96	3.2	261	29.5	BF06-../D05LA4	16.99	562	2500	-	-	22	10
0.4 HP (0.3 kW)	80	2.7	314	35.5	BF06-../D05LA4	20.42	607	2700	-	-	22	10
0.4 HP (0.3 kW)	61	2.0	412	46.5	BF06-../D05LA4	26.76	674	3000	-	-	22	10
0.4 HP (0.3 kW)	52	1.75	487	55	BF06-../D05LA4	31.50	719	3200	-	-	22	10
0.4 HP (0.3 kW)	43	1.45	584	66	BF06-../D05LA4	37.69	787	3500	-	-	22	10

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.4 HP (0.3 kW)	38	3.2	664	75	BF10-../D06LA4	43.06	922	4100	-	-	51	23
0.4 HP (0.3 kW)	35.5	1.2	708	80	BF06-../D05LA4	46.14	854	3800	-	-	22	10
0.4 HP (0.3 kW)	34.5	2.9	735	83	BF10-../D06LA4	47.35	955	4250	-	-	51	23
0.4 HP (0.3 kW)	32	2.7	788	89	BF10-../D06LA4	51.28	989	4400	-	-	51	23
0.4 HP (0.3 kW)	29	2.4	867	98	BF10-../D06LA4	56.39	1023	4550	-	-	51	23
0.4 HP (0.3 kW)	28	0.93	903	102	BF06-../D05LA4	58.33	899	4000	-	-	22	10
0.4 HP (0.3 kW)	26.5	2.2	956	108	BF10-../D06LA4	61.55	1057	4700	-	-	51	23
0.4 HP (0.3 kW)	24.5	0.82	1027	116	BF06-../D05LA4	66.82	899	4000	-	-	22	10
0.4 HP (0.3 kW)	24	2.0	1053	119	BF10-../D06LA4	67.69	1102	4900	-	-	51	23
0.4 HP (0.3 kW)	21.5	3.2	1177	133	BF20-../D06LA4	76.69	1416	6300	-	-	66	30
0.4 HP (0.3 kW)	21	1.75	1204	136	BF10-../D06LA4	77.55	1147	5100	-	-	51	23
0.4 HP (0.3 kW)	19	1.6	1328	150	BF10-../D06LA4	85.27	1191	5300	-	-	51	23
0.4 HP (0.3 kW)	19	2.8	1328	150	BF20-../D06LA4	87.31	1484	6600	-	-	66	30
0.4 HP (0.3 kW)	18	1.5	1407	159	BF10-../D06LA4	90.91	1214	5400	-	-	51	23
0.4 HP (0.3 kW)	17	2.5	1487	168	BF20-../D06LA4	96.08	1551	6900	-	-	66	30
0.4 HP (0.3 kW)	16.5	1.4	1531	173	BF20-../D06LA4	99.97	1259	5600	-	-	51	23
0.4 HP (0.3 kW)	16.5	2.4	1531	173	BF20-../D06LA4	100.2	1574	7000	-	-	66	30
0.4 HP (0.3 kW)	15.5	3.1	1629	184	BF30-../D06LA4	107.6	1506	6700	-	-	88	40
0.4 HP (0.3 kW)	15	2.2	1690	191	BF20-../D06LA4	110.2	1641	7300	-	-	66	30
0.4 HP (0.3 kW)	14.5	1.2	1744	197	BF10-../D06LA4	112.3	1326	5900	-	-	51	23
0.4 HP (0.3 kW)	14	2.9	1770	200	BF30-../D06LA4	118.3	1574	7000	-	-	88	40
0.4 HP (0.3 kW)	13.5	2.0	1859	210	BF20-../D06LA4	123.5	1709	7600	-	-	66	30
0.4 HP (0.3 kW)	13	1.1	1947	220	BF10-../D06LA4	128.9	1394	6200	-	-	51	23
0.4 HP (0.3 kW)	13	2.6	1947	220	BF30-../D06LA4	124.7	1596	7100	-	-	88	40
0.4 HP (0.3 kW)	12	1.8	2080	235	BF20-../D06LA4	135.9	1776	7900	-	-	66	30
0.4 HP (0.3 kW)	12	2.4	2080	235	BF30-../D06LA4	137.1	1664	7400	-	-	88	40
0.4 HP (0.3 kW)	11.5	0.98	2168	245	BF10-../D06LA4	141.8	1439	6400	-	-	51	23
0.4 HP (0.3 kW)	11.5	1.7	2168	245	BF20Z-../D06LA4	141.2	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	11	0.92	2301	260	BF10Z-../D06LA4	151.2	1439	6400	-	-	53	24
0.4 HP (0.3 kW)	11	2.2	2301	260	BF30Z-../D06LA4	150.7	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	10.5	1.55	2390	270	BF20Z-../D06LA4	155.4	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	10.5	3.3	2390	270	BF40Z-../D06LA4	155.6	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	9.9	1.45	2522	285	BF20Z-../D06LA4	164.3	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	9.8	0.83	2567	290	BF10Z-../D06LA4	166.2	1439	6400	-	-	53	24
0.4 HP (0.3 kW)	9.8	2.0	2567	290	BF30Z-../D06LA4	165.8	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	9.5	3.0	2655	300	BF40Z-../D06LA4	171.2	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	9.2	1.85	2744	310	BF30Z-../D06LA4	176.6	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	9.0	1.35	2788	315	BF20Z-../D06LA4	180.8	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	8.7	2.8	2876	325	BF40Z-../D06LA4	188.3	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	8.4	1.7	3009	340	BF30Z-../D06LA4	194.3	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	8.3	1.2	3054	345	BF20Z-../D06LA4	197.1	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	8.1	2.6	3098	350	BF40Z-../D06LA4	202.2	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	7.5	1.1	3363	380	BF20Z-../D06LA4	216.9	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	7.3	1.45	3452	390	BF30Z-../D06LA4	224.8	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	7.3	2.3	3452	390	BF40Z-../D06LA4	222.4	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	6.9	1.0	3673	415	BF20Z-../D06LA4	235.9	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	6.6	1.35	3806	430	BF30Z-../D06LA4	247.3	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	6.6	3.0	3806	430	BF50Z-../D06LA4	247.5	3057	13600	-	-	181	82
0.4 HP (0.3 kW)	6.4	2.0	3939	445	BF40Z-../D06LA4	253.2	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	6.3	0.93	3983	450	BF20Z-../D06LA4	259.6	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	6.2	1.25	4071	460	BF30Z-../D06LA4	263.5	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	5.9	1.85	4293	485	BF40Z-../D06LA4	278.5	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	5.9	2.7	4293	485	BF50Z-../D06LA4	276.8	3057	13600	-	-	181	82
0.4 HP (0.3 kW)	5.6	1.15	4514	510	BF30Z-../D06LA4	289.8	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	5.5	0.81	4602	520	BF20Z-../D06LA4	295.5	1776	7900	-	-	68	31
0.4 HP (0.3 kW)	5.5	1.75	4602	520	BF40Z-../D06LA4	295.1	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	5.3	1.05	4779	540	BF30Z-../D06LA4	310.7	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	5.2	2.4	4868	550	BF50Z-../D06LA4	316.6	3057	13600	-	-	181	82

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.4 HP (0.3 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.4 HP (0.3 kW)	5.0	1.6	5045	570	BF40Z-../D06LA4	324.7	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	4.8	0.97	5222	590	BF30Z-../D06LA4	341.8	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	4.7	1.5	5310	600	BF40Z-../D06LA4	346.8	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	4.6	2.1	5487	620	BF50Z-../D06LA4	354.0	3057	13600	-	-	181	82
0.4 HP (0.3 kW)	4.4	0.88	5753	650	BF30Z-../D06LA4	375.1	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	4.3	1.35	5841	660	BF40Z-../D06LA4	381.5	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	4.2	1.9	6019	680	BF50Z-../D06LA4	392.8	3057	13600	-	-	181	82
0.4 HP (0.3 kW)	4.0	0.81	6284	710	BF30Z-../D06LA4	412.6	1664	7400	-	-	93	42
0.4 HP (0.3 kW)	3.9	1.25	6461	730	BF40Z-../D06LA4	417.3	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	3.7	1.7	6815	770	BF50Z-../D06LA4	439.3	3057	13600	-	-	181	82
0.4 HP (0.3 kW)	3.6	1.15	6992	790	BF40Z-../D06LA4	459.1	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	3.3	1.5	7612	860	BF50Z-../D06LA4	496.4	3057	13600	-	-	181	82
0.4 HP (0.3 kW)	3.2	1.0	7877	890	BF40Z-../D06LA4	514.6	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	3.0	1.35	8408	950	BF50Z-../D06LA4	555.2	3057	13600	-	-	181	82
0.4 HP (0.3 kW)	2.9	0.92	8674	980	BF40Z-../D06LA4	566.1	2383	10600	-	-	117	53
0.4 HP (0.3 kW)	2.8	1.2	7346	830	BF40G10-../D06LA4	597.3	2383	10600	-	-	128	58
0.4 HP (0.3 kW)	2.4	1.4	8851	1000	BF50G10-../D06LA4	680.9	3057	13600	-	-	190	86
0.4 HP (0.3 kW)	2.4	2.8	7966	900	BF60G20-../D06LA4	689.0	3440	15300	9734	43300	295	134
0.4 HP (0.3 kW)	2.3	0.96	9205	1040	BF40G10-../D06LA4	731.6	2383	10600	-	-	128	58
0.4 HP (0.3 kW)	2.0	2.2	9913	1120	BF60G20-../D06LA4	813.2	3440	15300	9734	43300	295	134
0.4 HP (0.3 kW)	1.9	1.1	11506	1300	BF50G10-../D06LA4	864.5	3057	13600	-	-	190	86
0.4 HP (0.3 kW)	1.8	1.9	11594	1310	BF60G20-../D06LA4	937.6	3440	15300	9734	43300	295	134
0.4 HP (0.3 kW)	1.6	0.9	13807	1560	BF50G10-../D06LA4	1029	3057	13600	-	-	190	86
0.4 HP (0.3 kW)	1.4	1.45	15400	1740	BF60G20-../D06LA4	1211	3440	15300	9734	43300	295	134
0.4 HP (0.3 kW)	1.2	2.9	17701	2000	BF70G20-../D06LA4	1390	3619	16100	10723	47700	467	212
0.4 HP (0.3 kW)	1.1	1.15	19472	2200	BF60G20-../D06LA4	1494	3440	15300	9734	43300	295	134
0.4 HP (0.3 kW)	1.0	1.05	21242	2400	BF60G20-../D06LA4	1658	3440	15300	9734	43300	295	134
0.4 HP (0.3 kW)	1.0	2.3	21684	2450	BF70G20-../D06LA4	1621	3619	16100	10723	47700	467	212
0.4 HP (0.3 kW)	0.85	1.95	25667	2900	BF70G20-../D06LA4	1912	3619	16100	10723	47700	467	212
0.4 HP (0.3 kW)	0.7	1.6	31863	3600	BF70G20-../D06LA4	2448	3619	16100	10723	47700	467	212
0.4 HP (0.3 kW)	0.6	1.35	37616	4250	BF70G20-../D06LA4	2849	3619	16100	10723	47700	467	212
0.4 HP (0.3 kW)	0.48	1.05	47794	5400	BF70G20-../D06LA4	3417	3619	16100	10723	47700	467	212

0.5 HP (0.37 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.5 HP (0.37 kW)	215	4.1	145	16.4	BF06-../D07LA4	7.66	405	1800	-	-	26	12
0.5 HP (0.37 kW)	176	3.5	177	20	BF06-../D07LA4	9.21	427	1900	-	-	26	12
0.5 HP (0.37 kW)	135	2.9	230	26	BF06-../D07LA4	12.07	450	2000	-	-	26	12
0.5 HP (0.37 kW)	115	2.8	270	30.5	BF06-../D07LA4	14.21	472	2100	-	-	26	12
0.5 HP (0.37 kW)	96	2.6	323	36.5	BF06-../D07LA4	16.99	562	2500	-	-	26	12
0.5 HP (0.37 kW)	80	2.2	389	44	BF06-../D07LA4	20.42	607	2700	-	-	26	12
0.5 HP (0.37 kW)	61	1.65	504	57	BF06-../D07LA4	26.76	674	3000	-	-	26	12
0.5 HP (0.37 kW)	52	1.4	593	67	BF06-../D07LA4	31.50	719	3200	-	-	26	12
0.5 HP (0.37 kW)	45	3.1	690	78	BF10-../D07LA4	36.15	854	3800	-	-	51	23
0.5 HP (0.37 kW)	43	1.15	726	82	BF06-../D07LA4	37.69	787	3500	-	-	26	12
0.5 HP (0.37 kW)	41	2.8	761	86	BF10-../D07LA4	39.75	888	3950	-	-	51	23
0.5 HP (0.37 kW)	38	2.6	814	92	BF10-../D07LA4	43.06	922	4100	-	-	51	23
0.5 HP (0.37 kW)	35.5	0.96	876	99	BF06-../D07LA4	46.14	854	3800	-	-	26	12
0.5 HP (0.37 kW)	34.5	2.4	903	102	BF10-../D07LA4	47.35	955	4250	-	-	51	23
0.5 HP (0.37 kW)	32	2.2	974	110	BF10-../D07LA4	51.28	989	4400	-	-	51	23
0.5 HP (0.37 kW)	29	2.0	1071	121	BF10-../D07LA4	56.39	1023	4550	-	-	51	23

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.5 HP (0.37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.5 HP (0.37 kW)	28	3.3	1115	126	BF20-../D07LA4	58.24	1259	5600	-	-	66	30
0.5 HP (0.37 kW)	26.5	1.8	1177	133	BF10-../D07LA4	61.55	1057	4700	-	-	51	23
0.5 HP (0.37 kW)	25.5	3.0	1221	138	BF20-../D07LA4	64.08	1326	5900	-	-	66	30
0.5 HP (0.37 kW)	24	1.65	1301	147	BF10-../D07LA4	67.69	1102	4900	-	-	51	23
0.5 HP (0.37 kW)	23.5	2.8	1328	150	BF20-../D07LA4	69.70	1371	6100	-	-	66	30
0.5 HP (0.37 kW)	21.5	2.6	1452	164	BF20-../D07LA4	76.69	1416	6300	-	-	66	30
0.5 HP (0.37 kW)	21	1.45	1487	168	BF10-../D07LA4	77.55	1147	5100	-	-	51	23
0.5 HP (0.37 kW)	20.5	3.3	1522	172	BF30-../D07LA4	79.34	1326	5900	-	-	88	40
0.5 HP (0.37 kW)	19	1.3	1637	185	BF10-../D07LA4	85.27	1191	5300	-	-	51	23
0.5 HP (0.37 kW)	19	2.3	1637	185	BF20-../D07LA4	87.31	1484	6600	-	-	66	30
0.5 HP (0.37 kW)	19	3.1	1637	185	BF30-../D07LA4	87.08	1394	6200	-	-	88	40
0.5 HP (0.37 kW)	18	1.2	1735	196	BF10-../D07LA4	90.91	1214	5400	-	-	51	23
0.5 HP (0.37 kW)	17	2.0	1814	205	BF20-../D07LA4	96.08	1551	6900	-	-	66	30
0.5 HP (0.37 kW)	17	2.8	1814	205	BF30-../D07LA4	95.79	1439	6400	-	-	88	40
0.5 HP (0.37 kW)	16.5	1.15	1859	210	BF10-../D07LA4	99.97	1259	5600	-	-	51	23
0.5 HP (0.37 kW)	16.5	2.0	1859	210	BF20-../D07LA4	100.2	1574	7000	-	-	66	30
0.5 HP (0.37 kW)	15.5	2.6	1991	225	BF30-../D07LA4	107.6	1506	6700	-	-	88	40
0.5 HP (0.37 kW)	15	1.8	2080	235	BF20-../D07LA4	110.2	1641	7300	-	-	66	30
0.5 HP (0.37 kW)	14.5	1.0	2124	240	BF10-../D07LA4	112.3	1326	5900	-	-	51	23
0.5 HP (0.37 kW)	14	2.3	2213	250	BF30-../D07LA4	118.3	1574	7000	-	-	88	40
0.5 HP (0.37 kW)	13.5	1.6	2301	260	BF20-../D07LA4	123.5	1709	7600	-	-	66	30
0.5 HP (0.37 kW)	13	0.89	2390	270	BF10-../D07LA4	128.9	1394	6200	-	-	51	23
0.5 HP (0.37 kW)	13	2.1	2390	270	BF30-../D07LA4	124.7	1596	7100	-	-	88	40
0.5 HP (0.37 kW)	12	1.45	2567	290	BF20-../D07LA4	135.9	1776	7900	-	-	66	30
0.5 HP (0.37 kW)	12	2.0	2567	290	BF30-../D07LA4	137.1	1664	7400	-	-	88	40
0.5 HP (0.37 kW)	11.5	1.4	2699	305	BF20Z-../D07LA4	141.2	1776	7900	-	-	68	31
0.5 HP (0.37 kW)	11.5	3.0	2699	305	BF40Z-../D07LA4	141.4	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	11	1.8	2832	320	BF30Z-../D07LA4	150.7	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	10.5	1.25	2965	335	BF20Z-../D07LA4	155.4	1776	7900	-	-	68	31
0.5 HP (0.37 kW)	10.5	2.7	2965	335	BF40Z-../D07LA4	155.6	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	9.9	1.2	3142	355	BF20Z-../D07LA4	164.3	1776	7900	-	-	68	31
0.5 HP (0.37 kW)	9.8	1.6	3186	360	BF30Z-../D07LA4	165.8	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	9.5	2.4	3275	370	BF40Z-../D07LA4	171.2	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	9.2	1.5	3363	380	BF30Z-../D07LA4	176.6	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	9.0	1.1	3452	390	BF20Z-../D07LA4	180.8	1776	7900	-	-	68	31
0.5 HP (0.37 kW)	8.9	3.3	3496	395	BF50Z-../D07LA4	183.5	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	8.7	2.2	3585	405	BF40Z-../D07LA4	188.3	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	8.4	1.35	3717	420	BF30Z-../D07LA4	194.3	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	8.3	0.99	3762	425	BF20Z-../D07LA4	197.1	1776	7900	-	-	68	31
0.5 HP (0.37 kW)	8.1	2.1	3850	435	BF40Z-../D07LA4	202.2	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	7.9	2.9	3939	445	BF50Z-../D07LA4	205.2	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	7.5	0.89	4160	470	BF20Z-../D07LA4	216.9	1776	7900	-	-	68	31
0.5 HP (0.37 kW)	7.3	1.2	4248	480	BF30Z-../D07LA4	224.8	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	7.3	1.9	4248	480	BF40Z-../D07LA4	222.4	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	6.9	0.82	4514	510	BF20Z-../D07LA4	235.9	1776	7900	-	-	68	31
0.5 HP (0.37 kW)	6.6	1.1	4691	530	BF30Z-../D07LA4	247.3	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	6.6	2.5	4691	530	BF50Z-../D07LA4	247.5	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	6.4	1.65	4868	550	BF40Z-../D07LA4	253.2	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	6.2	1.05	4956	560	BF30Z-../D07LA4	263.5	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	5.9	1.55	5222	590	BF40Z-../D07LA4	278.5	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	5.9	2.2	5222	590	BF50Z-../D07LA4	276.8	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	5.6	0.91	5576	630	BF30Z-../D07LA4	289.8	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	5.5	1.4	5664	640	BF40Z-../D07LA4	295.1	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	5.3	0.87	5841	660	BF30Z-../D07LA4	310.7	1664	7400	-	-	93	42
0.5 HP (0.37 kW)	5.2	1.95	5930	670	BF50Z-../D07LA4	316.6	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	5.0	1.3	6196	700	BF40Z-../D07LA4	324.7	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	4.7	1.2	6638	750	BF40Z-../D07LA4	346.8	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	4.6	1.7	6727	760	BF50Z-../D07LA4	354.0	3057	13600	-	-	181	82

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.5 HP (0.37 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.5 HP (0.37 kW)	4.3	1.1	7258	820	BF40Z-../D07LA4	381.5	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	4.2	1.55	7435	840	BF50Z-../D07LA4	392.8	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	3.9	1.0	7966	900	BF40Z-../D07LA4	417.3	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	3.7	1.35	8408	950	BF50Z-../D07LA4	439.3	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	3.6	0.92	8674	980	BF40Z-../D07LA4	459.1	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	3.3	1.2	9470	1070	BF50Z-../D07LA4	496.4	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	3.2	0.82	9736	1100	BF40Z-../D07LA4	514.6	2383	10600	-	-	117	53
0.5 HP (0.37 kW)	3.0	1.1	10355	1170	BF50Z-../D07LA4	555.2	3057	13600	-	-	181	82
0.5 HP (0.37 kW)	2.9	2.6	8585	970	BF60G20-../D07LA4	569.3	3440	15300	9734	43300	295	134
0.5 HP (0.37 kW)	2.8	0.93	9470	1070	BF40G10-../D07LA4	597.3	2383	10600	-	-	128	58
0.5 HP (0.37 kW)	2.4	1.1	11329	1280	BF50G10-../D07LA4	680.9	3057	13600	-	-	190	86
0.5 HP (0.37 kW)	2.4	2.1	10444	1180	BF60G20-../D07LA4	689.0	3440	15300	9734	43300	295	134
0.5 HP (0.37 kW)	2.0	1.7	12922	1460	BF60G20-../D07LA4	813.2	3440	15300	9734	43300	295	134
0.5 HP (0.37 kW)	1.9	0.85	14604	1650	BF50G10-../D07LA4	864.5	3057	13600	-	-	190	86
0.5 HP (0.37 kW)	1.8	1.5	14869	1680	BF60G20-../D07LA4	937.6	3440	15300	9734	43300	295	134
0.5 HP (0.37 kW)	1.6	3.0	16816	1900	BF70G20-../D07LA4	1017	3619	16100	10723	47700	467	212
0.5 HP (0.37 kW)	1.4	1.15	19472	2200	BF60G20-../D07LA4	1211	3440	15300	9734	43300	295	134
0.5 HP (0.37 kW)	1.2	2.2	22569	2550	BF70G20-../D07LA4	1390	3619	16100	10723	47700	467	212
0.5 HP (0.37 kW)	1.1	0.89	24782	2800	BF60G20-../D07LA4	1494	3440	15300	9734	43300	295	134
0.5 HP (0.37 kW)	1.0	0.81	27437	3100	BF60G20-../D07LA4	1658	3440	15300	9734	43300	295	134
0.5 HP (0.37 kW)	1.0	1.85	27437	3100	BF70G20-../D07LA4	1621	3619	16100	10723	47700	467	212
0.5 HP (0.37 kW)	0.85	1.55	32748	3700	BF70G20-../D07LA4	1912	3619	16100	10723	47700	467	212
0.5 HP (0.37 kW)	0.7	1.25	40271	4550	BF70G20-../D07LA4	2448	3619	16100	10723	47700	467	212
0.5 HP (0.37 kW)	0.6	1.1	46909	5300	BF70G20-../D07LA4	2849	3619	16100	10723	47700	467	212

0.75 HP (0.55 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.75 HP (0.55 kW)	295	3.5	158	17.8	BF06-../D08MA4	5.72	360	1600	-	-	35	16
0.75 HP (0.55 kW)	220	2.9	208	23.5	BF06-../D08MA4	7.66	405	1800	-	-	35	16
0.75 HP (0.55 kW)	183	2.5	252	28.5	BF06-../D08MA4	9.21	427	1900	-	-	35	16
0.75 HP (0.55 kW)	140	2.0	332	37.5	BF06-../D08MA4	12.07	450	2000	-	-	35	16
0.75 HP (0.55 kW)	119	1.95	389	44	BF06-../D08MA4	14.21	472	2100	-	-	35	16
0.75 HP (0.55 kW)	99	1.8	469	53	BF06-../D08MA4	16.99	562	2500	-	-	35	16
0.75 HP (0.55 kW)	83	1.5	558	63	BF06-../D08MA4	20.42	607	2700	-	-	35	16
0.75 HP (0.55 kW)	66	3.0	699	79	BF10-../D08MA4	25.60	753	3350	-	-	60	27
0.75 HP (0.55 kW)	63	1.15	735	83	BF06-../D08MA4	26.76	674	3000	-	-	35	16
0.75 HP (0.55 kW)	60	2.8	770	87	BF10-../D08MA4	28.47	776	3450	-	-	60	27
0.75 HP (0.55 kW)	54	0.98	859	97	BF06-../D08MA4	31.50	719	3200	-	-	35	16
0.75 HP (0.55 kW)	54	2.5	859	97	BF10-../D08MA4	31.31	809	3600	-	-	60	27
0.75 HP (0.55 kW)	46.5	2.1	991	112	BF10-../D08MA4	36.15	854	3800	-	-	60	27
0.75 HP (0.55 kW)	45	0.82	1027	116	BF06-../D08MA4	37.69	787	3500	-	-	35	16
0.75 HP (0.55 kW)	42.5	1.95	1089	123	BF10-../D08MA4	39.75	888	3950	-	-	60	27
0.75 HP (0.55 kW)	40.5	3.3	1142	129	BF20-../D08MA4	41.72	1113	4950	-	-	73	33
0.75 HP (0.55 kW)	39.5	1.8	1168	132	BF10-../D08MA4	43.06	922	4100	-	-	60	27
0.75 HP (0.55 kW)	37	3.0	1248	141	BF20-../D08MA4	45.90	1147	5100	-	-	73	33
0.75 HP (0.55 kW)	35.5	1.65	1301	147	BF10-../D08MA4	47.35	955	4250	-	-	60	27
0.75 HP (0.55 kW)	35	2.8	1328	150	BF20-../D08MA4	48.56	1169	5200	-	-	73	33
0.75 HP (0.55 kW)	33	1.5	1407	159	BF10-../D08MA4	51.28	989	4400	-	-	60	27
0.75 HP (0.55 kW)	31.5	2.5	1469	166	BF20-../D08MA4	53.43	1236	5500	-	-	73	33
0.75 HP (0.55 kW)	30	1.35	1549	175	BF10-../D08MA4	56.39	1023	4550	-	-	60	27

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.75 HP (0.55 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.75 HP (0.55 kW)	29.5	3.2	1575	178	BF30-../D08MA4	57.41	1169	5200	-	-	95	43
0.75 HP (0.55 kW)	29	2.3	1602	181	BF20-../D08MA4	58.24	1259	5600	-	-	73	33
0.75 HP (0.55 kW)	27.5	1.25	1690	191	BF10-../D08MA4	61.55	1057	4700	-	-	60	27
0.75 HP (0.55 kW)	27.5	3.0	1690	191	BF30-../D08MA4	61.17	1191	5300	-	-	95	43
0.75 HP (0.55 kW)	26.5	2.1	1752	198	BF20-../D08MA4	64.08	1326	5900	-	-	73	33
0.75 HP (0.55 kW)	25	1.15	1859	210	BF10-../D08MA4	67.69	1102	4900	-	-	60	27
0.75 HP (0.55 kW)	25	2.7	1859	210	BF30-../D08MA4	67.28	1236	5500	-	-	95	43
0.75 HP (0.55 kW)	24.5	2.0	1859	210	BF20-../D08MA4	69.70	1371	6100	-	-	73	33
0.75 HP (0.55 kW)	23.5	2.6	1947	220	BF30-../D08MA4	72.13	1281	5700	-	-	95	43
0.75 HP (0.55 kW)	22	1.0	2080	235	BF10-../D08MA4	77.55	1147	5100	-	-	60	27
0.75 HP (0.55 kW)	22	1.8	2080	235	BF20-../D08MA4	76.69	1416	6300	-	-	73	33
0.75 HP (0.55 kW)	21.5	2.4	2124	240	BF30-../D08MA4	79.34	1326	5900	-	-	95	43
0.75 HP (0.55 kW)	20	0.92	2301	260	BF10-../D08MA4	85.27	1191	5300	-	-	60	27
0.75 HP (0.55 kW)	19.5	1.6	2345	265	BF20-../D08MA4	87.31	1484	6600	-	-	73	33
0.75 HP (0.55 kW)	19.5	2.2	2345	265	BF30-../D08MA4	87.08	1394	6200	-	-	95	43
0.75 HP (0.55 kW)	18.5	0.86	2478	280	BF10-../D08MA4	90.91	1214	5400	-	-	60	27
0.75 HP (0.55 kW)	18.5	3.2	2478	280	BF40-../D08MA4	92.31	2046	9100	-	-	117	53
0.75 HP (0.55 kW)	18	2.0	2567	290	BF30-../D08MA4	95.79	1439	6400	-	-	95	43
0.75 HP (0.55 kW)	17	1.4	2699	305	BF20-../D08MA4	100.2	1574	7000	-	-	73	33
0.75 HP (0.55 kW)	17	3.0	2699	305	BF40-../D08MA4	101.0	2113	9400	-	-	117	53
0.75 HP (0.55 kW)	16	1.75	2876	325	BF30-../D08MA4	107.6	1506	6700	-	-	95	43
0.75 HP (0.55 kW)	15.5	1.25	2965	335	BF20-../D08MA4	110.2	1641	7300	-	-	73	33
0.75 HP (0.55 kW)	15.5	2.7	2965	335	BF40-../D08MA4	111.1	2203	9800	-	-	117	53
0.75 HP (0.55 kW)	14.5	1.6	3186	360	BF30-../D08MA4	118.3	1574	7000	-	-	95	43
0.75 HP (0.55 kW)	14	1.1	3319	375	BF20-../D08MA4	123.5	1709	7600	-	-	73	33
0.75 HP (0.55 kW)	13.5	1.5	3408	385	BF30-../D08MA4	124.7	1596	7100	-	-	95	43
0.75 HP (0.55 kW)	13.5	2.3	3408	385	BF40-../D08MA4	124.5	2293	10200	-	-	117	53
0.75 HP (0.55 kW)	12.5	1.0	3717	420	BF20-../D08MA4	135.9	1776	7900	-	-	73	33
0.75 HP (0.55 kW)	12.5	1.35	3717	420	BF30-../D08MA4	137.1	1664	7400	-	-	95	43
0.75 HP (0.55 kW)	12.5	2.1	3717	420	BF40-../D08MA4	137.0	2383	10600	-	-	117	53
0.75 HP (0.55 kW)	12.5	3.1	3717	420	BF50Z-../D08MA4	138.1	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	12	0.97	3850	435	BF20Z-../D08MA4	141.2	1776	7900	-	-	77	35
0.75 HP (0.55 kW)	12	2.1	3850	435	BF40Z-../D08MA4	141.4	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	11.5	1.25	4027	455	BF30Z-../D08MA4	150.7	1664	7400	-	-	101	46
0.75 HP (0.55 kW)	11	0.88	4204	475	BF20Z-../D08MA4	155.4	1776	7900	-	-	77	35
0.75 HP (0.55 kW)	11	1.9	4204	475	BF40Z-../D08MA4	155.6	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	11	2.7	4204	475	BF50Z-../D08MA4	154.5	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	10.5	0.84	4425	500	BF20Z-../D08MA4	164.3	1776	7900	-	-	77	35
0.75 HP (0.55 kW)	10.5	1.15	4425	500	BF30Z-../D08MA4	165.8	1664	7400	-	-	101	46
0.75 HP (0.55 kW)	9.9	1.7	4691	530	BF40Z-../D08MA4	171.2	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	9.6	1.05	4779	540	BF30Z-../D08MA4	176.6	1664	7400	-	-	101	46
0.75 HP (0.55 kW)	9.2	2.3	5045	570	BF50Z-../D08MA4	183.5	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	9.0	1.55	5133	580	BF40Z-../D08MA4	188.3	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	8.7	0.96	5310	600	BF30Z-../D08MA4	194.3	1664	7400	-	-	101	46
0.75 HP (0.55 kW)	8.4	1.45	5487	620	BF40Z-../D08MA4	202.2	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	8.2	2.0	5664	640	BF50Z-../D08MA4	205.2	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	7.6	1.3	6107	690	BF40Z-../D08MA4	222.4	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	7.6	3.3	6107	690	BF60Z-../D08MA4	221.4	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	7.5	0.82	6196	700	BF30Z-../D08MA4	224.8	1664	7400	-	-	101	46
0.75 HP (0.55 kW)	6.9	3.0	6727	760	BF60Z-../D08MA4	245.6	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	6.8	1.7	6815	770	BF50Z-../D08MA4	247.5	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	6.7	1.15	6904	780	BF40Z-../D08MA4	253.2	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	6.1	1.05	7612	860	BF40Z-../D08MA4	278.5	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	6.1	1.5	7612	860	BF50Z-../D08MA4	276.8	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	5.8	2.6	7966	900	BF60Z-../D08MA4	293.4	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	5.7	0.98	8143	920	BF40Z-../D08MA4	295.1	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	5.4	1.35	8585	970	BF50Z-../D08MA4	316.6	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	5.2	0.89	8939	1010	BF40Z-../D08MA4	324.7	2383	10600	-	-	123	56

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

0.75 HP (0.55 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.75 HP (0.55 kW)	5.2	2.3	8939	1010	BF60Z-../D08MA4	325.6	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	4.9	0.84	9470	1070	BF40Z-../D08MA4	346.8	2383	10600	-	-	123	56
0.75 HP (0.55 kW)	4.8	1.2	9647	1090	BF50Z-../D08MA4	354.0	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	4.5	2.0	10267	1160	BF60Z-../D08MA4	380.0	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	4.3	1.05	10798	1220	BF50Z-../D08MA4	392.8	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	4.0	1.75	11594	1310	BF60Z-../D08MA4	421.6	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	3.9	0.97	11860	1340	BF50Z-../D08MA4	439.3	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	3.7	1.65	12480	1410	BF60Z-../D08MA4	459.9	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	3.4	0.84	13630	1540	BF50Z-../D08MA4	496.4	3057	13600	-	-	190	86
0.75 HP (0.55 kW)	3.3	1.45	14073	1590	BF60Z-../D08MA4	510.3	3440	15300	9734	43300	287	130
0.75 HP (0.55 kW)	3.3	3.3	14073	1590	BF70Z-../D08MA4	512.4	3619	16100	10723	47700	481	218
0.75 HP (0.55 kW)	3.1	0.92	13453	1520	BF50G10-../D08MA4	555.9	3057	13600	-	-	198	90
0.75 HP (0.55 kW)	3.0	1.65	13365	1510	BF60G20-../D08MA4	569.3	3440	15300	9734	43300	302	137
0.75 HP (0.55 kW)	2.5	1.4	16020	1810	BF60G20-../D08MA4	689.0	3440	15300	9734	43300	302	137
0.75 HP (0.55 kW)	2.5	3.1	16020	1810	BF70G20-../D08MA4	673.6	3619	16100	10723	47700	476	216
0.75 HP (0.55 kW)	2.1	1.15	19029	2150	BF60G20-../D08MA4	813.2	3440	15300	9734	43300	302	137
0.75 HP (0.55 kW)	2.0	2.4	20799	2350	BF70G20-../D08MA4	872.1	3619	16100	10723	47700	476	216
0.75 HP (0.55 kW)	1.8	0.96	23012	2600	BF60G20-../D08MA4	937.6	3440	15300	9734	43300	302	137
0.75 HP (0.55 kW)	1.7	2.1	24340	2750	BF70G20-../D08MA4	1017	3619	16100	10723	47700	476	216
0.75 HP (0.55 kW)	1.5	3.0	30978	3500	BF80Z-../D08MA4	1124	8902	39600	16861	75000	736	334
0.75 HP (0.55 kW)	1.3	1.55	32305	3650	BF70G20-../D08MA4	1390	3619	16100	10723	47700	476	216
0.75 HP (0.55 kW)	1.1	1.3	38501	4350	BF70G20-../D08MA4	1621	3619	16100	10723	47700	476	216
0.75 HP (0.55 kW)	1.0	2.9	32305	3650	BF80G40-../D08MA4	1693	8902	39600	16861	75000	750	340
0.75 HP (0.55 kW)	0.9	1.05	47794	5400	BF70G20-../D08MA4	1912	3619	16100	10723	47700	476	216
0.75 HP (0.55 kW)	0.85	2.3	40271	4550	BF80G40-../D08MA4	2051	8902	39600	16861	75000	750	340
0.75 HP (0.55 kW)	0.7	1.8	52219	5900	BF80G40-../D08MA4	2422	8902	39600	16861	75000	750	340
0.75 HP (0.55 kW)	0.65	1.75	53104	6000	BF80G40-../D08MA4	2785	8902	39600	16861	75000	750	340
0.75 HP (0.55 kW)	0.65	3.2	50449	5700	BF90G50-../D08MA4	2656	9622	42800	26977	120000	1345	610
0.75 HP (0.55 kW)	0.6	2.8	57530	6500	BF90G50-../D08MA4	2952	9622	42800	26977	120000	1345	610
0.75 HP (0.55 kW)	0.55	1.4	65496	7400	BF80G40-../D08MA4	3092	8902	39600	16861	75000	750	340
0.75 HP (0.55 kW)	0.55	2.6	61955	7000	BF90G50-../D08MA4	3286	9622	42800	26977	120000	1345	610
0.75 HP (0.55 kW)	0.49	1.25	75231	8500	BF80G40-../D08MA4	3461	8902	39600	16861	75000	750	340
0.75 HP (0.55 kW)	0.47	2.2	76116	8600	BF90G50-../D08MA4	3644	9622	42800	26977	120000	1345	610
0.75 HP (0.55 kW)	0.44	1.1	84967	9600	BF80G40-../D08MA4	3843	8902	39600	16861	75000	750	340
0.75 HP (0.55 kW)	0.39	1.7	96473	10900	BF90G50-../D08MA4	4366	9622	42800	26977	120000	1345	610
0.75 HP (0.55 kW)	0.35	1.5	110634	12500	BF90G50-../D08MA4	4839	9622	42800	26977	120000	1345	610
0.75 HP (0.55 kW)	0.29	1.2	138072	15600	BF90G50-../D08MA4	5888	9622	42800	26977	120000	1345	610
0.75 HP (0.55 kW)	0.26	1.05	155773	17600	BF90G50-../D08MA4	6529	9622	42800	26977	120000	1345	610

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1 HP (0.75 kW)	305	2.7	204	23	BF06-../DPE08XB4	5.72	360	1600	-	-	40	18
1 HP (0.75 kW)	230	2.2	274	31	BF06-../DPE08XB4	7.66	405	1800	-	-	40	18
1 HP (0.75 kW)	189	1.85	332	37.5	BF06-../DPE08XB4	9.21	427	1900	-	-	40	18
1 HP (0.75 kW)	144	1.5	438	49.5	BF06-../DPE08XB4	12.07	450	2000	-	-	40	18
1 HP (0.75 kW)	123	1.45	513	58	BF06-../DPE08XB4	14.21	472	2100	-	-	40	18
1 HP (0.75 kW)	116	3.0	540	61	BF10-../DPE08XB4	15.04	629	2800	-	-	66	30
1 HP (0.75 kW)	103	1.4	611	69	BF06-../DPE08XB4	16.99	562	2500	-	-	40	18
1 HP (0.75 kW)	96	3.2	655	74	BF10-../DPE08XB4	18.23	652	2900	-	-	66	30
1 HP (0.75 kW)	87	2.9	726	82	BF10-../DPE08XB4	20.05	674	3000	-	-	66	30

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1 HP (0.75 kW)	85	1.15	743	84	BF06-../DPE08XB4	20.42	607	2700	-	-	40	18
1 HP (0.75 kW)	75	2.5	841	95	BF10-../DPE08XB4	23.28	719	3200	-	-	66	30
1 HP (0.75 kW)	68	2.3	929	105	BF10-../DPE08XB4	25.60	753	3350	-	-	66	30
1 HP (0.75 kW)	65	0.86	974	110	BF06-../DPE08XB4	26.76	674	3000	-	-	40	18
1 HP (0.75 kW)	61	2.1	1036	117	BF10-../DPE08XB4	28.47	776	3450	-	-	66	30
1 HP (0.75 kW)	56	1.9	1124	127	BF10-../DPE08XB4	31.31	809	3600	-	-	66	30
1 HP (0.75 kW)	54	3.2	1168	132	BF20-../DPE08XB4	32.58	1000	4450	-	-	79	36
1 HP (0.75 kW)	48.5	2.9	1301	147	BF20-../DPE08XB4	35.85	1045	4650	-	-	79	36
1 HP (0.75 kW)	48	1.6	1319	149	BF10-../DPE08XB4	36.15	854	3800	-	-	66	30
1 HP (0.75 kW)	44	1.5	1434	162	BF10-../DPE08XB4	39.75	888	3950	-	-	66	30
1 HP (0.75 kW)	42	2.5	1505	170	BF20-../DPE08XB4	41.72	1113	4950	-	-	79	36
1 HP (0.75 kW)	40.5	1.35	1558	176	BF10-../DPE08XB4	43.06	922	4100	-	-	66	30
1 HP (0.75 kW)	38.5	3.1	1646	186	BF30-../DPE08XB4	45.10	1057	4700	-	-	101	46
1 HP (0.75 kW)	38	2.2	1664	188	BF20-../DPE08XB4	45.90	1147	5100	-	-	79	36
1 HP (0.75 kW)	37	1.25	1708	193	BF10-../DPE08XB4	47.35	955	4250	-	-	66	30
1 HP (0.75 kW)	36	2.1	1752	198	BF20-../DPE08XB4	48.56	1169	5200	-	-	79	36
1 HP (0.75 kW)	34	1.15	1859	210	BF10-../DPE08XB4	51.28	989	4400	-	-	66	30
1 HP (0.75 kW)	33.5	2.7	1859	210	BF30-../DPE08XB4	52.20	1124	5000	-	-	101	46
1 HP (0.75 kW)	32.5	1.9	1947	220	BF20-../DPE08XB4	53.43	1236	5500	-	-	79	36
1 HP (0.75 kW)	31	1.05	2036	230	BF10-../DPE08XB4	56.39	1023	4550	-	-	66	30
1 HP (0.75 kW)	30.5	2.5	2036	230	BF30-../DPE08XB4	57.41	1169	5200	-	-	101	46
1 HP (0.75 kW)	30	1.8	2080	235	BF20-../DPE08XB4	58.24	1259	5600	-	-	79	36
1 HP (0.75 kW)	28.5	0.96	2213	250	BF10-../DPE08XB4	61.55	1057	4700	-	-	66	30
1 HP (0.75 kW)	28.5	2.3	2213	250	BF30-../DPE08XB4	61.17	1191	5300	-	-	101	46
1 HP (0.75 kW)	27.5	1.6	2301	260	BF20-../DPE08XB4	64.08	1326	5900	-	-	79	36
1 HP (0.75 kW)	26	0.87	2434	275	BF10-../DPE08XB4	67.69	1102	4900	-	-	66	30
1 HP (0.75 kW)	26	2.1	2434	275	BF30-../DPE08XB4	67.28	1236	5500	-	-	101	46
1 HP (0.75 kW)	26	3.3	2434	275	BF40-../DPE08XB4	67.38	1798	8000	-	-	123	56
1 HP (0.75 kW)	25	1.45	2522	285	BF20-../DPE08XB4	69.70	1371	6100	-	-	79	36
1 HP (0.75 kW)	24.5	2.0	2567	290	BF30-../DPE08XB4	72.13	1281	5700	-	-	101	46
1 HP (0.75 kW)	24.5	3.1	2567	290	BF40-../DPE08XB4	71.40	1821	8100	-	-	123	56
1 HP (0.75 kW)	23	1.35	2744	310	BF20-../DPE08XB4	76.69	1416	6300	-	-	79	36
1 HP (0.75 kW)	22.5	2.9	2788	315	BF40-../DPE08XB4	78.55	1911	8500	-	-	123	56
1 HP (0.75 kW)	22	1.75	2876	325	BF30-../DPE08XB4	79.34	1326	5900	-	-	101	46
1 HP (0.75 kW)	21	2.6	3009	340	BF40-../DPE08XB4	83.91	1956	8700	-	-	123	56
1 HP (0.75 kW)	20	1.2	3142	355	BF20-../DPE08XB4	87.31	1484	6600	-	-	79	36
1 HP (0.75 kW)	20	1.6	3142	355	BF30-../DPE08XB4	87.08	1394	6200	-	-	101	46
1 HP (0.75 kW)	19	2.4	3319	375	BF40-../DPE08XB4	92.31	2046	9100	-	-	123	56
1 HP (0.75 kW)	18.5	1.1	3408	385	BF20-../DPE08XB4	96.08	1551	6900	-	-	79	36
1 HP (0.75 kW)	18.5	1.5	3408	385	BF30-../DPE08XB4	95.79	1439	6400	-	-	101	46
1 HP (0.75 kW)	17.5	1.05	3585	405	BF20-../DPE08XB4	100.2	1574	7000	-	-	79	36
1 HP (0.75 kW)	17.5	2.2	3585	405	BF40-../DPE08XB4	101.0	2113	9400	-	-	123	56
1 HP (0.75 kW)	17.5	3.2	3585	405	BF50-../DPE08XB4	100.9	2765	12300	-	-	185	84
1 HP (0.75 kW)	16.5	1.35	3806	430	BF30-../DPE08XB4	107.6	1506	6700	-	-	101	46
1 HP (0.75 kW)	16	0.94	3939	445	BF20-../DPE08XB4	110.2	1641	7300	-	-	79	36
1 HP (0.75 kW)	16	2.0	3939	445	BF40-../DPE08XB4	111.1	2203	9800	-	-	123	56
1 HP (0.75 kW)	15.5	2.8	4071	460	BF50-../DPE08XB4	114.0	2900	12900	-	-	185	84
1 HP (0.75 kW)	15	1.2	4204	475	BF30-../DPE08XB4	118.3	1574	7000	-	-	101	46
1 HP (0.75 kW)	14.5	0.86	4337	490	BF20-../DPE08XB4	123.5	1709	7600	-	-	79	36
1 HP (0.75 kW)	14	1.15	4514	510	BF30-../DPE08XB4	124.7	1596	7100	-	-	101	46
1 HP (0.75 kW)	14	1.75	4514	510	BF40-../DPE08XB4	124.5	2293	10200	-	-	123	56
1 HP (0.75 kW)	14	2.5	4514	510	BF50-../DPE08XB4	127.5	3057	13600	-	-	185	84
1 HP (0.75 kW)	13	1.05	4868	550	BF30-../DPE08XB4	137.1	1664	7400	-	-	101	46
1 HP (0.75 kW)	13	1.65	4868	550	BF40-../DPE08XB4	137.0	2383	10600	-	-	123	56
1 HP (0.75 kW)	13	2.4	4868	550	BF50Z-../DPE08XB4	138.1	3057	13600	-	-	196	89
1 HP (0.75 kW)	12.5	1.6	5045	570	BF40Z-../DPE08XB4	141.4	2383	10600	-	-	130	59
1 HP (0.75 kW)	12	0.97	5222	590	BF30Z-../DPE08XB4	150.7	1664	7400	-	-	108	49
1 HP (0.75 kW)	11.5	1.45	5487	620	BF40Z-../DPE08XB4	155.6	2383	10600	-	-	130	59

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1 HP (0.75 kW)	11.5	2.1	5487	620	BF50Z-../DPE08XB4	154.5	3057	13600	-	-	196	89
1 HP (0.75 kW)	10.5	0.85	6019	680	BF30Z-../DPE08XB4	165.8	1664	7400	-	-	108	49
1 HP (0.75 kW)	10.5	1.3	6019	680	BF40Z-../DPE08XB4	171.2	2383	10600	-	-	130	59
1 HP (0.75 kW)	9.9	0.8	6373	720	BF30Z-../DPE08XB4	176.6	1664	7400	-	-	108	49
1 HP (0.75 kW)	9.5	1.75	6638	750	BF50Z-../DPE08XB4	183.5	3057	13600	-	-	196	89
1 HP (0.75 kW)	9.3	1.15	6815	770	BF40Z-../DPE08XB4	188.3	2383	10600	-	-	130	59
1 HP (0.75 kW)	9.3	3.0	6815	770	BF60Z-../DPE08XB4	187.7	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	8.6	1.1	7346	830	BF40Z-../DPE08XB4	202.2	2383	10600	-	-	130	59
1 HP (0.75 kW)	8.5	1.55	7435	840	BF50Z-../DPE08XB4	205.2	3057	13600	-	-	196	89
1 HP (0.75 kW)	7.9	1.0	7966	900	BF40Z-../DPE08XB4	222.4	2383	10600	-	-	130	59
1 HP (0.75 kW)	7.9	2.6	7966	900	BF60Z-../DPE08XB4	221.4	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	7.1	1.3	8851	1000	BF50Z-../DPE08XB4	247.5	3057	13600	-	-	196	89
1 HP (0.75 kW)	7.1	2.3	8851	1000	BF60Z-../DPE08XB4	245.6	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	6.9	0.87	9116	1030	BF40Z-../DPE08XB4	253.2	2383	10600	-	-	130	59
1 HP (0.75 kW)	6.3	0.8	10001	1130	BF40Z-../DPE08XB4	278.5	2383	10600	-	-	130	59
1 HP (0.75 kW)	6.3	1.15	10001	1130	BF50Z-../DPE08XB4	276.8	3057	13600	-	-	196	89
1 HP (0.75 kW)	6.0	1.95	10532	1190	BF60Z-../DPE08XB4	293.4	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	5.5	1.0	11506	1300	BF50Z-../DPE08XB4	316.6	3057	13600	-	-	196	89
1 HP (0.75 kW)	5.4	1.75	11683	1320	BF60Z-../DPE08XB4	325.6	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	5.0	0.91	12657	1430	BF50Z-../DPE08XB4	354.0	3057	13600	-	-	196	89
1 HP (0.75 kW)	4.6	1.5	13719	1550	BF60Z-../DPE08XB4	380.0	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	4.5	0.82	14073	1590	BF50Z-../DPE08XB4	392.8	3057	13600	-	-	196	89
1 HP (0.75 kW)	4.4	3.2	14338	1620	BF70Z-../DPE08XB4	398.7	3619	16100	10723	47700	487	221
1 HP (0.75 kW)	4.2	1.35	15046	1700	BF60Z-../DPE08XB4	421.6	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	4.0	2.9	15843	1790	BF70Z-../DPE08XB4	439.2	3619	16100	10723	47700	487	221
1 HP (0.75 kW)	3.8	1.2	16639	1880	BF60Z-../DPE08XB4	459.9	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	3.4	1.1	18587	2100	BF60Z-../DPE08XB4	510.3	3440	15300	9734	43300	293	133
1 HP (0.75 kW)	3.4	2.5	18587	2100	BF70Z-../DPE08XB4	512.4	3619	16100	10723	47700	487	221
1 HP (0.75 kW)	3.1	1.2	18144	2050	BF60G20-../DPE08XB4	569.3	3440	15300	9734	43300	309	140
1 HP (0.75 kW)	3.1	2.8	18144	2050	BF70G20-../DPE08XB4	577.5	3619	16100	10723	47700	483	219
1 HP (0.75 kW)	2.6	1.0	21684	2450	BF60G20-../DPE08XB4	689.0	3440	15300	9734	43300	309	140
1 HP (0.75 kW)	2.6	2.3	21684	2450	BF70G20-../DPE08XB4	673.6	3619	16100	10723	47700	483	219
1 HP (0.75 kW)	2.2	0.86	25667	2900	BF60G20-../DPE08XB4	813.2	3440	15300	9734	43300	309	140
1 HP (0.75 kW)	2.0	1.75	29207	3300	BF70G20-../DPE08XB4	872.1	3619	16100	10723	47700	483	219
1 HP (0.75 kW)	2.0	3.0	31420	3550	BF80Z-../DPE08XB4	874.6	8902	39600	16861	75000	745	338
1 HP (0.75 kW)	1.8	1.55	32305	3650	BF70G20-../DPE08XB4	1017	3619	16100	10723	47700	483	219
1 HP (0.75 kW)	1.8	2.7	34960	3950	BF80Z-../DPE08XB4	990.4	8902	39600	16861	75000	745	338
1 HP (0.75 kW)	1.6	2.4	39386	4450	BF80Z-../DPE08XB4	1124	8902	39600	16861	75000	745	338
1 HP (0.75 kW)	1.4	2.9	32305	3650	BF80G40-../DPE08XB4	1329	8902	39600	16861	75000	756	343
1 HP (0.75 kW)	1.3	1.1	45139	5100	BF70G20-../DPE08XB4	1390	3619	16100	10723	47700	483	219
1 HP (0.75 kW)	1.2	2.3	40271	4550	BF80G40-../DPE08XB4	1491	8902	39600	16861	75000	756	343
1 HP (0.75 kW)	1.1	0.93	53990	6100	BF70G20-../DPE08XB4	1621	3619	16100	10723	47700	483	219
1 HP (0.75 kW)	1.1	2.1	43369	4900	BF80G40-../DPE08XB4	1693	8902	39600	16861	75000	756	343
1 HP (0.75 kW)	0.95	3.2	50449	5700	BF90G50-../DPE08XB4	1867	9622	42800	26977	120000	1354	614
1 HP (0.75 kW)	0.85	1.55	60185	6800	BF80G40-../DPE08XB4	2051	8902	39600	16861	75000	756	343
1 HP (0.75 kW)	0.85	2.9	55760	6300	BF90G50-../DPE08XB4	2154	9622	42800	26977	120000	1354	614
1 HP (0.75 kW)	0.75	1.35	69921	7900	BF80G40-../DPE08XB4	2422	8902	39600	16861	75000	756	343
1 HP (0.75 kW)	0.7	2.4	69036	7800	BF90G50-../DPE08XB4	2656	9622	42800	26977	120000	1354	614
1 HP (0.75 kW)	0.65	1.2	78772	8900	BF80G40-../DPE08XB4	2785	8902	39600	16861	75000	756	343
1 HP (0.75 kW)	0.6	1.05	86737	9800	BF80G40-../DPE08XB4	3092	8902	39600	16861	75000	756	343
1 HP (0.75 kW)	0.6	1.95	84967	9600	BF90G50-../DPE08XB4	2952	9622	42800	26977	120000	1354	614
1 HP (0.75 kW)	0.55	1.75	92933	10500	BF90G50-../DPE08XB4	3286	9622	42800	26977	120000	1354	614
1 HP (0.75 kW)	0.48	1.5	109749	12400	BF90G50-../DPE08XB4	3644	9622	42800	26977	120000	1354	614
1 HP (0.75 kW)	0.4	1.2	136301	15400	BF90G50-../DPE08XB4	4366	9622	42800	26977	120000	1354	614
1 HP (0.75 kW)	0.36	1.05	153118	17300	BF90G50-../DPE08XB4	4839	9622	42800	26977	120000	1354	614

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1.5 HP (1.1 kW)	315	4.2	292	33	BF10-../DPE09XB4	5.60	438	1950	-	-	88	40
1.5 HP (1.1 kW)	235	3.4	394	44.5	BF10-../DPE09XB4	7.58	495	2200	-	-	88	40
1.5 HP (1.1 kW)	182	3.1	504	57	BF10-../DPE09XB4	9.69	528	2350	-	-	88	40
1.5 HP (1.1 kW)	149	2.6	620	70	BF10-../DPE09XB4	11.84	562	2500	-	-	88	40
1.5 HP (1.1 kW)	117	2.1	788	89	BF10-../DPE09XB4	15.04	629	2800	-	-	88	40
1.5 HP (1.1 kW)	113	3.3	814	92	BF20-../DPE09XB4	15.54	776	3450	-	-	101	46
1.5 HP (1.1 kW)	97	2.2	956	108	BF10-../DPE09XB4	18.23	652	2900	-	-	88	40
1.5 HP (1.1 kW)	88	2.0	1053	119	BF10-../DPE09XB4	20.05	674	3000	-	-	88	40
1.5 HP (1.1 kW)	80	3.0	1159	131	BF20-../DPE09XB4	22.04	854	3800	-	-	101	46
1.5 HP (1.1 kW)	76	1.75	1221	138	BF10-../DPE09XB4	23.28	719	3200	-	-	88	40
1.5 HP (1.1 kW)	73	2.8	1266	143	BF20-../DPE09XB4	24.25	888	3950	-	-	101	46
1.5 HP (1.1 kW)	69	1.6	1345	152	BF10-../DPE09XB4	25.60	753	3350	-	-	88	40
1.5 HP (1.1 kW)	64	2.6	1452	164	BF20-../DPE09XB4	27.62	933	4150	-	-	101	46
1.5 HP (1.1 kW)	62	1.4	1496	169	BF10-../DPE09XB4	28.47	776	3450	-	-	88	40
1.5 HP (1.1 kW)	58	2.3	1602	181	BF20-../DPE09XB4	30.40	989	4400	-	-	101	46
1.5 HP (1.1 kW)	57	1.3	1629	184	BF10-../DPE09XB4	31.31	809	3600	-	-	88	40
1.5 HP (1.1 kW)	57	3.1	1629	184	BF30-../DPE09XB4	31.05	899	4000	-	-	126	57
1.5 HP (1.1 kW)	54	2.2	1717	194	BF20-../DPE09XB4	32.58	1000	4450	-	-	101	46
1.5 HP (1.1 kW)	51	2.8	1814	205	BF30-../DPE09XB4	35.00	944	4200	-	-	126	57
1.5 HP (1.1 kW)	49	1.15	1859	210	BF10-../DPE09XB4	36.15	854	3800	-	-	88	40
1.5 HP (1.1 kW)	49	2.0	1859	210	BF20-../DPE09XB4	35.85	1045	4650	-	-	101	46
1.5 HP (1.1 kW)	46	2.6	1991	225	BF30-../DPE09XB4	38.49	989	4400	-	-	126	57
1.5 HP (1.1 kW)	44.5	1.0	2080	235	BF10-../DPE09XB4	39.75	888	3950	-	-	88	40
1.5 HP (1.1 kW)	43	2.4	2124	240	BF30-../DPE09XB4	41.01	1012	4500	-	-	126	57
1.5 HP (1.1 kW)	42.5	1.7	2168	245	BF20-../DPE09XB4	41.72	1113	4950	-	-	101	46
1.5 HP (1.1 kW)	41	0.94	2257	255	BF10-../DPE09XB4	43.06	922	4100	-	-	88	40
1.5 HP (1.1 kW)	39	2.2	2345	265	BF30-../DPE09XB4	45.10	1057	4700	-	-	126	57
1.5 HP (1.1 kW)	38.5	1.55	2390	270	BF20-../DPE09XB4	45.90	1147	5100	-	-	101	46
1.5 HP (1.1 kW)	37.5	0.86	2478	280	BF10-../DPE09XB4	47.35	955	4250	-	-	88	40
1.5 HP (1.1 kW)	36.5	1.45	2522	285	BF20-../DPE09XB4	48.56	1169	5200	-	-	101	46
1.5 HP (1.1 kW)	36	3.1	2567	290	BF40-../DPE09XB4	48.92	1574	7000	-	-	146	66
1.5 HP (1.1 kW)	34.5	0.8	2655	300	BF10-../DPE09XB4	51.28	989	4400	-	-	88	40
1.5 HP (1.1 kW)	34	1.9	2699	305	BF30-../DPE09XB4	52.20	1124	5000	-	-	126	57
1.5 HP (1.1 kW)	33	1.35	2788	315	BF20-../DPE09XB4	53.43	1236	5500	-	-	101	46
1.5 HP (1.1 kW)	33	2.9	2788	315	BF40-../DPE09XB4	53.82	1619	7200	-	-	146	66
1.5 HP (1.1 kW)	31	1.7	2965	335	BF30-../DPE09XB4	57.41	1169	5200	-	-	126	57
1.5 HP (1.1 kW)	30.5	1.25	3009	340	BF20-../DPE09XB4	58.24	1259	5600	-	-	101	46
1.5 HP (1.1 kW)	29	1.6	3186	360	BF30-../DPE09XB4	61.17	1191	5300	-	-	126	57
1.5 HP (1.1 kW)	29	2.5	3186	360	BF40-../DPE09XB4	61.25	1709	7600	-	-	146	66
1.5 HP (1.1 kW)	27.5	1.1	3363	380	BF20-../DPE09XB4	64.08	1326	5900	-	-	101	46
1.5 HP (1.1 kW)	26.5	1.45	3496	395	BF30-../DPE09XB4	67.28	1236	5500	-	-	126	57
1.5 HP (1.1 kW)	26.5	2.3	3496	395	BF40-../DPE09XB4	67.38	1798	8000	-	-	146	66
1.5 HP (1.1 kW)	25.5	1.0	3629	410	BF20-../DPE09XB4	69.70	1371	6100	-	-	101	46
1.5 HP (1.1 kW)	25	2.1	3717	420	BF40-../DPE09XB4	71.40	1821	8100	-	-	146	66
1.5 HP (1.1 kW)	24.5	1.35	3762	425	BF30-../DPE09XB4	72.13	1281	5700	-	-	126	57
1.5 HP (1.1 kW)	24.5	3.1	3762	425	BF50-../DPE09XB4	72.72	2405	10700	-	-	207	94
1.5 HP (1.1 kW)	23	0.92	4027	455	BF20-../DPE09XB4	76.69	1416	6300	-	-	101	46
1.5 HP (1.1 kW)	22.5	1.25	4116	465	BF30-../DPE09XB4	79.34	1326	5900	-	-	126	57
1.5 HP (1.1 kW)	22.5	1.95	4116	465	BF40-../DPE09XB4	78.55	1911	8500	-	-	146	66
1.5 HP (1.1 kW)	22	2.7	4204	475	BF50-../DPE09XB4	81.33	2540	11300	-	-	207	94
1.5 HP (1.1 kW)	21	1.8	4425	500	BF40-../DPE09XB4	83.91	1956	8700	-	-	146	66
1.5 HP (1.1 kW)	20.5	0.82	4514	510	BF20-../DPE09XB4	87.31	1484	6600	-	-	101	46
1.5 HP (1.1 kW)	20.5	1.15	4514	510	BF30-../DPE09XB4	87.08	1394	6200	-	-	126	57
1.5 HP (1.1 kW)	19.5	1.7	4691	530	BF40-../DPE09XB4	92.31	2046	9100	-	-	146	66
1.5 HP (1.1 kW)	19.5	2.5	4691	530	BF50-../DPE09XB4	90.24	2653	11800	-	-	207	94
1.5 HP (1.1 kW)	18.5	1.05	4956	560	BF30-../DPE09XB4	95.79	1439	6400	-	-	126	57
1.5 HP (1.1 kW)	17.5	1.5	5310	600	BF40-../DPE09XB4	101.0	2113	9400	-	-	146	66
1.5 HP (1.1 kW)	17.5	2.2	5310	600	BF50-../DPE09XB4	100.9	2765	12300	-	-	207	94

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1.5 HP (1.1 kW)	16.5	0.91	5576	630	BF30-../DPE09XB4	107.6	1506	6700	-	-	126	57
1.5 HP (1.1 kW)	16	1.4	5753	650	BF40-../DPE09XB4	111.1	2203	9800	-	-	146	66
1.5 HP (1.1 kW)	15.5	1.95	5930	670	BF50-../DPE09XB4	114.0	2900	12900	-	-	207	94
1.5 HP (1.1 kW)	14.5	0.8	6373	720	BF30-../DPE09XB4	124.7	1596	7100	-	-	126	57
1.5 HP (1.1 kW)	14.5	1.25	6373	720	BF40-../DPE09XB4	124.5	2293	10200	-	-	146	66
1.5 HP (1.1 kW)	14	1.75	6638	750	BF50-../DPE09XB4	127.5	3057	13600	-	-	207	94
1.5 HP (1.1 kW)	14	3.1	6638	750	BF60-../DPE09XB4	125.5	3440	15300	9734	43300	273	124
1.5 HP (1.1 kW)	13	1.15	7081	800	BF40-../DPE09XB4	137.0	2383	10600	-	-	146	66
1.5 HP (1.1 kW)	13	1.65	7081	800	BF50Z-../DPE09XB4	138.1	3057	13600	-	-	218	99
1.5 HP (1.1 kW)	12.5	1.05	7435	840	BF40Z-../DPE09XB4	141.4	2383	10600	-	-	154	70
1.5 HP (1.1 kW)	12.5	2.7	7435	840	BF60Z-../DPE09XB4	140.8	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	11.5	0.99	8054	910	BF40Z-../DPE09XB4	155.6	2383	10600	-	-	154	70
1.5 HP (1.1 kW)	11.5	1.45	8054	910	BF50Z-../DPE09XB4	154.5	3057	13600	-	-	218	99
1.5 HP (1.1 kW)	10.5	0.9	8851	1000	BF40Z-../DPE09XB4	171.2	2383	10600	-	-	154	70
1.5 HP (1.1 kW)	10.5	2.3	8851	1000	BF60Z-../DPE09XB4	169.2	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	9.6	1.2	9647	1090	BF50Z-../DPE09XB4	183.5	3057	13600	-	-	218	99
1.5 HP (1.1 kW)	9.4	0.81	9824	1110	BF40Z-../DPE09XB4	188.3	2383	10600	-	-	154	70
1.5 HP (1.1 kW)	9.4	2.1	9824	1110	BF60Z-../DPE09XB4	187.7	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	8.6	1.05	10798	1220	BF50Z-../DPE09XB4	205.2	3057	13600	-	-	218	99
1.5 HP (1.1 kW)	8.0	1.75	11594	1310	BF60Z-../DPE09XB4	221.4	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	7.2	1.6	12834	1450	BF60Z-../DPE09XB4	245.6	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	7.1	0.88	13011	1470	BF50Z-../DPE09XB4	247.5	3057	13600	-	-	218	99
1.5 HP (1.1 kW)	6.0	1.3	15489	1750	BF60Z-../DPE09XB4	293.4	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	5.9	2.9	15754	1780	BF70Z-../DPE09XB4	301.8	3619	16100	10723	47700	509	231
1.5 HP (1.1 kW)	5.4	1.2	17170	1940	BF60Z-../DPE09XB4	325.6	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	5.2	2.6	17701	2000	BF70Z-../DPE09XB4	341.7	3619	16100	10723	47700	509	231
1.5 HP (1.1 kW)	4.7	1.05	19472	2200	BF60Z-../DPE09XB4	380.0	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	4.5	2.3	20357	2300	BF70Z-../DPE09XB4	398.7	3619	16100	10723	47700	509	231
1.5 HP (1.1 kW)	4.2	0.92	22127	2500	BF60Z-../DPE09XB4	421.6	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	4.0	2.0	23012	2600	BF70Z-../DPE09XB4	439.2	3619	16100	10723	47700	509	231
1.5 HP (1.1 kW)	3.9	0.87	23454	2650	BF60Z-../DPE09XB4	459.9	3440	15300	9734	43300	315	143
1.5 HP (1.1 kW)	3.5	1.75	26552	3000	BF70Z-../DPE09XB4	512.4	3619	16100	10723	47700	509	231
1.5 HP (1.1 kW)	3.4	2.0	25225	2850	BF70G20-../DPE09XB4	524.1	3619	16100	10723	47700	505	229
1.5 HP (1.1 kW)	3.1	1.85	27437	3100	BF70G20-../DPE09XB4	577.5	3619	16100	10723	47700	505	229
1.5 HP (1.1 kW)	3.1	3.1	29650	3350	BF80Z-../DPE09XB4	583.4	8902	39600	16861	75000	767	348
1.5 HP (1.1 kW)	2.7	1.6	31863	3600	BF70G20-../DPE09XB4	673.6	3619	16100	10723	47700	505	229
1.5 HP (1.1 kW)	2.7	2.7	34075	3850	BF80Z-../DPE09XB4	662.1	8902	39600	16861	75000	767	348
1.5 HP (1.1 kW)	2.3	2.3	40271	4550	BF80Z-../DPE09XB4	770.6	8902	39600	16861	75000	767	348
1.5 HP (1.1 kW)	2.1	1.2	41599	4700	BF70G20-../DPE09XB4	872.1	3619	16100	10723	47700	505	229
1.5 HP (1.1 kW)	2.1	2.1	44254	5000	BF80Z-../DPE09XB4	874.6	8902	39600	16861	75000	767	348
1.5 HP (1.1 kW)	1.8	1.05	48679	5500	BF70G20-../DPE09XB4	1017	3619	16100	10723	47700	505	229
1.5 HP (1.1 kW)	1.8	1.8	51334	5800	BF80Z-../DPE09XB4	990.4	8902	39600	16861	75000	767	348
1.5 HP (1.1 kW)	1.6	1.6	57530	6500	BF80Z-../DPE09XB4	1124	8902	39600	16861	75000	767	348
1.5 HP (1.1 kW)	1.4	1.75	53104	6000	BF80G40-../DPE09XB4	1329	8902	39600	16861	75000	778	353
1.5 HP (1.1 kW)	1.3	2.8	59300	6700	BF90G50-../DPE09XB4	1444	9622	42800	26977	120000	1376	624
1.5 HP (1.1 kW)	1.2	1.45	64610	7300	BF80G40-../DPE09XB4	1491	8902	39600	16861	75000	778	353
1.5 HP (1.1 kW)	1.1	1.35	69921	7900	BF80G40-../DPE09XB4	1693	8902	39600	16861	75000	778	353
1.5 HP (1.1 kW)	1.1	2.3	69921	7900	BF90G50-../DPE09XB4	1678	9622	42800	26977	120000	1376	624
1.5 HP (1.1 kW)	0.95	2.0	81427	9200	BF90G50-../DPE09XB4	1867	9622	42800	26977	120000	1376	624
1.5 HP (1.1 kW)	0.9	1.05	88507	10000	BF80G40-../DPE09XB4	2051	8902	39600	16861	75000	778	353
1.5 HP (1.1 kW)	0.85	1.8	91163	10300	BF90G50-../DPE09XB4	2154	9622	42800	26977	120000	1376	624
1.5 HP (1.1 kW)	0.7	1.45	111519	12600	BF90G50-../DPE09XB4	2656	9622	42800	26977	120000	1376	624
1.5 HP (1.1 kW)	0.6	1.2	134531	15200	BF90G50-../DPE09XB4	2952	9622	42800	26977	120000	1376	624
1.5 HP (1.1 kW)	0.55	1.1	146037	16500	BF90G50-../DPE09XB4	3286	9622	42800	26977	120000	1376	624

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
2 HP (1.5 kW)	315	3.1	398	45	BF10-../DPE09XB4	5.60	438	1950	-	-	88	40
2 HP (1.5 kW)	235	2.6	531	60	BF10-../DPE09XB4	7.58	495	2200	-	-	88	40
2 HP (1.5 kW)	181	2.2	699	79	BF10-../DPE09XB4	9.69	528	2350	-	-	88	40
2 HP (1.5 kW)	167	3.0	752	85	BF20-../DPE09XB4	10.51	697	3100	-	-	101	46
2 HP (1.5 kW)	148	1.9	850	96	BF10-../DPE09XB4	11.84	562	2500	-	-	88	40
2 HP (1.5 kW)	133	2.7	947	107	BF20-../DPE09XB4	13.18	742	3300	-	-	101	46
2 HP (1.5 kW)	117	1.5	1080	122	BF10-../DPE09XB4	15.04	629	2800	-	-	88	40
2 HP (1.5 kW)	113	2.4	1115	126	BF20-../DPE09XB4	15.54	776	3450	-	-	101	46
2 HP (1.5 kW)	110	3.1	1151	130	BF30-../DPE09XB4	16.00	731	3250	-	-	126	57
2 HP (1.5 kW)	105	2.7	1204	136	BF20-../DPE09XB4	16.77	787	3500	-	-	101	46
2 HP (1.5 kW)	99	3.3	1275	144	BF30-../DPE09XB4	17.65	742	3300	-	-	126	57
2 HP (1.5 kW)	96	1.6	1319	149	BF10-../DPE09XB4	18.23	652	2900	-	-	88	40
2 HP (1.5 kW)	95	2.5	1328	150	BF20-../DPE09XB4	18.45	809	3600	-	-	101	46
2 HP (1.5 kW)	90	3.2	1407	159	BF30-../DPE09XB4	19.41	764	3400	-	-	126	57
2 HP (1.5 kW)	88	1.5	1434	162	BF10-../DPE09XB4	20.05	674	3000	-	-	88	40
2 HP (1.5 kW)	80	2.2	1584	179	BF20-../DPE09XB4	22.04	854	3800	-	-	101	46
2 HP (1.5 kW)	80	3.0	1584	179	BF30-../DPE09XB4	21.85	787	3500	-	-	126	57
2 HP (1.5 kW)	75	1.25	1690	191	BF10-../DPE09XB4	23.28	719	3200	-	-	88	40
2 HP (1.5 kW)	73	2.8	1735	196	BF30-../DPE09XB4	24.03	809	3600	-	-	126	57
2 HP (1.5 kW)	72	2.0	1752	198	BF20-../DPE09XB4	24.25	888	3950	-	-	101	46
2 HP (1.5 kW)	69	1.15	1814	205	BF10-../DPE09XB4	25.60	753	3350	-	-	88	40
2 HP (1.5 kW)	64	1.9	1947	220	BF20-../DPE09XB4	27.62	933	4150	-	-	101	46
2 HP (1.5 kW)	62	1.05	2036	230	BF10-../DPE09XB4	28.47	776	3450	-	-	88	40
2 HP (1.5 kW)	62	2.5	2036	230	BF30-../DPE09XB4	28.23	854	3800	-	-	126	57
2 HP (1.5 kW)	58	1.7	2168	245	BF20-../DPE09XB4	30.40	989	4400	-	-	101	46
2 HP (1.5 kW)	57	2.3	2213	250	BF30-../DPE09XB4	31.05	899	4000	-	-	126	57
2 HP (1.5 kW)	56	0.94	2257	255	BF10-../DPE09XB4	31.31	809	3600	-	-	88	40
2 HP (1.5 kW)	54	1.6	2345	265	BF20-../DPE09XB4	32.58	1000	4450	-	-	101	46
2 HP (1.5 kW)	52	3.1	2434	275	BF40-../DPE09XB4	34.21	1349	6000	-	-	146	66
2 HP (1.5 kW)	50	2.0	2522	285	BF30-../DPE09XB4	35.00	944	4200	-	-	126	57
2 HP (1.5 kW)	49	1.45	2567	290	BF20-../DPE09XB4	35.85	1045	4650	-	-	101	46
2 HP (1.5 kW)	48.5	0.81	2611	295	BF10-../DPE09XB4	36.15	854	3800	-	-	88	40
2 HP (1.5 kW)	46.5	2.9	2699	305	BF40-../DPE09XB4	37.64	1394	6200	-	-	146	66
2 HP (1.5 kW)	45.5	1.85	2744	310	BF30-../DPE09XB4	38.49	989	4400	-	-	126	57
2 HP (1.5 kW)	43	1.75	2921	330	BF30-../DPE09XB4	41.01	1012	4500	-	-	126	57
2 HP (1.5 kW)	42.5	2.7	2965	335	BF40-../DPE09XB4	41.42	1461	6500	-	-	146	66
2 HP (1.5 kW)	42	1.25	3009	340	BF20-../DPE09XB4	41.72	1113	4950	-	-	101	46
2 HP (1.5 kW)	39	1.6	3231	365	BF30-../DPE09XB4	45.10	1057	4700	-	-	126	57
2 HP (1.5 kW)	38.5	1.15	3275	370	BF20-../DPE09XB4	45.90	1147	5100	-	-	101	46
2 HP (1.5 kW)	38.5	2.4	3275	370	BF40-../DPE09XB4	45.56	1529	6800	-	-	146	66
2 HP (1.5 kW)	36	1.05	3496	395	BF20-../DPE09XB4	48.56	1169	5200	-	-	101	46
2 HP (1.5 kW)	36	2.3	3496	395	BF40-../DPE09XB4	48.92	1574	7000	-	-	146	66
2 HP (1.5 kW)	33.5	1.35	3762	425	BF30-../DPE09XB4	52.20	1124	5000	-	-	126	57
2 HP (1.5 kW)	33	0.98	3806	430	BF20-../DPE09XB4	53.43	1236	5500	-	-	101	46
2 HP (1.5 kW)	32.5	2.0	3894	440	BF40-../DPE09XB4	53.82	1619	7200	-	-	146	66
2 HP (1.5 kW)	31	2.8	4071	460	BF50-../DPE09XB4	56.86	2091	9300	-	-	207	94
2 HP (1.5 kW)	30.5	1.25	4116	465	BF30-../DPE09XB4	57.41	1169	5200	-	-	126	57
2 HP (1.5 kW)	30	0.88	4204	475	BF20-../DPE09XB4	58.24	1259	5600	-	-	101	46
2 HP (1.5 kW)	29	1.15	4337	490	BF30-../DPE09XB4	61.17	1191	5300	-	-	126	57
2 HP (1.5 kW)	28.5	1.8	4425	500	BF40-../DPE09XB4	61.25	1709	7600	-	-	146	66
2 HP (1.5 kW)	27.5	0.81	4602	520	BF20-../DPE09XB4	64.08	1326	5900	-	-	101	46
2 HP (1.5 kW)	27.5	2.5	4602	520	BF50-../DPE09XB4	63.59	2203	9800	-	-	207	94
2 HP (1.5 kW)	26	1.05	4868	550	BF30-../DPE09XB4	67.28	1236	5500	-	-	126	57
2 HP (1.5 kW)	26	1.65	4868	550	BF40-../DPE09XB4	67.38	1798	8000	-	-	146	66
2 HP (1.5 kW)	24.5	0.99	5133	580	BF30-../DPE09XB4	72.13	1281	5700	-	-	126	57
2 HP (1.5 kW)	24.5	1.55	5133	580	BF40-../DPE09XB4	71.40	1821	8100	-	-	146	66
2 HP (1.5 kW)	24	2.2	5222	590	BF50-../DPE09XB4	72.72	2405	10700	-	-	207	94
2 HP (1.5 kW)	22.5	1.45	5576	630	BF40-../DPE09XB4	78.55	1911	8500	-	-	146	66

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
2 HP (1.5 kW)	22	0.88	5753	650	BF30-../DPE09XB4	79.34	1326	5900	-	-	126	57
2 HP (1.5 kW)	21.5	1.95	5841	660	BF50-../DPE09XB4	81.33	2540	11300	-	-	207	94
2 HP (1.5 kW)	21	1.3	6019	680	BF40-../DPE09XB4	83.91	1956	8700	-	-	146	66
2 HP (1.5 kW)	20.5	0.83	6107	690	BF30-../DPE09XB4	87.08	1394	6200	-	-	126	57
2 HP (1.5 kW)	19.5	1.8	6461	730	BF50-../DPE09XB4	90.24	2653	11800	-	-	207	94
2 HP (1.5 kW)	19	1.2	6638	750	BF40-../DPE09XB4	92.31	2046	9100	-	-	146	66
2 HP (1.5 kW)	19	3.1	6638	750	BF60-../DPE09XB4	93.44	3035	13500	8588	38200	273	124
2 HP (1.5 kW)	17.5	1.1	7169	810	BF40-../DPE09XB4	101.0	2113	9400	-	-	146	66
2 HP (1.5 kW)	17.5	1.6	7169	810	BF50-../DPE09XB4	100.9	2765	12300	-	-	207	94
2 HP (1.5 kW)	17	2.7	7435	840	BF60-../DPE09XB4	103.7	3170	14100	8970	39900	273	124
2 HP (1.5 kW)	16	1.0	7877	890	BF40-../DPE09XB4	111.1	2203	9800	-	-	146	66
2 HP (1.5 kW)	15.5	1.4	8143	920	BF50-../DPE09XB4	114.0	2900	12900	-	-	207	94
2 HP (1.5 kW)	15.5	2.5	8143	920	BF60-../DPE09XB4	113.1	3282	14600	9285	41300	273	124
2 HP (1.5 kW)	14.5	0.92	8674	980	BF40-../DPE09XB4	124.5	2293	10200	-	-	146	66
2 HP (1.5 kW)	14	1.25	9028	1020	BF50-../DPE09XB4	127.5	3057	13600	-	-	207	94
2 HP (1.5 kW)	14	2.3	9028	1020	BF60-../DPE09XB4	125.5	3440	15300	9734	43300	273	124
2 HP (1.5 kW)	13	0.82	9736	1100	BF40-../DPE09XB4	137.0	2383	10600	-	-	146	66
2 HP (1.5 kW)	13	1.2	9736	1100	BF50Z-../DPE09XB4	138.1	3057	13600	-	-	218	99
2 HP (1.5 kW)	12.5	2.0	10090	1140	BF60Z-../DPE09XB4	140.8	3440	15300	9734	43300	315	143
2 HP (1.5 kW)	11.5	1.05	10975	1240	BF50Z-../DPE09XB4	154.5	3057	13600	-	-	218	99
2 HP (1.5 kW)	10.5	1.7	12037	1360	BF60Z-../DPE09XB4	169.2	3440	15300	9734	43300	315	143
2 HP (1.5 kW)	9.6	0.87	13188	1490	BF50Z-../DPE09XB4	183.5	3057	13600	-	-	218	99
2 HP (1.5 kW)	9.3	1.5	13630	1540	BF60Z-../DPE09XB4	187.7	3440	15300	9734	43300	315	143
2 HP (1.5 kW)	8.8	3.2	14338	1620	BF70Z-../DPE09XB4	199.7	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	7.9	1.25	16020	1810	BF60Z-../DPE09XB4	221.4	3440	15300	9734	43300	315	143
2 HP (1.5 kW)	7.5	2.7	16905	1910	BF70Z-../DPE09XB4	233.0	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	7.2	1.15	17524	1980	BF60Z-../DPE09XB4	245.6	3440	15300	9734	43300	315	143
2 HP (1.5 kW)	6.8	2.5	18587	2100	BF70Z-../DPE09XB4	258.7	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	6.0	0.98	20799	2350	BF60Z-../DPE09XB4	293.4	3440	15300	9734	43300	315	143
2 HP (1.5 kW)	5.8	2.1	21684	2450	BF70Z-../DPE09XB4	301.8	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	5.4	0.87	23454	2650	BF60Z-../DPE09XB4	325.6	3440	15300	9734	43300	315	143
2 HP (1.5 kW)	5.2	1.9	24340	2750	BF70Z-../DPE09XB4	341.7	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	4.5	3.3	27880	3150	BF80Z-../DPE09XB4	394.2	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	4.4	1.6	28765	3250	BF70Z-../DPE09XB4	398.7	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	4.0	1.45	31420	3550	BF70Z-../DPE09XB4	439.2	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	3.9	2.9	32305	3650	BF80Z-../DPE09XB4	450.4	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	3.5	1.3	35846	4050	BF70Z-../DPE09XB4	512.4	3619	16100	10723	47700	509	231
2 HP (1.5 kW)	3.5	2.6	35846	4050	BF80Z-../DPE09XB4	511.2	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	3.4	1.45	34960	3950	BF70G20-../DPE09XB4	524.1	3619	16100	10723	47700	505	229
2 HP (1.5 kW)	3.1	1.3	38501	4350	BF70G20-../DPE09XB4	577.5	3619	16100	10723	47700	505	229
2 HP (1.5 kW)	3.0	2.2	42041	4750	BF80Z-../DPE09XB4	583.4	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	2.7	2.0	46909	5300	BF80Z-../DPE09XB4	662.1	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	2.6	1.1	46024	5200	BF70G20-../DPE09XB4	673.6	3619	16100	10723	47700	505	229
2 HP (1.5 kW)	2.3	1.7	54875	6200	BF80Z-../DPE09XB4	770.6	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	2.3	3.0	54875	6200	BF90Z-../DPE09XB4	759.0	9622	42800	26977	120000	1349	612
2 HP (1.5 kW)	2.1	0.88	57530	6500	BF70G20-../DPE09XB4	872.1	3619	16100	10723	47700	505	229
2 HP (1.5 kW)	2.1	2.7	60185	6800	BF90Z-../DPE09XB4	845.1	9622	42800	26977	120000	1349	612
2 HP (1.5 kW)	2.0	1.5	62840	7100	BF80Z-../DPE09XB4	874.6	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	1.8	1.35	69921	7900	BF80Z-../DPE09XB4	990.4	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	1.8	2.9	55760	6300	BF90G50-../DPE09XB4	976.1	9622	42800	26977	120000	1376	624
2 HP (1.5 kW)	1.7	2.6	61955	7000	BF90G50-../DPE09XB4	1043	9622	42800	26977	120000	1376	624
2 HP (1.5 kW)	1.6	1.2	78772	8900	BF80Z-../DPE09XB4	1124	8902	39600	16861	75000	767	348
2 HP (1.5 kW)	1.5	2.3	69921	7900	BF90G50-../DPE09XB4	1204	9622	42800	26977	120000	1376	624
2 HP (1.5 kW)	1.4	1.2	77001	8700	BF80G40-../DPE09XB4	1329	8902	39600	16861	75000	778	353
2 HP (1.5 kW)	1.3	1.95	84967	9600	BF90G50-../DPE09XB4	1444	9622	42800	26977	120000	1376	624
2 HP (1.5 kW)	1.2	1.0	92933	10500	BF80G40-../DPE09XB4	1491	8902	39600	16861	75000	778	353
2 HP (1.5 kW)	1.1	0.92	100899	11400	BF80G40-../DPE09XB4	1693	8902	39600	16861	75000	778	353
2 HP (1.5 kW)	1.1	1.6	100899	11400	BF90G50-../DPE09XB4	1678	9622	42800	26977	120000	1376	624

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
2 HP (1.5 kW)	0.95	1.4	116830	13200	BF90G50-../DPE09XB4	1867	9622	42800	26977	120000	1376	624
2 HP (1.5 kW)	0.85	1.25	130106	14700	BF90G50-../DPE09XB4	2154	9622	42800	26977	120000	1376	624
2 HP (1.5 kW)	0.7	1.0	160198	18100	BF90G50-../DPE09XB4	2656	9622	42800	26977	120000	1376	624

2.4 HP (1.8 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
2.4 HP (1.8 kW)	315	2.6	478	54	BF10-../DPE09XB4C	5.60	438	1950	-	-	95	43
2.4 HP (1.8 kW)	235	2.1	646	73	BF10-../DPE09XB4C	7.58	495	2200	-	-	95	43
2.4 HP (1.8 kW)	220	2.8	690	78	BF20-../DPE09XB4C	8.00	641	2850	-	-	108	49
2.4 HP (1.8 kW)	182	1.9	832	94	BF10-../DPE09XB4C	9.69	528	2350	-	-	95	43
2.4 HP (1.8 kW)	177	3.3	859	97	BF30-../DPE09XB4C	9.99	641	2850	-	-	130	59
2.4 HP (1.8 kW)	168	2.5	903	102	BF20-../DPE09XB4C	10.51	697	3100	-	-	108	49
2.4 HP (1.8 kW)	149	1.6	1018	115	BF10-../DPE09XB4C	11.84	562	2500	-	-	95	43
2.4 HP (1.8 kW)	137	2.9	1106	125	BF30-../DPE09XB4C	12.91	686	3050	-	-	130	59
2.4 HP (1.8 kW)	134	2.2	1133	128	BF20-../DPE09XB4C	13.18	742	3300	-	-	108	49
2.4 HP (1.8 kW)	118	1.25	1283	145	BF10-../DPE09XB4C	15.04	629	2800	-	-	95	43
2.4 HP (1.8 kW)	114	2.1	1328	150	BF20-../DPE09XB4C	15.54	776	3450	-	-	108	49
2.4 HP (1.8 kW)	110	2.6	1381	156	BF30-../DPE09XB4C	16.00	731	3250	-	-	130	59
2.4 HP (1.8 kW)	105	2.2	1443	163	BF20-../DPE09XB4C	16.77	787	3500	-	-	108	49
2.4 HP (1.8 kW)	100	2.8	1513	171	BF30-../DPE09XB4C	17.65	742	3300	-	-	130	59
2.4 HP (1.8 kW)	97	1.35	1567	177	BF10-../DPE09XB4C	18.23	652	2900	-	-	95	43
2.4 HP (1.8 kW)	96	2.1	1584	179	BF20-../DPE09XB4C	18.45	809	3600	-	-	108	49
2.4 HP (1.8 kW)	91	2.7	1664	188	BF30-../DPE09XB4C	19.41	764	3400	-	-	130	59
2.4 HP (1.8 kW)	88	1.25	1726	195	BF10-../DPE09XB4C	20.05	674	3000	-	-	95	43
2.4 HP (1.8 kW)	81	2.5	1859	210	BF30-../DPE09XB4C	21.85	787	3500	-	-	130	59
2.4 HP (1.8 kW)	80	1.9	1859	210	BF20-../DPE09XB4C	22.04	854	3800	-	-	108	49
2.4 HP (1.8 kW)	76	1.05	1991	225	BF10-../DPE09XB4C	23.28	719	3200	-	-	95	43
2.4 HP (1.8 kW)	75	3.3	1991	225	BF40-../DPE09XB4C	23.77	1214	5400	-	-	152	69
2.4 HP (1.8 kW)	74	2.4	2036	230	BF30-../DPE09XB4C	24.03	809	3600	-	-	130	59
2.4 HP (1.8 kW)	73	1.7	2080	235	BF20-../DPE09XB4C	24.25	888	3950	-	-	108	49
2.4 HP (1.8 kW)	69	0.98	2168	245	BF10-../DPE09XB4C	25.60	753	3350	-	-	95	43
2.4 HP (1.8 kW)	66	3.0	2301	260	BF40-../DPE09XB4C	26.86	1259	5600	-	-	152	69
2.4 HP (1.8 kW)	64	1.6	2345	265	BF20-../DPE09XB4C	27.62	933	4150	-	-	108	49
2.4 HP (1.8 kW)	63	2.1	2390	270	BF30-../DPE09XB4C	28.23	854	3800	-	-	130	59
2.4 HP (1.8 kW)	62	0.87	2434	275	BF10-../DPE09XB4C	28.47	776	3450	-	-	95	43
2.4 HP (1.8 kW)	60	2.8	2522	285	BF40-../DPE09XB4C	29.55	1304	5800	-	-	152	69
2.4 HP (1.8 kW)	58	1.4	2611	295	BF20-../DPE09XB4C	30.40	989	4400	-	-	108	49
2.4 HP (1.8 kW)	57	0.8	2655	300	BF10-../DPE09XB4C	31.31	809	3600	-	-	95	43
2.4 HP (1.8 kW)	57	1.9	2655	300	BF30-../DPE09XB4C	31.05	899	4000	-	-	130	59
2.4 HP (1.8 kW)	55	1.35	2744	310	BF20-../DPE09XB4C	32.58	1000	4450	-	-	108	49
2.4 HP (1.8 kW)	52	2.6	2921	330	BF40-../DPE09XB4C	34.21	1349	6000	-	-	152	69
2.4 HP (1.8 kW)	51	1.7	2965	335	BF30-../DPE09XB4C	35.00	944	4200	-	-	130	59
2.4 HP (1.8 kW)	49.5	1.2	3054	345	BF20-../DPE09XB4C	35.85	1045	4650	-	-	108	49
2.4 HP (1.8 kW)	47	2.4	3231	365	BF40-../DPE09XB4C	37.64	1394	6200	-	-	152	69
2.4 HP (1.8 kW)	46	1.55	3275	370	BF30-../DPE09XB4C	38.49	989	4400	-	-	130	59
2.4 HP (1.8 kW)	43	1.45	3496	395	BF30-../DPE09XB4C	41.01	1012	4500	-	-	130	59
2.4 HP (1.8 kW)	42.5	1.05	3540	400	BF20-../DPE09XB4C	41.72	1113	4950	-	-	108	49
2.4 HP (1.8 kW)	42.5	2.3	3540	400	BF40-../DPE09XB4C	41.42	1461	6500	-	-	152	69
2.4 HP (1.8 kW)	42	3.2	3585	405	BF50-../DPE09XB4C	42.15	1911	8500	-	-	214	97
2.4 HP (1.8 kW)	39.5	1.3	3850	435	BF30-../DPE09XB4C	45.10	1057	4700	-	-	130	59

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

2.4 HP (1.8 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
2.4 HP (1.8 kW)	39	2.0	3894	440	BF40-../DPE09XB4C	45.56	1529	6800	-	-	152	69
2.4 HP (1.8 kW)	38.5	0.94	3939	445	BF20-../DPE09XB4C	45.90	1147	5100	-	-	108	49
2.4 HP (1.8 kW)	37.5	2.9	4027	455	BF50-../DPE09XB4C	47.14	2001	8900	-	-	214	97
2.4 HP (1.8 kW)	36.5	0.89	4160	470	BF20-../DPE09XB4C	48.56	1169	5200	-	-	108	49
2.4 HP (1.8 kW)	36	1.9	4204	475	BF40-../DPE09XB4C	48.92	1574	7000	-	-	152	69
2.4 HP (1.8 kW)	34	1.15	4425	500	BF30-../DPE09XB4C	52.20	1124	5000	-	-	130	59
2.4 HP (1.8 kW)	33	0.81	4602	520	BF20-../DPE09XB4C	53.43	1236	5500	-	-	108	49
2.4 HP (1.8 kW)	33	1.75	4602	520	BF40-../DPE09XB4C	53.82	1619	7200	-	-	152	69
2.4 HP (1.8 kW)	31	1.05	4868	550	BF30-../DPE09XB4C	57.41	1169	5200	-	-	130	59
2.4 HP (1.8 kW)	31	2.4	4868	550	BF50-../DPE09XB4C	56.86	2091	9300	-	-	214	97
2.4 HP (1.8 kW)	29	0.97	5222	590	BF30-../DPE09XB4C	61.17	1191	5300	-	-	130	59
2.4 HP (1.8 kW)	29	1.55	5222	590	BF40-../DPE09XB4C	61.25	1709	7600	-	-	152	69
2.4 HP (1.8 kW)	28	2.1	5399	610	BF50-../DPE09XB4C	63.59	2203	9800	-	-	214	97
2.4 HP (1.8 kW)	26.5	0.9	5664	640	BF30-../DPE09XB4C	67.28	1236	5500	-	-	130	59
2.4 HP (1.8 kW)	26.5	1.4	5664	640	BF40-../DPE09XB4C	67.38	1798	8000	-	-	152	69
2.4 HP (1.8 kW)	25	1.3	6019	680	BF40-../DPE09XB4C	71.40	1821	8100	-	-	152	69
2.4 HP (1.8 kW)	24.5	0.82	6196	700	BF30-../DPE09XB4C	72.13	1281	5700	-	-	130	59
2.4 HP (1.8 kW)	24.5	1.85	6196	700	BF50-../DPE09XB4C	72.72	2405	10700	-	-	214	97
2.4 HP (1.8 kW)	24.5	3.3	6196	700	BF60-../DPE09XB4C	72.15	2698	12000	7644	34000	278	126
2.4 HP (1.8 kW)	22.5	1.2	6727	760	BF40-../DPE09XB4C	78.55	1911	8500	-	-	152	69
2.4 HP (1.8 kW)	22	1.65	6904	780	BF50-../DPE09XB4C	81.33	2540	11300	-	-	214	97
2.4 HP (1.8 kW)	22	2.9	6904	780	BF60-../DPE09XB4C	80.05	2833	12600	8003	35600	278	126
2.4 HP (1.8 kW)	21	1.1	7169	810	BF40-../DPE09XB4C	83.91	1956	8700	-	-	152	69
2.4 HP (1.8 kW)	20	1.55	7523	850	BF50-../DPE09XB4C	90.24	2653	11800	-	-	214	97
2.4 HP (1.8 kW)	19.5	1.0	7789	880	BF40-../DPE09XB4C	92.31	2046	9100	-	-	152	69
2.4 HP (1.8 kW)	19	2.6	7966	900	BF60-../DPE09XB4C	93.44	3035	13500	8588	38200	278	126
2.4 HP (1.8 kW)	17.5	0.92	8674	980	BF40-../DPE09XB4C	101.0	2113	9400	-	-	152	69
2.4 HP (1.8 kW)	17.5	1.35	8674	980	BF50-../DPE09XB4C	100.9	2765	12300	-	-	214	97
2.4 HP (1.8 kW)	17	2.3	8939	1010	BF60-../DPE09XB4C	103.7	3170	14100	8970	39900	278	126
2.4 HP (1.8 kW)	16	0.84	9470	1070	BF40-../DPE09XB4C	111.1	2203	9800	-	-	152	69
2.4 HP (1.8 kW)	16	2.1	9470	1070	BF60-../DPE09XB4C	113.1	3282	14600	9285	41300	278	126
2.4 HP (1.8 kW)	15.5	1.2	9736	1100	BF50-../DPE09XB4C	114.0	2900	12900	-	-	214	97
2.4 HP (1.8 kW)	14.5	1.95	10444	1180	BF60-../DPE09XB4C	125.5	3440	15300	9734	43300	278	126
2.4 HP (1.8 kW)	14	1.05	10798	1220	BF50-../DPE09XB4C	127.5	3057	13600	-	-	214	97
2.4 HP (1.8 kW)	13	0.98	11683	1320	BF50Z-../DPE09XB4C	138.1	3057	13600	-	-	225	102
2.4 HP (1.8 kW)	12.5	1.7	12126	1370	BF60Z-../DPE09XB4C	140.8	3440	15300	9734	43300	322	146
2.4 HP (1.8 kW)	11.5	0.87	13188	1490	BF50Z-../DPE09XB4C	154.5	3057	13600	-	-	225	102
2.4 HP (1.8 kW)	10.5	1.4	14427	1630	BF60Z-../DPE09XB4C	169.2	3440	15300	9734	43300	322	146
2.4 HP (1.8 kW)	9.8	3.0	15489	1750	BF70Z-../DPE09XB4C	179.7	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	9.4	1.25	16108	1820	BF60Z-../DPE09XB4C	187.7	3440	15300	9734	43300	322	146
2.4 HP (1.8 kW)	8.9	2.7	17082	1930	BF70Z-../DPE09XB4C	199.7	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	8.0	1.1	18587	2100	BF60Z-../DPE09XB4C	221.4	3440	15300	9734	43300	322	146
2.4 HP (1.8 kW)	7.6	2.3	19914	2250	BF70Z-../DPE09XB4C	233.0	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	7.2	0.98	20799	2350	BF60Z-../DPE09XB4C	245.6	3440	15300	9734	43300	322	146
2.4 HP (1.8 kW)	6.9	2.1	21684	2450	BF70Z-../DPE09XB4C	258.7	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	6.0	0.81	25225	2850	BF60Z-../DPE09XB4C	293.4	3440	15300	9734	43300	322	146
2.4 HP (1.8 kW)	5.9	1.8	25667	2900	BF70Z-../DPE09XB4C	301.8	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	5.2	1.6	29207	3300	BF70Z-../DPE09XB4C	341.7	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	5.1	3.1	29650	3350	BF80Z-../DPE09XB4C	347.3	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	4.5	1.35	33633	3800	BF70Z-../DPE09XB4C	398.7	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	4.5	2.8	33633	3800	BF80Z-../DPE09XB4C	394.2	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	4.1	1.25	36731	4150	BF70Z-../DPE09XB4C	439.2	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	4.0	2.5	37616	4250	BF80Z-../DPE09XB4C	450.4	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	3.5	1.05	43369	4900	BF70Z-../DPE09XB4C	512.4	3619	16100	10723	47700	516	234
2.4 HP (1.8 kW)	3.5	2.1	43369	4900	BF80Z-../DPE09XB4C	511.2	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	3.4	1.2	42484	4800	BF70G20-../DPE09XB4C	524.1	3619	16100	10723	47700	511	232
2.4 HP (1.8 kW)	3.1	1.1	46909	5300	BF70G20-../DPE09XB4C	577.5	3619	16100	10723	47700	511	232
2.4 HP (1.8 kW)	3.1	1.9	48679	5500	BF80Z-../DPE09XB4C	583.4	8902	39600	16861	75000	772	350

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

2.4 HP (1.8 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
2.4 HP (1.8 kW)	3.0	3.2	50449	5700	BF90Z-../DPE09XB4C	591.1	9622	42800	26977	120000	1354	614
2.4 HP (1.8 kW)	2.7	0.95	53104	6000	BF70G20-../DPE09XB4C	673.6	3619	16100	10723	47700	511	232
2.4 HP (1.8 kW)	2.7	1.65	55760	6300	BF80Z-../DPE09XB4C	662.1	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	2.7	2.9	55760	6300	BF90Z-../DPE09XB4C	658.1	9622	42800	26977	120000	1354	614
2.4 HP (1.8 kW)	2.4	2.6	62840	7100	BF90Z-../DPE09XB4C	759.0	9622	42800	26977	120000	1354	614
2.4 HP (1.8 kW)	2.3	1.4	65496	7400	BF80Z-../DPE09XB4C	770.6	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	2.1	1.3	71691	8100	BF80Z-../DPE09XB4C	874.6	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	2.1	2.3	71691	8100	BF90Z-../DPE09XB4C	845.1	9622	42800	26977	120000	1354	614
2.4 HP (1.8 kW)	1.9	2.5	65496	7400	BF90G50-../DPE09XB4C	976.1	9622	42800	26977	120000	1380	626
2.4 HP (1.8 kW)	1.8	1.1	84082	9500	BF80Z-../DPE09XB4C	990.4	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	1.7	2.1	77001	8700	BF90G50-../DPE09XB4C	1043	9622	42800	26977	120000	1380	626
2.4 HP (1.8 kW)	1.6	0.98	94703	10700	BF80Z-../DPE09XB4C	1124	8902	39600	16861	75000	772	350
2.4 HP (1.8 kW)	1.5	1.9	86737	9800	BF90G50-../DPE09XB4C	1204	9622	42800	26977	120000	1380	626
2.4 HP (1.8 kW)	1.4	0.97	95588	10800	BF80G40-../DPE09XB4C	1329	8902	39600	16861	75000	785	356
2.4 HP (1.8 kW)	1.3	1.55	104439	11800	BF90G50-../DPE09XB4C	1444	9622	42800	26977	120000	1380	626
2.4 HP (1.8 kW)	1.2	0.81	114175	12900	BF80G40-../DPE09XB4C	1491	8902	39600	16861	75000	785	356
2.4 HP (1.8 kW)	1.1	1.3	123910	14000	BF90G50-../DPE09XB4C	1678	9622	42800	26977	120000	1380	626
2.4 HP (1.8 kW)	0.95	1.15	144267	16300	BF90G50-../DPE09XB4C	1867	9622	42800	26977	120000	1380	626
2.4 HP (1.8 kW)	0.85	1.0	160198	18100	BF90G50-../DPE09XB4C	2154	9622	42800	26977	120000	1380	626

7

3 HP (2.2 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
3 HP (2.2 kW)	280	3.5	664	75	BF30-../DPE11LB4	6.34	540	2400	-	-	172	78
3 HP (2.2 kW)	220	3.0	841	95	BF30-../DPE11LB4	8.07	596	2650	-	-	172	78
3 HP (2.2 kW)	177	2.7	1044	118	BF30-../DPE11LB4	9.99	641	2850	-	-	172	78
3 HP (2.2 kW)	150	3.3	1239	140	BF40-../DPE11LB4	11.79	1000	4450	-	-	203	92
3 HP (2.2 kW)	137	2.4	1354	153	BF30-../DPE11LB4	12.91	686	3050	-	-	172	78
3 HP (2.2 kW)	118	2.9	1575	178	BF40-../DPE11LB4	15.02	1079	4800	-	-	203	92
3 HP (2.2 kW)	110	2.1	1690	191	BF30-../DPE11LB4	16.00	731	3250	-	-	172	78
3 HP (2.2 kW)	102	3.1	1814	205	BF40-../DPE11LB4	17.35	1113	4950	-	-	203	92
3 HP (2.2 kW)	100	2.3	1859	210	BF30-../DPE11LB4	17.65	742	3300	-	-	172	78
3 HP (2.2 kW)	93	3.0	1991	225	BF40-../DPE11LB4	19.09	1147	5100	-	-	203	92
3 HP (2.2 kW)	91	2.2	2036	230	BF30-../DPE11LB4	19.41	764	3400	-	-	172	78
3 HP (2.2 kW)	82	2.8	2257	255	BF40-../DPE11LB4	21.60	1169	5200	-	-	203	92
3 HP (2.2 kW)	81	2.1	2257	255	BF30-../DPE11LB4	21.85	787	3500	-	-	172	78
3 HP (2.2 kW)	75	2.6	2478	280	BF40-../DPE11LB4	23.77	1214	5400	-	-	203	92
3 HP (2.2 kW)	74	2.0	2478	280	BF30-../DPE11LB4	24.03	809	3600	-	-	172	78
3 HP (2.2 kW)	66	2.5	2788	315	BF40-../DPE11LB4	26.86	1259	5600	-	-	203	92
3 HP (2.2 kW)	63	1.75	2921	330	BF30-../DPE11LB4	28.23	854	3800	-	-	172	78
3 HP (2.2 kW)	60	2.3	3098	350	BF40-../DPE11LB4	29.55	1304	5800	-	-	203	92
3 HP (2.2 kW)	57	1.6	3231	365	BF30-../DPE11LB4	31.05	899	4000	-	-	172	78
3 HP (2.2 kW)	52	2.1	3540	400	BF40-../DPE11LB4	34.21	1349	6000	-	-	203	92
3 HP (2.2 kW)	51	1.4	3629	410	BF30-../DPE11LB4	35.00	944	4200	-	-	172	78
3 HP (2.2 kW)	50	3.1	3717	420	BF50-../DPE11LB4	35.49	1754	7800	-	-	269	122
3 HP (2.2 kW)	47	2.0	3939	445	BF40-../DPE11LB4	37.64	1394	6200	-	-	203	92
3 HP (2.2 kW)	46	1.25	4027	455	BF30-../DPE11LB4	38.49	989	4400	-	-	172	78
3 HP (2.2 kW)	43	1.2	4293	485	BF30-../DPE11LB4	41.01	1012	4500	-	-	172	78
3 HP (2.2 kW)	42.5	1.85	4337	490	BF40-../DPE11LB4	41.42	1461	6500	-	-	203	92
3 HP (2.2 kW)	42	2.6	4425	500	BF50-../DPE11LB4	42.15	1911	8500	-	-	269	122
3 HP (2.2 kW)	39.5	1.1	4691	530	BF30-../DPE11LB4	45.10	1057	4700	-	-	172	78

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

3 HP (2.2 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
3 HP (2.2 kW)	39	1.7	4691	530	BF40-../DPE11LB4	45.56	1529	6800	-	-	203	92
3 HP (2.2 kW)	37.5	2.3	4956	560	BF50-../DPE11LB4	47.14	2001	8900	-	-	269	122
3 HP (2.2 kW)	36	1.55	5133	580	BF40-../DPE11LB4	48.92	1574	7000	-	-	203	92
3 HP (2.2 kW)	33	1.45	5576	630	BF40-../DPE11LB4	53.82	1619	7200	-	-	203	92
3 HP (2.2 kW)	31	1.95	5930	670	BF50-../DPE11LB4	56.86	2091	9300	-	-	269	122
3 HP (2.2 kW)	29.5	3.2	6284	710	BF60-../DPE11LB4	60.40	2495	11100	7059	31400	337	153
3 HP (2.2 kW)	28	1.75	6638	750	BF50-../DPE11LB4	63.59	2203	9800	-	-	269	122
3 HP (2.2 kW)	24.5	1.55	7523	850	BF50-../DPE11LB4	72.72	2405	10700	-	-	269	122
3 HP (2.2 kW)	24.5	2.7	7523	850	BF60-../DPE11LB4	72.15	2698	12000	7644	34000	337	153
3 HP (2.2 kW)	22	1.35	8408	950	BF50-../DPE11LB4	81.33	2540	11300	-	-	269	122
3 HP (2.2 kW)	22	2.4	8408	950	BF60-../DPE11LB4	80.05	2833	12600	8003	35600	337	153
3 HP (2.2 kW)	20	1.25	9293	1050	BF50-../DPE11LB4	90.24	2653	11800	-	-	269	122
3 HP (2.2 kW)	19	2.1	9736	1100	BF60-../DPE11LB4	93.44	3035	13500	8588	38200	337	153
3 HP (2.2 kW)	17.5	1.1	10621	1200	BF50-../DPE11LB4	100.9	2765	12300	-	-	269	122
3 HP (2.2 kW)	17	1.85	10886	1230	BF60-../DPE11LB4	103.7	3170	14100	8970	39900	337	153
3 HP (2.2 kW)	16	1.75	11594	1310	BF60-../DPE11LB4	113.1	3282	14600	9285	41300	337	153
3 HP (2.2 kW)	14.5	1.6	12745	1440	BF60-../DPE11LB4	125.5	3440	15300	9734	43300	337	153
3 HP (2.2 kW)	12.5	1.35	14869	1680	BF60Z-../DPE11LB4	140.8	3440	15300	9734	43300	373	169
3 HP (2.2 kW)	11.5	2.9	16108	1820	BF70Z-../DPE11LB4	154.0	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	10.5	1.15	17701	2000	BF60Z-../DPE11LB4	169.2	3440	15300	9734	43300	373	169
3 HP (2.2 kW)	9.8	2.5	18587	2100	BF70Z-../DPE11LB4	179.7	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	9.4	1.05	19472	2200	BF60Z-../DPE11LB4	187.7	3440	15300	9734	43300	373	169
3 HP (2.2 kW)	8.9	2.2	20799	2350	BF70Z-../DPE11LB4	199.7	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	8.0	0.88	23012	2600	BF60Z-../DPE11LB4	221.4	3440	15300	9734	43300	373	169
3 HP (2.2 kW)	7.6	1.9	24340	2750	BF70Z-../DPE11LB4	233.0	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	6.9	1.75	26552	3000	BF70Z-../DPE11LB4	258.7	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	6.6	3.0	27880	3150	BF80-../DPE11LB4	269.1	8902	39600	16861	75000	723	328
3 HP (2.2 kW)	6.1	3.1	30093	3400	BF80Z-../DPE11LB4	291.7	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	5.9	1.45	31420	3550	BF70Z-../DPE11LB4	301.8	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	5.2	1.3	35403	4000	BF70Z-../DPE11LB4	341.7	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	5.1	2.6	36288	4100	BF80Z-../DPE11LB4	347.3	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	4.5	1.1	41156	4650	BF70Z-../DPE11LB4	398.7	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	4.5	2.3	41156	4650	BF80Z-../DPE11LB4	394.2	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	4.1	1.0	45139	5100	BF70Z-../DPE11LB4	439.2	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	4.0	2.0	46024	5200	BF80Z-../DPE11LB4	450.4	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	3.5	0.87	53104	6000	BF70Z-../DPE11LB4	512.4	3619	16100	10723	47700	569	258
3 HP (2.2 kW)	3.5	1.75	53104	6000	BF80Z-../DPE11LB4	511.2	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	3.5	3.1	53104	6000	BF90Z-../DPE11LB4	508.5	9622	42800	26977	120000	1413	641
3 HP (2.2 kW)	3.1	1.55	59300	6700	BF80Z-../DPE11LB4	583.4	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	3.0	2.6	61955	7000	BF90Z-../DPE11LB4	591.1	9622	42800	26977	120000	1413	641
3 HP (2.2 kW)	2.7	1.35	68151	7700	BF80Z-../DPE11LB4	662.1	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	2.7	2.4	68151	7700	BF90Z-../DPE11LB4	658.1	9622	42800	26977	120000	1413	641
3 HP (2.2 kW)	2.4	2.1	77001	8700	BF90Z-../DPE11LB4	759.0	9622	42800	26977	120000	1413	641
3 HP (2.2 kW)	2.3	1.15	80542	9100	BF80Z-../DPE11LB4	770.6	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	2.1	1.05	88507	10000	BF80Z-../DPE11LB4	874.6	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	2.1	1.85	88507	10000	BF90Z-../DPE11LB4	845.1	9622	42800	26977	120000	1413	641
3 HP (2.2 kW)	1.9	1.95	83197	9400	BF90G50-../DPE11LB4	976.1	9622	42800	26977	120000	1435	651
3 HP (2.2 kW)	1.8	0.91	102669	11600	BF80Z-../DPE11LB4	990.4	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	1.7	1.7	96473	10900	BF90G50-../DPE11LB4	1043	9622	42800	26977	120000	1435	651
3 HP (2.2 kW)	1.6	0.8	115945	13100	BF80Z-../DPE11LB4	1124	8902	39600	16861	75000	827	375
3 HP (2.2 kW)	1.5	1.5	108864	12300	BF90G50-../DPE11LB4	1204	9622	42800	26977	120000	1435	651
3 HP (2.2 kW)	1.3	1.25	130106	14700	BF90G50-../DPE11LB4	1444	9622	42800	26977	120000	1435	651
3 HP (2.2 kW)	1.1	1.05	154003	17400	BF90G50-../DPE11LB4	1678	9622	42800	26977	120000	1435	651

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

4 HP (3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
4 HP (3 kW)	280	2.6	903	102	BF30-../DPE11LB4	6.34	540	2400	-	-	172	78
4 HP (3 kW)	235	3.0	1071	121	BF40-../DPE11LB4	7.62	877	3900	-	-	203	92
4 HP (3 kW)	220	2.2	1151	130	BF30-../DPE11LB4	8.07	596	2650	-	-	172	78
4 HP (3 kW)	186	2.7	1363	154	BF40-../DPE11LB4	9.48	933	4150	-	-	203	92
4 HP (3 kW)	177	2.0	1425	161	BF30-../DPE11LB4	9.99	641	2850	-	-	172	78
4 HP (3 kW)	150	2.4	1690	191	BF40-../DPE11LB4	11.79	1000	4450	-	-	203	92
4 HP (3 kW)	137	1.8	1814	205	BF30-../DPE11LB4	12.91	686	3050	-	-	172	78
4 HP (3 kW)	118	2.2	2124	240	BF40-../DPE11LB4	15.02	1079	4800	-	-	203	92
4 HP (3 kW)	110	1.55	2301	260	BF30-../DPE11LB4	16.00	731	3250	-	-	172	78
4 HP (3 kW)	102	2.3	2478	280	BF40-../DPE11LB4	17.35	1113	4950	-	-	203	92
4 HP (3 kW)	100	1.7	2522	285	BF30-../DPE11LB4	17.65	742	3300	-	-	172	78
4 HP (3 kW)	95	3.3	2655	300	BF50-../DPE11LB4	18.68	1439	6400	-	-	269	122
4 HP (3 kW)	93	2.2	2699	305	BF40-../DPE11LB4	19.09	1147	5100	-	-	203	92
4 HP (3 kW)	91	1.6	2744	310	BF30-../DPE11LB4	19.41	764	3400	-	-	172	78
4 HP (3 kW)	82	2.0	3054	345	BF40-../DPE11LB4	21.60	1169	5200	-	-	203	92
4 HP (3 kW)	81	1.5	3098	350	BF30-../DPE11LB4	21.85	787	3500	-	-	172	78
4 HP (3 kW)	77	3.0	3275	370	BF50-../DPE11LB4	23.14	1529	6800	-	-	269	122
4 HP (3 kW)	75	1.95	3363	380	BF40-../DPE11LB4	23.77	1214	5400	-	-	203	92
4 HP (3 kW)	74	1.45	3408	385	BF30-../DPE11LB4	24.03	809	3600	-	-	172	78
4 HP (3 kW)	69	2.8	3673	415	BF50-../DPE11LB4	25.88	1596	7100	-	-	269	122
4 HP (3 kW)	66	1.8	3806	430	BF40-../DPE11LB4	26.86	1259	5600	-	-	203	92
4 HP (3 kW)	63	1.3	3983	450	BF30-../DPE11LB4	28.23	854	3800	-	-	172	78
4 HP (3 kW)	60	1.7	4204	475	BF40-../DPE11LB4	29.55	1304	5800	-	-	203	92
4 HP (3 kW)	57	1.15	4425	500	BF30-../DPE11LB4	31.05	899	4000	-	-	172	78
4 HP (3 kW)	56	2.5	4514	510	BF50-../DPE11LB4	31.73	1686	7500	-	-	269	122
4 HP (3 kW)	52	1.55	4868	550	BF40-../DPE11LB4	34.21	1349	6000	-	-	203	92
4 HP (3 kW)	51	1.05	4956	560	BF30-../DPE11LB4	35.00	944	4200	-	-	172	78
4 HP (3 kW)	50	2.3	5045	570	BF50-../DPE11LB4	35.49	1754	7800	-	-	269	122
4 HP (3 kW)	47	1.5	5310	600	BF40-../DPE11LB4	37.64	1394	6200	-	-	203	92
4 HP (3 kW)	46	0.93	5487	620	BF30-../DPE11LB4	38.49	989	4400	-	-	172	78
4 HP (3 kW)	43	0.87	5841	660	BF30-../DPE11LB4	41.01	1012	4500	-	-	172	78
4 HP (3 kW)	42.5	1.35	5930	670	BF40-../DPE11LB4	41.42	1461	6500	-	-	203	92
4 HP (3 kW)	42.5	3.2	5930	670	BF60-../DPE11LB4	41.60	2158	9600	6092	27100	337	153
4 HP (3 kW)	42	1.9	6019	680	BF50-../DPE11LB4	42.15	1911	8500	-	-	269	122
4 HP (3 kW)	39.5	0.8	6373	720	BF30-../DPE11LB4	45.10	1057	4700	-	-	172	78
4 HP (3 kW)	39	1.25	6461	730	BF40-../DPE11LB4	45.56	1529	6800	-	-	203	92
4 HP (3 kW)	38.5	3.0	6550	740	BF60-../DPE11LB4	46.16	2226	9900	6295	28000	337	153
4 HP (3 kW)	37.5	1.7	6727	760	BF50-../DPE11LB4	47.14	2001	8900	-	-	269	122
4 HP (3 kW)	36	1.15	6992	790	BF40-../DPE11LB4	48.92	1574	7000	-	-	203	92
4 HP (3 kW)	33	1.05	7612	860	BF40-../DPE11LB4	53.82	1619	7200	-	-	203	92
4 HP (3 kW)	32.5	2.6	7789	880	BF60-../DPE11LB4	54.44	2360	10500	6677	29700	337	153
4 HP (3 kW)	31	1.4	8143	920	BF50-../DPE11LB4	56.86	2091	9300	-	-	269	122
4 HP (3 kW)	29.5	2.4	8585	970	BF60-../DPE11LB4	60.40	2495	11100	7059	31400	337	153
4 HP (3 kW)	28	1.25	9028	1020	BF50-../DPE11LB4	63.59	2203	9800	-	-	269	122
4 HP (3 kW)	24.5	1.1	10267	1160	BF50-../DPE11LB4	72.72	2405	10700	-	-	269	122
4 HP (3 kW)	24.5	2.0	10267	1160	BF60-../DPE11LB4	72.15	2698	12000	7644	34000	337	153
4 HP (3 kW)	22	1.0	11506	1300	BF50-../DPE11LB4	81.33	2540	11300	-	-	269	122
4 HP (3 kW)	22	1.75	11506	1300	BF60-../DPE11LB4	80.05	2833	12600	8003	35600	337	153
4 HP (3 kW)	20	0.91	12657	1430	BF50-../DPE11LB4	90.24	2653	11800	-	-	269	122
4 HP (3 kW)	19	1.55	13276	1500	BF60-../DPE11LB4	93.44	3035	13500	8588	38200	337	153
4 HP (3 kW)	17.5	0.8	14427	1630	BF50-../DPE11LB4	100.9	2765	12300	-	-	269	122
4 HP (3 kW)	17	1.35	14869	1680	BF60-../DPE11LB4	103.7	3170	14100	8970	39900	337	153
4 HP (3 kW)	17	3.1	14869	1680	BF70-../DPE11LB4	105.2	3305	14700	10139	45100	511	232
4 HP (3 kW)	16	1.3	15843	1790	BF60-../DPE11LB4	113.1	3282	14600	9285	41300	337	153
4 HP (3 kW)	14.5	1.15	17436	1970	BF60-../DPE11LB4	125.5	3440	15300	9734	43300	337	153
4 HP (3 kW)	14.5	2.6	17436	1970	BF70-../DPE11LB4	122.7	3619	16100	10723	47700	511	232
4 HP (3 kW)	13.5	2.5	18587	2100	BF70Z-../DPE11LB4	133.0	3619	16100	10723	47700	569	258
4 HP (3 kW)	12.5	1.0	19914	2250	BF60Z-../DPE11LB4	140.8	3440	15300	9734	43300	373	169

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

4 HP (3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
4 HP (3 kW)	11.5	2.1	21684	2450	BF70Z-../DPE11LB4	154.0	3619	16100	10723	47700	569	258
4 HP (3 kW)	10.5	0.85	23897	2700	BF60Z-../DPE11LB4	169.2	3440	15300	9734	43300	373	169
4 HP (3 kW)	9.8	1.8	25667	2900	BF70Z-../DPE11LB4	179.7	3619	16100	10723	47700	569	258
4 HP (3 kW)	9.6	3.2	26110	2950	BF80-../DPE11LB4	184.5	7149	31800	16861	75000	723	328
4 HP (3 kW)	8.9	1.65	28322	3200	BF70Z-../DPE11LB4	199.7	3619	16100	10723	47700	569	258
4 HP (3 kW)	8.5	2.8	29650	3350	BF80-../DPE11LB4	209.4	7711	34300	16861	75000	723	328
4 HP (3 kW)	7.6	1.4	33190	3750	BF70Z-../DPE11LB4	233.0	3619	16100	10723	47700	569	258
4 HP (3 kW)	7.5	2.5	33633	3800	BF80-../DPE11LB4	237.1	8295	36900	16861	75000	723	328
4 HP (3 kW)	6.9	1.25	36731	4150	BF70Z-../DPE11LB4	258.7	3619	16100	10723	47700	569	258
4 HP (3 kW)	6.6	2.2	38058	4300	BF80-../DPE11LB4	269.1	8902	39600	16861	75000	723	328
4 HP (3 kW)	6.1	2.3	41156	4650	BF80Z-../DPE11LB4	291.7	8902	39600	16861	75000	827	375
4 HP (3 kW)	5.9	1.05	42926	4850	BF70Z-../DPE11LB4	301.8	3619	16100	10723	47700	569	258
4 HP (3 kW)	5.2	0.95	48679	5500	BF70Z-../DPE11LB4	341.7	3619	16100	10723	47700	569	258
4 HP (3 kW)	5.1	1.9	49564	5600	BF80Z-../DPE11LB4	347.3	8902	39600	16861	75000	827	375
4 HP (3 kW)	4.7	3.1	53104	6000	BF90Z-../DPE11LB4	382.6	9622	42800	26977	120000	1413	641
4 HP (3 kW)	4.5	0.83	55760	6300	BF70Z-../DPE11LB4	398.7	3619	16100	10723	47700	569	258
4 HP (3 kW)	4.5	1.65	55760	6300	BF80Z-../DPE11LB4	394.2	8902	39600	16861	75000	827	375
4 HP (3 kW)	4.0	1.5	62840	7100	BF80Z-../DPE11LB4	450.4	8902	39600	16861	75000	827	375
4 HP (3 kW)	3.9	2.5	64610	7300	BF90Z-../DPE11LB4	456.7	9622	42800	26977	120000	1413	641
4 HP (3 kW)	3.5	1.3	71691	8100	BF80Z-../DPE11LB4	511.2	8902	39600	16861	75000	827	375
4 HP (3 kW)	3.5	2.3	71691	8100	BF90Z-../DPE11LB4	508.5	9622	42800	26977	120000	1413	641
4 HP (3 kW)	3.1	1.15	81427	9200	BF80Z-../DPE11LB4	583.4	8902	39600	16861	75000	827	375
4 HP (3 kW)	3.0	1.95	84082	9500	BF90Z-../DPE11LB4	591.1	9622	42800	26977	120000	1413	641
4 HP (3 kW)	2.7	0.99	93818	10600	BF80Z-../DPE11LB4	662.1	8902	39600	16861	75000	827	375
4 HP (3 kW)	2.7	1.75	93818	10600	BF90Z-../DPE11LB4	658.1	9622	42800	26977	120000	1413	641
4 HP (3 kW)	2.4	1.55	105324	11900	BF90Z-../DPE11LB4	759.0	9622	42800	26977	120000	1413	641
4 HP (3 kW)	2.3	0.85	109749	12400	BF80Z-../DPE11LB4	770.6	8902	39600	16861	75000	827	375
4 HP (3 kW)	2.1	1.35	120370	13600	BF90Z-../DPE11LB4	845.1	9622	42800	26977	120000	1413	641
4 HP (3 kW)	1.9	1.4	118600	13400	BF90G50-../DPE11LB4	976.1	9622	42800	26977	120000	1435	651
4 HP (3 kW)	1.7	1.2	136301	15400	BF90G50-../DPE11LB4	1043	9622	42800	26977	120000	1435	651
4 HP (3 kW)	1.5	1.05	154003	17400	BF90G50-../DPE11LB4	1204	9622	42800	26977	120000	1435	651
4 HP (3 kW)	1.3	0.9	182325	20600	BF90G50-../DPE11LB4	1444	9622	42800	26977	120000	1435	651

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5 HP (3.7 kW)	300	2.9	1036	117	BF40-../DPE11LB4	5.87	798	3550	-	-	203	92
5 HP (3.7 kW)	280	2.1	1115	126	BF30-../DPE11LB4	6.34	540	2400	-	-	172	78
5 HP (3.7 kW)	235	2.5	1328	150	BF40-../DPE11LB4	7.62	877	3900	-	-	203	92
5 HP (3.7 kW)	220	1.8	1416	160	BF30-../DPE11LB4	8.07	596	2650	-	-	172	78
5 HP (3.7 kW)	186	2.2	1673	189	BF40-../DPE11LB4	9.48	933	4150	-	-	203	92
5 HP (3.7 kW)	177	1.6	1761	199	BF30-../DPE11LB4	9.99	641	2850	-	-	172	78
5 HP (3.7 kW)	165	3.2	1859	210	BF50-../DPE11LB4	10.68	1259	5600	-	-	269	122
5 HP (3.7 kW)	150	2.0	2080	235	BF40-../DPE11LB4	11.79	1000	4450	-	-	203	92
5 HP (3.7 kW)	137	1.45	2257	255	BF30-../DPE11LB4	12.91	686	3050	-	-	172	78
5 HP (3.7 kW)	121	2.7	2567	290	BF50-../DPE11LB4	14.65	1371	6100	-	-	269	122
5 HP (3.7 kW)	118	1.75	2611	295	BF40-../DPE11LB4	15.02	1079	4800	-	-	203	92
5 HP (3.7 kW)	110	1.3	2832	320	BF30-../DPE11LB4	16.00	731	3250	-	-	172	78
5 HP (3.7 kW)	106	2.9	2921	330	BF50-../DPE11LB4	16.70	1394	6200	-	-	269	122
5 HP (3.7 kW)	102	1.85	3054	345	BF40-../DPE11LB4	17.35	1113	4950	-	-	203	92
5 HP (3.7 kW)	100	1.35	3098	350	BF30-../DPE11LB4	17.65	742	3300	-	-	172	78

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·ft-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
5 HP (3.7 kW)	95	2.7	3275	370	BF50-../DPE11LB4	18.68	1439	6400	-	-	269	122
5 HP (3.7 kW)	93	1.75	3319	375	BF40-../DPE11LB4	19.09	1147	5100	-	-	203	92
5 HP (3.7 kW)	91	1.3	3408	385	BF30-../DPE11LB4	19.41	764	3400	-	-	172	78
5 HP (3.7 kW)	82	1.65	3806	430	BF40-../DPE11LB4	21.60	1169	5200	-	-	203	92
5 HP (3.7 kW)	81	1.2	3850	435	BF30-../DPE11LB4	21.85	787	3500	-	-	172	78
5 HP (3.7 kW)	77	2.4	4027	455	BF50-../DPE11LB4	23.14	1529	6800	-	-	269	122
5 HP (3.7 kW)	75	1.55	4160	470	BF40-../DPE11LB4	23.77	1214	5400	-	-	203	92
5 HP (3.7 kW)	74	1.15	4204	475	BF30-../DPE11LB4	24.03	809	3600	-	-	172	78
5 HP (3.7 kW)	69	2.3	4514	510	BF50-../DPE11LB4	25.88	1596	7100	-	-	269	122
5 HP (3.7 kW)	66	1.45	4691	530	BF40-../DPE11LB4	26.86	1259	5600	-	-	203	92
5 HP (3.7 kW)	63	1.05	4956	560	BF30-../DPE11LB4	28.23	854	3800	-	-	172	78
5 HP (3.7 kW)	60	1.4	5133	580	BF40-../DPE11LB4	29.55	1304	5800	-	-	203	92
5 HP (3.7 kW)	57	0.94	5399	610	BF30-../DPE11LB4	31.05	899	4000	-	-	172	78
5 HP (3.7 kW)	57	3.1	5399	610	BF60-../DPE11LB4	31.20	1978	8800	5598	24900	337	153
5 HP (3.7 kW)	56	2.0	5576	630	BF50-../DPE11LB4	31.73	1686	7500	-	-	269	122
5 HP (3.7 kW)	52	1.3	5930	670	BF40-../DPE11LB4	34.21	1349	6000	-	-	203	92
5 HP (3.7 kW)	51	0.83	6107	690	BF30-../DPE11LB4	35.00	944	4200	-	-	172	78
5 HP (3.7 kW)	51	2.9	6107	690	BF60-../DPE11LB4	34.62	2046	9100	5778	25700	337	153
5 HP (3.7 kW)	50	1.85	6196	700	BF50-../DPE11LB4	35.49	1754	7800	-	-	269	122
5 HP (3.7 kW)	47	1.2	6638	750	BF40-../DPE11LB4	37.64	1394	6200	-	-	203	92
5 HP (3.7 kW)	42.5	1.1	7346	830	BF40-../DPE11LB4	41.42	1461	6500	-	-	203	92
5 HP (3.7 kW)	42.5	2.6	7346	830	BF60-../DPE11LB4	41.60	2158	9600	6092	27100	337	153
5 HP (3.7 kW)	42	1.55	7435	840	BF50-../DPE11LB4	42.15	1911	8500	-	-	269	122
5 HP (3.7 kW)	39	1.0	7966	900	BF40-../DPE11LB4	45.56	1529	6800	-	-	203	92
5 HP (3.7 kW)	38.5	2.4	8054	910	BF60-../DPE11LB4	46.16	2226	9900	6295	28000	337	153
5 HP (3.7 kW)	37.5	1.4	8320	940	BF50-../DPE11LB4	47.14	2001	8900	-	-	269	122
5 HP (3.7 kW)	36	0.92	8674	980	BF40-../DPE11LB4	48.92	1574	7000	-	-	203	92
5 HP (3.7 kW)	33	0.84	9470	1070	BF40-../DPE11LB4	53.82	1619	7200	-	-	203	92
5 HP (3.7 kW)	32.5	2.1	9559	1080	BF60-../DPE11LB4	54.44	2360	10500	6677	29700	337	153
5 HP (3.7 kW)	31	1.15	10001	1130	BF50-../DPE11LB4	56.86	2091	9300	-	-	269	122
5 HP (3.7 kW)	29.5	1.95	10532	1190	BF60-../DPE11LB4	60.40	2495	11100	7059	31400	337	153
5 HP (3.7 kW)	28	1.05	11152	1260	BF50-../DPE11LB4	63.59	2203	9800	-	-	269	122
5 HP (3.7 kW)	24.5	0.9	12745	1440	BF50-../DPE11LB4	72.72	2405	10700	-	-	269	122
5 HP (3.7 kW)	24.5	1.6	12745	1440	BF60-../DPE11LB4	72.15	2698	12000	7644	34000	337	153
5 HP (3.7 kW)	22	0.81	14161	1600	BF50-../DPE11LB4	81.33	2540	11300	-	-	269	122
5 HP (3.7 kW)	22	1.45	14161	1600	BF60-../DPE11LB4	80.05	2833	12600	8003	35600	337	153
5 HP (3.7 kW)	22	3.3	14161	1600	BF70-../DPE11LB4	81.82	2878	12800	9285	41300	511	232
5 HP (3.7 kW)	19	1.25	16374	1850	BF60-../DPE11LB4	93.44	3035	13500	8588	38200	337	153
5 HP (3.7 kW)	18.5	2.7	16905	1910	BF70-../DPE11LB4	95.46	3147	14000	9824	43700	511	232
5 HP (3.7 kW)	17	1.1	18144	2050	BF60-../DPE11LB4	103.7	3170	14100	8970	39900	337	153
5 HP (3.7 kW)	17	2.5	18144	2050	BF70-../DPE11LB4	105.2	3305	14700	10139	45100	511	232
5 HP (3.7 kW)	16	1.05	19472	2200	BF60-../DPE11LB4	113.1	3282	14600	9285	41300	337	153
5 HP (3.7 kW)	14.5	0.96	21242	2400	BF60-../DPE11LB4	125.5	3440	15300	9734	43300	337	153
5 HP (3.7 kW)	14.5	2.2	21242	2400	BF70-../DPE11LB4	122.7	3619	16100	10723	47700	511	232
5 HP (3.7 kW)	13.5	2.0	23012	2600	BF70Z-../DPE11LB4	133.0	3619	16100	10723	47700	569	258
5 HP (3.7 kW)	12.5	0.82	24782	2800	BF60Z-../DPE11LB4	140.8	3440	15300	9734	43300	373	169
5 HP (3.7 kW)	11.5	1.7	26995	3050	BF70Z-../DPE11LB4	154.0	3619	16100	10723	47700	569	258
5 HP (3.7 kW)	11.5	3.1	26995	3050	BF80-../DPE11LB4	158.5	6519	29000	16861	75000	723	328
5 HP (3.7 kW)	9.8	1.45	31863	3600	BF70Z-../DPE11LB4	179.7	3619	16100	10723	47700	569	258
5 HP (3.7 kW)	9.6	2.6	32305	3650	BF80-../DPE11LB4	184.5	7149	31800	16861	75000	723	328
5 HP (3.7 kW)	8.9	1.3	34960	3950	BF70Z-../DPE11LB4	199.7	3619	16100	10723	47700	569	258
5 HP (3.7 kW)	8.5	2.3	36731	4150	BF80-../DPE11LB4	209.4	7711	34300	16861	75000	723	328
5 HP (3.7 kW)	7.6	1.15	40713	4600	BF70Z-../DPE11LB4	233.0	3619	16100	10723	47700	569	258
5 HP (3.7 kW)	7.5	2.0	41599	4700	BF80-../DPE11LB4	237.1	8295	36900	16861	75000	723	328
5 HP (3.7 kW)	6.9	1.0	45139	5100	BF70Z-../DPE11LB4	258.7	3619	16100	10723	47700	569	258
5 HP (3.7 kW)	6.8	3.3	45139	5100	BF90-../DPE11LB4	259.0	9622	42800	26977	120000	1281	581
5 HP (3.7 kW)	6.6	1.8	46909	5300	BF80-../DPE11LB4	269.1	8902	39600	16861	75000	723	328
5 HP (3.7 kW)	6.1	1.85	50449	5700	BF80Z-../DPE11LB4	291.7	8902	39600	16861	75000	827	375

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5 HP (3.7 kW)	5.9	0.88	52219	5900	BF70Z-../DPE11LB4	301.8	3619	16100	10723	47700	569	258
5 HP (3.7 kW)	5.9	3.1	52219	5900	BF90Z-../DPE11LB4	300.4	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	5.2	2.8	59300	6700	BF90Z-../DPE11LB4	343.6	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	5.1	1.5	61070	6900	BF80Z-../DPE11LB4	347.3	8902	39600	16861	75000	827	375
5 HP (3.7 kW)	4.7	2.5	66381	7500	BF90Z-../DPE11LB4	382.6	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	4.5	1.35	69036	7800	BF80Z-../DPE11LB4	394.2	8902	39600	16861	75000	827	375
5 HP (3.7 kW)	4.0	1.2	77887	8800	BF80Z-../DPE11LB4	450.4	8902	39600	16861	75000	827	375
5 HP (3.7 kW)	3.9	2.1	79657	9000	BF90Z-../DPE11LB4	456.7	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	3.5	1.05	88507	10000	BF80Z-../DPE11LB4	511.2	8902	39600	16861	75000	827	375
5 HP (3.7 kW)	3.5	1.85	88507	10000	BF90Z-../DPE11LB4	508.5	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	3.1	0.93	100013	11300	BF80Z-../DPE11LB4	583.4	8902	39600	16861	75000	827	375
5 HP (3.7 kW)	3.0	1.6	103554	11700	BF90Z-../DPE11LB4	591.1	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	2.7	0.81	115060	13000	BF80Z-../DPE11LB4	662.1	8902	39600	16861	75000	827	375
5 HP (3.7 kW)	2.7	1.4	115060	13000	BF90Z-../DPE11LB4	658.1	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	2.4	1.25	130106	14700	BF90Z-../DPE11LB4	759.0	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	2.1	1.1	148693	16800	BF90Z-../DPE11LB4	845.1	9622	42800	26977	120000	1413	641
5 HP (3.7 kW)	1.9	1.1	150463	17000	BF90G50-../DPE11LB4	976.1	9622	42800	26977	120000	1435	651
5 HP (3.7 kW)	1.7	0.96	170819	19300	BF90G50-../DPE11LB4	1043	9622	42800	26977	120000	1435	651
5 HP (3.7 kW)	1.5	0.84	193831	21900	BF90G50-../DPE11LB4	1204	9622	42800	26977	120000	1435	651

5.5 HP (4.0 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5.5 HP (4.0 kW)	300	2.6	1124	127	BF40-../DPE11LB4	5.87	798	3550	-	-	203	92
5.5 HP (4.0 kW)	280	1.95	1204	136	BF30-../DPE11LB4	6.34	540	2400	-	-	172	78
5.5 HP (4.0 kW)	235	2.3	1434	162	BF40-../DPE11LB4	7.62	877	3900	-	-	203	92
5.5 HP (4.0 kW)	220	1.65	1531	173	BF30-../DPE11LB4	8.07	596	2650	-	-	172	78
5.5 HP (4.0 kW)	186	2.0	1814	205	BF40-../DPE11LB4	9.48	933	4150	-	-	203	92
5.5 HP (4.0 kW)	177	1.5	1903	215	BF30-../DPE11LB4	9.99	641	2850	-	-	172	78
5.5 HP (4.0 kW)	165	2.9	2036	230	BF50-../DPE11LB4	10.68	1259	5600	-	-	269	122
5.5 HP (4.0 kW)	150	1.85	2213	250	BF40-../DPE11LB4	11.79	1000	4450	-	-	203	92
5.5 HP (4.0 kW)	137	1.35	2434	275	BF30-../DPE11LB4	12.91	686	3050	-	-	172	78
5.5 HP (4.0 kW)	121	2.5	2788	315	BF50-../DPE11LB4	14.65	1371	6100	-	-	269	122
5.5 HP (4.0 kW)	118	1.65	2832	320	BF40-../DPE11LB4	15.02	1079	4800	-	-	203	92
5.5 HP (4.0 kW)	110	1.2	3054	345	BF30-../DPE11LB4	16.00	731	3250	-	-	172	78
5.5 HP (4.0 kW)	106	2.6	3186	360	BF50-../DPE11LB4	16.70	1394	6200	-	-	269	122
5.5 HP (4.0 kW)	102	1.7	3275	370	BF40-../DPE11LB4	17.35	1113	4950	-	-	203	92
5.5 HP (4.0 kW)	100	1.25	3363	380	BF30-../DPE11LB4	17.65	742	3300	-	-	172	78
5.5 HP (4.0 kW)	95	2.5	3540	400	BF50-../DPE11LB4	18.68	1439	6400	-	-	269	122
5.5 HP (4.0 kW)	93	1.6	3629	410	BF40-../DPE11LB4	19.09	1147	5100	-	-	203	92
5.5 HP (4.0 kW)	91	1.2	3673	415	BF30-../DPE11LB4	19.41	764	3400	-	-	172	78
5.5 HP (4.0 kW)	82	1.5	4116	465	BF40-../DPE11LB4	21.60	1169	5200	-	-	203	92
5.5 HP (4.0 kW)	81	1.15	4160	470	BF30-../DPE11LB4	21.85	787	3500	-	-	172	78
5.5 HP (4.0 kW)	77	2.2	4381	495	BF50-../DPE11LB4	23.14	1529	6800	-	-	269	122
5.5 HP (4.0 kW)	75	1.45	4425	500	BF40-../DPE11LB4	23.77	1214	5400	-	-	203	92
5.5 HP (4.0 kW)	74	1.1	4514	510	BF30-../DPE11LB4	24.03	809	3600	-	-	172	78
5.5 HP (4.0 kW)	71	3.3	4691	530	BF60-../DPE11LB4	25.05	1843	8200	5216	23200	337	153
5.5 HP (4.0 kW)	69	2.1	4868	550	BF50-../DPE11LB4	25.88	1596	7100	-	-	269	122
5.5 HP (4.0 kW)	66	1.35	5045	570	BF40-../DPE11LB4	26.86	1259	5600	-	-	203	92
5.5 HP (4.0 kW)	63	0.96	5310	600	BF30-../DPE11LB4	28.23	854	3800	-	-	172	78
5.5 HP (4.0 kW)	60	1.3	5576	630	BF40-../DPE11LB4	29.55	1304	5800	-	-	203	92

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

5.5 HP (4.0 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
5.5 HP (4.0 kW)	57	0.86	5930	670	BF30-../DPE11LB4	31.05	899	4000	-	-	172	78
5.5 HP (4.0 kW)	57	2.8	5930	670	BF60-../DPE11LB4	31.20	1978	8800	5598	24900	337	153
5.5 HP (4.0 kW)	56	1.85	6019	680	BF50-../DPE11LB4	31.73	1686	7500	-	-	269	122
5.5 HP (4.0 kW)	52	1.15	6461	730	BF40-../DPE11LB4	34.21	1349	6000	-	-	203	92
5.5 HP (4.0 kW)	51	2.7	6550	740	BF60-../DPE11LB4	34.62	2046	9100	5778	25700	337	153
5.5 HP (4.0 kW)	50	1.7	6727	760	BF50-../DPE11LB4	35.49	1754	7800	-	-	269	122
5.5 HP (4.0 kW)	47	1.1	7169	810	BF40-../DPE11LB4	37.64	1394	6200	-	-	203	92
5.5 HP (4.0 kW)	42.5	1.0	7877	890	BF40-../DPE11LB4	41.42	1461	6500	-	-	203	92
5.5 HP (4.0 kW)	42.5	2.4	7877	890	BF60-../DPE11LB4	41.60	2158	9600	6092	27100	337	153
5.5 HP (4.0 kW)	42	1.45	7966	900	BF50-../DPE11LB4	42.15	1911	8500	-	-	269	122
5.5 HP (4.0 kW)	39	0.93	8585	970	BF40-../DPE11LB4	45.56	1529	6800	-	-	203	92
5.5 HP (4.0 kW)	38.5	2.3	8762	990	BF60-../DPE11LB4	46.16	2226	9900	6295	28000	337	153
5.5 HP (4.0 kW)	37.5	1.3	8939	1010	BF50-../DPE11LB4	47.14	2001	8900	-	-	269	122
5.5 HP (4.0 kW)	36	0.85	9382	1060	BF40-../DPE11LB4	48.92	1574	7000	-	-	203	92
5.5 HP (4.0 kW)	32.5	1.95	10355	1170	BF60-../DPE11LB4	54.44	2360	10500	6677	29700	337	153
5.5 HP (4.0 kW)	31	1.05	10886	1230	BF50-../DPE11LB4	56.86	2091	9300	-	-	269	122
5.5 HP (4.0 kW)	29.5	1.8	11417	1290	BF60-../DPE11LB4	60.40	2495	11100	7059	31400	337	153
5.5 HP (4.0 kW)	28	0.96	12037	1360	BF50-../DPE11LB4	63.59	2203	9800	-	-	269	122
5.5 HP (4.0 kW)	24.5	0.84	13719	1550	BF50-../DPE11LB4	72.72	2405	10700	-	-	269	122
5.5 HP (4.0 kW)	24.5	1.5	13719	1550	BF60-../DPE11LB4	72.15	2698	12000	7644	34000	337	153
5.5 HP (4.0 kW)	22	1.35	15312	1730	BF60-../DPE11LB4	80.05	2833	12600	8003	35600	337	153
5.5 HP (4.0 kW)	22	3.0	15312	1730	BF70Z-../DPE11LB4	81.82	2878	12800	9285	41300	511	232
5.5 HP (4.0 kW)	19	1.15	17701	2000	BF60-../DPE11LB4	93.44	3035	13500	8588	38200	337	153
5.5 HP (4.0 kW)	18.5	2.5	18144	2050	BF70Z-../DPE11LB4	95.46	3147	14000	9824	43700	511	232
5.5 HP (4.0 kW)	17	1.05	19472	2200	BF60-../DPE11LB4	103.7	3170	14100	8970	39900	337	153
5.5 HP (4.0 kW)	17	2.4	19472	2200	BF70Z-../DPE11LB4	105.2	3305	14700	10139	45100	511	232
5.5 HP (4.0 kW)	16	0.98	20799	2350	BF60-../DPE11LB4	113.1	3282	14600	9285	41300	337	153
5.5 HP (4.0 kW)	14.5	0.88	23012	2600	BF70Z-../DPE11LB4	125.5	3440	15300	9734	43300	337	153
5.5 HP (4.0 kW)	14.5	2.0	23012	2600	BF70Z-../DPE11LB4	122.7	3619	16100	10723	47700	511	232
5.5 HP (4.0 kW)	13.5	1.85	24782	2800	BF70Z-../DPE11LB4	133.0	3619	16100	10723	47700	569	258
5.5 HP (4.0 kW)	13	3.3	25667	2900	BF80-../DPE11LB4	139.7	6002	26700	16861	75000	723	328
5.5 HP (4.0 kW)	11.5	1.6	29207	3300	BF70Z-../DPE11LB4	154.0	3619	16100	10723	47700	569	258
5.5 HP (4.0 kW)	11.5	2.9	29207	3300	BF80-../DPE11LB4	158.5	6519	29000	16861	75000	723	328
5.5 HP (4.0 kW)	9.8	1.35	34075	3850	BF70Z-../DPE11LB4	179.7	3619	16100	10723	47700	569	258
5.5 HP (4.0 kW)	9.6	2.4	34960	3950	BF80-../DPE11LB4	184.5	7149	31800	16861	75000	723	328
5.5 HP (4.0 kW)	8.9	1.2	37616	4250	BF70Z-../DPE11LB4	199.7	3619	16100	10723	47700	569	258
5.5 HP (4.0 kW)	8.5	2.1	39386	4450	BF80-../DPE11LB4	209.4	7711	34300	16861	75000	723	328
5.5 HP (4.0 kW)	7.6	1.05	44254	5000	BF70Z-../DPE11LB4	233.0	3619	16100	10723	47700	569	258
5.5 HP (4.0 kW)	7.5	1.9	44254	5000	BF80-../DPE11LB4	237.1	8295	36900	16861	75000	723	328
5.5 HP (4.0 kW)	6.9	0.95	48679	5500	BF70Z-../DPE11LB4	258.7	3619	16100	10723	47700	569	258
5.5 HP (4.0 kW)	6.8	3.0	49564	5600	BF90-../DPE11LB4	259.0	9622	42800	26977	120000	1281	581
5.5 HP (4.0 kW)	6.6	1.65	50449	5700	BF80-../DPE11LB4	269.1	8902	39600	16861	75000	723	328
5.5 HP (4.0 kW)	6.6	3.2	50449	5700	BF90Z-../DPE11LB4	269.8	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	6.1	1.7	54875	6200	BF80Z-../DPE11LB4	291.7	8902	39600	16861	75000	827	375
5.5 HP (4.0 kW)	5.9	0.81	56645	6400	BF70Z-../DPE11LB4	301.8	3619	16100	10723	47700	569	258
5.5 HP (4.0 kW)	5.9	2.9	56645	6400	BF90Z-../DPE11LB4	300.4	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	5.2	2.5	64610	7300	BF90Z-../DPE11LB4	343.6	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	5.1	1.4	65496	7400	BF80Z-../DPE11LB4	347.3	8902	39600	16861	75000	827	375
5.5 HP (4.0 kW)	4.7	2.3	71691	8100	BF90Z-../DPE11LB4	382.6	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	4.5	1.25	74346	8400	BF80Z-../DPE11LB4	394.2	8902	39600	16861	75000	827	375
5.5 HP (4.0 kW)	4.0	1.1	84082	9500	BF80Z-../DPE11LB4	450.4	8902	39600	16861	75000	827	375
5.5 HP (4.0 kW)	3.9	1.9	85852	9700	BF90Z-../DPE11LB4	456.7	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	3.5	0.96	96473	10900	BF80Z-../DPE11LB4	511.2	8902	39600	16861	75000	827	375
5.5 HP (4.0 kW)	3.5	1.7	96473	10900	BF90Z-../DPE11LB4	508.5	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	3.1	0.85	108864	12300	BF80Z-../DPE11LB4	583.4	8902	39600	16861	75000	827	375
5.5 HP (4.0 kW)	3.0	1.45	112404	12700	BF90Z-../DPE11LB4	591.1	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	2.7	1.3	124796	14100	BF90Z-../DPE11LB4	658.1	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	2.4	1.15	140727	15900	BF90Z-../DPE11LB4	759.0	9622	42800	26977	120000	1413	641

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

5.5 HP (4.0 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5.5 HP (4.0 kW)	2.1	1.0	160198	18100	BF90Z-../DPE11LB4	845.1	9622	42800	26977	120000	1413	641
5.5 HP (4.0 kW)	1.9	1.0	163739	18500	BF90G50-../DPE11LB4	976.1	9622	42800	26977	120000	1435	651
5.5 HP (4.0 kW)	1.7	0.88	185866	21000	BF90G50-../DPE11LB4	1043	9622	42800	26977	120000	1435	651

6 HP (4.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
6 HP (4.5 kW)	300	2.3	1266	143	BF40-../DPE11LB4	5.87	798	3550	-	-	203	92
6 HP (4.5 kW)	280	1.7	1354	153	BF30-../DPE11LB4	6.34	540	2400	-	-	172	78
6 HP (4.5 kW)	230	2.0	1646	186	BF40-../DPE11LB4	7.62	877	3900	-	-	203	92
6 HP (4.5 kW)	230	3.0	1646	186	BF50-../DPE11LB4	7.71	1147	5100	-	-	269	122
6 HP (4.5 kW)	220	1.45	1726	195	BF30-../DPE11LB4	8.07	596	2650	-	-	172	78
6 HP (4.5 kW)	185	1.8	2036	230	BF40-../DPE11LB4	9.48	933	4150	-	-	203	92
6 HP (4.5 kW)	176	1.35	2124	240	BF30-../DPE11LB4	9.99	641	2850	-	-	172	78
6 HP (4.5 kW)	164	2.6	2301	260	BF50-../DPE11LB4	10.68	1259	5600	-	-	269	122
6 HP (4.5 kW)	149	1.65	2522	285	BF40-../DPE11LB4	11.79	1000	4450	-	-	203	92
6 HP (4.5 kW)	136	1.15	2788	315	BF30-../DPE11LB4	12.91	686	3050	-	-	172	78
6 HP (4.5 kW)	120	2.2	3142	355	BF50-../DPE11LB4	14.65	1371	6100	-	-	269	122
6 HP (4.5 kW)	117	1.45	3231	365	BF40-../DPE11LB4	15.02	1079	4800	-	-	203	92
6 HP (4.5 kW)	110	1.05	3452	390	BF30-../DPE11LB4	16.00	731	3250	-	-	172	78
6 HP (4.5 kW)	105	2.3	3585	405	BF50-../DPE11LB4	16.70	1394	6200	-	-	269	122
6 HP (4.5 kW)	101	1.5	3762	425	BF40-../DPE11LB4	17.35	1113	4950	-	-	203	92
6 HP (4.5 kW)	100	1.15	3762	425	BF30-../DPE11LB4	17.65	742	3300	-	-	172	78
6 HP (4.5 kW)	94	2.2	4027	455	BF50-../DPE11LB4	18.68	1439	6400	-	-	269	122
6 HP (4.5 kW)	94	3.3	4027	455	BF60-../DPE11LB4	18.81	1709	7600	4833	21500	337	153
6 HP (4.5 kW)	92	1.45	4116	465	BF40-../DPE11LB4	19.09	1147	5100	-	-	203	92
6 HP (4.5 kW)	91	1.05	4160	470	BF30-../DPE11LB4	19.41	764	3400	-	-	172	78
6 HP (4.5 kW)	82	1.35	4602	520	BF40-../DPE11LB4	21.60	1169	5200	-	-	203	92
6 HP (4.5 kW)	81	1.0	4691	530	BF30-../DPE11LB4	21.85	787	3500	-	-	172	78
6 HP (4.5 kW)	78	3.0	4868	550	BF60-../DPE11LB4	22.58	1798	8000	5081	22600	337	153
6 HP (4.5 kW)	76	2.0	4956	560	BF50-../DPE11LB4	23.14	1529	6800	-	-	269	122
6 HP (4.5 kW)	74	1.25	5133	580	BF40-../DPE11LB4	23.77	1214	5400	-	-	203	92
6 HP (4.5 kW)	73	0.95	5133	580	BF30-../DPE11LB4	24.03	809	3600	-	-	172	78
6 HP (4.5 kW)	70	2.8	5399	610	BF60-../DPE11LB4	25.05	1843	8200	5216	23200	337	153
6 HP (4.5 kW)	68	1.85	5576	630	BF50-../DPE11LB4	25.88	1596	7100	-	-	269	122
6 HP (4.5 kW)	66	1.2	5753	650	BF40-../DPE11LB4	26.86	1259	5600	-	-	203	92
6 HP (4.5 kW)	62	0.83	6107	690	BF30-../DPE11LB4	28.23	854	3800	-	-	172	78
6 HP (4.5 kW)	60	1.15	6284	710	BF40-../DPE11LB4	29.55	1304	5800	-	-	203	92
6 HP (4.5 kW)	57	2.5	6638	750	BF60-../DPE11LB4	31.20	1978	8800	5598	24900	337	153
6 HP (4.5 kW)	56	1.65	6727	760	BF50-../DPE11LB4	31.73	1686	7500	-	-	269	122
6 HP (4.5 kW)	52	1.05	7258	820	BF40-../DPE11LB4	34.21	1349	6000	-	-	203	92
6 HP (4.5 kW)	51	2.4	7435	840	BF60-../DPE11LB4	34.62	2046	9100	5778	25700	337	153
6 HP (4.5 kW)	49.5	1.5	7612	860	BF50-../DPE11LB4	35.49	1754	7800	-	-	269	122
6 HP (4.5 kW)	46.5	0.97	8143	920	BF40-../DPE11LB4	37.64	1394	6200	-	-	203	92
6 HP (4.5 kW)	42.5	0.89	8939	1010	BF40-../DPE11LB4	41.42	1461	6500	-	-	203	92
6 HP (4.5 kW)	42.5	2.1	8939	1010	BF60-../DPE11LB4	41.60	2158	9600	6092	27100	337	153
6 HP (4.5 kW)	42	1.25	9028	1020	BF50-../DPE11LB4	42.15	1911	8500	-	-	269	122
6 HP (4.5 kW)	38.5	0.81	9824	1110	BF40-../DPE11LB4	45.56	1529	6800	-	-	203	92
6 HP (4.5 kW)	38	1.95	10001	1130	BF60-../DPE11LB4	46.16	2226	9900	6295	28000	337	153
6 HP (4.5 kW)	37.5	1.15	10090	1140	BF50-../DPE11LB4	47.14	2001	8900	-	-	269	122
6 HP (4.5 kW)	32.5	1.75	11683	1320	BF60-../DPE11LB4	54.44	2360	10500	6677	29700	337	153

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

6 HP (4.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
6 HP (4.5 kW)	31	0.94	12214	1380	BF50-../DPE11LB4	56.86	2091	9300	-	-	269	122
6 HP (4.5 kW)	29	1.55	13099	1480	BF60-../DPE11LB4	60.40	2495	11100	7059	31400	337	153
6 HP (4.5 kW)	28	0.85	13542	1530	BF50-../DPE11LB4	63.59	2203	9800	-	-	269	122
6 HP (4.5 kW)	24.5	1.3	15489	1750	BF60-../DPE11LB4	72.15	2698	12000	7644	34000	337	153
6 HP (4.5 kW)	24.5	3.0	15489	1750	BF70-../DPE11LB4	72.26	2698	12000	8902	39600	511	232
6 HP (4.5 kW)	22	1.2	17259	1950	BF60-../DPE11LB4	80.05	2833	12600	8003	35600	337	153
6 HP (4.5 kW)	21.5	2.6	17613	1990	BF70-../DPE11LB4	81.82	2878	12800	9285	41300	511	232
6 HP (4.5 kW)	19	1.0	19914	2250	BF60-../DPE11LB4	93.44	3035	13500	8588	38200	337	153
6 HP (4.5 kW)	18.5	2.3	20357	2300	BF70-../DPE11LB4	95.46	3147	14000	9824	43700	511	232
6 HP (4.5 kW)	17	0.92	22127	2500	BF60-../DPE11LB4	103.7	3170	14100	8970	39900	337	153
6 HP (4.5 kW)	17	2.1	22127	2500	BF70-../DPE11LB4	105.2	3305	14700	10139	45100	511	232
6 HP (4.5 kW)	15.5	0.84	24340	2750	BF60-../DPE11LB4	113.1	3282	14600	9285	41300	337	153
6 HP (4.5 kW)	14.5	1.75	26110	2950	BF70-../DPE11LB4	122.7	3619	16100	10723	47700	511	232
6 HP (4.5 kW)	14.5	3.2	26110	2950	BF80-../DPE11LB4	122.4	5508	24500	16861	75000	723	328
6 HP (4.5 kW)	13.5	1.65	27880	3150	BF70Z-../DPE11LB4	133.0	3619	16100	10723	47700	569	258
6 HP (4.5 kW)	13	2.9	29207	3300	BF80-../DPE11LB4	139.7	6002	26700	16861	75000	723	328
6 HP (4.5 kW)	11.5	1.4	32748	3700	BF70Z-../DPE11LB4	154.0	3619	16100	10723	47700	569	258
6 HP (4.5 kW)	11.5	2.6	32748	3700	BF80-../DPE11LB4	158.5	6519	29000	16861	75000	723	328
6 HP (4.5 kW)	9.8	1.2	38501	4350	BF70Z-../DPE11LB4	179.7	3619	16100	10723	47700	569	258
6 HP (4.5 kW)	9.5	2.1	39828	4500	BF80-../DPE11LB4	184.5	7149	31800	16861	75000	723	328
6 HP (4.5 kW)	8.8	1.05	42926	4850	BF70Z-../DPE11LB4	199.7	3619	16100	10723	47700	569	258
6 HP (4.5 kW)	8.4	1.85	45139	5100	BF80-../DPE11LB4	209.4	7711	34300	16861	75000	723	328
6 HP (4.5 kW)	7.6	0.93	49564	5600	BF70Z-../DPE11LB4	233.0	3619	16100	10723	47700	569	258
6 HP (4.5 kW)	7.6	3.0	49564	5600	BF90-../DPE11LB4	232.6	8970	39900	26595	118300	1281	581
6 HP (4.5 kW)	7.4	1.65	51334	5800	BF80-../DPE11LB4	237.1	8295	36900	16861	75000	723	328
6 HP (4.5 kW)	6.8	0.83	55760	6300	BF70Z-../DPE11LB4	258.7	3619	16100	10723	47700	569	258
6 HP (4.5 kW)	6.8	2.7	55760	6300	BF90-../DPE11LB4	259.0	9622	42800	26977	120000	1281	581
6 HP (4.5 kW)	6.6	1.45	57530	6500	BF80-../DPE11LB4	269.1	8902	39600	16861	75000	723	328
6 HP (4.5 kW)	6.5	2.8	58415	6600	BF90Z-../DPE11LB4	269.8	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	6.0	1.5	62840	7100	BF80Z-../DPE11LB4	291.7	8902	39600	16861	75000	827	375
6 HP (4.5 kW)	5.9	2.6	63725	7200	BF90Z-../DPE11LB4	300.4	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	5.1	1.25	74346	8400	BF80Z-../DPE11LB4	347.3	8902	39600	16861	75000	827	375
6 HP (4.5 kW)	5.1	2.2	74346	8400	BF90Z-../DPE11LB4	343.6	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	4.6	2.0	82312	9300	BF90Z-../DPE11LB4	382.6	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	4.5	1.1	84082	9500	BF80Z-../DPE11LB4	394.2	8902	39600	16861	75000	827	375
6 HP (4.5 kW)	3.9	0.95	97358	11000	BF80Z-../DPE11LB4	450.4	8902	39600	16861	75000	827	375
6 HP (4.5 kW)	3.9	1.7	97358	11000	BF90Z-../DPE11LB4	456.7	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	3.5	0.86	107979	12200	BF80Z-../DPE11LB4	511.2	8902	39600	16861	75000	827	375
6 HP (4.5 kW)	3.5	1.5	107979	12200	BF90Z-../DPE11LB4	508.5	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	3.0	1.3	126566	14300	BF90Z-../DPE11LB4	591.1	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	2.7	1.15	140727	15900	BF90Z-../DPE11LB4	658.1	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	2.4	1.05	158428	17900	BF90Z-../DPE11LB4	759.0	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	2.1	0.91	180555	20400	BF90Z-../DPE11LB4	845.1	9622	42800	26977	120000	1413	641
6 HP (4.5 kW)	1.8	0.83	196487	22200	BF90G50-../DPE11LB4	976.1	9622	42800	26977	120000	1435	651

7.5 HP (5.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
7.5 HP (5.5 kW)	330	3.1	1407	159	BF50-../DPE13XA4	5.38	1012	4500	-	-	302	137
7.5 HP (5.5 kW)	230	2.5	1991	225	BF50-../DPE13XA4	7.71	1147	5100	-	-	302	137
7.5 HP (5.5 kW)	172	3.3	2699	305	BF60-../DPE13XA4	10.31	1461	6500	4136	18400	375	170

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

7.5 HP (5.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
7.5 HP (5.5 kW)	166	2.1	2788	315	BF50-../DPE13XA4	10.68	1259	5600	-	-	302	137
7.5 HP (5.5 kW)	125	2.8	3717	420	BF60-../DPE13XA4	14.24	1596	7100	4496	20000	375	170
7.5 HP (5.5 kW)	121	1.85	3806	430	BF50-../DPE13XA4	14.65	1371	6100	-	-	302	137
7.5 HP (5.5 kW)	106	1.9	4381	495	BF50-../DPE13XA4	16.70	1394	6200	-	-	302	137
7.5 HP (5.5 kW)	105	2.9	4425	500	BF60-../DPE13XA4	16.96	1641	7300	4631	20600	375	170
7.5 HP (5.5 kW)	95	1.8	4868	550	BF50-../DPE13XA4	18.68	1439	6400	-	-	302	137
7.5 HP (5.5 kW)	95	2.8	4868	550	BF60-../DPE13XA4	18.81	1709	7600	4833	21500	375	170
7.5 HP (5.5 kW)	79	2.5	5841	660	BF60-../DPE13XA4	22.58	1798	8000	5081	22600	375	170
7.5 HP (5.5 kW)	77	1.65	6019	680	BF50-../DPE13XA4	23.14	1529	6800	-	-	302	137
7.5 HP (5.5 kW)	71	2.4	6461	730	BF60-../DPE13XA4	25.05	1843	8200	5216	23200	375	170
7.5 HP (5.5 kW)	69	1.55	6727	760	BF50-../DPE13XA4	25.88	1596	7100	-	-	302	137
7.5 HP (5.5 kW)	57	2.1	8143	920	BF60-../DPE13XA4	31.20	1978	8800	5598	24900	375	170
7.5 HP (5.5 kW)	56	1.35	8231	930	BF50-../DPE13XA4	31.73	1686	7500	-	-	302	137
7.5 HP (5.5 kW)	52	1.95	8939	1010	BF60-../DPE13XA4	34.62	2046	9100	5778	25700	375	170
7.5 HP (5.5 kW)	50	1.25	9293	1050	BF50-../DPE13XA4	35.49	1754	7800	-	-	302	137
7.5 HP (5.5 kW)	43	1.75	10798	1220	BF60-../DPE13XA4	41.60	2158	9600	6092	27100	375	170
7.5 HP (5.5 kW)	42	1.05	11063	1250	BF50-../DPE13XA4	42.15	1911	8500	-	-	302	137
7.5 HP (5.5 kW)	38.5	1.65	12037	1360	BF60-../DPE13XA4	46.16	2226	9900	6295	28000	375	170
7.5 HP (5.5 kW)	38	0.94	12214	1380	BF50-../DPE13XA4	47.14	2001	8900	-	-	302	137
7.5 HP (5.5 kW)	33	1.45	14073	1590	BF60-../DPE13XA4	54.44	2360	10500	6677	29700	375	170
7.5 HP (5.5 kW)	32	3.2	14515	1640	BF70-../DPE13XA4	55.79	2293	10200	8093	36000	549	249
7.5 HP (5.5 kW)	29.5	1.3	15754	1780	BF60-../DPE13XA4	60.40	2495	11100	7059	31400	375	170
7.5 HP (5.5 kW)	29	2.9	16020	1810	BF70-../DPE13XA4	61.94	2428	10800	8408	37400	549	249
7.5 HP (5.5 kW)	25	1.1	18587	2100	BF60-../DPE13XA4	72.15	2698	12000	7644	34000	375	170
7.5 HP (5.5 kW)	24.5	2.5	18587	2100	BF70-../DPE13XA4	72.26	2698	12000	8902	39600	549	249
7.5 HP (5.5 kW)	22.5	1.0	20357	2300	BF60-../DPE13XA4	80.05	2833	12600	8003	35600	375	170
7.5 HP (5.5 kW)	22	2.2	20799	2350	BF70-../DPE13XA4	81.82	2878	12800	9285	41300	549	249
7.5 HP (5.5 kW)	19	0.84	24340	2750	BF60-../DPE13XA4	93.44	3035	13500	8588	38200	375	170
7.5 HP (5.5 kW)	19	1.9	24340	2750	BF70-../DPE13XA4	95.46	3147	14000	9824	43700	549	249
7.5 HP (5.5 kW)	17	1.7	26995	3050	BF70-../DPE13XA4	105.2	3305	14700	10139	45100	549	249
7.5 HP (5.5 kW)	16.5	3.0	27880	3150	BF80-../DPE13XA4	107.9	5036	22400	16254	72300	761	345
7.5 HP (5.5 kW)	14.5	1.45	31863	3600	BF70-../DPE13XA4	122.7	3619	16100	10723	47700	549	249
7.5 HP (5.5 kW)	14.5	2.6	31863	3600	BF80-../DPE13XA4	122.4	5508	24500	16861	75000	761	345
7.5 HP (5.5 kW)	13.5	1.35	34075	3850	BF70Z-../DPE13XA4	133.0	3619	16100	10723	47700	604	274
7.5 HP (5.5 kW)	13	2.4	35403	4000	BF80-../DPE13XA4	139.7	6002	26700	16861	75000	761	345
7.5 HP (5.5 kW)	11.5	1.15	40271	4550	BF70Z-../DPE13XA4	154.0	3619	16100	10723	47700	604	274
7.5 HP (5.5 kW)	11.5	2.1	40271	4550	BF80-../DPE13XA4	158.5	6519	29000	16861	75000	761	345
7.5 HP (5.5 kW)	10	3.2	46024	5200	BF90-../DPE13XA4	178.6	7509	33400	23987	106700	1316	597
7.5 HP (5.5 kW)	9.9	0.98	46909	5300	BF70Z-../DPE13XA4	179.7	3619	16100	10723	47700	604	274
7.5 HP (5.5 kW)	9.6	1.75	47794	5400	BF80-../DPE13XA4	184.5	7149	31800	16861	75000	761	345
7.5 HP (5.5 kW)	9.0	2.9	51334	5800	BF90-../DPE13XA4	198.8	8093	36000	25021	111300	1316	597
7.5 HP (5.5 kW)	8.9	0.88	52219	5900	BF70Z-../DPE13XA4	199.7	3619	16100	10723	47700	604	274
7.5 HP (5.5 kW)	8.5	1.55	53990	6100	BF80-../DPE13XA4	209.4	7711	34300	16861	75000	761	345
7.5 HP (5.5 kW)	7.7	2.5	60185	6800	BF90-../DPE13XA4	232.6	8970	39900	26595	118300	1316	597
7.5 HP (5.5 kW)	7.5	1.35	61955	7000	BF80-../DPE13XA4	237.1	8295	36900	16861	75000	761	345
7.5 HP (5.5 kW)	6.9	2.2	67266	7600	BF70Z-../DPE13XA4	259.0	9622	42800	26977	120000	1316	597
7.5 HP (5.5 kW)	6.6	1.2	69921	7900	BF80-../DPE13XA4	269.1	8902	39600	16861	75000	761	345
7.5 HP (5.5 kW)	6.6	2.3	69921	7900	BF90Z-../DPE13XA4	269.8	9622	42800	26977	120000	1451	658
7.5 HP (5.5 kW)	6.1	1.2	76116	8600	BF80Z-../DPE13XA4	291.7	8902	39600	16861	75000	862	391
7.5 HP (5.5 kW)	5.9	2.1	78772	8900	BF90Z-../DPE13XA4	300.4	9622	42800	26977	120000	1451	658
7.5 HP (5.5 kW)	5.2	1.85	89393	10100	BF90Z-../DPE13XA4	343.6	9622	42800	26977	120000	1451	658
7.5 HP (5.5 kW)	5.1	1.05	90278	10200	BF80Z-../DPE13XA4	347.3	8902	39600	16861	75000	862	391
7.5 HP (5.5 kW)	4.7	1.65	98243	11100	BF90Z-../DPE13XA4	382.6	9622	42800	26977	120000	1451	658
7.5 HP (5.5 kW)	4.5	0.91	102669	11600	BF80Z-../DPE13XA4	394.2	8902	39600	16861	75000	862	391
7.5 HP (5.5 kW)	4.0	0.8	115945	13100	BF80Z-../DPE13XA4	450.4	8902	39600	16861	75000	862	391
7.5 HP (5.5 kW)	3.9	1.4	118600	13400	BF90Z-../DPE13XA4	456.7	9622	42800	26977	120000	1451	658
7.5 HP (5.5 kW)	3.5	1.25	132761	15000	BF90Z-../DPE13XA4	508.5	9622	42800	26977	120000	1451	658
7.5 HP (5.5 kW)	3.0	1.05	154888	17500	BF90Z-../DPE13XA4	591.1	9622	42800	26977	120000	1451	658

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

7.5 HP (5.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
7.5 HP (5.5 kW)	2.7	0.95	171704	19400	BF90Z-../DPE13XA4	658.1	9622	42800	26977	120000	1451	658
7.5 HP (5.5 kW)	2.4	0.85	192946	21800	BF90Z-../DPE13XA4	759.0	9622	42800	26977	120000	1451	658

10 HP (7.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
10 HP (7.5 kW)	330	2.3	1903	215	BF50-../DPE13XA4	5.38	1012	4500	-	-	302	137
10 HP (7.5 kW)	230	1.8	2744	310	BF50-../DPE13XA4	7.71	1147	5100	-	-	302	137
10 HP (7.5 kW)	230	2.8	2744	310	BF60-../DPE13XA4	7.74	1349	6000	3799	16900	375	170
10 HP (7.5 kW)	172	2.4	3673	415	BF60-../DPE13XA4	10.31	1461	6500	4136	18400	375	170
10 HP (7.5 kW)	166	1.55	3806	430	BF50-../DPE13XA4	10.68	1259	5600	-	-	302	137
10 HP (7.5 kW)	124	2.1	5045	570	BF60-../DPE13XA4	14.24	1596	7100	4496	20000	375	170
10 HP (7.5 kW)	121	1.35	5222	590	BF50-../DPE13XA4	14.65	1371	6100	-	-	302	137
10 HP (7.5 kW)	106	1.4	5930	670	BF50-../DPE13XA4	16.70	1394	6200	-	-	302	137
10 HP (7.5 kW)	105	2.1	6019	680	BF60-../DPE13XA4	16.96	1641	7300	4631	20600	375	170
10 HP (7.5 kW)	95	1.35	6638	750	BF50-../DPE13XA4	18.68	1439	6400	-	-	302	137
10 HP (7.5 kW)	94	2.0	6727	760	BF60-../DPE13XA4	18.81	1709	7600	4833	21500	375	170
10 HP (7.5 kW)	79	1.85	7966	900	BF60-../DPE13XA4	22.58	1798	8000	5081	22600	375	170
10 HP (7.5 kW)	77	1.2	8231	930	BF50-../DPE13XA4	23.14	1529	6800	-	-	302	137
10 HP (7.5 kW)	71	1.75	8851	1000	BF60-../DPE13XA4	25.05	1843	8200	5216	23200	375	170
10 HP (7.5 kW)	69	1.15	9116	1030	BF50-../DPE13XA4	25.88	1596	7100	-	-	302	137
10 HP (7.5 kW)	57	1.5	11063	1250	BF60-../DPE13XA4	31.20	1978	8800	5598	24900	375	170
10 HP (7.5 kW)	56	1.0	11240	1270	BF50-../DPE13XA4	31.73	1686	7500	-	-	302	137
10 HP (7.5 kW)	51	1.4	12391	1400	BF60-../DPE13XA4	34.62	2046	9100	5778	25700	375	170
10 HP (7.5 kW)	50	0.91	12657	1430	BF50-../DPE13XA4	35.49	1754	7800	-	-	302	137
10 HP (7.5 kW)	42.5	1.25	14869	1680	BF60-../DPE13XA4	41.60	2158	9600	6092	27100	375	170
10 HP (7.5 kW)	41.5	3.0	15223	1720	BF70-../DPE13XA4	43.02	1956	8700	7374	32800	549	249
10 HP (7.5 kW)	38.5	1.2	16462	1860	BF60-../DPE13XA4	46.16	2226	9900	6295	28000	375	170
10 HP (7.5 kW)	37	2.7	17082	1930	BF70-../DPE13XA4	47.82	2046	9100	7644	34000	549	249
10 HP (7.5 kW)	32.5	1.05	19472	2200	BF60-../DPE13XA4	54.44	2360	10500	6677	29700	375	170
10 HP (7.5 kW)	32	2.4	19472	2200	BF70-../DPE13XA4	55.79	2293	10200	8093	36000	549	249
10 HP (7.5 kW)	29.5	0.96	21242	2400	BF60-../DPE13XA4	60.40	2495	11100	7059	31400	375	170
10 HP (7.5 kW)	28.5	2.1	22127	2500	BF70-../DPE13XA4	61.94	2428	10800	8408	37400	549	249
10 HP (7.5 kW)	24.5	1.8	25667	2900	BF70-../DPE13XA4	72.26	2698	12000	8902	39600	549	249
10 HP (7.5 kW)	22	1.6	28765	3250	BF70-../DPE13XA4	81.82	2878	12800	9285	41300	549	249
10 HP (7.5 kW)	21.5	2.9	29207	3300	BF80-../DPE13XA4	83.16	4136	18400	14635	65100	761	345
10 HP (7.5 kW)	19	2.5	33190	3750	BF80-../DPE13XA4	94.38	4564	20300	15399	68500	761	345
10 HP (7.5 kW)	18.5	1.35	34075	3850	BF70-../DPE13XA4	95.46	3147	14000	9824	43700	549	249
10 HP (7.5 kW)	17	1.25	37173	4200	BF70-../DPE13XA4	105.2	3305	14700	10139	45100	549	249
10 HP (7.5 kW)	16.5	2.2	38058	4300	BF80-../DPE13XA4	107.9	5036	22400	16254	72300	761	345
10 HP (7.5 kW)	14.5	1.05	43369	4900	BF70-../DPE13XA4	122.7	3619	16100	10723	47700	549	249
10 HP (7.5 kW)	14.5	1.95	43369	4900	BF80-../DPE13XA4	122.4	5508	24500	16861	75000	761	345
10 HP (7.5 kW)	13.5	0.98	46909	5300	BF70Z-../DPE13XA4	133.0	3619	16100	10723	47700	604	274
10 HP (7.5 kW)	13	1.75	48679	5500	BF80-../DPE13XA4	139.7	6002	26700	16861	75000	761	345
10 HP (7.5 kW)	13	3.1	48679	5500	BF90-../DPE13XA4	139.1	6227	27700	21649	96300	1316	597
10 HP (7.5 kW)	11.5	0.84	54875	6200	BF70Z-../DPE13XA4	154.0	3619	16100	10723	47700	604	274
10 HP (7.5 kW)	11.5	1.55	54875	6200	BF80-../DPE13XA4	158.5	6519	29000	16861	75000	761	345
10 HP (7.5 kW)	11.5	2.7	54875	6200	BF90-../DPE13XA4	154.8	6767	30100	22661	100800	1316	597
10 HP (7.5 kW)	9.9	2.3	63725	7200	BF90-../DPE13XA4	178.6	7509	33400	23987	106700	1316	597
10 HP (7.5 kW)	9.6	1.3	65496	7400	BF80-../DPE13XA4	184.5	7149	31800	16861	75000	761	345
10 HP (7.5 kW)	8.9	2.1	70806	8000	BF90-../DPE13XA4	198.8	8093	36000	25021	111300	1316	597

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

10 HP (7.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb.f	N	lb.f	N		
10 HP (7.5 kW)	8.5	1.15	74346	8400	BF80-../DPE13XA4	209.4	7711	34300	16861	75000	761	345
10 HP (7.5 kW)	7.6	1.8	83197	9400	BF90-../DPE13XA4	232.6	8970	39900	26595	118300	1316	597
10 HP (7.5 kW)	7.5	1.0	84082	9500	BF80-../DPE13XA4	237.1	8295	36900	16861	75000	761	345
10 HP (7.5 kW)	6.9	1.65	91163	10300	BF90-../DPE13XA4	259.0	9622	42800	26977	120000	1316	597
10 HP (7.5 kW)	6.6	0.88	95588	10800	BF80-../DPE13XA4	269.1	8902	39600	16861	75000	761	345
10 HP (7.5 kW)	6.6	1.7	95588	10800	BF90Z-../DPE13XA4	269.8	9622	42800	26977	120000	1451	658
10 HP (7.5 kW)	6.1	0.9	103554	11700	BF80Z-../DPE13XA4	291.7	8902	39600	16861	75000	862	391
10 HP (7.5 kW)	5.9	1.55	107094	12100	BF90Z-../DPE13XA4	300.4	9622	42800	26977	120000	1451	658
10 HP (7.5 kW)	5.2	1.35	121255	13700	BF90Z-../DPE13XA4	343.6	9622	42800	26977	120000	1451	658
10 HP (7.5 kW)	4.7	1.2	134531	15200	BF90Z-../DPE13XA4	382.6	9622	42800	26977	120000	1451	658
10 HP (7.5 kW)	3.9	1.0	161969	18300	BF90Z-../DPE13XA4	456.7	9622	42800	26977	120000	1451	658
10 HP (7.5 kW)	3.5	0.91	180555	20400	BF90Z-../DPE13XA4	508.5	9622	42800	26977	120000	1451	658

12.75 HP (9.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb.f	N	lb.f	N		
12.75 HP (9.5 kW)	345	2.9	2301	260	BF60-../DPE16LB4	5.22	1169	5200	3327	14800	454	206
12.75 HP (9.5 kW)	335	1.85	2390	270	BF50-../DPE16LB4	5.38	1012	4500	-	-	381	173
12.75 HP (9.5 kW)	235	1.45	3408	385	BF50-../DPE16LB4	7.71	1147	5100	-	-	381	173
12.75 HP (9.5 kW)	230	2.2	3452	390	BF60-../DPE16LB4	7.74	1349	6000	3799	16900	454	206
12.75 HP (9.5 kW)	173	1.95	4602	520	BF60-../DPE16LB4	10.31	1461	6500	4136	18400	454	206
12.75 HP (9.5 kW)	167	1.25	4779	540	BF50-../DPE16LB4	10.68	1259	5600	-	-	381	173
12.75 HP (9.5 kW)	125	1.65	6373	720	BF60-../DPE16LB4	14.24	1596	7100	4496	20000	454	206
12.75 HP (9.5 kW)	122	1.05	6550	740	BF50-../DPE16LB4	14.65	1371	6100	-	-	381	173
12.75 HP (9.5 kW)	107	1.15	7435	840	BF50-../DPE16LB4	16.70	1394	6200	-	-	381	173
12.75 HP (9.5 kW)	105	1.7	7612	860	BF60-../DPE16LB4	16.96	1641	7300	4631	20600	454	206
12.75 HP (9.5 kW)	96	1.05	8320	940	BF60-../DPE16LB4	18.68	1439	6400	-	-	381	173
12.75 HP (9.5 kW)	95	1.6	8408	950	BF60-../DPE16LB4	18.81	1709	7600	4833	21500	454	206
12.75 HP (9.5 kW)	79	1.45	10090	1140	BF60-../DPE16LB4	22.58	1798	8000	5081	22600	454	206
12.75 HP (9.5 kW)	77	0.95	10355	1170	BF50-../DPE16LB4	23.14	1529	6800	-	-	381	173
12.75 HP (9.5 kW)	72	1.4	11152	1260	BF60-../DPE16LB4	25.05	1843	8200	5216	23200	454	206
12.75 HP (9.5 kW)	69	0.89	11594	1310	BF50-../DPE16LB4	25.88	1596	7100	-	-	381	173
12.75 HP (9.5 kW)	58	1.2	13807	1560	BF60-../DPE16LB4	31.20	1978	8800	5598	24900	454	206
12.75 HP (9.5 kW)	57	0.8	14073	1590	BF50-../DPE16LB4	31.73	1686	7500	-	-	381	173
12.75 HP (9.5 kW)	56	3.2	14338	1620	BF70-../DPE16LB4	31.84	1731	7700	6744	30000	637	289
12.75 HP (9.5 kW)	52	1.15	15400	1740	BF60-../DPE16LB4	34.62	2046	9100	5778	25700	454	206
12.75 HP (9.5 kW)	48.5	2.8	16551	1870	BF70-../DPE16LB4	36.88	1776	7900	6992	31100	637	289
12.75 HP (9.5 kW)	43	1.0	18587	2100	BF60-../DPE16LB4	41.60	2158	9600	6092	27100	454	206
12.75 HP (9.5 kW)	41.5	2.4	19029	2150	BF70-../DPE16LB4	43.02	1956	8700	7374	32800	637	289
12.75 HP (9.5 kW)	39	0.97	20357	2300	BF60-../DPE16LB4	46.16	2226	9900	6295	28000	454	206
12.75 HP (9.5 kW)	37.5	2.2	21242	2400	BF70-../DPE16LB4	47.82	2046	9100	7644	34000	637	289
12.75 HP (9.5 kW)	33.5	3.3	23897	2700	BF80-../DPE16LB4	53.86	3147	14000	12544	55800	849	385
12.75 HP (9.5 kW)	33	0.85	23897	2700	BF60-../DPE16LB4	54.44	2360	10500	6677	29700	454	206
12.75 HP (9.5 kW)	32	1.85	24782	2800	BF70-../DPE16LB4	55.79	2293	10200	8093	36000	637	289
12.75 HP (9.5 kW)	29	1.7	27437	3100	BF70-../DPE16LB4	61.94	2428	10800	8408	37400	637	289
12.75 HP (9.5 kW)	29	3.0	27437	3100	BF80-../DPE16LB4	61.55	3327	14800	13061	58100	849	385
12.75 HP (9.5 kW)	25.5	2.7	31420	3550	BF80-../DPE16LB4	69.86	3574	15900	13623	60600	849	385
12.75 HP (9.5 kW)	25	1.45	31863	3600	BF70-../DPE16LB4	72.26	2698	12000	8902	39600	637	289
12.75 HP (9.5 kW)	22	1.25	36288	4100	BF70-../DPE16LB4	81.82	2878	12800	9285	41300	637	289
12.75 HP (9.5 kW)	21.5	2.3	37173	4200	BF80-../DPE16LB4	83.16	4136	18400	14635	65100	849	385
12.75 HP (9.5 kW)	19	1.1	42041	4750	BF70-../DPE16LB4	95.46	3147	14000	9824	43700	637	289

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

12.75 HP (9.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
12.75 HP (9.5 kW)	19	2.0	42041	4750	BF80-../DPE16LB4	94.38	4564	20300	15399	68500	849	385
12.75 HP (9.5 kW)	17	0.98	46909	5300	BF70-../DPE16LB4	105.2	3305	14700	10139	45100	637	289
12.75 HP (9.5 kW)	17	3.2	46909	5300	BF90-../DPE16LB4	107.5	5013	22300	19536	86900	1393	632
12.75 HP (9.5 kW)	16.5	1.75	47794	5400	BF80-../DPE16LB4	107.9	5036	22400	16254	72300	849	385
12.75 HP (9.5 kW)	15	0.87	53104	6000	BF70-../DPE16LB4	122.7	3619	16100	10723	47700	637	289
12.75 HP (9.5 kW)	15	1.6	53104	6000	BF80-../DPE16LB4	122.4	5508	24500	16861	75000	849	385
12.75 HP (9.5 kW)	15	2.8	53104	6000	BF90-../DPE16LB4	119.7	5508	24500	20413	90800	1393	632
12.75 HP (9.5 kW)	13	1.4	61070	6900	BF80-../DPE16LB4	139.7	6002	26700	16861	75000	849	385
12.75 HP (9.5 kW)	13	2.4	61070	6900	BF90-../DPE16LB4	139.1	6227	27700	21649	96300	1393	632
12.75 HP (9.5 kW)	11.5	1.2	69036	7800	BF80-../DPE16LB4	158.5	6519	29000	16861	75000	849	385
12.75 HP (9.5 kW)	11.5	2.2	69036	7800	BF90-../DPE16LB4	154.8	6767	30100	22661	100800	1393	632
12.75 HP (9.5 kW)	10	1.85	79657	9000	BF90-../DPE16LB4	178.6	7509	33400	23987	106700	1393	632
12.75 HP (9.5 kW)	9.7	1.0	82312	9300	BF80-../DPE16LB4	184.5	7149	31800	16861	75000	849	385
12.75 HP (9.5 kW)	9.0	1.7	88507	10000	BF90-../DPE16LB4	198.8	8093	36000	25021	111300	1393	632
12.75 HP (9.5 kW)	8.6	0.9	92933	10500	BF80-../DPE16LB4	209.4	7711	34300	16861	75000	849	385
12.75 HP (9.5 kW)	7.7	1.45	103554	11700	BF90-../DPE16LB4	232.6	8970	39900	26595	118300	1393	632
12.75 HP (9.5 kW)	7.6	0.8	105324	11900	BF80-../DPE16LB4	237.1	8295	36900	16861	75000	849	385
12.75 HP (9.5 kW)	6.9	1.3	115945	13100	BF90-../DPE16LB4	259.0	9622	42800	26977	120000	1393	632
12.75 HP (9.5 kW)	6.6	1.35	121255	13700	BF90Z-../DPE16LB4	269.8	9622	42800	26977	120000	1530	694
12.75 HP (9.5 kW)	6.0	1.25	133646	15100	BF90Z-../DPE16LB4	300.4	9622	42800	26977	120000	1530	694
12.75 HP (9.5 kW)	5.2	1.05	154003	17400	BF90Z-../DPE16LB4	343.6	9622	42800	26977	120000	1530	694
12.75 HP (9.5 kW)	4.7	0.96	170819	19300	BF90Z-../DPE16LB4	382.6	9622	42800	26977	120000	1530	694
12.75 HP (9.5 kW)	3.9	0.8	205337	23200	BF90Z-../DPE16LB4	456.7	9622	42800	26977	120000	1530	694

15 HP (11 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
15 HP (11 kW)	345	2.5	2655	300	BF60-../DPE16LB4	5.22	1169	5200	3327	14800	454	206
15 HP (11 kW)	335	1.6	2744	310	BF50-../DPE16LB4	5.38	1012	4500	-	-	381	173
15 HP (11 kW)	235	1.25	3939	445	BF50-../DPE16LB4	7.71	1147	5100	-	-	381	173
15 HP (11 kW)	230	1.9	4027	455	BF60-../DPE16LB4	7.74	1349	6000	3799	16900	454	206
15 HP (11 kW)	173	1.7	5310	600	BF60-../DPE16LB4	10.31	1461	6500	4136	18400	454	206
15 HP (11 kW)	167	1.1	5487	620	BF50-../DPE16LB4	10.68	1259	5600	-	-	381	173
15 HP (11 kW)	125	1.4	7435	840	BF60-../DPE16LB4	14.24	1596	7100	4496	20000	454	206
15 HP (11 kW)	122	0.92	7612	860	BF50-../DPE16LB4	14.65	1371	6100	-	-	381	173
15 HP (11 kW)	107	0.97	8674	980	BF50-../DPE16LB4	16.70	1394	6200	-	-	381	173
15 HP (11 kW)	105	1.45	8851	1000	BF60-../DPE16LB4	16.96	1641	7300	4631	20600	454	206
15 HP (11 kW)	96	0.92	9647	1090	BF50-../DPE16LB4	18.68	1439	6400	-	-	381	173
15 HP (11 kW)	95	1.4	9736	1100	BF60-../DPE16LB4	18.81	1709	7600	4833	21500	454	206
15 HP (11 kW)	79	1.25	11683	1320	BF60-../DPE16LB4	22.58	1798	8000	5081	22600	454	206
15 HP (11 kW)	77	0.81	12037	1360	BF50-../DPE16LB4	23.14	1529	6800	-	-	381	173
15 HP (11 kW)	72	1.2	12834	1450	BF60-../DPE16LB4	25.05	1843	8200	5216	23200	454	206
15 HP (11 kW)	66	3.3	14073	1590	BF70-../DPE16LB4	27.29	1574	7000	6385	28400	637	289
15 HP (11 kW)	58	1.05	16020	1810	BF60-../DPE16LB4	31.20	1978	8800	5598	24900	454	206
15 HP (11 kW)	56	2.8	16551	1870	BF70-../DPE16LB4	31.84	1731	7700	6744	30000	637	289
15 HP (11 kW)	52	0.99	17701	2000	BF60-../DPE16LB4	34.62	2046	9100	5778	25700	454	206
15 HP (11 kW)	48.5	2.4	19029	2150	BF70-../DPE16LB4	36.88	1776	7900	6992	31100	637	289
15 HP (11 kW)	43	0.89	21242	2400	BF60-../DPE16LB4	41.60	2158	9600	6092	27100	454	206
15 HP (11 kW)	41.5	2.1	22127	2500	BF70-../DPE16LB4	43.02	1956	8700	7374	32800	637	289
15 HP (11 kW)	39	0.84	23454	2650	BF60-../DPE16LB4	46.16	2226	9900	6295	28000	454	206
15 HP (11 kW)	38	3.1	24340	2750	BF80-../DPE16LB4	47.46	3012	13400	12072	53700	849	385

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

15 HP (11 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
15 HP (11 kW)	37.5	1.85	24782	2800	BF70-../DPE16LB4	47.82	2046	9100	7644	34000	637	289
15 HP (11 kW)	33.5	2.9	27437	3100	BF80-../DPE16LB4	53.86	3147	14000	12544	55800	849	385
15 HP (11 kW)	32	1.6	28765	3250	BF70-../DPE16LB4	55.79	2293	10200	8093	36000	637	289
15 HP (11 kW)	29	1.45	31863	3600	BF70-../DPE16LB4	61.94	2428	10800	8408	37400	637	289
15 HP (11 kW)	29	2.6	31863	3600	BF80-../DPE16LB4	61.55	3327	14800	13061	58100	849	385
15 HP (11 kW)	25.5	2.3	36288	4100	BF80-../DPE16LB4	69.86	3574	15900	13623	60600	849	385
15 HP (11 kW)	25	1.25	37173	4200	BF70-../DPE16LB4	72.26	2698	12000	8902	39600	637	289
15 HP (11 kW)	22	1.1	42041	4750	BF70-../DPE16LB4	81.82	2878	12800	9285	41300	637	289
15 HP (11 kW)	21.5	1.95	42926	4850	BF80-../DPE16LB4	83.16	4136	18400	14635	65100	849	385
15 HP (11 kW)	20	3.2	46024	5200	BF90-../DPE16LB4	90.02	4249	18900	18120	80600	1393	632
15 HP (11 kW)	19	0.95	48679	5500	BF70-../DPE16LB4	95.46	3147	14000	9824	43700	637	289
15 HP (11 kW)	19	1.75	48679	5500	BF80-../DPE16LB4	94.38	4564	20300	15399	68500	849	385
15 HP (11 kW)	17	0.85	53990	6100	BF70-../DPE16LB4	105.2	3305	14700	10139	45100	637	289
15 HP (11 kW)	17	2.8	53990	6100	BF90-../DPE16LB4	107.5	5013	22300	19536	86900	1393	632
15 HP (11 kW)	16.5	1.5	55760	6300	BF80-../DPE16LB4	107.9	5036	22400	16254	72300	849	385
15 HP (11 kW)	15	1.35	61955	7000	BF80-../DPE16LB4	122.4	5508	24500	16861	75000	849	385
15 HP (11 kW)	15	2.4	61955	7000	BF90-../DPE16LB4	119.7	5508	24500	20413	90800	1393	632
15 HP (11 kW)	13	1.2	70806	8000	BF80-../DPE16LB4	139.7	6002	26700	16861	75000	849	385
15 HP (11 kW)	13	2.1	70806	8000	BF90-../DPE16LB4	139.1	6227	27700	21649	96300	1393	632
15 HP (11 kW)	11.5	1.05	80542	9100	BF80-../DPE16LB4	158.5	6519	29000	16861	75000	849	385
15 HP (11 kW)	11.5	1.85	80542	9100	BF90-../DPE16LB4	154.8	6767	30100	22661	100800	1393	632
15 HP (11 kW)	10	1.6	92933	10500	BF90-../DPE16LB4	178.6	7509	33400	23987	106700	1393	632
15 HP (11 kW)	9.7	0.88	95588	10800	BF80-../DPE16LB4	184.5	7149	31800	16861	75000	849	385
15 HP (11 kW)	9.0	1.45	102669	11600	BF90-../DPE16LB4	198.8	8093	36000	25021	111300	1393	632
15 HP (11 kW)	7.7	1.25	120370	13600	BF90-../DPE16LB4	232.6	8970	39900	26595	118300	1393	632
15 HP (11 kW)	6.9	1.1	134531	15200	BF90-../DPE16LB4	259.0	9622	42800	26977	120000	1393	632
15 HP (11 kW)	6.6	1.15	140727	15900	BF90Z-../DPE16LB4	269.8	9622	42800	26977	120000	1530	694
15 HP (11 kW)	6.0	1.05	154888	17500	BF90Z-../DPE16LB4	300.4	9622	42800	26977	120000	1530	694
15 HP (11 kW)	5.2	0.92	178785	20200	BF90Z-../DPE16LB4	343.6	9622	42800	26977	120000	1530	694
15 HP (11 kW)	4.7	0.83	197372	22300	BF90Z-../DPE16LB4	382.6	9622	42800	26977	120000	1530	694

16.8 HP (12.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
16.8 HP (12.5 kW)	340	2.2	3098	350	BF60-../DPE16LB4	5.22	1169	5200	3327	14800	454	206
16.8 HP (12.5 kW)	330	1.4	3186	360	BF50-../DPE16LB4	5.38	1012	4500	-	-	381	173
16.8 HP (12.5 kW)	230	1.1	4514	510	BF50-../DPE16LB4	7.71	1147	5100	-	-	381	173
16.8 HP (12.5 kW)	230	1.7	4514	510	BF60-../DPE16LB4	7.74	1349	6000	3799	16900	454	206
16.8 HP (12.5 kW)	172	1.45	6107	690	BF60-../DPE16LB4	10.31	1461	6500	4136	18400	454	206
16.8 HP (12.5 kW)	166	0.95	6284	710	BF50-../DPE16LB4	10.68	1259	5600	-	-	381	173
16.8 HP (12.5 kW)	125	1.25	8408	950	BF60-../DPE16LB4	14.24	1596	7100	4496	20000	454	206
16.8 HP (12.5 kW)	121	0.81	8674	980	BF50-../DPE16LB4	14.65	1371	6100	-	-	381	173
16.8 HP (12.5 kW)	106	0.85	9913	1120	BF50-../DPE16LB4	16.70	1394	6200	-	-	381	173
16.8 HP (12.5 kW)	105	1.3	10001	1130	BF60-../DPE16LB4	16.96	1641	7300	4631	20600	454	206
16.8 HP (12.5 kW)	95	0.8	11063	1250	BF50-../DPE16LB4	18.68	1439	6400	-	-	381	173
16.8 HP (12.5 kW)	95	1.2	11063	1250	BF60-../DPE16LB4	18.81	1709	7600	4833	21500	454	206
16.8 HP (12.5 kW)	85	3.3	12391	1400	BF70-../DPE16LB4	21.04	1439	6400	5912	26300	637	289
16.8 HP (12.5 kW)	79	1.1	13365	1510	BF60-../DPE16LB4	22.58	1798	8000	5081	22600	454	206
16.8 HP (12.5 kW)	73	3.1	14427	1630	BF70-../DPE16LB4	24.55	1574	7000	6227	27700	637	289
16.8 HP (12.5 kW)	71	1.05	14869	1680	BF60-../DPE16LB4	25.05	1843	8200	5216	23200	454	206
16.8 HP (12.5 kW)	65	2.8	16197	1830	BF70-../DPE16LB4	27.29	1574	7000	6385	28400	637	289

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

16.8 HP (12.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
16.8 HP (12.5 kW)	57	0.93	18144	2050	BF60-../DPE16LB4	31.20	1978	8800	5598	24900	454	206
16.8 HP (12.5 kW)	56	2.5	18587	2100	BF70-../DPE16LB4	31.84	1731	7700	6744	30000	637	289
16.8 HP (12.5 kW)	52	0.88	19914	2250	BF60-../DPE16LB4	34.62	2046	9100	5778	25700	454	206
16.8 HP (12.5 kW)	48	2.1	21684	2450	BF70-../DPE16LB4	36.88	1776	7900	6992	31100	637	289
16.8 HP (12.5 kW)	46.5	3.2	22569	2550	BF80-../DPE16LB4	38.14	2743	12200	11308	50300	849	385
16.8 HP (12.5 kW)	41.5	1.8	25225	2850	BF70-../DPE16LB4	43.02	1956	8700	7374	32800	637	289
16.8 HP (12.5 kW)	37.5	1.65	27880	3150	BF70-../DPE16LB4	47.82	2046	9100	7644	34000	637	289
16.8 HP (12.5 kW)	37.5	2.7	27880	3150	BF80-../DPE16LB4	47.46	3012	13400	12072	53700	849	385
16.8 HP (12.5 kW)	33	2.5	31863	3600	BF80-../DPE16LB4	53.86	3147	14000	12544	55800	849	385
16.8 HP (12.5 kW)	32	1.4	32748	3700	BF70-../DPE16LB4	55.79	2293	10200	8093	36000	637	289
16.8 HP (12.5 kW)	29	1.25	36288	4100	BF70-../DPE16LB4	61.94	2428	10800	8408	37400	637	289
16.8 HP (12.5 kW)	29	2.3	36288	4100	BF80-../DPE16LB4	61.55	3327	14800	13061	58100	849	385
16.8 HP (12.5 kW)	25.5	2.0	41156	4650	BF80-../DPE16LB4	69.86	3574	15900	13623	60600	849	385
16.8 HP (12.5 kW)	24.5	1.05	42926	4850	BF70-../DPE16LB4	72.26	2698	12000	8902	39600	637	289
16.8 HP (12.5 kW)	22	0.96	47794	5400	BF70-../DPE16LB4	81.82	2878	12800	9285	41300	637	289
16.8 HP (12.5 kW)	22	3.1	47794	5400	BF90-../DPE16LB4	80.85	3934	17500	17423	77500	1393	632
16.8 HP (12.5 kW)	21.5	1.75	48679	5500	BF80-../DPE16LB4	83.16	4136	18400	14635	65100	849	385
16.8 HP (12.5 kW)	20	2.8	52219	5900	BF90-../DPE16LB4	90.02	4249	18900	18120	80600	1393	632
16.8 HP (12.5 kW)	19	0.84	54875	6200	BF70-../DPE16LB4	95.46	3147	14000	9824	43700	637	289
16.8 HP (12.5 kW)	19	1.55	54875	6200	BF80-../DPE16LB4	94.38	4564	20300	15399	68500	849	385
16.8 HP (12.5 kW)	16.5	1.3	63725	7200	BF80-../DPE16LB4	107.9	5036	22400	16254	72300	849	385
16.8 HP (12.5 kW)	16.5	2.3	63725	7200	BF90-../DPE16LB4	107.5	5013	22300	19536	86900	1393	632
16.8 HP (12.5 kW)	15	2.1	69921	7900	BF90-../DPE16LB4	119.7	5508	24500	20413	90800	1393	632
16.8 HP (12.5 kW)	14.5	1.15	72576	8200	BF80-../DPE16LB4	122.4	5508	24500	16861	75000	849	385
16.8 HP (12.5 kW)	13	1.05	80542	9100	BF80-../DPE16LB4	139.7	6002	26700	16861	75000	849	385
16.8 HP (12.5 kW)	13	1.85	80542	9100	BF90-../DPE16LB4	139.1	6227	27700	21649	96300	1393	632
16.8 HP (12.5 kW)	11.5	0.92	91163	10300	BF80-../DPE16LB4	158.5	6519	29000	16861	75000	849	385
16.8 HP (12.5 kW)	11.5	1.65	91163	10300	BF90-../DPE16LB4	154.8	6767	30100	22661	100800	1393	632
16.8 HP (12.5 kW)	10	1.4	105324	11900	BF90-../DPE16LB4	178.6	7509	33400	23987	106700	1393	632
16.8 HP (12.5 kW)	9.0	1.25	116830	13200	BF90-../DPE16LB4	198.8	8093	36000	25021	111300	1393	632
16.8 HP (12.5 kW)	7.7	1.1	137187	15500	BF90-../DPE16LB4	232.6	8970	39900	26595	118300	1393	632
16.8 HP (12.5 kW)	6.9	0.97	153118	17300	BF90-../DPE16LB4	259.0	9622	42800	26977	120000	1393	632
16.8 HP (12.5 kW)	6.6	1.05	159313	18000	BF90Z-../DPE16LB4	269.8	9622	42800	26977	120000	1530	694
16.8 HP (12.5 kW)	5.9	0.92	178785	20200	BF90Z-../DPE16LB4	300.4	9622	42800	26977	120000	1530	694
16.8 HP (12.5 kW)	5.2	0.81	202682	22900	BF90Z-../DPE16LB4	343.6	9622	42800	26977	120000	1530	694

20 HP (15 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
20 HP (15 kW)	345	1.8	3673	415	BF60-../DPE16XB4	5.22	1169	5200	3327	14800	476	216
20 HP (15 kW)	335	1.15	3762	425	BF50-../DPE16XB4	5.38	1012	4500	-	-	403	183
20 HP (15 kW)	235	0.94	5310	600	BF50-../DPE16XB4	7.71	1147	5100	-	-	403	183
20 HP (15 kW)	230	1.4	5487	620	BF60-../DPE16XB4	7.74	1349	6000	3799	16900	476	216
20 HP (15 kW)	173	1.25	7258	820	BF60-../DPE16XB4	10.31	1461	6500	4136	18400	476	216
20 HP (15 kW)	167	0.8	7523	850	BF50-../DPE16XB4	10.68	1259	5600	-	-	403	183
20 HP (15 kW)	125	1.05	10090	1140	BF60-../DPE16XB4	14.24	1596	7100	4496	20000	476	216
20 HP (15 kW)	120	3.1	10532	1190	BF70-../DPE16XB4	14.90	1326	5900	5395	24000	659	299
20 HP (15 kW)	105	1.05	12037	1360	BF60-../DPE16XB4	16.96	1641	7300	4631	20600	476	216
20 HP (15 kW)	103	3.1	12303	1390	BF70-../DPE16XB4	17.39	1394	6200	5620	25000	659	299
20 HP (15 kW)	95	1.0	13276	1500	BF60-../DPE16XB4	18.81	1709	7600	4833	21500	476	216
20 HP (15 kW)	85	2.7	14869	1680	BF70-../DPE16XB4	21.04	1439	6400	5912	26300	659	299

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

20 HP (15 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
20 HP (15 kW)	79	0.91	16020	1810	BF60-../DPE16XB4	22.58	1798	8000	5081	22600	476	216
20 HP (15 kW)	73	2.6	17347	1960	BF70-../DPE16XB4	24.55	1574	7000	6227	27700	659	299
20 HP (15 kW)	72	0.88	17524	1980	BF60-../DPE16XB4	25.05	1843	8200	5216	23200	476	216
20 HP (15 kW)	66	2.4	19029	2150	BF70-../DPE16XB4	27.29	1574	7000	6385	28400	659	299
20 HP (15 kW)	59	3.0	21242	2400	BF80-../DPE16XB4	30.21	2765	12300	10768	47900	871	395
20 HP (15 kW)	56	2.0	22569	2550	BF70-../DPE16XB4	31.84	1731	7700	6744	30000	659	299
20 HP (15 kW)	53	2.9	23897	2700	BF80-../DPE16XB4	33.61	2630	11700	10881	48400	871	395
20 HP (15 kW)	48.5	1.75	26110	2950	BF70-../DPE16XB4	36.88	1776	7900	6992	31100	659	299
20 HP (15 kW)	47	2.7	26552	3000	BF80-../DPE16XB4	38.14	2743	12200	11308	50300	871	395
20 HP (15 kW)	41.5	1.5	30535	3450	BF70-../DPE16XB4	43.02	1956	8700	7374	32800	659	299
20 HP (15 kW)	38	2.3	33190	3750	BF80-../DPE16XB4	47.46	3012	13400	12072	53700	871	395
20 HP (15 kW)	37.5	1.35	33633	3800	BF70-../DPE16XB4	47.82	2046	9100	7644	34000	659	299
20 HP (15 kW)	33.5	2.1	37616	4250	BF80-../DPE16XB4	53.86	3147	14000	12544	55800	871	395
20 HP (15 kW)	32	1.15	39386	4450	BF70-../DPE16XB4	55.79	2293	10200	8093	36000	659	299
20 HP (15 kW)	29	1.05	43369	4900	BF70-../DPE16XB4	61.94	2428	10800	8408	37400	659	299
20 HP (15 kW)	29	1.9	43369	4900	BF80-../DPE16XB4	61.55	3327	14800	13061	58100	871	395
20 HP (15 kW)	28.5	3.1	44254	5000	BF90-../DPE16XB4	63.49	3552	15800	16186	72000	1415	642
20 HP (15 kW)	25.5	1.7	49564	5600	BF80-../DPE16XB4	69.86	3574	15900	13623	60600	871	395
20 HP (15 kW)	25.5	2.8	49564	5600	BF90-../DPE16XB4	70.69	3777	16800	16793	74700	1415	642
20 HP (15 kW)	25	0.91	50449	5700	BF70-../DPE16XB4	72.26	2698	12000	8902	39600	659	299
20 HP (15 kW)	22.5	2.6	55760	6300	BF90-../DPE16XB4	80.85	3934	17500	17423	77500	1415	642
20 HP (15 kW)	22	0.8	57530	6500	BF70-../DPE16XB4	81.82	2878	12800	9285	41300	659	299
20 HP (15 kW)	21.5	1.45	58415	6600	BF80-../DPE16XB4	83.16	4136	18400	14635	65100	871	395
20 HP (15 kW)	20	2.4	62840	7100	BF90-../DPE16XB4	90.02	4249	18900	18120	80600	1415	642
20 HP (15 kW)	19	1.25	66381	7500	BF80-../DPE16XB4	94.38	4564	20300	15399	68500	871	395
20 HP (15 kW)	17	2.0	74346	8400	BF90-../DPE16XB4	107.5	5013	22300	19536	86900	1415	642
20 HP (15 kW)	16.5	1.1	76116	8600	BF80-../DPE16XB4	107.9	5036	22400	16254	72300	871	395
20 HP (15 kW)	15	1.0	84082	9500	BF80-../DPE16XB4	122.4	5508	24500	16861	75000	871	395
20 HP (15 kW)	15	1.75	84082	9500	BF90-../DPE16XB4	119.7	5508	24500	20413	90800	1415	642
20 HP (15 kW)	13	0.86	97358	11000	BF80-../DPE16XB4	139.7	6002	26700	16861	75000	871	395
20 HP (15 kW)	13	1.55	97358	11000	BF90-../DPE16XB4	139.1	6227	27700	21649	96300	1415	642
20 HP (15 kW)	11.5	1.35	109749	12400	BF90-../DPE16XB4	154.8	6767	30100	22661	100800	1415	642
20 HP (15 kW)	10	1.15	126566	14300	BF90-../DPE16XB4	178.6	7509	33400	23987	106700	1415	642
20 HP (15 kW)	9.0	1.05	140727	15900	BF90-../DPE16XB4	198.8	8093	36000	25021	111300	1415	642
20 HP (15 kW)	7.7	0.9	164624	18600	BF90-../DPE16XB4	232.6	8970	39900	26595	118300	1415	642
20 HP (15 kW)	6.9	0.81	183210	20700	BF90-../DPE16XB4	259.0	9622	42800	26977	120000	1415	642
20 HP (15 kW)	6.6	0.85	192061	21700	BF90Z-../DPE16XB4	269.8	9622	42800	26977	120000	1552	704

25 HP (18.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
25 HP (18.5 kW)	345	1.5	4514	510	BF60-../DPE18LB4	5.22	1169	5200	3327	14800	580	263
25 HP (18.5 kW)	230	1.15	6727	760	BF60-../DPE18LB4	7.74	1349	6000	3799	16900	580	263
25 HP (18.5 kW)	173	0.99	9028	1020	BF60-../DPE18LB4	10.31	1461	6500	4136	18400	580	263
25 HP (18.5 kW)	173	2.5	9028	1020	BF70-../DPE18LB4	10.32	1034	4600	4204	18700	750	340
25 HP (18.5 kW)	156	3.2	10001	1130	BF80-../DPE18LB4	11.42	2001	8900	7239	32200	961	436
25 HP (18.5 kW)	148	2.5	10532	1190	BF70-../DPE18LB4	12.04	1102	4900	4429	19700	750	340
25 HP (18.5 kW)	125	0.84	12480	1410	BF60-../DPE18LB4	14.24	1596	7100	4496	20000	580	263
25 HP (18.5 kW)	120	2.5	13011	1470	BF70-../DPE18LB4	14.90	1326	5900	5395	24000	750	340
25 HP (18.5 kW)	108	3.3	14427	1630	BF80-../DPE18LB4	16.49	2563	11400	9307	41400	961	436
25 HP (18.5 kW)	105	0.86	14869	1680	BF60-../DPE18LB4	16.96	1641	7300	4631	20600	580	263

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

25 HP (18.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
25 HP (18.5 kW)	103	2.5	15135	1710	BF70-../DPE18LB4	17.39	1394	6200	5620	25000	750	340
25 HP (18.5 kW)	95	0.82	16374	1850	BF60-../DPE18LB4	18.81	1709	7600	4833	21500	580	263
25 HP (18.5 kW)	85	2.2	18144	2050	BF70-../DPE18LB4	21.04	1439	6400	5912	26300	750	340
25 HP (18.5 kW)	77	2.8	19914	2250	BF80-../DPE18LB4	23.29	2653	11800	10094	44900	961	436
25 HP (18.5 kW)	73	2.1	21242	2400	BF70-../DPE18LB4	24.55	1574	7000	6227	27700	750	340
25 HP (18.5 kW)	66	1.95	23454	2650	BF70-../DPE18LB4	27.29	1574	7000	6385	28400	750	340
25 HP (18.5 kW)	59	2.4	26110	2950	BF80-../DPE18LB4	30.21	2765	12300	10768	47900	961	436
25 HP (18.5 kW)	56	1.65	27880	3150	BF70-../DPE18LB4	31.84	1731	7700	6744	30000	750	340
25 HP (18.5 kW)	53	2.4	29207	3300	BF80-../DPE18LB4	33.61	2630	11700	10881	48400	961	436
25 HP (18.5 kW)	48.5	1.45	31863	3600	BF70-../DPE18LB4	36.88	1776	7900	6992	31100	750	340
25 HP (18.5 kW)	47	2.2	33190	3750	BF80-../DPE18LB4	38.14	2743	12200	11308	50300	961	436
25 HP (18.5 kW)	41.5	1.2	37616	4250	BF70-../DPE18LB4	43.02	1956	8700	7374	32800	750	340
25 HP (18.5 kW)	38.5	3.1	40271	4550	BF90-../DPE18LB4	46.43	3102	13800	14725	65500	1517	688
25 HP (18.5 kW)	38	1.85	40713	4600	BF80-../DPE18LB4	47.46	3012	13400	12072	53700	961	436
25 HP (18.5 kW)	37.5	1.1	41599	4700	BF70-../DPE18LB4	47.82	2046	9100	7644	34000	750	340
25 HP (18.5 kW)	34.5	2.8	45139	5100	BF90-../DPE18LB4	51.70	3282	14600	15242	67800	1517	688
25 HP (18.5 kW)	33.5	1.7	46024	5200	BF80-../DPE18LB4	53.86	3147	14000	12544	55800	961	436
25 HP (18.5 kW)	32	0.95	48679	5500	BF70-../DPE18LB4	55.79	2293	10200	8093	36000	750	340
25 HP (18.5 kW)	29	0.87	53104	6000	BF70-../DPE18LB4	61.94	2428	10800	8408	37400	750	340
25 HP (18.5 kW)	29	1.55	53104	6000	BF80-../DPE18LB4	61.55	3327	14800	13061	58100	961	436
25 HP (18.5 kW)	28.5	2.5	53990	6100	BF90-../DPE18LB4	63.49	3552	15800	16186	72000	1517	688
25 HP (18.5 kW)	25.5	1.4	61070	6900	BF80-../DPE18LB4	69.86	3574	15900	13623	60600	961	436
25 HP (18.5 kW)	25.5	2.3	61070	6900	BF90-../DPE18LB4	70.69	3777	16800	16793	74700	1517	688
25 HP (18.5 kW)	22.5	2.1	69036	7800	BF90-../DPE18LB4	80.85	3934	17500	17423	77500	1517	688
25 HP (18.5 kW)	21.5	1.15	72576	8200	BF80-../DPE18LB4	83.16	4136	18400	14635	65100	961	436
25 HP (18.5 kW)	20	1.9	77887	8800	BF90-../DPE18LB4	90.02	4249	18900	18120	80600	1517	688
25 HP (18.5 kW)	19	1.05	81427	9200	BF80-../DPE18LB4	94.38	4564	20300	15399	68500	961	436
25 HP (18.5 kW)	17	1.65	91163	10300	BF90-../DPE18LB4	107.5	5013	22300	19536	86900	1517	688
25 HP (18.5 kW)	16.5	0.89	94703	10700	BF80-../DPE18LB4	107.9	5036	22400	16254	72300	961	436
25 HP (18.5 kW)	15	0.81	103554	11700	BF80-../DPE18LB4	122.4	5508	24500	16861	75000	961	436
25 HP (18.5 kW)	15	1.45	103554	11700	BF90-../DPE18LB4	119.7	5508	24500	20413	90800	1517	688
25 HP (18.5 kW)	13	1.25	119485	13500	BF90-../DPE18LB4	139.1	6227	27700	21649	96300	1517	688
25 HP (18.5 kW)	11.5	1.1	135416	15300	BF90-../DPE18LB4	154.8	6767	30100	22661	100800	1517	688
25 HP (18.5 kW)	10	0.95	155773	17600	BF90-../DPE18LB4	178.6	7509	33400	23987	106700	1517	688
25 HP (18.5 kW)	9.0	0.86	173475	19600	BF90-../DPE18LB4	198.8	8093	36000	25021	111300	1517	688

30 HP (22 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
30 HP (22 kW)	173	2.1	10709	1210	BF70-../DPE18XB4	10.32	1034	4600	4204	18700	789	358
30 HP (22 kW)	156	2.7	11860	1340	BF80-../DPE18XB4	11.42	2001	8900	7239	32200	1001	454
30 HP (22 kW)	148	2.1	12480	1410	BF70-../DPE18XB4	12.04	1102	4900	4429	19700	789	358
30 HP (22 kW)	120	2.1	15489	1750	BF70-../DPE18XB4	14.90	1326	5900	5395	24000	789	358
30 HP (22 kW)	108	2.7	17170	1940	BF80-../DPE18XB4	16.49	2563	11400	9307	41400	1001	454
30 HP (22 kW)	103	2.1	17701	2000	BF70-../DPE18XB4	17.39	1394	6200	5620	25000	789	358
30 HP (22 kW)	85	1.9	21684	2450	BF70-../DPE18XB4	21.04	1439	6400	5912	26300	789	358
30 HP (22 kW)	77	2.3	23897	2700	BF80-../DPE18XB4	23.29	2653	11800	10094	44900	1001	454
30 HP (22 kW)	73	1.75	25225	2850	BF70-../DPE18XB4	24.55	1574	7000	6227	27700	789	358
30 HP (22 kW)	66	1.65	27880	3150	BF70-../DPE18XB4	27.29	1574	7000	6385	28400	789	358
30 HP (22 kW)	59	2.0	31420	3550	BF80-../DPE18XB4	30.21	2765	12300	10768	47900	1001	454
30 HP (22 kW)	56	1.4	33190	3750	BF70-../DPE18XB4	31.84	1731	7700	6744	30000	789	358

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

30 HP (22 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb.f	N	lb.f	N		
30 HP (22 kW)	53	1.95	34960	3950	BF80-../DPE18XB4	33.61	2630	11700	10881	48400	1001	454
30 HP (22 kW)	53	3.3	34960	3950	BF90-../DPE18XB4	33.71	2675	11900	13331	59300	1556	706
30 HP (22 kW)	48.5	1.2	38058	4300	BF70-../DPE18XB4	36.88	1776	7900	6992	31100	789	358
30 HP (22 kW)	47.5	3.0	38943	4400	BF90-../DPE18XB4	37.54	2855	12700	13826	61500	1556	706
30 HP (22 kW)	47	1.8	39386	4450	BF80-../DPE18XB4	38.14	2743	12200	11308	50300	1001	454
30 HP (22 kW)	41.5	1.05	44254	5000	BF70-../DPE18XB4	43.02	1956	8700	7374	32800	789	358
30 HP (22 kW)	38.5	2.6	47794	5400	BF90-../DPE18XB4	46.43	3102	13800	14725	65500	1556	706
30 HP (22 kW)	38	1.55	48679	5500	BF80-../DPE18XB4	47.46	3012	13400	12072	53700	1001	454
30 HP (22 kW)	37.5	0.93	49564	5600	BF70-../DPE18XB4	47.82	2046	9100	7644	34000	789	358
30 HP (22 kW)	34.5	2.4	53104	6000	BF90-../DPE18XB4	51.70	3282	14600	15242	67800	1556	706
30 HP (22 kW)	33.5	1.45	54875	6200	BF80-../DPE18XB4	53.86	3147	14000	12544	55800	1001	454
30 HP (22 kW)	32	0.8	57530	6500	BF70-../DPE18XB4	55.79	2293	10200	8093	36000	789	358
30 HP (22 kW)	29	1.3	63725	7200	BF80-../DPE18XB4	61.55	3327	14800	13061	58100	1001	454
30 HP (22 kW)	28.5	2.1	64610	7300	BF90-../DPE18XB4	63.49	3552	15800	16186	72000	1556	706
30 HP (22 kW)	25.5	1.15	72576	8200	BF80-../DPE18XB4	69.86	3574	15900	13623	60600	1001	454
30 HP (22 kW)	25.5	1.95	72576	8200	BF90-../DPE18XB4	70.69	3777	16800	16793	74700	1556	706
30 HP (22 kW)	22.5	1.8	82312	9300	BF90-../DPE18XB4	80.85	3934	17500	17423	77500	1556	706
30 HP (22 kW)	21.5	0.98	85852	9700	BF80-../DPE18XB4	83.16	4136	18400	14635	65100	1001	454
30 HP (22 kW)	20	1.6	92933	10500	BF90-../DPE18XB4	90.02	4249	18900	18120	80600	1556	706
30 HP (22 kW)	19	0.86	97358	11000	BF80-../DPE18XB4	94.38	4564	20300	15399	68500	1001	454
30 HP (22 kW)	17	1.35	108864	12300	BF90-../DPE18XB4	107.5	5013	22300	19536	86900	1556	706
30 HP (22 kW)	15	1.2	123910	14000	BF90-../DPE18XB4	119.7	5508	24500	20413	90800	1556	706
30 HP (22 kW)	13	1.05	142497	16100	BF90-../DPE18XB4	139.1	6227	27700	21649	96300	1556	706
30 HP (22 kW)	11.5	0.92	161084	18200	BF90-../DPE18XB4	154.8	6767	30100	22661	100800	1556	706
30 HP (22 kW)	10	0.8	185866	21000	BF90-../DPE18XB4	178.6	7509	33400	23987	106700	1556	706

40 HP (30 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb.f	N	lb.f	N		
40 HP (30 kW)	173	1.5	14604	1650	BF70-../DPE20XA4	10.32	1034	4600	4204	18700	1131	513
40 HP (30 kW)	157	2.0	16108	1820	BF80-../DPE20XA4	11.42	2001	8900	7239	32200	1343	609
40 HP (30 kW)	149	1.55	16993	1920	BF70-../DPE20XA4	12.04	1102	4900	4429	19700	1131	513
40 HP (30 kW)	120	1.55	20799	2350	BF70-../DPE20XA4	14.90	1326	5900	5395	24000	1131	513
40 HP (30 kW)	109	2.0	23012	2600	BF80-../DPE20XA4	16.49	2563	11400	9307	41400	1343	609
40 HP (30 kW)	103	1.55	24340	2750	BF70-../DPE20XA4	17.39	1394	6200	5620	25000	1131	513
40 HP (30 kW)	85	1.35	29650	3350	BF70-../DPE20XA4	21.04	1439	6400	5912	26300	1131	513
40 HP (30 kW)	77	1.7	32748	3700	BF80-../DPE20XA4	23.29	2653	11800	10094	44900	1343	609
40 HP (30 kW)	75	3.0	33633	3800	BF90-../DPE20XA4	23.95	2495	11100	12207	54300	1894	859
40 HP (30 kW)	73	1.3	34518	3900	BF70-../DPE20XA4	24.55	1574	7000	6227	27700	1131	513
40 HP (30 kW)	66	1.2	38058	4300	BF70-../DPE20XA4	27.29	1574	7000	6385	28400	1131	513
40 HP (30 kW)	60	1.5	42041	4750	BF80-../DPE20XA4	30.21	2765	12300	10768	47900	1343	609
40 HP (30 kW)	57	1.05	44254	5000	BF70-../DPE20XA4	31.84	1731	7700	6744	30000	1131	513
40 HP (30 kW)	54	1.45	46909	5300	BF80-../DPE20XA4	33.61	2630	11700	10881	48400	1343	609
40 HP (30 kW)	53	2.4	47794	5400	BF90-../DPE20XA4	33.71	2675	11900	13331	59300	1894	859
40 HP (30 kW)	48.5	0.88	52219	5900	BF70-../DPE20XA4	36.88	1776	7900	6992	31100	1131	513
40 HP (30 kW)	48	2.2	52219	5900	BF90-../DPE20XA4	37.54	2855	12700	13826	61500	1894	859
40 HP (30 kW)	47	1.35	53104	6000	BF80-../DPE20XA4	38.14	2743	12200	11308	50300	1343	609
40 HP (30 kW)	38.5	1.9	65496	7400	BF90-../DPE20XA4	46.43	3102	13800	14725	65500	1894	859
40 HP (30 kW)	38	1.15	66381	7500	BF80-../DPE20XA4	47.46	3012	13400	12072	53700	1343	609
40 HP (30 kW)	35	1.8	71691	8100	BF90-../DPE20XA4	51.70	3282	14600	15242	67800	1894	859
40 HP (30 kW)	33.5	1.05	75231	8500	BF80-../DPE20XA4	53.86	3147	14000	12544	55800	1343	609

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BF-series shaft-mounted geared motors

Selection - shaft-mounted geared motors

40 HP (30 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·ft-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
40 HP (30 kW)	29.5	0.96	85852	9700	BF80-../DPE20XA4	61.55	3327	14800	13061	58100	1343	609
40 HP (30 kW)	28.5	1.55	88507	10000	BF90-../DPE20XA4	63.49	3552	15800	16186	72000	1894	859
40 HP (30 kW)	26	0.86	97358	11000	BF80-../DPE20XA4	69.86	3574	15900	13623	60600	1343	609
40 HP (30 kW)	25.5	1.4	99128	11200	BF90-../DPE20XA4	70.69	3777	16800	16793	74700	1894	859
40 HP (30 kW)	22.5	1.3	112404	12700	BF90-../DPE20XA4	80.85	3934	17500	17423	77500	1894	859
40 HP (30 kW)	20	1.15	126566	14300	BF90-../DPE20XA4	90.02	4249	18900	18120	80600	1894	859
40 HP (30 kW)	17	1.0	148693	16800	BF90-../DPE20XA4	107.5	5013	22300	19536	86900	1894	859
40 HP (30 kW)	15	0.88	169049	19100	BF90-../DPE20XA4	119.7	5508	24500	20413	90800	1894	859

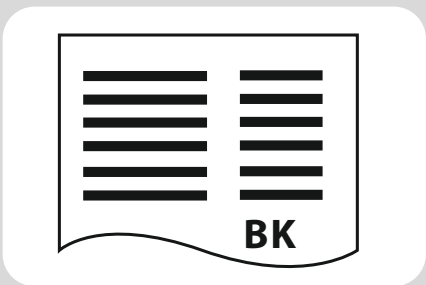
50 HP (37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·ft-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
50 HP (37 kW)	173	1.25	17701	2000	BF70-../DPE22MA4	10.32	1034	4600	4204	18700	1254	569
50 HP (37 kW)	156	1.65	19914	2250	BF80-../DPE22MA4	11.42	2001	8900	7239	32200	1466	665
50 HP (37 kW)	148	1.25	20799	2350	BF70-../DPE22MA4	12.04	1102	4900	4429	19700	1254	569
50 HP (37 kW)	143	2.9	21684	2450	BF90-../DPE22MA4	12.45	1798	8000	8925	39700	2017	915
50 HP (37 kW)	120	1.25	25667	2900	BF70-../DPE22MA4	14.90	1326	5900	5395	24000	1254	569
50 HP (37 kW)	108	1.65	28765	3250	BF80-../DPE22MA4	16.49	2563	11400	9307	41400	1466	665
50 HP (37 kW)	103	1.25	30093	3400	BF70-../DPE22MA4	17.39	1394	6200	5620	25000	1254	569
50 HP (37 kW)	103	3.0	30093	3400	BF90-../DPE22MA4	17.39	2248	10000	11128	49500	2017	915
50 HP (37 kW)	85	1.1	36731	4150	BF70-../DPE22MA4	21.04	1439	6400	5912	26300	1254	569
50 HP (37 kW)	77	1.4	40271	4550	BF80-../DPE22MA4	23.29	2653	11800	10094	44900	1466	665
50 HP (37 kW)	75	2.4	41599	4700	BF90-../DPE22MA4	23.95	2495	11100	12207	54300	2017	915
50 HP (37 kW)	73	1.05	42484	4800	BF70-../DPE22MA4	24.55	1574	7000	6227	27700	1254	569
50 HP (37 kW)	59	1.2	52219	5900	BF80-../DPE22MA4	30.21	2765	12300	10768	47900	1466	665
50 HP (37 kW)	53	1.2	58415	6600	BF80-../DPE22MA4	33.61	2630	11700	10881	48400	1466	665
50 HP (37 kW)	53	1.95	58415	6600	BF90-../DPE22MA4	33.71	2675	11900	13331	59300	2017	915
50 HP (37 kW)	47.5	1.8	65496	7400	BF90-../DPE22MA4	37.54	2855	12700	13826	61500	2017	915
50 HP (37 kW)	47	1.1	66381	7500	BF80-../DPE22MA4	38.14	2743	12200	11308	50300	1466	665
50 HP (37 kW)	38.5	1.55	80542	9100	BF90-../DPE22MA4	46.43	3102	13800	14725	65500	2017	915
50 HP (37 kW)	34.5	1.4	90278	10200	BF90-../DPE22MA4	51.70	3282	14600	15242	67800	2017	915
50 HP (37 kW)	28.5	1.25	108864	12300	BF90-../DPE22MA4	63.49	3552	15800	16186	72000	2017	915
50 HP (37 kW)	25.5	1.15	122140	13800	BF90-../DPE22MA4	70.69	3777	16800	16793	74700	2017	915
50 HP (37 kW)	22.5	1.05	138957	15700	BF90-../DPE22MA4	80.85	3934	17500	17423	77500	2017	915

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

Energy Efficient Geared Motors

AC Line Operated / North America



8

BK-series bevel-gear motors - Selection

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Energy Efficient Geared Motors

AC Line Operated / North America

Sizes

Bauer BK-series bevel-gear motors are normally supplied in ten frame sizes and with torques of 80 to 18,500 Nm. Higher torques are available on request. The gear unit is accommodated in a sturdy cast housing

Bauer service factors (f_B) for bevel-gear motors

Of the numerous factors influencing the total loading of a gear unit, the most important include:

- Mean torque (rated torque)
- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)

These factors can be represented in a simplified and practical manner by **service factors**. The tables and explanations below attempt to provide an objective description of the **shock classification**, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_s/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information.

Continuous operation without switching frequency $Z \leq 1/h$

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d	>4 h	>8 h	>16 h
		≤ 8 h	≤ 16 h	≤ 24 h
I		0.8	1.0	1.2
II		1.05	1.25	1.45
III		1.45	1.55	1.7

Switching duty

Factor f_2 for shock classification and switching frequency

Switching frequency in single- shift operation $t_d \leq 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	0.95	1.1	1.15
II	1.2	1.35	1.4
III	1.55	1.6	1.6

Switching frequency in multiple- shift operation $t_d > 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1.3	1.45	1.5
II	1.5	1.6	1.65
III	1.75	1.8	1.8

Bauer Service factor

Bauer service factor $f_B = f_1$ or $f_B = f_2$

For example: Shock classification II for $Z = 100$ switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.5$

BK-series bevel-gear motors

Description of bevel-gear units

Explanation of shock classification

Shock classification I:

Uniform without shock loads. All the following requirements must be satisfied:

- $FI \leq 1.3$
- $M_x/M_N \leq 1.0$
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, $\phi N \geq 5^\circ$)

Shock classification II:

Moderate shock loads. At least one of the following conditions applies:

- $1.3 < FI \leq 4$
- $1 < M_x/M_N \leq 1.6$
- Shock-neutral power transmission components (e.g. gear wheels, zero-play rigid coupling or resilient coupling with $\phi N < 5^\circ$)

Shock classification III:

Heavy shock loads. At least one of the following conditions applies:

- $FI > 4$
- $1.6 < M_x/M_N \leq 2.0$
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

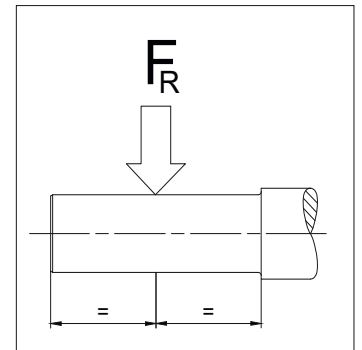
Key to abbreviations

Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia $FI = (J_{ext} + J_{rot})/J_{rot}$
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm^2)
J_{rot}	Mass moment of inertia of the motor rotor (kgm^2)
M_x	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
ϕ_N	Torsional offset of the resilient coupling under rated torque

Selection tables, bevel-gear motors

Key to abbreviations

P	Rated output
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer service factor
F_{RN}	Maximum permissible radial force with normal bearings
F_{RV}	Maximum permissible radial force with reinforced bearings in each case with standard solid shaft (Code -.1 and -.2)



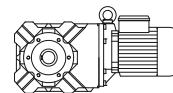
Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear unit and output shaft (see chapter 12 "dimensional drawing bevel-gear motors").

The torques marked (*) are maximum permissible torques for service factor $f_B = 1.0$.

Motor power overload protection

Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., slip clutch, slip hub, shear pin or an alternative).

0.075 HP (0.055 kW)



P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.075 HP (0.055 kW)	49	8.3	85	9.6	BK06-../D04LA4	33.33	297	1320	-	-	17	7.6
0.075 HP (0.055 kW)	42.5	7.2	98	11.1	BK06-../D04LA4	38.18	310	1380	-	-	17	7.6
0.075 HP (0.055 kW)	34	5.8	121	13.7	BK06-../D04LA4	47.78	337	1500	-	-	17	7.6
0.075 HP (0.055 kW)	30	4.4	137	15.5	BK06-../D04LA4	54.38	360	1600	-	-	17	7.6
0.075 HP (0.055 kW)	26	3.5	158	17.9	BK06-../D04LA4	63.33	382	1700	-	-	17	7.6
0.075 HP (0.055 kW)	6.3	2.9	602	68	BK10Z-../D04LA4	257.9	1574	7000	-	-	46	21
0.075 HP (0.055 kW)	5.4	2.4	690	78	BK10Z-../D04LA4	302.4	1574	7000	-	-	46	21
0.075 HP (0.055 kW)	4.5	3.1	823	93	BK20Z-../D04LA4	367.7	1956	8700	2023	9000	68	31
0.075 HP (0.055 kW)	4.4	1.7	850	96	BK10Z-../D04LA4	373.4	1574	7000	-	-	46	21
0.075 HP (0.055 kW)	3.8	1.35	974	110	BK10Z-../D04LA4	428.8	1574	7000	-	-	46	21
0.075 HP (0.055 kW)	3.6	2.3	832	94	BK10G06-../D04LA4	459.2	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	3.3	2.1	912	103	BK10G06-../D04LA4	501.4	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	3.1	3.3	974	110	BK20G06-../D04LA4	524.5	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	3.0	1.9	1018	115	BK10G06-../D04LA4	552.3	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	2.6	1.65	1186	134	BK10G06-../D04LA4	635.5	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	2.6	2.7	1177	133	BK20G06-../D04LA4	630.0	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	2.2	2.2	1425	161	BK20G06-../D04LA4	757.0	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	2.2	3.0	1425	161	BK30G06-../D04LA4	743.0	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	2.1	1.3	1505	170	BK10G06-../D04LA4	789.7	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	2.0	2.8	1575	178	BK30G06-../D04LA4	810.9	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	1.9	1.95	1646	186	BK20G06-../D04LA4	891.2	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	1.8	1.1	1744	197	BK10G06-../D04LA4	929.3	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	1.7	2.4	1814	205	BK30G06-../D04LA4	954.1	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	1.6	1.65	1947	220	BK20G06-../D04LA4	1066	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	1.5	0.94	2080	235	BK10G06-../D04LA4	1112	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	1.5	2.1	2080	235	BK30G06-../D04LA4	1142	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	1.3	1.3	2434	275	BK20G06-../D04LA4	1305	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	1.3	1.8	2434	275	BK30G06-../D04LA4	1281	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	1.2	1.0	1947*	220*	BK10G06-../D04LA4	1361	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	1.2	1.2	2655	300	BK20G06-../D04LA4	1424	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	1.1	1.0	1947*	220*	BK10G06-../D04LA4	1577	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	1.0	1.0	3186	360	BK20G06-../D04LA4	1650	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	1.0	1.35	3186	360	BK30G06-../D04LA4	1620	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.95	1.25	3408	385	BK30G06-../D04LA4	1767	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.85	1.0	1947*	220*	BK10G06-../D04LA4	1971	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	0.85	1.15	3806	430	BK30G06-../D04LA4	2024	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.8	1.0	3186*	360*	BK20G06-../D04LA4	2062	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	0.75	1.0	1947*	220*	BK10G06-../D04LA4	2261	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	0.7	1.0	1947*	220*	BK10G06-../D04LA4	2467	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	0.7	1.0	3186*	360*	BK20G06-../D04LA4	2366	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	0.65	1.0	3186*	360*	BK20G06-../D04LA4	2580	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	0.65	1.0	4337*	490*	BK30G06-../D04LA4	2533	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.6	1.0	1947*	220*	BK10G06-../D04LA4	2849	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	0.6	1.0	3186*	360*	BK20G06-../D04LA4	2831	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	0.6	1.0	4337*	490*	BK30G06-../D04LA4	2738	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.55	1.0	1947*	220*	BK10G06-../D04LA4	3107	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	0.55	1.0	3186*	360*	BK20G06-../D04LA4	3088	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	0.55	1.0	4337*	490*	BK30G06-../D04LA4	2986	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.48	1.0	4337*	490*	BK30G06-../D04LA4	3399	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.47	1.0	3186*	360*	BK20G06-../D04LA4	3515	1956	8700	2023	9000	75	34
0.075 HP (0.055 kW)	0.46	1.0	1947*	220*	BK10G06-../D04LA4	3537	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	0.41	1.0	4337*	490*	BK30G06-../D04LA4	3959	2518	11200	2698	12000	88	40
0.075 HP (0.055 kW)	0.4	1.0	1947*	220*	BK10G06-../D04LA4	4120	1574	7000	-	-	55	25
0.075 HP (0.055 kW)	0.4	1.0	3186*	360*	BK20G06-../D04LA4	4094	1956	8700	2023	9000	75	34

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

0.1 HP (0.075 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.1 HP (0.075 kW)	76	9.5	74	8.4	BK06-../D04LA4	21.54	259	1150	-	-	17	7.6
0.1 HP (0.075 kW)	62	7.8	91	10.3	BK06-../D04LA4	26.36	277	1230	-	-	17	7.6
0.1 HP (0.075 kW)	49	6.1	116	13.1	BK06-../D04LA4	33.33	297	1320	-	-	17	7.6
0.1 HP (0.075 kW)	42.5	5.3	134	15.1	BK06-../D04LA4	38.18	310	1380	-	-	17	7.6
0.1 HP (0.075 kW)	34	4.3	166	18.7	BK06-../D04LA4	47.78	337	1500	-	-	17	7.6
0.1 HP (0.075 kW)	30	3.2	186	21	BK06-../D04LA4	54.38	360	1600	-	-	17	7.6
0.1 HP (0.075 kW)	26	2.6	217	24.5	BK06-../D04LA4	63.33	382	1700	-	-	17	7.6
0.1 HP (0.075 kW)	13.5	3.0	398	45	BK10Z-../D06LA4	120.3	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	11.5	3.1	460	52	BK10Z-../D06LA4	143.2	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	9.5	3.2	549	62	BK10Z-../D06LA4	170.6	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	8.0	2.7	646	73	BK10Z-../D06LA4	204.7	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	6.3	2.2	823	93	BK10Z-../D06LA4	257.9	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	5.5	3.0	929	105	BK20Z-../D06LA4	298.2	1956	8700	2023	9000	75	34
0.1 HP (0.075 kW)	5.4	1.7	947	107	BK10Z-../D06LA4	302.4	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	4.5	2.3	1124	127	BK20Z-../D06LA4	367.7	1956	8700	2023	9000	75	34
0.1 HP (0.075 kW)	4.4	1.25	1159	131	BK10Z-../D06LA4	373.4	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	4.3	3.0	1186	134	BK30Z-../D06LA4	380.7	2518	11200	2698	12000	90	41
0.1 HP (0.075 kW)	3.8	0.99	1328	150	BK10Z-../D06LA4	428.8	1574	7000	-	-	53	24
0.1 HP (0.075 kW)	3.8	2.8	1133	128	BK20G06-../D06LA4	429.7	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	3.7	2.5	1363	154	BK30Z-../D06LA4	441.3	2518	11200	2698	12000	90	41
0.1 HP (0.075 kW)	3.6	1.6	1204	136	BK10G06-../D06LA4	459.2	1574	7000	-	-	62	28
0.1 HP (0.075 kW)	3.4	2.5	1275	144	BK20G06-../D06LA4	480.4	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	3.3	1.5	1319	149	BK10G06-../D06LA4	501.4	1574	7000	-	-	62	28
0.1 HP (0.075 kW)	3.1	2.3	1407	159	BK20G06-../D06LA4	524.5	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	3.0	1.35	1460	165	BK10G06-../D06LA4	552.3	1574	7000	-	-	62	28
0.1 HP (0.075 kW)	2.9	2.9	1513	171	BK30G06-../D06LA4	567.0	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	2.6	1.15	1708	193	BK10G06-../D06LA4	635.5	1574	7000	-	-	62	28
0.1 HP (0.075 kW)	2.6	1.9	1690	191	BK20G06-../D06LA4	630.0	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	2.5	2.5	1770	200	BK30G06-../D06LA4	652.5	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	2.2	1.6	1991	225	BK20G06-../D06LA4	757.0	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	2.2	2.2	1991	225	BK30G06-../D06LA4	743.0	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	2.1	0.92	2124	240	BK10G06-../D06LA4	789.7	1574	7000	-	-	62	28
0.1 HP (0.075 kW)	2.0	1.95	2213	250	BK30G06-../D06LA4	810.9	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	1.9	1.35	2345	265	BK20G06-../D06LA4	891.2	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	1.7	1.65	2611	295	BK30G06-../D06LA4	954.1	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	1.6	1.15	2788	315	BK20G06-../D06LA4	1066	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	1.5	1.45	2965	335	BK30G06-../D06LA4	1142	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	1.4	2.7	2832	320	BK40G10-../D06LA4	1189	2630	11700	3822	17000	150	68
0.1 HP (0.075 kW)	1.3	0.94	3408	385	BK20G06-../D06LA4	1305	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	1.3	1.25	3408	385	BK30G06-../D06LA4	1281	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	1.2	0.86	3717	420	BK20G06-../D06LA4	1424	1956	8700	2023	9000	84	38
0.1 HP (0.075 kW)	1.2	2.2	3408	385	BK40G10-../D06LA4	1428	2630	11700	3822	17000	150	68
0.1 HP (0.075 kW)	1.2	2.9	3452	390	BK50G10-../D06LA4	1398	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	1.1	2.6	3850	435	BK50G10-../D06LA4	1549	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	1.0	0.96	4514	510	BK30G06-../D06LA4	1620	2518	11200	2698	12000	97	44
0.1 HP (0.075 kW)	0.95	1.7	4425	500	BK40G10-../D06LA4	1798	2630	11700	3822	17000	150	68
0.1 HP (0.075 kW)	0.9	2.2	4691	530	BK50G10-../D06LA4	1816	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	0.85	2.0	5045	570	BK50G10-../D06LA4	2024	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	0.8	1.4	5310	600	BK40G10-../D06LA4	2108	2630	11700	3822	17000	150	68
0.1 HP (0.075 kW)	0.7	1.25	6107	690	BK40G10-../D06LA4	2350	2630	11700	3822	17000	150	68
0.1 HP (0.075 kW)	0.7	1.7	6019	680	BK50G10-../D06LA4	2450	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	0.65	1.15	6638	750	BK40G10-../D06LA4	2604	2630	11700	3822	17000	150	68
0.1 HP (0.075 kW)	0.6	1.45	7081	800	BK50G10-../D06LA4	2730	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	0.55	1.3	7789	880	BK50G10-../D06LA4	3025	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	0.55	3.3	6638	750	BK60G20-../D06LA4	3036	3732	16600	7644	34000	271	123
0.1 HP (0.075 kW)	0.47	1.15	8939	1010	BK50G10-../D06LA4	3492	3170	14100	24954	111000	212	96
0.1 HP (0.075 kW)	0.46	2.5	8851	1000	BK60G20-../D06LA4	3533	3732	16600	7644	34000	271	123
0.1 HP (0.075 kW)	0.42	1.0	10090	1140	BK50G10-../D06LA4	3870	3170	14100	24954	111000	212	96

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.1 HP (0.075 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.1 HP (0.075 kW)	0.39	1.95	11329	1280	BK60G20-../D06LA4	4239	3732	16600	7644	34000	271	123
0.1 HP (0.075 kW)	0.32	1.5	14958	1690	BK60G20-../D06LA4	5072	3732	16600	7644	34000	271	123
0.1 HP (0.075 kW)	0.29	1.3	16993	1920	BK60G20-../D06LA4	5721	3732	16600	7644	34000	271	123
0.1 HP (0.075 kW)	0.25	1.1	20357	2300	BK60G20-../D06LA4	6565	3732	16600	7644	34000	271	123
0.1 HP (0.075 kW)	0.25	2.7	19029	2150	BK70G20-../D06LA4	6504	5418	24100	11240	50000	443	201
0.1 HP (0.075 kW)	0.2	2.0	25225	2850	BK70G20-../D06LA4	8149	5418	24100	11240	50000	443	201
0.1 HP (0.075 kW)	0.18	1.75	28765	3250	BK70G20-../D06LA4	9351	5418	24100	11240	50000	443	201
0.1 HP (0.075 kW)	0.15	1.4	35846	4050	BK70G20-../D06LA4	11529	5418	24100	11240	50000	443	201

0.12 HP (0.09 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.12 HP (0.09 kW)	90	9.4	75	8.5	BK06-../D04LA4	18.00	243	1080	-	-	17	7.6
0.12 HP (0.09 kW)	76	7.9	89	10.1	BK06-../D04LA4	21.54	259	1150	-	-	17	7.6
0.12 HP (0.09 kW)	62	6.5	110	12.4	BK06-../D04LA4	26.36	277	1230	-	-	17	7.6
0.12 HP (0.09 kW)	49	5.1	139	15.7	BK06-../D04LA4	33.33	297	1320	-	-	17	7.6
0.12 HP (0.09 kW)	42.5	4.4	161	18.2	BK06-../D04LA4	38.18	310	1380	-	-	17	7.6
0.12 HP (0.09 kW)	34	3.6	195	22	BK06-../D04LA4	47.78	337	1500	-	-	17	7.6
0.12 HP (0.09 kW)	30	2.7	221	25	BK06-../D04LA4	54.38	360	1600	-	-	17	7.6
0.12 HP (0.09 kW)	26	2.2	257	29	BK06-../D04LA4	63.33	382	1700	-	-	17	7.6
0.12 HP (0.09 kW)	13.5	2.5	478	54	BK10Z-../D06LA4	120.3	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	11.5	2.6	549	62	BK10Z-../D06LA4	143.2	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	9.5	2.7	664	75	BK10Z-../D06LA4	170.6	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	8.0	2.3	779	88	BK10Z-../D06LA4	204.7	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	6.3	1.8	982	111	BK10Z-../D06LA4	257.9	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	6.3	3.0	982	111	BK20Z-../D06LA4	259.9	1956	8700	2023	9000	75	34
0.12 HP (0.09 kW)	5.5	2.5	1115	126	BK20Z-../D06LA4	298.2	1956	8700	2023	9000	75	34
0.12 HP (0.09 kW)	5.4	1.45	1133	128	BK10Z-../D06LA4	302.4	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	5.3	2.9	1168	132	BK30Z-../D06LA4	308.3	2518	11200	2698	12000	90	41
0.12 HP (0.09 kW)	4.5	1.9	1345	152	BK20Z-../D06LA4	367.7	1956	8700	2023	9000	75	34
0.12 HP (0.09 kW)	4.4	1.05	1398	158	BK10Z-../D06LA4	373.4	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	4.3	2.5	1425	161	BK30Z-../D06LA4	380.7	2518	11200	2698	12000	90	41
0.12 HP (0.09 kW)	3.8	0.82	1593	180	BK10Z-../D06LA4	428.8	1574	7000	-	-	53	24
0.12 HP (0.09 kW)	3.8	2.3	1407	159	BK20G06-../D06LA4	429.7	1956	8700	2023	9000	84	38
0.12 HP (0.09 kW)	3.8	3.2	1593	180	BK40Z-../D06LA4	430.0	2630	11700	3822	17000	141	64
0.12 HP (0.09 kW)	3.7	2.1	1637	185	BK30Z-../D06LA4	441.3	2518	11200	2698	12000	90	41
0.12 HP (0.09 kW)	3.6	1.3	1487	168	BK10G06-../D06LA4	459.2	1574	7000	-	-	62	28
0.12 HP (0.09 kW)	3.5	2.8	1531	173	BK30G06-../D06LA4	471.5	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	3.4	2.0	1575	178	BK20G06-../D06LA4	480.4	1956	8700	2023	9000	84	38
0.12 HP (0.09 kW)	3.3	1.2	1629	184	BK10G06-../D06LA4	501.4	1574	7000	-	-	62	28
0.12 HP (0.09 kW)	3.1	1.85	1735	196	BK20G06-../D06LA4	524.5	1956	8700	2023	9000	84	38
0.12 HP (0.09 kW)	3.0	1.1	1770	200	BK10G06-../D06LA4	552.3	1574	7000	-	-	62	28
0.12 HP (0.09 kW)	2.9	2.3	1859	210	BK30G06-../D06LA4	567.0	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	2.6	0.94	2080	235	BK10G06-../D06LA4	635.5	1574	7000	-	-	62	28
0.12 HP (0.09 kW)	2.6	1.55	2080	235	BK20G06-../D06LA4	630.0	1956	8700	2023	9000	84	38
0.12 HP (0.09 kW)	2.5	2.0	2168	245	BK30G06-../D06LA4	652.5	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	2.2	1.3	2478	280	BK20G06-../D06LA4	757.0	1956	8700	2023	9000	84	38
0.12 HP (0.09 kW)	2.2	1.75	2478	280	BK30G06-../D06LA4	743.0	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	2.0	1.6	2699	305	BK30G06-../D06LA4	810.9	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	2.0	3.3	2301	260	BK40G10-../D06LA4	838.4	2630	11700	3822	17000	150	68
0.12 HP (0.09 kW)	1.9	1.15	2832	320	BK20G06-../D06LA4	891.2	1956	8700	2023	9000	84	38

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

0.12 HP (0.09 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.12 HP (0.09 kW)	1.7	1.35	3186	360	BK30G06-../D06LA4	954.1	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	1.7	2.7	2832	320	BK40G10-../D06LA4	998.3	2630	11700	3822	17000	150	68
0.12 HP (0.09 kW)	1.6	0.94	3408	385	BK20G06-../D06LA4	1066	1956	8700	2023	9000	84	38
0.12 HP (0.09 kW)	1.6	3.3	3098	350	BK50G10-../D06LA4	1024	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	1.5	1.2	3629	410	BK30G06-../D06LA4	1142	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	1.4	2.2	3496	395	BK40G10-../D06LA4	1189	2630	11700	3822	17000	150	68
0.12 HP (0.09 kW)	1.4	2.8	3629	410	BK50G10-../D06LA4	1230	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	1.3	1.05	4160	470	BK30G06-../D06LA4	1281	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	1.2	1.8	4204	475	BK40G10-../D06LA4	1428	2630	11700	3822	17000	150	68
0.12 HP (0.09 kW)	1.2	2.4	4293	485	BK50G10-../D06LA4	1398	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	1.1	2.2	4691	530	BK50G10-../D06LA4	1549	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	1.0	0.8	5399	610	BK30G06-../D06LA4	1620	2518	11200	2698	12000	97	44
0.12 HP (0.09 kW)	0.95	1.4	5399	610	BK40G10-../D06LA4	1798	2630	11700	3822	17000	150	68
0.12 HP (0.09 kW)	0.9	1.75	5753	650	BK50G10-../D06LA4	1816	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	0.85	1.65	6196	700	BK50G10-../D06LA4	2024	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	0.8	1.15	6461	730	BK40G10-../D06LA4	2108	2630	11700	3822	17000	150	68
0.12 HP (0.09 kW)	0.7	1.0	7435	840	BK40G10-../D06LA4	2350	2630	11700	3822	17000	150	68
0.12 HP (0.09 kW)	0.7	1.4	7346	830	BK50G10-../D06LA4	2450	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	0.6	1.15	8674	980	BK50G10-../D06LA4	2730	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	0.6	2.8	7877	890	BK60G20-../D06LA4	2733	3732	16600	7644	34000	271	123
0.12 HP (0.09 kW)	0.55	1.05	9470	1070	BK50G10-../D06LA4	3025	3170	14100	24954	111000	212	96
0.12 HP (0.09 kW)	0.55	2.5	8939	1010	BK60G20-../D06LA4	3036	3732	16600	7644	34000	271	123
0.12 HP (0.09 kW)	0.46	1.9	11683	1320	BK60G20-../D06LA4	3533	3732	16600	7644	34000	271	123
0.12 HP (0.09 kW)	0.39	1.5	14604	1650	BK60G20-../D06LA4	4239	3732	16600	7644	34000	271	123
0.12 HP (0.09 kW)	0.32	1.2	18587	2100	BK60G20-../D06LA4	5072	3732	16600	7644	34000	271	123
0.12 HP (0.09 kW)	0.3	2.7	19029	2150	BK70G20-../D06LA4	5436	5418	24100	11240	50000	443	201
0.12 HP (0.09 kW)	0.29	1.05	21242	2400	BK60G20-../D06LA4	5721	3732	16600	7644	34000	271	123
0.12 HP (0.09 kW)	0.25	2.1	23897	2700	BK70G20-../D06LA4	6504	5418	24100	11240	50000	443	201
0.12 HP (0.09 kW)	0.2	1.6	31420	3550	BK70G20-../D06LA4	8149	5418	24100	11240	50000	443	201
0.12 HP (0.09 kW)	0.18	1.4	35846	4050	BK70G20-../D06LA4	9351	5418	24100	11240	50000	443	201
0.12 HP (0.09 kW)	0.15	1.15	44254	5000	BK70G20-../D06LA4	11529	5418	24100	11240	50000	443	201

0.15 HP (0.11 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.15 HP (0.11 kW)	106	8.9	80	9.0	BK06-../D04LA4	15.29	229	1020	-	-	17	7.6
0.15 HP (0.11 kW)	90	7.6	93	10.5	BK06-../D04LA4	18.00	243	1080	-	-	17	7.6
0.15 HP (0.11 kW)	76	6.5	110	12.4	BK06-../D04LA4	21.54	259	1150	-	-	17	7.6
0.15 HP (0.11 kW)	62	5.3	135	15.2	BK06-../D04LA4	26.36	277	1230	-	-	17	7.6
0.15 HP (0.11 kW)	49	4.2	170	19.2	BK06-../D04LA4	33.33	297	1320	-	-	17	7.6
0.15 HP (0.11 kW)	42.5	3.6	195	22	BK06-../D04LA4	38.18	310	1380	-	-	17	7.6
0.15 HP (0.11 kW)	34	3.0	239	27	BK06-../D04LA4	47.78	337	1500	-	-	17	7.6
0.15 HP (0.11 kW)	30	2.2	274	31	BK06-../D04LA4	54.38	360	1600	-	-	17	7.6
0.15 HP (0.11 kW)	26	1.8	314	35.5	BK06-../D04LA4	63.33	382	1700	-	-	17	7.6
0.15 HP (0.11 kW)	16	2.9	487	55	BK10-../D06LA4	102.5	1574	7000	-	-	51	23
0.15 HP (0.11 kW)	13.5	2.1	584	66	BK10Z-../D06LA4	120.3	1574	7000	-	-	53	24
0.15 HP (0.11 kW)	11.5	2.1	673	76	BK10Z-../D06LA4	143.2	1574	7000	-	-	53	24
0.15 HP (0.11 kW)	9.5	2.2	805	91	BK10Z-../D06LA4	170.6	1574	7000	-	-	53	24
0.15 HP (0.11 kW)	8.0	1.85	947	107	BK10Z-../D06LA4	204.7	1574	7000	-	-	53	24
0.15 HP (0.11 kW)	7.9	3.0	965	109	BK20Z-../D06LA4	207.5	1956	8700	2023	9000	75	34
0.15 HP (0.11 kW)	6.3	1.45	1204	136	BK10Z-../D06LA4	257.9	1574	7000	-	-	53	24

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.15 HP (0.11 kW)	6.3	2.4	1204	136	BK20Z-../D06LA4	259.9	1956	8700	2023	9000	75	34
0.15 HP (0.11 kW)	5.5	2.0	1363	154	BK20Z-../D06LA4	298.2	1956	8700	2023	9000	75	34
0.15 HP (0.11 kW)	5.4	1.15	1390	157	BK10Z-../D06LA4	302.4	1574	7000	-	-	53	24
0.15 HP (0.11 kW)	5.3	2.4	1434	162	BK30Z-../D06LA4	308.3	2518	11200	2698	12000	90	41
0.15 HP (0.11 kW)	4.7	3.2	1602	181	BK40Z-../D06LA4	348.7	2630	11700	3822	17000	141	64
0.15 HP (0.11 kW)	4.5	1.55	1646	186	BK20Z-../D06LA4	367.7	1956	8700	2023	9000	75	34
0.15 HP (0.11 kW)	4.4	0.85	1708	193	BK10Z-../D06LA4	373.4	1574	7000	-	-	53	24
0.15 HP (0.11 kW)	4.3	2.0	1744	197	BK30Z-../D06LA4	380.7	2518	11200	2698	12000	90	41
0.15 HP (0.11 kW)	4.0	1.15	1682	190	BK10G06-../D06LA4	410.8	1574	7000	-	-	62	28
0.15 HP (0.11 kW)	3.8	1.8	1761	199	BK20G06-../D06LA4	429.7	1956	8700	2023	9000	84	38
0.15 HP (0.11 kW)	3.8	2.6	1947	220	BK40Z-../D06LA4	430.0	2630	11700	3822	17000	141	64
0.15 HP (0.11 kW)	3.7	1.7	1991	225	BK30Z-../D06LA4	441.3	2518	11200	2698	12000	90	41
0.15 HP (0.11 kW)	3.6	1.05	1859	210	BK10G06-../D06LA4	459.2	1574	7000	-	-	62	28
0.15 HP (0.11 kW)	3.5	2.3	1903	215	BK30G06-../D06LA4	471.5	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	3.4	1.65	1947	220	BK20G06-../D06LA4	480.4	1956	8700	2023	9000	84	38
0.15 HP (0.11 kW)	3.3	0.96	2036	230	BK10G06-../D06LA4	501.4	1574	7000	-	-	62	28
0.15 HP (0.11 kW)	3.1	1.45	2168	245	BK20G06-../D06LA4	524.5	1956	8700	2023	9000	84	38
0.15 HP (0.11 kW)	3.0	0.88	2213	250	BK10G06-../D06LA4	552.3	1574	7000	-	-	62	28
0.15 HP (0.11 kW)	2.9	1.9	2301	260	BK30G06-../D06LA4	567.0	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	2.6	1.25	2567	290	BK20G06-../D06LA4	630.0	1956	8700	2023	9000	84	38
0.15 HP (0.11 kW)	2.5	1.6	2699	305	BK30G06-../D06LA4	652.5	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	2.5	3.3	2257	255	BK40G10-../D06LA4	660.2	2630	11700	3822	17000	150	68
0.15 HP (0.11 kW)	2.2	1.05	3054	345	BK20G06-../D06LA4	757.0	1956	8700	2023	9000	84	38
0.15 HP (0.11 kW)	2.2	1.4	3054	345	BK30G06-../D06LA4	743.0	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	2.2	2.8	2655	300	BK40G10-../D06LA4	756.7	2630	11700	3822	17000	150	68
0.15 HP (0.11 kW)	2.0	1.3	3363	380	BK30G06-../D06LA4	810.9	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	2.0	2.5	2965	335	BK40G10-../D06LA4	838.4	2630	11700	3822	17000	150	68
0.15 HP (0.11 kW)	1.9	0.9	3540	400	BK20G06-../D06LA4	891.2	1956	8700	2023	9000	84	38
0.15 HP (0.11 kW)	1.9	3.2	3231	365	BK50G10-../D06LA4	859.8	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	1.7	1.1	3939	445	BK30G06-../D06LA4	954.1	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	1.7	2.1	3585	405	BK40G10-../D06LA4	998.3	2630	11700	3822	17000	150	68
0.15 HP (0.11 kW)	1.6	2.6	3894	440	BK50G10-../D06LA4	1024	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	1.5	0.96	4514	510	BK30G06-../D06LA4	1142	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	1.4	1.7	4425	500	BK40G10-../D06LA4	1189	2630	11700	3822	17000	150	68
0.15 HP (0.11 kW)	1.4	2.3	4514	510	BK50G10-../D06LA4	1230	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	1.3	0.84	5133	580	BK30G06-../D06LA4	1281	2518	11200	2698	12000	97	44
0.15 HP (0.11 kW)	1.2	1.45	5222	590	BK40G10-../D06LA4	1428	2630	11700	3822	17000	150	68
0.15 HP (0.11 kW)	1.2	1.9	5310	600	BK50G10-../D06LA4	1398	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	1.1	1.75	5841	660	BK50G10-../D06LA4	1549	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	0.95	1.1	6727	760	BK40G10-../D06LA4	1798	2630	11700	3822	17000	150	68
0.15 HP (0.11 kW)	0.9	1.4	7169	810	BK50G10-../D06LA4	1816	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	0.85	1.3	7700	870	BK50G10-../D06LA4	2024	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	0.85	3.3	6727	760	BK60G20-../D06LA4	2010	3732	16600	7644	34000	271	123
0.15 HP (0.11 kW)	0.7	1.1	9205	1040	BK50G10-../D06LA4	2450	3170	14100	24954	111000	212	96
0.15 HP (0.11 kW)	0.7	2.5	8762	990	BK60G20-../D06LA4	2371	3732	16600	7644	34000	271	123
0.15 HP (0.11 kW)	0.6	2.1	10709	1210	BK60G20-../D06LA4	2733	3732	16600	7644	34000	271	123
0.15 HP (0.11 kW)	0.55	1.85	12037	1360	BK60G20-../D06LA4	3036	3732	16600	7644	34000	271	123
0.15 HP (0.11 kW)	0.46	1.45	15312	1730	BK60G20-../D06LA4	3533	3732	16600	7644	34000	271	123
0.15 HP (0.11 kW)	0.42	3.2	15843	1790	BK70G20-../D06LA4	3894	5418	24100	11240	50000	443	201
0.15 HP (0.11 kW)	0.39	1.2	18587	2100	BK60G20-../D06LA4	4239	3732	16600	7644	34000	271	123
0.15 HP (0.11 kW)	0.36	2.6	19472	2200	BK70G20-../D06LA4	4531	5418	24100	11240	50000	443	201
0.15 HP (0.11 kW)	0.3	2.1	24340	2750	BK70G20-../D06LA4	5436	5418	24100	11240	50000	443	201
0.15 HP (0.11 kW)	0.25	1.65	30535	3450	BK70G20-../D06LA4	6504	5418	24100	11240	50000	443	201
0.15 HP (0.11 kW)	0.2	1.25	39828	4500	BK70G20-../D06LA4	8149	5418	24100	11240	50000	443	201
0.15 HP (0.11 kW)	0.18	1.1	45139	5100	BK70G20-../D06LA4	9351	5418	24100	11240	50000	443	201

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.25 HP (0.18 kW)	167	8.5	83	9.4	BK06-../D05LA4	9.71	198	880	-	-	21	9.5
0.25 HP (0.18 kW)	139	7.1	100	11.3	BK06-../D05LA4	11.67	209	930	-	-	21	9.5
0.25 HP (0.18 kW)	106	5.4	130	14.7	BK06-../D05LA4	15.29	229	1020	-	-	21	9.5
0.25 HP (0.18 kW)	90	4.7	151	17.1	BK06-../D05LA4	18.00	243	1080	-	-	21	9.5
0.25 HP (0.18 kW)	76	4.0	177	20	BK06-../D05LA4	21.54	259	1150	-	-	21	9.5
0.25 HP (0.18 kW)	62	3.3	217	24.5	BK06-../D05LA4	26.36	277	1230	-	-	21	9.5
0.25 HP (0.18 kW)	49	2.5	279	31.5	BK06-../D05LA4	33.33	297	1320	-	-	21	9.5
0.25 HP (0.18 kW)	42.5	2.2	319	36	BK06-../D05LA4	38.18	310	1380	-	-	21	9.5
0.25 HP (0.18 kW)	34	1.8	394	44.5	BK06-../D05LA4	47.78	337	1500	-	-	21	9.5
0.25 HP (0.18 kW)	30	1.35	443	50	BK06-../D05LA4	54.38	360	1600	-	-	21	9.5
0.25 HP (0.18 kW)	26	1.1	513	58	BK06-../D05LA4	63.33	382	1700	-	-	21	9.5
0.25 HP (0.18 kW)	22.5	3.0	593	67	BK10-../D06LA4	72.31	1574	7000	-	-	51	23
0.25 HP (0.18 kW)	18.5	2.2	708	80	BK10-../D06LA4	89.30	1574	7000	-	-	51	23
0.25 HP (0.18 kW)	16	1.75	805	91	BK10-../D06LA4	102.5	1574	7000	-	-	51	23
0.25 HP (0.18 kW)	15	3.2	867	98	BK20-../D06LA4	108.6	1956	8700	2023	9000	73	33
0.25 HP (0.18 kW)	13.5	1.25	956	108	BK10Z-../D06LA4	120.3	1574	7000	-	-	53	24
0.25 HP (0.18 kW)	13.5	3.1	956	108	BK20Z-../D06LA4	124.2	1956	8700	2023	9000	75	34
0.25 HP (0.18 kW)	11.5	1.3	1106	125	BK10Z-../D06LA4	143.2	1574	7000	-	-	53	24
0.25 HP (0.18 kW)	11.5	2.6	1106	125	BK20Z-../D06LA4	144.5	1956	8700	2023	9000	75	34
0.25 HP (0.18 kW)	9.5	1.35	1328	150	BK10Z-../D06LA4	170.6	1574	7000	-	-	53	24
0.25 HP (0.18 kW)	9.4	2.2	1336	151	BK20Z-../D06LA4	173.4	1956	8700	2023	9000	75	34
0.25 HP (0.18 kW)	8.8	2.8	1434	162	BK30Z-../D06LA4	184.8	2518	11200	2698	12000	90	41
0.25 HP (0.18 kW)	8.0	1.15	1558	176	BK10Z-../D06LA4	204.7	1574	7000	-	-	53	24
0.25 HP (0.18 kW)	7.9	1.85	1575	178	BK20Z-../D06LA4	207.5	1956	8700	2023	9000	75	34
0.25 HP (0.18 kW)	7.5	2.4	1655	187	BK30Z-../D06LA4	216.5	2518	11200	2698	12000	90	41
0.25 HP (0.18 kW)	6.4	2.0	1947	220	BK30Z-../D06LA4	255.3	2518	11200	2698	12000	90	41
0.25 HP (0.18 kW)	6.3	0.91	1947	220	BK10Z-../D06LA4	257.9	1574	7000	-	-	53	24
0.25 HP (0.18 kW)	6.3	1.5	1947	220	BK20Z-../D06LA4	259.9	1956	8700	2023	9000	75	34
0.25 HP (0.18 kW)	5.6	2.8	2168	245	BK40Z-../D06LA4	289.8	2630	11700	3822	17000	141	64
0.25 HP (0.18 kW)	5.5	1.25	2213	250	BK20Z-../D06LA4	298.2	1956	8700	2023	9000	75	34
0.25 HP (0.18 kW)	5.3	1.45	2345	265	BK30Z-../D06LA4	308.3	2518	11200	2698	12000	90	41
0.25 HP (0.18 kW)	4.8	0.81	2390	270	BK10G06-../D06LA4	343.2	1574	7000	-	-	62	28
0.25 HP (0.18 kW)	4.7	1.95	2611	295	BK40Z-../D06LA4	348.7	2630	11700	3822	17000	141	64
0.25 HP (0.18 kW)	4.5	0.96	2699	305	BK20Z-../D06LA4	367.7	1956	8700	2023	9000	75	34
0.25 HP (0.18 kW)	4.3	1.25	2832	320	BK30Z-../D06LA4	380.7	2518	11200	2698	12000	90	41
0.25 HP (0.18 kW)	4.0	2.5	3009	340	BK50Z-../D06LA4	414.8	3170	14100	5845	26000	203	92
0.25 HP (0.18 kW)	3.8	1.05	3009	340	BK20G06-../D06LA4	429.7	1956	8700	2023	9000	84	38
0.25 HP (0.18 kW)	3.8	1.6	3186	360	BK40Z-../D06LA4	430.0	2630	11700	3822	17000	141	64
0.25 HP (0.18 kW)	3.7	1.05	3275	370	BK30Z-../D06LA4	441.3	2518	11200	2698	12000	90	41
0.25 HP (0.18 kW)	3.5	1.3	3275	370	BK30G06-../D06LA4	471.5	2518	11200	2698	12000	97	44
0.25 HP (0.18 kW)	3.4	0.95	3363	380	BK20G06-../D06LA4	480.4	1956	8700	2023	9000	84	38
0.25 HP (0.18 kW)	3.4	2.5	2965	335	BK40G10-../D06LA4	487.3	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	3.2	3.2	3231	365	BK50G10-../D06LA4	513.4	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	3.1	0.87	3673	415	BK20G06-../D06LA4	524.5	1956	8700	2023	9000	84	38
0.25 HP (0.18 kW)	3.0	2.2	3408	385	BK40G10-../D06LA4	540.0	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	2.9	1.1	3939	445	BK30G06-../D06LA4	567.0	2518	11200	2698	12000	97	44
0.25 HP (0.18 kW)	2.9	2.8	3585	405	BK50G10-../D06LA4	568.6	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	2.5	0.96	4514	510	BK30G06-../D06LA4	652.5	2518	11200	2698	12000	97	44
0.25 HP (0.18 kW)	2.5	1.85	4116	465	BK40G10-../D06LA4	660.2	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	2.5	2.4	4204	475	BK50G10-../D06LA4	651.7	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	2.3	2.2	4602	520	BK50G10-../D06LA4	722.2	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	2.2	0.84	5133	580	BK30G06-../D06LA4	743.0	2518	11200	2698	12000	97	44
0.25 HP (0.18 kW)	2.2	1.6	4691	530	BK40G10-../D06LA4	756.7	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	2.0	1.45	5222	590	BK40G10-../D06LA4	838.4	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	1.9	1.8	5664	640	BK50G10-../D06LA4	859.8	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	1.7	1.2	6284	710	BK40G10-../D06LA4	998.3	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	1.6	1.5	6727	760	BK50G10-../D06LA4	1024	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	1.6	3.2	6815	770	BK60G20-../D06LA4	1016	3732	16600	7644	34000	271	123

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.25 HP (0.18 kW)	1.4	0.98	7700	870	BK40G10-../D06LA4	1189	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	1.4	1.3	7789	880	BK50G10-../D06LA4	1230	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	1.3	2.6	8674	980	BK60G20-../D06LA4	1322	3732	16600	7644	34000	271	123
0.25 HP (0.18 kW)	1.2	0.83	9028	1020	BK40G10-../D06LA4	1428	2630	11700	3822	17000	150	68
0.25 HP (0.18 kW)	1.2	1.1	9116	1030	BK50G10-../D06LA4	1398	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	1.1	1.0	10001	1130	BK50G10-../D06LA4	1549	3170	14100	24954	111000	212	96
0.25 HP (0.18 kW)	1.1	2.2	10178	1150	BK60G20-../D06LA4	1618	3732	16600	7644	34000	271	123
0.25 HP (0.18 kW)	0.9	1.7	12834	1450	BK60G20-../D06LA4	1810	3732	16600	7644	34000	271	123
0.25 HP (0.18 kW)	0.85	1.6	13719	1550	BK60G20-../D06LA4	2010	3732	16600	7644	34000	271	123
0.25 HP (0.18 kW)	0.7	1.3	17259	1950	BK60G20-../D06LA4	2371	3732	16600	7644	34000	271	123
0.25 HP (0.18 kW)	0.65	2.9	17701	2000	BK70G20-../D06LA4	2578	5418	24100	11240	50000	443	201
0.25 HP (0.18 kW)	0.6	1.1	20357	2300	BK60G20-../D06LA4	2733	3732	16600	7644	34000	271	123
0.25 HP (0.18 kW)	0.55	2.3	21684	2450	BK70G20-../D06LA4	3041	5418	24100	11240	50000	443	201
0.25 HP (0.18 kW)	0.47	1.95	26110	2950	BK70G20-../D06LA4	3505	5418	24100	11240	50000	443	201
0.25 HP (0.18 kW)	0.42	1.7	29650	3350	BK70G20-../D06LA4	3894	5418	24100	11240	50000	443	201
0.25 HP (0.18 kW)	0.36	1.4	35846	4050	BK70G20-../D06LA4	4531	5418	24100	11240	50000	443	201
0.25 HP (0.18 kW)	0.3	1.15	44254	5000	BK70G20-../D06LA4	5436	5418	24100	11240	50000	443	201

0.33 HP (0.25 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.33 HP (0.25 kW)	167	6.1	116	13.1	BK06-../D05LA4	9.71	198	880	-	-	21	9.5
0.33 HP (0.25 kW)	139	5.1	140	15.8	BK06-../D05LA4	11.67	209	930	-	-	21	9.5
0.33 HP (0.25 kW)	106	4.0	177	20	BK06-../D05LA4	15.29	229	1020	-	-	21	9.5
0.33 HP (0.25 kW)	90	3.4	208	23.5	BK06-../D05LA4	18.00	243	1080	-	-	21	9.5
0.33 HP (0.25 kW)	76	2.9	248	28	BK06-../D05LA4	21.54	259	1150	-	-	21	9.5
0.33 HP (0.25 kW)	62	2.3	305	34.5	BK06-../D05LA4	26.36	277	1230	-	-	21	9.5
0.33 HP (0.25 kW)	49	1.85	385	43.5	BK06-../D05LA4	33.33	297	1320	-	-	21	9.5
0.33 HP (0.25 kW)	42.5	1.6	443	50	BK06-../D05LA4	38.18	310	1380	-	-	21	9.5
0.33 HP (0.25 kW)	34	1.3	549	62	BK06-../D05LA4	47.78	337	1500	-	-	21	9.5
0.33 HP (0.25 kW)	33.5	3.2	558	63	BK10-../D06LA4	48.96	1439	6400	-	-	51	23
0.33 HP (0.25 kW)	30	0.97	620	70	BK06-../D05LA4	54.38	360	1600	-	-	21	9.5
0.33 HP (0.25 kW)	26.5	2.5	708	80	BK10-../D06LA4	61.68	1574	7000	-	-	51	23
0.33 HP (0.25 kW)	22.5	2.2	823	93	BK10-../D06LA4	72.31	1574	7000	-	-	51	23
0.33 HP (0.25 kW)	18.5	1.6	991	112	BK10-../D06LA4	89.30	1574	7000	-	-	51	23
0.33 HP (0.25 kW)	18.5	2.9	991	112	BK20-../D06LA4	88.12	1798	8000	2023	9000	73	33
0.33 HP (0.25 kW)	16	1.25	1115	126	BK10-../D06LA4	102.5	1574	7000	-	-	51	23
0.33 HP (0.25 kW)	15	2.3	1204	136	BK20-../D06LA4	108.6	1956	8700	2023	9000	73	33
0.33 HP (0.25 kW)	13.5	0.91	1328	150	BK10Z-../D06LA4	120.3	1574	7000	-	-	53	24
0.33 HP (0.25 kW)	13.5	2.2	1328	150	BK20Z-../D06LA4	124.2	1956	8700	2023	9000	75	34
0.33 HP (0.25 kW)	13.5	3.0	1328	150	BK30Z-../D06LA4	123.9	2518	11200	2698	12000	90	41
0.33 HP (0.25 kW)	11.5	0.94	1540	174	BK10Z-../D06LA4	143.2	1574	7000	-	-	53	24
0.33 HP (0.25 kW)	11.5	1.9	1540	174	BK20Z-../D06LA4	144.5	1956	8700	2023	9000	75	34
0.33 HP (0.25 kW)	11.5	2.6	1540	174	BK30Z-../D06LA4	145.1	2518	11200	2698	12000	90	41
0.33 HP (0.25 kW)	9.5	0.98	1814	205	BK10Z-../D06LA4	170.6	1574	7000	-	-	53	24
0.33 HP (0.25 kW)	9.4	1.55	1859	210	BK20Z-../D06LA4	173.4	1956	8700	2023	9000	75	34
0.33 HP (0.25 kW)	8.8	2.0	1991	225	BK30Z-../D06LA4	184.8	2518	11200	2698	12000	90	41
0.33 HP (0.25 kW)	8.0	0.83	2124	240	BK10Z-../D06LA4	204.7	1574	7000	-	-	53	24
0.33 HP (0.25 kW)	7.9	1.35	2168	245	BK20Z-../D06LA4	207.5	1956	8700	2023	9000	75	34
0.33 HP (0.25 kW)	7.7	3.1	2213	250	BK40Z-../D06LA4	211.5	2630	11700	3822	17000	141	64
0.33 HP (0.25 kW)	7.5	1.75	2301	260	BK30Z-../D06LA4	216.5	2518	11200	2698	12000	90	41

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

0.33 HP (0.25 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.33 HP (0.25 kW)	6.6	2.7	2567	290	BK40Z-../D06LA4	246.6	2630	11700	3822	17000	141	64
0.33 HP (0.25 kW)	6.4	1.5	2699	305	BK30Z-../D06LA4	255.3	2518	11200	2698	12000	90	41
0.33 HP (0.25 kW)	6.3	1.05	2744	310	BK20Z-../D06LA4	259.9	1956	8700	2023	9000	75	34
0.33 HP (0.25 kW)	5.6	2.0	3054	345	BK40Z-../D06LA4	289.8	2630	11700	3822	17000	141	64
0.33 HP (0.25 kW)	5.5	0.89	3098	350	BK20Z-../D06LA4	298.2	1956	8700	2023	9000	75	34
0.33 HP (0.25 kW)	5.3	1.05	3231	365	BK30Z-../D06LA4	308.3	2518	11200	2698	12000	90	41
0.33 HP (0.25 kW)	5.0	2.6	3408	385	BK50Z-../D06LA4	328.2	3170	14100	5845	26000	203	92
0.33 HP (0.25 kW)	4.7	1.4	3629	410	BK40Z-../D06LA4	348.7	2630	11700	3822	17000	141	64
0.33 HP (0.25 kW)	4.6	0.9	3540	400	BK20G06-../D06LA4	359.1	1956	8700	2023	9000	84	38
0.33 HP (0.25 kW)	4.3	0.91	3939	445	BK30Z-../D06LA4	380.7	2518	11200	2698	12000	90	41
0.33 HP (0.25 kW)	4.0	1.8	4204	475	BK50Z-../D06LA4	414.8	3170	14100	5845	26000	203	92
0.33 HP (0.25 kW)	3.8	1.15	4425	500	BK40Z-../D06LA4	430.0	2630	11700	3822	17000	141	64
0.33 HP (0.25 kW)	3.5	0.94	4602	520	BK30G06-../D06LA4	471.5	2518	11200	2698	12000	97	44
0.33 HP (0.25 kW)	3.5	2.4	4293	485	BK50G10-../D06LA4	465.1	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	3.4	1.7	4381	495	BK40G10-../D06LA4	487.3	2630	11700	3822	17000	150	68
0.33 HP (0.25 kW)	3.2	2.2	4691	530	BK50G10-../D06LA4	513.4	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	3.0	1.5	4956	560	BK40G10-../D06LA4	540.0	2630	11700	3822	17000	150	68
0.33 HP (0.25 kW)	2.9	1.95	5222	590	BK50G10-../D06LA4	568.6	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	2.5	1.25	6019	680	BK40G10-../D06LA4	660.2	2630	11700	3822	17000	150	68
0.33 HP (0.25 kW)	2.5	1.7	6019	680	BK50G10-../D06LA4	651.7	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	2.3	1.55	6638	750	BK50G10-../D06LA4	722.2	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	2.2	1.1	6815	770	BK40G10-../D06LA4	756.7	2630	11700	3822	17000	150	68
0.33 HP (0.25 kW)	2.2	3.2	6815	770	BK60G20-../D06LA4	752.1	3732	16600	7644	34000	271	123
0.33 HP (0.25 kW)	2.0	0.99	7612	860	BK40G10-../D06LA4	838.4	2630	11700	3822	17000	150	68
0.33 HP (0.25 kW)	1.9	1.25	8054	910	BK50G10-../D06LA4	859.8	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	1.9	2.7	8143	920	BK60G20-../D06LA4	887.8	3732	16600	7644	34000	271	123
0.33 HP (0.25 kW)	1.7	0.84	8939	1010	BK40G10-../D06LA4	998.3	2630	11700	3822	17000	150	68
0.33 HP (0.25 kW)	1.6	1.05	9647	1090	BK50G10-../D06LA4	1024	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	1.6	2.1	10532	1190	BK60G20-../D06LA4	1016	3732	16600	7644	34000	271	123
0.33 HP (0.25 kW)	1.4	0.92	11063	1250	BK50G10-../D06LA4	1230	3170	14100	24954	111000	212	96
0.33 HP (0.25 kW)	1.3	1.65	13276	1500	BK60G20-../D06LA4	1322	3732	16600	7644	34000	271	123
0.33 HP (0.25 kW)	1.1	1.4	15577	1760	BK60G20-../D06LA4	1618	3732	16600	7644	34000	271	123
0.33 HP (0.25 kW)	1.0	2.9	17259	1950	BK70G20-../D06LA4	1696	5418	24100	11240	50000	443	201
0.33 HP (0.25 kW)	0.9	1.15	19029	2150	BK60G20-../D06LA4	1810	3732	16600	7644	34000	271	123
0.33 HP (0.25 kW)	0.85	1.1	20357	2300	BK60G20-../D06LA4	2010	3732	16600	7644	34000	271	123
0.33 HP (0.25 kW)	0.8	2.3	21684	2450	BK70G20-../D06LA4	2040	5418	24100	11240	50000	443	201
0.33 HP (0.25 kW)	0.65	1.85	26995	3050	BK70G20-../D06LA4	2578	5418	24100	11240	50000	443	201
0.33 HP (0.25 kW)	0.55	1.55	32305	3650	BK70G20-../D06LA4	3041	5418	24100	11240	50000	443	201
0.33 HP (0.25 kW)	0.47	1.3	38501	4350	BK70G20-../D06LA4	3505	5418	24100	11240	50000	443	201
0.33 HP (0.25 kW)	0.42	1.15	43811	4950	BK70G20-../D06LA4	3894	5418	24100	11240	50000	443	201

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.4 HP (0.3 kW)	167	5.1	139	15.7	BK06-../D05LA4	9.71	198	880	-	-	21	9.5
0.4 HP (0.3 kW)	139	4.2	167	18.9	BK06-../D05LA4	11.67	209	930	-	-	21	9.5
0.4 HP (0.3 kW)	106	3.3	217	24.5	BK06-../D05LA4	15.29	229	1020	-	-	21	9.5
0.4 HP (0.3 kW)	90	2.8	252	28.5	BK06-../D05LA4	18.00	243	1080	-	-	21	9.5
0.4 HP (0.3 kW)	76	2.4	296	33.5	BK06-../D05LA4	21.54	259	1150	-	-	21	9.5
0.4 HP (0.3 kW)	62	1.95	367	41.5	BK06-../D05LA4	26.36	277	1230	-	-	21	9.5
0.4 HP (0.3 kW)	49	1.55	460	52	BK06-../D05LA4	33.33	297	1320	-	-	21	9.5

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.4 HP (0.3 kW)	42.5	1.35	531	60	BK06-../D05LA4	38.18	310	1380	-	-	21	9.5
0.4 HP (0.3 kW)	40	3.1	566	64	BK10-../D06LA4	40.79	1349	6000	-	-	51	23
0.4 HP (0.3 kW)	34	1.1	655	74	BK06-../D05LA4	47.78	337	1500	-	-	21	9.5
0.4 HP (0.3 kW)	33.5	2.6	673	76	BK10-../D06LA4	48.96	1439	6400	-	-	51	23
0.4 HP (0.3 kW)	30	0.81	743	84	BK06-../D05LA4	54.38	360	1600	-	-	21	9.5
0.4 HP (0.3 kW)	26.5	2.1	850	96	BK10-../D06LA4	61.68	1574	7000	-	-	51	23
0.4 HP (0.3 kW)	22.5	1.8	991	112	BK10-../D06LA4	72.31	1574	7000	-	-	51	23
0.4 HP (0.3 kW)	21.5	2.8	1036	117	BK20-../D06LA4	76.79	1686	7500	2023	9000	73	33
0.4 HP (0.3 kW)	18.5	1.35	1186	134	BK10-../D06LA4	89.30	1574	7000	-	-	51	23
0.4 HP (0.3 kW)	18.5	2.5	1186	134	BK20-../D06LA4	88.12	1798	8000	2023	9000	73	33
0.4 HP (0.3 kW)	16	1.05	1345	152	BK10-../D06LA4	102.5	1574	7000	-	-	51	23
0.4 HP (0.3 kW)	16	3.0	1345	152	BK30-../D06LA4	102.4	2518	11200	2698	12000	86	39
0.4 HP (0.3 kW)	15	1.9	1452	164	BK20-../D06LA4	108.6	1956	8700	2023	9000	73	33
0.4 HP (0.3 kW)	13.5	1.85	1593	180	BK20Z-../D06LA4	124.2	1956	8700	2023	9000	75	34
0.4 HP (0.3 kW)	13.5	2.5	1593	180	BK30Z-../D06LA4	123.9	2518	11200	2698	12000	90	41
0.4 HP (0.3 kW)	11.5	0.8	1814	205	BK10Z-../D06LA4	143.2	1574	7000	-	-	53	24
0.4 HP (0.3 kW)	11.5	1.6	1814	205	BK20Z-../D06LA4	144.5	1956	8700	2023	9000	75	34
0.4 HP (0.3 kW)	11.5	2.2	1814	205	BK30Z-../D06LA4	145.1	2518	11200	2698	12000	90	41
0.4 HP (0.3 kW)	9.6	3.2	2168	245	BK40Z-../D06LA4	169.0	2630	11700	3822	17000	141	64
0.4 HP (0.3 kW)	9.5	0.8	2213	250	BK10Z-../D06LA4	170.6	1574	7000	-	-	53	24
0.4 HP (0.3 kW)	9.4	1.3	2213	250	BK20Z-../D06LA4	173.4	1956	8700	2023	9000	75	34
0.4 HP (0.3 kW)	8.8	1.65	2390	270	BK30Z-../D06LA4	184.8	2518	11200	2698	12000	90	41
0.4 HP (0.3 kW)	7.9	1.1	2611	295	BK20Z-../D06LA4	207.5	1956	8700	2023	9000	75	34
0.4 HP (0.3 kW)	7.7	2.6	2699	305	BK40Z-../D06LA4	211.5	2630	11700	3822	17000	141	64
0.4 HP (0.3 kW)	7.5	1.45	2744	310	BK30Z-../D06LA4	216.5	2518	11200	2698	12000	90	41
0.4 HP (0.3 kW)	6.6	2.2	3098	350	BK40Z-../D06LA4	246.6	2630	11700	3822	17000	141	64
0.4 HP (0.3 kW)	6.4	1.25	3231	365	BK30Z-../D06LA4	255.3	2518	11200	2698	12000	90	41
0.4 HP (0.3 kW)	6.3	0.89	3275	370	BK20Z-../D06LA4	259.9	1956	8700	2023	9000	75	34
0.4 HP (0.3 kW)	6.2	2.8	3275	370	BK50Z-../D06LA4	264.5	3170	14100	5845	26000	203	92
0.4 HP (0.3 kW)	5.6	1.65	3629	410	BK40Z-../D06LA4	289.8	2630	11700	3822	17000	141	64
0.4 HP (0.3 kW)	5.3	0.88	3894	440	BK30Z-../D06LA4	308.3	2518	11200	2698	12000	90	41
0.4 HP (0.3 kW)	5.0	2.2	4071	460	BK50Z-../D06LA4	328.2	3170	14100	5845	26000	203	92
0.4 HP (0.3 kW)	4.7	1.2	4337	490	BK40Z-../D06LA4	348.7	2630	11700	3822	17000	141	64
0.4 HP (0.3 kW)	4.0	1.5	5045	570	BK50Z-../D06LA4	414.8	3170	14100	5845	26000	203	92
0.4 HP (0.3 kW)	3.8	0.96	5310	600	BK40Z-../D06LA4	430.0	2630	11700	3822	17000	141	64
0.4 HP (0.3 kW)	3.5	1.95	5222	590	BK50G10-../D06LA4	465.1	3170	14100	24954	111000	212	96
0.4 HP (0.3 kW)	3.4	1.4	5310	600	BK40G10-../D06LA4	487.3	2630	11700	3822	17000	150	68
0.4 HP (0.3 kW)	3.2	1.75	5753	650	BK50G10-../D06LA4	513.4	3170	14100	24954	111000	212	96
0.4 HP (0.3 kW)	3.0	1.25	6019	680	BK40G10-../D06LA4	540.0	2630	11700	3822	17000	150	68
0.4 HP (0.3 kW)	2.9	1.6	6373	720	BK50G10-../D06LA4	568.6	3170	14100	24954	111000	212	96
0.4 HP (0.3 kW)	2.7	3.1	7081	800	BK60G20-../D06LA4	621.5	3732	16600	7644	34000	271	123
0.4 HP (0.3 kW)	2.5	1.0	7346	830	BK40G10-../D06LA4	660.2	2630	11700	3822	17000	150	68
0.4 HP (0.3 kW)	2.5	1.4	7346	830	BK50G10-../D06LA4	651.7	3170	14100	24954	111000	212	96
0.4 HP (0.3 kW)	2.3	1.25	8054	910	BK50G10-../D06LA4	722.2	3170	14100	24954	111000	212	96
0.4 HP (0.3 kW)	2.2	0.9	8320	940	BK40G10-../D06LA4	756.7	2630	11700	3822	17000	150	68
0.4 HP (0.3 kW)	2.2	2.6	8674	980	BK60G20-../D06LA4	752.1	3732	16600	7644	34000	271	123
0.4 HP (0.3 kW)	2.0	0.82	9205	1040	BK40G10-../D06LA4	838.4	2630	11700	3822	17000	150	68
0.4 HP (0.3 kW)	1.9	1.05	9824	1110	BK50G10-../D06LA4	859.8	3170	14100	24954	111000	212	96
0.4 HP (0.3 kW)	1.9	2.1	10355	1170	BK60G20-../D06LA4	887.8	3732	16600	7644	34000	271	123
0.4 HP (0.3 kW)	1.6	0.87	11683	1320	BK50G10-../D06LA4	1024	3170	14100	24954	111000	212	96
0.4 HP (0.3 kW)	1.6	1.7	13188	1490	BK60G20-../D06LA4	1016	3732	16600	7644	34000	271	123
0.4 HP (0.3 kW)	1.3	1.35	16462	1860	BK60G20-../D06LA4	1322	3732	16600	7644	34000	271	123
0.4 HP (0.3 kW)	1.3	3.1	16108	1820	BK70G20-../D06LA4	1280	5418	24100	11240	50000	443	201
0.4 HP (0.3 kW)	1.2	2.9	17259	1950	BK70G20-../D06LA4	1457	5418	24100	11240	50000	443	201
0.4 HP (0.3 kW)	1.1	1.15	19029	2150	BK60G20-../D06LA4	1618	3732	16600	7644	34000	271	123
0.4 HP (0.3 kW)	1.0	2.4	21242	2400	BK70G20-../D06LA4	1696	5418	24100	11240	50000	443	201
0.4 HP (0.3 kW)	0.8	1.85	26995	3050	BK70G20-../D06LA4	2040	5418	24100	11240	50000	443	201
0.4 HP (0.3 kW)	0.65	1.5	33633	3800	BK70G20-../D06LA4	2578	5418	24100	11240	50000	443	201

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.4 HP (0.3 kW)	0.55	1.25	40271	4550	BK70G20-../D06LA4	3041	5418	24100	11240	50000	443	201
0.4 HP (0.3 kW)	0.47	1.05	47794	5400	BK70G20-../D06LA4	3505	5418	24100	11240	50000	443	201

0.5 HP (0.37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.5 HP (0.37 kW)	167	4.1	172	19.4	BK06-../D07LA4	9.71	198	880	-	-	24	11
0.5 HP (0.37 kW)	139	3.5	204	23	BK06-../D07LA4	11.67	209	930	-	-	24	11
0.5 HP (0.37 kW)	106	2.7	266	30	BK06-../D07LA4	15.29	229	1020	-	-	24	11
0.5 HP (0.37 kW)	90	2.3	310	35	BK06-../D07LA4	18.00	243	1080	-	-	24	11
0.5 HP (0.37 kW)	76	1.95	367	41.5	BK06-../D07LA4	21.54	259	1150	-	-	24	11
0.5 HP (0.37 kW)	62	1.55	451	51	BK06-../D07LA4	26.36	277	1230	-	-	24	11
0.5 HP (0.37 kW)	49	1.25	566	64	BK06-../D07LA4	33.33	297	1320	-	-	24	11
0.5 HP (0.37 kW)	47.5	3.0	584	66	BK10-../D07LA4	34.25	1259	5600	-	-	51	23
0.5 HP (0.37 kW)	42.5	1.1	655	74	BK06-../D07LA4	38.18	310	1380	-	-	24	11
0.5 HP (0.37 kW)	40	2.5	699	79	BK10-../D07LA4	40.79	1349	6000	-	-	51	23
0.5 HP (0.37 kW)	34	0.87	814	92	BK06-../D07LA4	47.78	337	1500	-	-	24	11
0.5 HP (0.37 kW)	33.5	2.2	823	93	BK10-../D07LA4	48.96	1439	6400	-	-	51	23
0.5 HP (0.37 kW)	26.5	1.7	1044	118	BK10-../D07LA4	61.68	1574	7000	-	-	51	23
0.5 HP (0.37 kW)	26.5	2.8	1044	118	BK20-../D07LA4	61.30	1461	6500	2023	9000	73	33
0.5 HP (0.37 kW)	22.5	1.45	1221	138	BK10-../D07LA4	72.31	1574	7000	-	-	51	23
0.5 HP (0.37 kW)	21.5	2.3	1275	144	BK20-../D07LA4	76.79	1686	7500	2023	9000	73	33
0.5 HP (0.37 kW)	18.5	1.05	1469	166	BK10-../D07LA4	89.30	1574	7000	-	-	51	23
0.5 HP (0.37 kW)	18.5	2.0	1469	166	BK20-../D07LA4	88.12	1798	8000	2023	9000	73	33
0.5 HP (0.37 kW)	18.5	2.7	1452	164	BK30-../D07LA4	88.38	2383	10600	2698	12000	86	39
0.5 HP (0.37 kW)	16	0.84	1655	187	BK10-../D07LA4	102.5	1574	7000	-	-	51	23
0.5 HP (0.37 kW)	16	2.4	1655	187	BK30-../D07LA4	102.4	2518	11200	2698	12000	86	39
0.5 HP (0.37 kW)	15	1.6	1770	200	BK20-../D07LA4	108.6	1956	8700	2023	9000	73	33
0.5 HP (0.37 kW)	13.5	1.5	1947	220	BK20Z-../D07LA4	124.2	1956	8700	2023	9000	75	34
0.5 HP (0.37 kW)	13.5	2.0	1947	220	BK30Z-../D07LA4	123.9	2518	11200	2698	12000	90	41
0.5 HP (0.37 kW)	11.5	1.3	2257	255	BK20Z-../D07LA4	144.5	1956	8700	2023	9000	75	34
0.5 HP (0.37 kW)	11.5	1.75	2257	255	BK30Z-../D07LA4	145.1	2518	11200	2698	12000	90	41
0.5 HP (0.37 kW)	11.5	3.1	2257	255	BK40Z-../D07LA4	143.0	2630	11700	3822	17000	141	64
0.5 HP (0.37 kW)	9.6	2.6	2699	305	BK40Z-../D07LA4	169.0	2630	11700	3822	17000	141	64
0.5 HP (0.37 kW)	9.4	1.05	2744	310	BK20Z-../D07LA4	173.4	1956	8700	2023	9000	75	34
0.5 HP (0.37 kW)	8.8	1.35	2921	330	BK30Z-../D07LA4	184.8	2518	11200	2698	12000	90	41
0.5 HP (0.37 kW)	7.9	0.9	3231	365	BK20Z-../D07LA4	207.5	1956	8700	2023	9000	75	34
0.5 HP (0.37 kW)	7.9	2.9	3231	365	BK50Z-../D07LA4	206.8	3170	14100	5845	26000	203	92
0.5 HP (0.37 kW)	7.7	2.1	3319	375	BK40Z-../D07LA4	211.5	2630	11700	3822	17000	141	64
0.5 HP (0.37 kW)	7.5	1.15	3408	385	BK30Z-../D07LA4	216.5	2518	11200	2698	12000	90	41
0.5 HP (0.37 kW)	6.6	1.8	3806	430	BK40Z-../D07LA4	246.6	2630	11700	3822	17000	141	64
0.5 HP (0.37 kW)	6.4	1.0	3983	450	BK30Z-../D07LA4	255.3	2518	11200	2698	12000	90	41
0.5 HP (0.37 kW)	6.2	2.3	4071	460	BK50Z-../D07LA4	264.5	3170	14100	5845	26000	203	92
0.5 HP (0.37 kW)	5.6	1.35	4514	510	BK40Z-../D07LA4	289.8	2630	11700	3822	17000	141	64
0.5 HP (0.37 kW)	5.0	1.75	5045	570	BK50Z-../D07LA4	328.2	3170	14100	5845	26000	203	92
0.5 HP (0.37 kW)	4.7	0.97	5310	600	BK40Z-../D07LA4	348.7	2630	11700	3822	17000	141	64
0.5 HP (0.37 kW)	4.0	1.2	6196	700	BK50Z-../D07LA4	414.8	3170	14100	5845	26000	203	92
0.5 HP (0.37 kW)	3.5	1.55	6550	740	BK50G10-../D07LA4	465.1	3170	14100	24954	111000	212	96
0.5 HP (0.37 kW)	3.4	1.1	6727	760	BK40G10-../D07LA4	487.3	2630	11700	3822	17000	150	68
0.5 HP (0.37 kW)	3.2	1.4	7169	810	BK50G10-../D07LA4	513.4	3170	14100	24954	111000	212	96
0.5 HP (0.37 kW)	3.0	0.99	7612	860	BK40G10-../D07LA4	540.0	2630	11700	3822	17000	150	68

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.5 HP (0.37 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.5 HP (0.37 kW)	2.9	1.3	7966	900	BK50G10-../D07LA4	568.6	3170	14100	24954	111000	212	96
0.5 HP (0.37 kW)	2.7	2.4	9205	1040	BK60G20-../D07LA4	621.5	3732	16600	7644	34000	271	123
0.5 HP (0.37 kW)	2.5	0.82	9205	1040	BK40G10-../D07LA4	660.2	2630	11700	3822	17000	150	68
0.5 HP (0.37 kW)	2.5	1.1	9293	1050	BK50G10-../D07LA4	651.7	3170	14100	24954	111000	212	96
0.5 HP (0.37 kW)	2.3	1.0	10090	1140	BK50G10-../D07LA4	722.2	3170	14100	24954	111000	212	96
0.5 HP (0.37 kW)	2.2	1.95	11417	1290	BK60G20-../D07LA4	752.1	3732	16600	7644	34000	271	123
0.5 HP (0.37 kW)	1.9	0.83	12214	1380	BK50G10-../D07LA4	859.8	3170	14100	24954	111000	212	96
0.5 HP (0.37 kW)	1.9	1.65	13453	1520	BK60G20-../D07LA4	887.8	3732	16600	7644	34000	271	123
0.5 HP (0.37 kW)	1.6	1.3	16816	1900	BK60G20-../D07LA4	1016	3732	16600	7644	34000	271	123
0.5 HP (0.37 kW)	1.5	3.0	16993	1920	BK70G20-../D07LA4	1139	5418	24100	11240	50000	443	201
0.5 HP (0.37 kW)	1.3	1.05	20799	2350	BK60G20-../D07LA4	1322	3732	16600	7644	34000	271	123
0.5 HP (0.37 kW)	1.3	2.5	20357	2300	BK70G20-../D07LA4	1280	5418	24100	11240	50000	443	201
0.5 HP (0.37 kW)	1.2	2.3	22127	2500	BK70G20-../D07LA4	1457	5418	24100	11240	50000	443	201
0.5 HP (0.37 kW)	1.1	0.89	24782	2800	BK60G20-../D07LA4	1618	3732	16600	7644	34000	271	123
0.5 HP (0.37 kW)	1.0	1.85	27437	3100	BK70G20-../D07LA4	1696	5418	24100	11240	50000	443	201
0.5 HP (0.37 kW)	0.8	1.45	34518	3900	BK70G20-../D07LA4	2040	5418	24100	11240	50000	443	201
0.5 HP (0.37 kW)	0.65	1.2	42484	4800	BK70G20-../D07LA4	2578	5418	24100	11240	50000	443	201

0.75 HP (0.55 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.75 HP (0.55 kW)	235	3.6	181	20.5	BK06-../D08MA4	7.25	180	800	-	-	33	15
0.75 HP (0.55 kW)	174	2.9	243	27.5	BK06-../D08MA4	9.71	198	880	-	-	33	15
0.75 HP (0.55 kW)	144	2.4	296	33.5	BK06-../D08MA4	11.67	209	930	-	-	33	15
0.75 HP (0.55 kW)	110	1.85	381	43	BK06-../D08MA4	15.29	229	1020	-	-	33	15
0.75 HP (0.55 kW)	100	2.9	416	47	BK10-../D08MA4	16.92	832	3700	-	-	60	27
0.75 HP (0.55 kW)	94	1.6	443	50	BK06-../D08MA4	18.00	243	1080	-	-	33	15
0.75 HP (0.55 kW)	78	1.35	531	60	BK06-../D08MA4	21.54	259	1150	-	-	33	15
0.75 HP (0.55 kW)	75	3.2	558	63	BK10-../D08MA4	22.65	1045	4650	-	-	60	27
0.75 HP (0.55 kW)	64	1.1	646	73	BK06-../D08MA4	26.36	277	1230	-	-	33	15
0.75 HP (0.55 kW)	59	2.5	708	80	BK10-../D08MA4	28.76	1169	5200	-	-	60	27
0.75 HP (0.55 kW)	51	0.87	814	92	BK06-../D08MA4	33.33	297	1320	-	-	33	15
0.75 HP (0.55 kW)	49.5	2.1	841	95	BK10-../D08MA4	34.25	1259	5600	-	-	60	27
0.75 HP (0.55 kW)	46	3.2	903	102	BK20-../D08MA4	36.69	1214	5400	2023	9000	79	36
0.75 HP (0.55 kW)	41.5	1.75	1000	113	BK10-../D08MA4	40.79	1349	6000	-	-	60	27
0.75 HP (0.55 kW)	39.5	2.8	1053	119	BK20-../D08MA4	42.70	1304	5800	2023	9000	79	36
0.75 HP (0.55 kW)	34.5	1.5	1195	135	BK10-../D08MA4	48.96	1439	6400	-	-	60	27
0.75 HP (0.55 kW)	33.5	3.3	1213	137	BK30-../D08MA4	50.27	1866	8300	2698	12000	93	42
0.75 HP (0.55 kW)	33	2.3	1248	141	BK20-../D08MA4	51.22	1416	6300	2023	9000	79	36
0.75 HP (0.55 kW)	28.5	2.8	1434	162	BK30-../D08MA4	59.27	2001	8900	2698	12000	93	42
0.75 HP (0.55 kW)	27.5	1.2	1496	169	BK10-../D08MA4	61.68	1574	7000	-	-	60	27
0.75 HP (0.55 kW)	27.5	1.95	1496	169	BK20-../D08MA4	61.30	1461	6500	2023	9000	79	36
0.75 HP (0.55 kW)	23.5	1.0	1735	196	BK10-../D08MA4	72.31	1574	7000	-	-	60	27
0.75 HP (0.55 kW)	23.5	2.3	1717	194	BK30-../D08MA4	71.56	2181	9700	2698	12000	93	42
0.75 HP (0.55 kW)	22	1.55	1859	210	BK20-../D08MA4	76.79	1686	7500	2023	9000	79	36
0.75 HP (0.55 kW)	19.5	1.45	2036	230	BK20-../D08MA4	88.12	1798	8000	2023	9000	79	36
0.75 HP (0.55 kW)	19.5	1.95	2036	230	BK30-../D08MA4	88.38	2383	10600	2698	12000	93	42
0.75 HP (0.55 kW)	16.5	1.65	2390	270	BK30-../D08MA4	102.4	2518	11200	2698	12000	93	42
0.75 HP (0.55 kW)	16.5	2.9	2390	270	BK40-../D08MA4	104.0	2630	11700	3822	17000	139	63
0.75 HP (0.55 kW)	15.5	1.1	2567	290	BK20-../D08MA4	108.6	1956	8700	2023	9000	79	36
0.75 HP (0.55 kW)	14.5	2.6	2699	305	BK40Z-../D08MA4	118.2	2630	11700	3822	17000	148	67

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

0.75 HP (0.55 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.75 HP (0.55 kW)	14	1.05	2788	315	BK20Z-../D08MA4	124.2	1956	8700	2023	9000	84	38
0.75 HP (0.55 kW)	14	1.45	2788	315	BK30Z-../D08MA4	123.9	2518	11200	2698	12000	99	45
0.75 HP (0.55 kW)	12	0.9	3231	365	BK20Z-../D08MA4	144.5	1956	8700	2023	9000	84	38
0.75 HP (0.55 kW)	12	1.25	3231	365	BK30Z-../D08MA4	145.1	2518	11200	2698	12000	99	45
0.75 HP (0.55 kW)	12	2.1	3231	365	BK40Z-../D08MA4	143.0	2630	11700	3822	17000	148	67
0.75 HP (0.55 kW)	11	2.7	3496	395	BK50Z-../D08MA4	153.3	3170	14100	5845	26000	212	96
0.75 HP (0.55 kW)	10	1.8	3850	435	BK40Z-../D08MA4	169.0	2630	11700	3822	17000	148	67
0.75 HP (0.55 kW)	9.1	0.95	4204	475	BK30Z-../D08MA4	184.8	2518	11200	2698	12000	99	45
0.75 HP (0.55 kW)	8.2	2.0	4602	520	BK50Z-../D08MA4	206.8	3170	14100	5845	26000	212	96
0.75 HP (0.55 kW)	8.0	1.45	4691	530	BK40Z-../D08MA4	211.5	2630	11700	3822	17000	148	67
0.75 HP (0.55 kW)	7.8	0.82	4868	550	BK30Z-../D08MA4	216.5	2518	11200	2698	12000	99	45
0.75 HP (0.55 kW)	7.1	3.2	6461	730	BK60Z-../D08MA4	239.7	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	6.9	1.3	5399	610	BK40Z-../D08MA4	246.6	2630	11700	3822	17000	148	67
0.75 HP (0.55 kW)	6.4	1.6	5841	660	BK50Z-../D08MA4	264.5	3170	14100	5845	26000	212	96
0.75 HP (0.55 kW)	6.3	2.8	7346	830	BK60Z-../D08MA4	268.2	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	5.8	0.94	6461	730	BK40Z-../D08MA4	289.8	2630	11700	3822	17000	148	67
0.75 HP (0.55 kW)	5.3	2.3	8762	990	BK60Z-../D08MA4	317.7	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	5.2	1.25	7169	810	BK50Z-../D08MA4	328.2	3170	14100	5845	26000	212	96
0.75 HP (0.55 kW)	4.8	2.1	9647	1090	BK60Z-../D08MA4	355.5	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	4.1	0.83	9028	1020	BK50Z-../D08MA4	414.8	3170	14100	5845	26000	212	96
0.75 HP (0.55 kW)	4.1	1.8	11329	1280	BK60Z-../D08MA4	411.5	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	3.7	1.05	9559	1080	BK50G10-../D08MA4	465.1	3170	14100	24954	111000	220	100
0.75 HP (0.55 kW)	3.7	1.65	12480	1410	BK60Z-../D08MA4	460.4	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	3.4	1.5	13630	1540	BK60Z-../D08MA4	498.0	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	3.3	0.95	10709	1210	BK50G10-../D08MA4	513.4	3170	14100	24954	111000	220	100
0.75 HP (0.55 kW)	3.1	1.35	14958	1690	BK60Z-../D08MA4	557.2	3732	16600	7644	34000	262	119
0.75 HP (0.55 kW)	3.0	0.86	11771	1330	BK50G10-../D08MA4	568.6	3170	14100	24954	111000	220	100
0.75 HP (0.55 kW)	3.0	3.0	15489	1750	BK70Z-../D08MA4	570.8	5418	24100	11240	50000	456	207
0.75 HP (0.55 kW)	2.8	1.55	14250	1610	BK60G20-../D08MA4	621.5	3732	16600	7644	34000	278	126
0.75 HP (0.55 kW)	2.7	2.7	17170	1940	BK70Z-../D08MA4	644.9	5418	24100	11240	50000	456	207
0.75 HP (0.55 kW)	2.3	1.3	17347	1960	BK60G20-../D08MA4	752.1	3732	16600	7644	34000	278	126
0.75 HP (0.55 kW)	2.3	2.3	19914	2250	BK70Z-../D08MA4	733.6	5418	24100	11240	50000	456	207
0.75 HP (0.55 kW)	2.0	2.5	19914	2250	BK70G20-../D08MA4	847.7	5418	24100	11240	50000	452	205
0.75 HP (0.55 kW)	1.9	1.05	21242	2400	BK60G20-../D08MA4	887.8	3732	16600	7644	34000	278	126
0.75 HP (0.55 kW)	1.8	2.3	22127	2500	BK70G20-../D08MA4	964.6	5418	24100	11240	50000	452	205
0.75 HP (0.55 kW)	1.7	0.91	24340	2750	BK60G20-../D08MA4	1016	3732	16600	7644	34000	278	126
0.75 HP (0.55 kW)	1.5	1.85	26995	3050	BK70G20-../D08MA4	1139	5418	24100	11240	50000	452	205
0.75 HP (0.55 kW)	1.4	1.7	29650	3350	BK70G20-../D08MA4	1280	5418	24100	11240	50000	452	205
0.75 HP (0.55 kW)	1.2	1.45	34518	3900	BK70G20-../D08MA4	1457	5418	24100	11240	50000	452	205
0.75 HP (0.55 kW)	1.1	3.2	31420	3550	BK80G40-../D08MA4	1583	6744	30000	16861	75000	765	347
0.75 HP (0.55 kW)	1.0	1.2	42484	4800	BK70G20-../D08MA4	1696	5418	24100	11240	50000	452	205
0.75 HP (0.55 kW)	0.95	2.7	37173	4200	BK80G40-../D08MA4	1775	6744	30000	16861	75000	765	347
0.75 HP (0.55 kW)	0.85	1.0	49564	5600	BK70G20-../D08MA4	2040	5418	24100	11240	50000	452	205
0.75 HP (0.55 kW)	0.8	2.3	45139	5100	BK80G40-../D08MA4	2205	6744	30000	16861	75000	765	347
0.75 HP (0.55 kW)	0.7	1.9	53104	6000	BK80G40-../D08MA4	2449	6744	30000	16861	75000	765	347
0.75 HP (0.55 kW)	0.65	3.1	52219	5900	BK90G50-../D08MA4	2764	11106	49400	26977	120000	1367	620
0.75 HP (0.55 kW)	0.6	1.6	63725	7200	BK80G40-../D08MA4	2811	6744	30000	16861	75000	765	347
0.75 HP (0.55 kW)	0.55	1.45	70806	8000	BK80G40-../D08MA4	3120	6744	30000	16861	75000	765	347
0.75 HP (0.55 kW)	0.55	2.5	65496	7400	BK90G50-../D08MA4	3065	11106	49400	26977	120000	1367	620
0.75 HP (0.55 kW)	0.46	2.0	82312	9300	BK90G50-../D08MA4	3672	11106	49400	26977	120000	1367	620
0.75 HP (0.55 kW)	0.45	1.15	90278	10200	BK80G40-../D08MA4	3776	6744	30000	16861	75000	765	347
0.75 HP (0.55 kW)	0.42	1.8	91163	10300	BK90G50-../D08MA4	4070	11106	49400	26977	120000	1367	620
0.75 HP (0.55 kW)	0.34	1.4	117715	13300	BK90G50-../D08MA4	4952	11106	49400	26977	120000	1367	620
0.75 HP (0.55 kW)	0.31	1.25	130991	14800	BK90G50-../D08MA4	5491	11106	49400	26977	120000	1367	620
0.75 HP (0.55 kW)	0.27	1.05	153118	17300	BK90G50-../D08MA4	6335	11106	49400	26977	120000	1367	620

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1 HP (0.75 kW)	240	2.7	239	27	BK06-../DPE08XB4	7.25	180	800	-	-	40	18
1 HP (0.75 kW)	185	3.2	314	35.5	BK10-../DPE08XB4	9.40	607	2700	-	-	66	30
1 HP (0.75 kW)	179	2.2	323	36.5	BK06-../DPE08XB4	9.71	198	880	-	-	40	18
1 HP (0.75 kW)	149	1.8	389	44	BK06-../DPE08XB4	11.67	209	930	-	-	40	18
1 HP (0.75 kW)	146	2.6	398	45	BK10-../DPE08XB4	11.93	697	3100	-	-	66	30
1 HP (0.75 kW)	114	1.4	504	57	BK06-../DPE08XB4	15.29	229	1020	-	-	40	18
1 HP (0.75 kW)	103	2.2	549	62	BK10-../DPE08XB4	16.92	832	3700	-	-	66	30
1 HP (0.75 kW)	97	1.2	584	66	BK06-../DPE08XB4	18.00	243	1080	-	-	40	18
1 HP (0.75 kW)	94	2.9	602	68	BK10-../DPE08XB4	18.52	967	4300	-	-	66	30
1 HP (0.75 kW)	81	1.0	699	79	BK06-../DPE08XB4	21.54	259	1150	-	-	40	18
1 HP (0.75 kW)	77	2.4	735	83	BK10-../DPE08XB4	22.65	1045	4650	-	-	66	30
1 HP (0.75 kW)	66	0.82	859	97	BK06-../DPE08XB4	26.36	277	1230	-	-	40	18
1 HP (0.75 kW)	61	1.9	929	105	BK10-../DPE08XB4	28.76	1169	5200	-	-	66	30
1 HP (0.75 kW)	61	3.1	929	105	BK20-../DPE08XB4	28.66	1090	4850	2023	9000	86	39
1 HP (0.75 kW)	51	1.6	1115	126	BK10-../DPE08XB4	34.25	1259	5600	-	-	66	30
1 HP (0.75 kW)	47.5	2.4	1195	135	BK20-../DPE08XB4	36.69	1214	5400	2023	9000	86	39
1 HP (0.75 kW)	43	1.35	1319	149	BK10-../DPE08XB4	40.79	1349	6000	-	-	66	30
1 HP (0.75 kW)	41	2.1	1390	157	BK20-../DPE08XB4	42.70	1304	5800	2023	9000	86	39
1 HP (0.75 kW)	40.5	2.9	1390	157	BK30-../DPE08XB4	42.89	1754	7800	2698	12000	99	45
1 HP (0.75 kW)	35.5	1.1	1584	179	BK10-../DPE08XB4	48.96	1439	6400	-	-	66	30
1 HP (0.75 kW)	35	2.5	1593	180	BK30-../DPE08XB4	50.27	1866	8300	2698	12000	99	45
1 HP (0.75 kW)	34	1.75	1655	187	BK20-../DPE08XB4	51.22	1416	6300	2023	9000	86	39
1 HP (0.75 kW)	29.5	2.1	1859	210	BK30-../DPE08XB4	59.27	2001	8900	2698	12000	99	45
1 HP (0.75 kW)	28.5	0.91	1947	220	BK10-../DPE08XB4	61.68	1574	7000	-	-	66	30
1 HP (0.75 kW)	28.5	1.5	1947	220	BK20-../DPE08XB4	61.30	1461	6500	2023	9000	86	39
1 HP (0.75 kW)	25	3.2	2168	245	BK40-../DPE08XB4	70.11	2203	9800	3822	17000	146	66
1 HP (0.75 kW)	24.5	1.8	2213	250	BK30-../DPE08XB4	71.56	2181	9700	2698	12000	99	45
1 HP (0.75 kW)	23	1.2	2390	270	BK20-../DPE08XB4	76.79	1686	7500	2023	9000	86	39
1 HP (0.75 kW)	21	2.6	2611	295	BK40-../DPE08XB4	84.36	2405	10700	3822	17000	146	66
1 HP (0.75 kW)	20	1.05	2744	310	BK20-../DPE08XB4	88.12	1798	8000	2023	9000	86	39
1 HP (0.75 kW)	20	1.5	2699	305	BK30-../DPE08XB4	88.38	2383	10600	2698	12000	99	45
1 HP (0.75 kW)	18.5	3.2	2921	330	BK50-../DPE08XB4	95.29	3170	14100	5845	26000	207	94
1 HP (0.75 kW)	17	1.25	3142	355	BK30-../DPE08XB4	102.4	2518	11200	2698	12000	99	45
1 HP (0.75 kW)	17	2.2	3142	355	BK40-../DPE08XB4	104.0	2630	11700	3822	17000	146	66
1 HP (0.75 kW)	16	0.83	3363	380	BK20-../DPE08XB4	108.6	1956	8700	2023	9000	86	39
1 HP (0.75 kW)	15.5	2.7	3452	390	BK50Z-../DPE08XB4	115.4	3170	14100	5845	26000	218	99
1 HP (0.75 kW)	15	1.95	3585	405	BK40Z-../DPE08XB4	118.2	2630	11700	3822	17000	154	70
1 HP (0.75 kW)	14.5	1.1	3673	415	BK30Z-../DPE08XB4	123.9	2518	11200	2698	12000	106	48
1 HP (0.75 kW)	12.5	1.65	4248	480	BK40Z-../DPE08XB4	143.0	2630	11700	3822	17000	154	70
1 HP (0.75 kW)	12	0.9	4425	500	BK30Z-../DPE08XB4	145.1	2518	11200	2698	12000	106	48
1 HP (0.75 kW)	11.5	2.1	4514	510	BK50Z-../DPE08XB4	153.3	3170	14100	5845	26000	218	99
1 HP (0.75 kW)	10.5	1.4	4956	560	BK40Z-../DPE08XB4	169.0	2630	11700	3822	17000	154	70
1 HP (0.75 kW)	9.5	3.1	6638	750	BK60Z-../DPE08XB4	183.2	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	8.5	2.7	7435	840	BK60Z-../DPE08XB4	205.0	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	8.4	1.5	6107	690	BK50Z-../DPE08XB4	206.8	3170	14100	5845	26000	218	99
1 HP (0.75 kW)	8.3	1.1	6196	700	BK40Z-../DPE08XB4	211.5	2630	11700	3822	17000	154	70
1 HP (0.75 kW)	7.3	2.3	8674	980	BK60Z-../DPE08XB4	239.7	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	7.1	0.96	7169	810	BK40Z-../DPE08XB4	246.6	2630	11700	3822	17000	154	70
1 HP (0.75 kW)	6.6	1.2	7700	870	BK50Z-../DPE08XB4	264.5	3170	14100	5845	26000	218	99
1 HP (0.75 kW)	6.5	2.1	9736	1100	BK60Z-../DPE08XB4	268.2	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	5.5	1.75	11506	1300	BK60Z-../DPE08XB4	317.7	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	5.3	0.93	9647	1090	BK50Z-../DPE08XB4	328.2	3170	14100	5845	26000	218	99
1 HP (0.75 kW)	4.9	1.6	12922	1460	BK60Z-../DPE08XB4	355.5	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	4.3	1.4	14692	1660	BK60Z-../DPE08XB4	411.5	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	4.1	3.0	15400	1740	BK70Z-../DPE08XB4	432.1	5418	24100	11240	50000	463	210
1 HP (0.75 kW)	3.8	1.2	16639	1880	BK60Z-../DPE08XB4	460.4	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	3.5	1.15	17701	2000	BK60Z-../DPE08XB4	498.0	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	3.5	2.6	17701	2000	BK70Z-../DPE08XB4	501.8	5418	24100	11240	50000	463	210

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1 HP (0.75 kW)	3.2	1.05	19472	2200	BK60Z-../DPE08XB4	557.2	3732	16600	7644	34000	269	122
1 HP (0.75 kW)	3.1	2.3	20357	2300	BK70Z-../DPE08XB4	570.8	5418	24100	11240	50000	463	210
1 HP (0.75 kW)	2.8	1.1	19914	2250	BK60G20-../DPE08XB4	621.5	3732	16600	7644	34000	284	129
1 HP (0.75 kW)	2.7	1.95	23454	2650	BK70Z-../DPE08XB4	644.9	5418	24100	11240	50000	463	210
1 HP (0.75 kW)	2.4	0.94	23454	2650	BK60G20-../DPE08XB4	752.1	3732	16600	7644	34000	284	129
1 HP (0.75 kW)	2.4	1.75	26110	2950	BK70Z-../DPE08XB4	733.6	5418	24100	11240	50000	463	210
1 HP (0.75 kW)	2.1	1.85	26995	3050	BK70G20-../DPE08XB4	847.7	5418	24100	11240	50000	459	208
1 HP (0.75 kW)	1.8	1.6	31420	3550	BK70G20-../DPE08XB4	964.6	5418	24100	11240	50000	459	208
1 HP (0.75 kW)	1.6	1.45	35403	4000	BK70G20-../DPE08XB4	1139	5418	24100	11240	50000	459	208
1 HP (0.75 kW)	1.4	1.2	41599	4700	BK70G20-../DPE08XB4	1280	5418	24100	11240	50000	459	208
1 HP (0.75 kW)	1.4	2.8	36288	4100	BK80G40-../DPE08XB4	1307	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	1.3	2.7	38058	4300	BK80G40-../DPE08XB4	1425	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	1.2	1.05	48679	5500	BK70G20-../DPE08XB4	1457	5418	24100	11240	50000	459	208
1 HP (0.75 kW)	1.1	0.95	53104	6000	BK70G20-../DPE08XB4	1696	5418	24100	11240	50000	459	208
1 HP (0.75 kW)	1.1	2.2	46024	5200	BK80G40-../DPE08XB4	1583	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	1.0	2.0	51334	5800	BK80G40-../DPE08XB4	1775	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	0.9	3.1	53104	6000	BK90G50-../DPE08XB4	2016	11106	49400	26977	120000	1371	622
1 HP (0.75 kW)	0.8	1.55	66381	7500	BK80G40-../DPE08XB4	2205	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	0.75	1.4	71691	8100	BK80G40-../DPE08XB4	2449	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	0.65	1.2	84082	9500	BK80G40-../DPE08XB4	2811	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	0.65	2.1	78772	8900	BK90G50-../DPE08XB4	2764	11106	49400	26977	120000	1371	622
1 HP (0.75 kW)	0.6	1.1	92048	10400	BK80G40-../DPE08XB4	3120	6744	30000	16861	75000	772	350
1 HP (0.75 kW)	0.6	1.9	86737	9800	BK90G50-../DPE08XB4	3065	11106	49400	26977	120000	1371	622
1 HP (0.75 kW)	0.48	1.45	113290	12800	BK90G50-../DPE08XB4	3672	11106	49400	26977	120000	1371	622
1 HP (0.75 kW)	0.43	1.3	128336	14500	BK90G50-../DPE08XB4	4070	11106	49400	26977	120000	1371	622
1 HP (0.75 kW)	0.36	1.05	156658	17700	BK90G50-../DPE08XB4	4952	11106	49400	26977	120000	1371	622

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1.5 HP (1.1 kW)	400	4.0	212	24	BK10-../DPE09XB4	4.44	427	1900	-	-	88	40
1.5 HP (1.1 kW)	295	3.2	288	32.5	BK10-../DPE09XB4	6.02	472	2100	-	-	88	40
1.5 HP (1.1 kW)	230	2.7	372	42	BK10-../DPE09XB4	7.68	540	2400	-	-	88	40
1.5 HP (1.1 kW)	187	2.3	451	51	BK10-../DPE09XB4	9.40	607	2700	-	-	88	40
1.5 HP (1.1 kW)	165	3.2	504	57	BK10-../DPE09XB4	10.70	787	3500	-	-	88	40
1.5 HP (1.1 kW)	148	1.75	575	65	BK10-../DPE09XB4	11.93	697	3100	-	-	88	40
1.5 HP (1.1 kW)	122	2.6	682	77	BK10-../DPE09XB4	14.50	877	3900	-	-	88	40
1.5 HP (1.1 kW)	104	1.5	797	90	BK10-../DPE09XB4	16.92	832	3700	-	-	88	40
1.5 HP (1.1 kW)	101	2.5	832	94	BK20-../DPE09XB4	17.42	731	3250	2023	9000	110	50
1.5 HP (1.1 kW)	95	2.0	876	99	BK10-../DPE09XB4	18.52	967	4300	-	-	88	40
1.5 HP (1.1 kW)	91	3.2	912	103	BK20-../DPE09XB4	19.39	910	4050	2023	9000	110	50
1.5 HP (1.1 kW)	85	2.9	991	112	BK30-../DPE09XB4	20.85	1124	5000	2698	12000	123	56
1.5 HP (1.1 kW)	78	1.65	1071	121	BK10-../DPE09XB4	22.65	1045	4650	-	-	88	40
1.5 HP (1.1 kW)	73	2.6	1142	129	BK20-../DPE09XB4	24.29	1012	4500	2023	9000	110	50
1.5 HP (1.1 kW)	62	1.3	1345	152	BK10-../DPE09XB4	28.76	1169	5200	-	-	88	40
1.5 HP (1.1 kW)	62	2.2	1345	152	BK20-../DPE09XB4	28.66	1090	4850	2023	9000	110	50
1.5 HP (1.1 kW)	62	3.0	1345	152	BK30-../DPE09XB4	28.76	1461	6500	2698	12000	123	56
1.5 HP (1.1 kW)	53	2.5	1575	178	BK30-../DPE09XB4	33.70	1574	7000	2698	12000	123	56
1.5 HP (1.1 kW)	52	1.1	1602	181	BK10-../DPE09XB4	34.25	1259	5600	-	-	88	40
1.5 HP (1.1 kW)	48	1.7	1735	196	BK20-../DPE09XB4	36.69	1214	5400	2023	9000	110	50
1.5 HP (1.1 kW)	43.5	0.93	1903	215	BK10-../DPE09XB4	40.79	1349	6000	-	-	88	40

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1.5 HP (1.1 kW)	41.5	1.45	1991	225	BK20-../DPE09XB4	42.70	1304	5800	2023	9000	110	50
1.5 HP (1.1 kW)	41	2.0	1991	225	BK30-../DPE09XB4	42.89	1754	7800	2698	12000	123	56
1.5 HP (1.1 kW)	35	1.75	2301	260	BK30-../DPE09XB4	50.27	1866	8300	2698	12000	123	56
1.5 HP (1.1 kW)	34.5	1.2	2390	270	BK20-../DPE09XB4	51.22	1416	6300	2023	9000	110	50
1.5 HP (1.1 kW)	34.5	2.9	2345	265	BK40-../DPE09XB4	51.18	1888	8400	3822	17000	168	76
1.5 HP (1.1 kW)	30	1.5	2699	305	BK30-../DPE09XB4	59.27	2001	8900	2698	12000	123	56
1.5 HP (1.1 kW)	29.5	2.5	2744	310	BK40-../DPE09XB4	59.66	2046	9100	3822	17000	168	76
1.5 HP (1.1 kW)	29	1.05	2832	320	BK20-../DPE09XB4	61.30	1461	6500	2023	9000	110	50
1.5 HP (1.1 kW)	29	3.3	2788	315	BK50-../DPE09XB4	60.76	2563	11400	5845	26000	229	104
1.5 HP (1.1 kW)	25.5	2.2	3142	355	BK40-../DPE09XB4	70.11	2203	9800	3822	17000	168	76
1.5 HP (1.1 kW)	25	1.25	3231	365	BK30-../DPE09XB4	71.56	2181	9700	2698	12000	123	56
1.5 HP (1.1 kW)	23.5	2.7	3408	385	BK50-../DPE09XB4	75.40	2833	12600	5845	26000	229	104
1.5 HP (1.1 kW)	23	0.83	3540	400	BK20-../DPE09XB4	76.79	1686	7500	2023	9000	110	50
1.5 HP (1.1 kW)	21	1.8	3850	435	BK40-../DPE09XB4	84.36	2405	10700	3822	17000	168	76
1.5 HP (1.1 kW)	20	1.0	3983	450	BK30-../DPE09XB4	88.38	2383	10600	2698	12000	123	56
1.5 HP (1.1 kW)	18.5	2.2	4293	485	BK50-../DPE09XB4	95.29	3170	14100	5845	26000	229	104
1.5 HP (1.1 kW)	17.5	0.88	4514	510	BK30-../DPE09XB4	102.4	2518	11200	2698	12000	123	56
1.5 HP (1.1 kW)	17	1.5	4602	520	BK40-../DPE09XB4	104.0	2630	11700	3822	17000	168	76
1.5 HP (1.1 kW)	15.5	1.85	5045	570	BK50Z-../DPE09XB4	115.4	3170	14100	5845	26000	240	109
1.5 HP (1.1 kW)	15	1.3	5222	590	BK40Z-../DPE09XB4	118.2	2630	11700	3822	17000	176	80
1.5 HP (1.1 kW)	14.5	3.2	6373	720	BK60-../DPE09XB4	122.5	3485	15500	7644	34000	249	113
1.5 HP (1.1 kW)	13	2.9	7081	800	BK60-../DPE09XB4	137.0	3732	16600	7644	34000	249	113
1.5 HP (1.1 kW)	12.5	1.1	6196	700	BK40Z-../DPE09XB4	143.0	2630	11700	3822	17000	176	80
1.5 HP (1.1 kW)	11.5	1.4	6638	750	BK50Z-../DPE09XB4	153.3	3170	14100	5845	26000	240	109
1.5 HP (1.1 kW)	11.5	2.5	8054	910	BK60Z-../DPE09XB4	153.7	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	10.5	0.94	7346	830	BK40Z-../DPE09XB4	169.0	2630	11700	3822	17000	176	80
1.5 HP (1.1 kW)	9.6	2.1	9647	1090	BK60Z-../DPE09XB4	183.2	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	8.6	1.9	10798	1220	BK60Z-../DPE09XB4	205.0	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	8.5	1.05	8939	1010	BK50Z-../DPE09XB4	206.8	3170	14100	5845	26000	240	109
1.5 HP (1.1 kW)	7.4	1.65	12480	1410	BK60Z-../DPE09XB4	239.7	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	6.7	0.83	11240	1270	BK50Z-../DPE09XB4	264.5	3170	14100	5845	26000	240	109
1.5 HP (1.1 kW)	6.6	1.45	14073	1590	BK60Z-../DPE09XB4	268.2	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	6.0	3.0	15489	1750	BK70Z-../DPE09XB4	293.3	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	5.6	1.25	16551	1870	BK60Z-../DPE09XB4	317.7	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	5.3	2.6	17524	1980	BK70Z-../DPE09XB4	333.6	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	5.0	1.1	18587	2100	BK60Z-../DPE09XB4	355.5	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	4.7	2.4	19472	2200	BK70Z-../DPE09XB4	379.9	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	4.3	0.96	21242	2400	BK60Z-../DPE09XB4	411.5	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	4.1	2.0	22569	2550	BK70Z-../DPE09XB4	432.1	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	3.9	0.87	23454	2650	BK60Z-../DPE09XB4	460.4	3732	16600	7644	34000	291	132
1.5 HP (1.1 kW)	3.5	1.75	26552	3000	BK70Z-../DPE09XB4	501.8	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	3.1	1.55	29650	3350	BK70Z-../DPE09XB4	570.8	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	2.8	1.4	33190	3750	BK70Z-../DPE09XB4	644.9	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	2.4	1.2	38501	4350	BK70Z-../DPE09XB4	733.6	5418	24100	11240	50000	485	220
1.5 HP (1.1 kW)	2.4	3.2	31420	3550	BK80G40-../DPE09XB4	756.3	6744	30000	16861	75000	794	360
1.5 HP (1.1 kW)	2.1	1.25	40713	4600	BK70G20-../DPE09XB4	847.7	5418	24100	11240	50000	481	218
1.5 HP (1.1 kW)	2.1	2.8	35846	4050	BK80G40-../DPE09XB4	847.2	6744	30000	16861	75000	794	360
1.5 HP (1.1 kW)	1.9	1.1	45139	5100	BK70G20-../DPE09XB4	964.6	5418	24100	11240	50000	481	218
1.5 HP (1.1 kW)	1.9	2.5	40713	4600	BK80G40-../DPE09XB4	963.0	6744	30000	16861	75000	794	360
1.5 HP (1.1 kW)	1.7	2.3	45139	5100	BK80G40-../DPE09XB4	1079	6744	30000	16861	75000	794	360
1.5 HP (1.1 kW)	1.6	0.93	53990	6100	BK70G20-../DPE09XB4	1139	5418	24100	11240	50000	481	218
1.5 HP (1.1 kW)	1.4	0.8	62840	7100	BK70G20-../DPE09XB4	1280	5418	24100	11240	50000	481	218
1.5 HP (1.1 kW)	1.4	1.8	56645	6400	BK80G40-../DPE09XB4	1307	6744	30000	16861	75000	794	360
1.5 HP (1.1 kW)	1.3	1.65	61070	6900	BK80G40-../DPE09XB4	1425	6744	30000	16861	75000	794	360
1.5 HP (1.1 kW)	1.3	2.7	60185	6800	BK90G50-../DPE09XB4	1363	11106	49400	26977	120000	1396	633
1.5 HP (1.1 kW)	1.2	1.55	66381	7500	BK80G40-../DPE09XB4	1583	6744	30000	16861	75000	794	360
1.5 HP (1.1 kW)	1.2	2.6	63725	7200	BK90G50-../DPE09XB4	1579	11106	49400	26977	120000	1396	633
1.5 HP (1.1 kW)	1.0	1.25	81427	9200	BK80G40-../DPE09XB4	1775	6744	30000	16861	75000	794	360

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
1.5 HP (1.1 kW)	1.0	2.1	77001	8700	BK90G50-../DPE09XB4	1803	11106	49400	26977	120000	1396	633
1.5 HP (1.1 kW)	0.9	1.9	85852	9700	BK90G50-../DPE09XB4	2016	11106	49400	26977	120000	1396	633
1.5 HP (1.1 kW)	0.65	1.3	123910	14000	BK90G50-../DPE09XB4	2764	11106	49400	26977	120000	1396	633
1.5 HP (1.1 kW)	0.6	1.2	136301	15400	BK90G50-../DPE09XB4	3065	11106	49400	26977	120000	1396	633

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
2 HP (1.5 kW)	395	2.9	292	33	BK10-../DPE09XB4	4.44	427	1900	-	-	88	40
2 HP (1.5 kW)	290	2.3	398	45	BK10-../DPE09XB4	6.02	472	2100	-	-	88	40
2 HP (1.5 kW)	230	2.0	504	57	BK10-../DPE09XB4	7.68	540	2400	-	-	88	40
2 HP (1.5 kW)	186	1.65	620	70	BK10-../DPE09XB4	9.40	607	2700	-	-	88	40
2 HP (1.5 kW)	177	3.1	655	74	BK20-../DPE09XB4	9.91	429	1910	1866	8300	110	50
2 HP (1.5 kW)	164	2.3	690	78	BK10-../DPE09XB4	10.70	787	3500	-	-	88	40
2 HP (1.5 kW)	150	2.7	770	87	BK20-../DPE09XB4	11.69	540	2400	1978	8800	110	50
2 HP (1.5 kW)	147	1.3	788	89	BK10-../DPE09XB4	11.93	697	3100	-	-	88	40
2 HP (1.5 kW)	125	3.1	920	104	BK30-../DPE09XB4	13.98	910	4050	2698	12000	123	56
2 HP (1.5 kW)	121	1.9	938	106	BK10-../DPE09XB4	14.50	877	3900	-	-	88	40
2 HP (1.5 kW)	119	3.1	956	108	BK20-../DPE09XB4	14.75	821	3650	2023	9000	110	50
2 HP (1.5 kW)	104	1.1	1089	123	BK10-../DPE09XB4	16.92	832	3700	-	-	88	40
2 HP (1.5 kW)	101	1.8	1142	129	BK20-../DPE09XB4	17.42	731	3250	2023	9000	110	50
2 HP (1.5 kW)	95	1.5	1195	135	BK10-../DPE09XB4	18.52	967	4300	-	-	88	40
2 HP (1.5 kW)	90	2.3	1266	143	BK20-../DPE09XB4	19.39	910	4050	2023	9000	110	50
2 HP (1.5 kW)	84	2.1	1372	155	BK30-../DPE09XB4	20.85	1124	5000	2698	12000	123	56
2 HP (1.5 kW)	78	1.2	1460	165	BK10-../DPE09XB4	22.65	1045	4650	-	-	88	40
2 HP (1.5 kW)	76	2.7	1496	169	BK30-../DPE09XB4	23.20	1326	5900	2698	12000	123	56
2 HP (1.5 kW)	72	1.85	1584	179	BK20-../DPE09XB4	24.29	1012	4500	2023	9000	110	50
2 HP (1.5 kW)	61	0.95	1859	210	BK10-../DPE09XB4	28.76	1169	5200	-	-	88	40
2 HP (1.5 kW)	61	1.55	1859	210	BK20-../DPE09XB4	28.66	1090	4850	2023	9000	110	50
2 HP (1.5 kW)	61	2.1	1859	210	BK30-../DPE09XB4	28.76	1461	6500	2698	12000	123	56
2 HP (1.5 kW)	52	1.85	2168	245	BK30-../DPE09XB4	33.70	1574	7000	2698	12000	123	56
2 HP (1.5 kW)	51	0.8	2213	250	BK10-../DPE09XB4	34.25	1259	5600	-	-	88	40
2 HP (1.5 kW)	51	3.1	2213	250	BK40-../DPE09XB4	34.61	1551	6900	3822	17000	168	76
2 HP (1.5 kW)	48	1.25	2345	265	BK20-../DPE09XB4	36.69	1214	5400	2023	9000	110	50
2 HP (1.5 kW)	43	2.6	2611	295	BK40-../DPE09XB4	40.88	1709	7600	3822	17000	168	76
2 HP (1.5 kW)	41	1.05	2744	310	BK20-../DPE09XB4	42.70	1304	5800	2023	9000	110	50
2 HP (1.5 kW)	41	1.45	2744	310	BK30-../DPE09XB4	42.89	1754	7800	2698	12000	123	56
2 HP (1.5 kW)	37	3.1	3009	340	BK50-../DPE09XB4	47.50	2271	10100	5778	25700	229	104
2 HP (1.5 kW)	35	1.25	3186	360	BK30-../DPE09XB4	50.27	1866	8300	2698	12000	123	56
2 HP (1.5 kW)	34.5	0.9	3231	365	BK20-../DPE09XB4	51.22	1416	6300	2023	9000	110	50
2 HP (1.5 kW)	34.5	2.1	3231	365	BK40-../DPE09XB4	51.18	1888	8400	3822	17000	168	76
2 HP (1.5 kW)	29.5	1.05	3762	425	BK30-../DPE09XB4	59.27	2001	8900	2698	12000	123	56
2 HP (1.5 kW)	29.5	1.85	3762	425	BK40-../DPE09XB4	59.66	2046	9100	3822	17000	168	76
2 HP (1.5 kW)	29	2.4	3806	430	BK50-../DPE09XB4	60.76	2563	11400	5845	26000	229	104
2 HP (1.5 kW)	25	1.6	4381	495	BK40-../DPE09XB4	70.11	2203	9800	3822	17000	168	76
2 HP (1.5 kW)	24.5	0.9	4425	500	BK30-../DPE09XB4	71.56	2181	9700	2698	12000	123	56
2 HP (1.5 kW)	23.5	2.0	4691	530	BK50-../DPE09XB4	75.40	2833	12600	5845	26000	229	104
2 HP (1.5 kW)	21	1.3	5222	590	BK40-../DPE09XB4	84.36	2405	10700	3822	17000	168	76
2 HP (1.5 kW)	20	3.2	6284	710	BK60-../DPE09XB4	87.41	2900	12900	7644	34000	249	113
2 HP (1.5 kW)	18.5	1.6	5841	660	BK50-../DPE09XB4	95.29	3170	14100	5845	26000	229	104
2 HP (1.5 kW)	17.5	2.8	7169	810	BK60-../DPE09XB4	101.2	3125	13900	7644	34000	249	113

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·ft-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
2 HP (1.5 kW)	17	1.1	6284	710	BK40-../DPE09XB4	104.0	2630	11700	3822	17000	168	76
2 HP (1.5 kW)	15.5	1.35	6904	780	BK50Z-../DPE09XB4	115.4	3170	14100	5845	26000	240	109
2 HP (1.5 kW)	15.5	2.5	8143	920	BK60-../DPE09XB4	113.2	3372	15000	7644	34000	249	113
2 HP (1.5 kW)	15	0.96	7169	810	BK40Z-../DPE09XB4	118.2	2630	11700	3822	17000	176	80
2 HP (1.5 kW)	14.5	2.3	8674	980	BK60-../DPE09XB4	122.5	3485	15500	7644	34000	249	113
2 HP (1.5 kW)	13	2.1	9736	1100	BK60-../DPE09XB4	137.0	3732	16600	7644	34000	249	113
2 HP (1.5 kW)	12.5	0.81	8497	960	BK40Z-../DPE09XB4	143.0	2630	11700	3822	17000	176	80
2 HP (1.5 kW)	11.5	1.0	9116	1030	BK50Z-../DPE09XB4	153.3	3170	14100	5845	26000	240	109
2 HP (1.5 kW)	11.5	1.85	10975	1240	BK60Z-../DPE09XB4	153.7	3732	16600	7644	34000	291	132
2 HP (1.5 kW)	9.6	1.55	13188	1490	BK60Z-../DPE09XB4	183.2	3732	16600	7644	34000	291	132
2 HP (1.5 kW)	8.6	1.4	14692	1660	BK60Z-../DPE09XB4	205.0	3732	16600	7644	34000	291	132
2 HP (1.5 kW)	7.8	2.8	16197	1830	BK70Z-../DPE09XB4	226.2	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	7.3	1.15	17347	1960	BK60Z-../DPE09XB4	239.7	3732	16600	7644	34000	291	132
2 HP (1.5 kW)	6.8	2.5	18587	2100	BK70Z-../DPE09XB4	257.3	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	6.6	1.05	19029	2150	BK60Z-../DPE09XB4	268.2	3732	16600	7644	34000	291	132
2 HP (1.5 kW)	6.0	2.2	20799	2350	BK70Z-../DPE09XB4	293.3	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	5.5	0.88	23012	2600	BK60Z-../DPE09XB4	317.7	3732	16600	7644	34000	291	132
2 HP (1.5 kW)	5.3	1.95	23897	2700	BK70Z-../DPE09XB4	333.6	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	5.0	0.81	25225	2850	BK60Z-../DPE09XB4	355.5	3732	16600	7644	34000	291	132
2 HP (1.5 kW)	4.6	1.7	27437	3100	BK70Z-../DPE09XB4	379.9	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	4.1	1.5	30535	3450	BK70Z-../DPE09XB4	432.1	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	4.1	3.3	30535	3450	BK80Z-../DPE09XB4	435.7	6744	30000	16861	75000	769	349
2 HP (1.5 kW)	3.5	1.3	35846	4050	BK70Z-../DPE09XB4	501.8	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	3.5	2.8	35846	4050	BK80Z-../DPE09XB4	499.5	6744	30000	16861	75000	769	349
2 HP (1.5 kW)	3.2	2.6	39386	4450	BK80Z-../DPE09XB4	559.5	6744	30000	16861	75000	769	349
2 HP (1.5 kW)	3.1	1.15	40713	4600	BK70Z-../DPE09XB4	570.8	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	2.9	2.8	36731	4150	BK80G40-../DPE09XB4	607.8	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	2.8	1.0	45139	5100	BK70Z-../DPE09XB4	644.9	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	2.6	2.5	41156	4650	BK80G40-../DPE09XB4	680.9	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	2.5	3.2	50449	5700	BK90Z-../DPE09XB4	713.5	11106	49400	26977	120000	1371	622
2 HP (1.5 kW)	2.4	0.88	52219	5900	BK70Z-../DPE09XB4	733.6	5418	24100	11240	50000	485	220
2 HP (1.5 kW)	2.4	2.3	45139	5100	BK80G40-../DPE09XB4	756.3	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	2.1	0.89	56645	6400	BK70G20-../DPE09XB4	847.7	5418	24100	11240	50000	481	218
2 HP (1.5 kW)	2.1	1.95	52219	5900	BK80G40-../DPE09XB4	847.2	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	2.0	3.1	52219	5900	BK90G50-../DPE09XB4	882.3	11106	49400	26977	120000	1396	633
2 HP (1.5 kW)	1.9	0.8	62840	7100	BK70G20-../DPE09XB4	964.6	5418	24100	11240	50000	481	218
2 HP (1.5 kW)	1.9	1.75	58415	6600	BK80G40-../DPE09XB4	963.0	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	1.8	2.8	58415	6600	BK90G50-../DPE09XB4	1008	11106	49400	26977	120000	1396	633
2 HP (1.5 kW)	1.7	1.55	65496	7400	BK80G40-../DPE09XB4	1079	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	1.6	2.5	65496	7400	BK90G50-../DPE09XB4	1127	11106	49400	26977	120000	1396	633
2 HP (1.5 kW)	1.4	1.25	81427	9200	BK80G40-../DPE09XB4	1307	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	1.3	1.15	86737	9800	BK80G40-../DPE09XB4	1425	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	1.3	1.9	86737	9800	BK90G50-../DPE09XB4	1363	11106	49400	26977	120000	1396	633
2 HP (1.5 kW)	1.2	1.05	94703	10700	BK80G40-../DPE09XB4	1583	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	1.2	1.8	92048	10400	BK90G50-../DPE09XB4	1579	11106	49400	26977	120000	1396	633
2 HP (1.5 kW)	1.0	0.88	115060	13000	BK80G40-../DPE09XB4	1775	6744	30000	16861	75000	794	360
2 HP (1.5 kW)	1.0	1.45	111519	12600	BK90G50-../DPE09XB4	1803	11106	49400	26977	120000	1396	633
2 HP (1.5 kW)	0.9	1.35	123025	13900	BK90G50-../DPE09XB4	2016	11106	49400	26977	120000	1396	633

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

2.4 HP (1.8 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
2.4 HP (1.8 kW)	400	2.4	350	39.5	BK10-../DPE09XB4C	4.44	427	1900	-	-	95	43
2.4 HP (1.8 kW)	295	2.0	469	53	BK10-../DPE09XB4C	6.02	472	2100	-	-	95	43
2.4 HP (1.8 kW)	230	1.7	602	68	BK10-../DPE09XB4C	7.68	540	2400	-	-	95	43
2.4 HP (1.8 kW)	225	3.3	620	70	BK20-../DPE09XB4C	7.91	299	1330	1709	7600	115	52
2.4 HP (1.8 kW)	188	1.35	743	84	BK10-../DPE09XB4C	9.40	607	2700	-	-	95	43
2.4 HP (1.8 kW)	178	2.6	779	88	BK20-../DPE09XB4C	9.91	429	1910	1866	8300	115	52
2.4 HP (1.8 kW)	165	1.95	823	93	BK10-../DPE09XB4C	10.70	787	3500	-	-	95	43
2.4 HP (1.8 kW)	158	3.1	859	97	BK20-../DPE09XB4C	11.14	742	3300	1821	8100	115	52
2.4 HP (1.8 kW)	151	2.2	920	104	BK20-../DPE09XB4C	11.69	540	2400	1978	8800	115	52
2.4 HP (1.8 kW)	148	1.1	938	106	BK10-../DPE09XB4C	11.93	697	3100	-	-	95	43
2.4 HP (1.8 kW)	148	3.0	938	106	BK30-../DPE09XB4C	11.93	821	3650	2698	12000	128	58
2.4 HP (1.8 kW)	126	2.6	1097	124	BK30-../DPE09XB4C	13.98	910	4050	2698	12000	128	58
2.4 HP (1.8 kW)	122	1.6	1115	126	BK10-../DPE09XB4C	14.50	877	3900	-	-	95	43
2.4 HP (1.8 kW)	120	2.6	1133	128	BK20-../DPE09XB4C	14.75	821	3650	2023	9000	115	52
2.4 HP (1.8 kW)	105	0.93	1301	147	BK10-../DPE09XB4C	16.92	832	3700	-	-	95	43
2.4 HP (1.8 kW)	102	1.5	1354	153	BK20-../DPE09XB4C	17.42	731	3250	2023	9000	115	52
2.4 HP (1.8 kW)	99	2.9	1381	156	BK30-../DPE09XB4C	17.95	1191	5300	2698	12000	128	58
2.4 HP (1.8 kW)	96	1.25	1425	161	BK10-../DPE09XB4C	18.52	967	4300	-	-	95	43
2.4 HP (1.8 kW)	91	1.95	1505	170	BK20-../DPE09XB4C	19.39	910	4050	2023	9000	115	52
2.4 HP (1.8 kW)	85	1.75	1629	184	BK30-../DPE09XB4C	20.85	1124	5000	2698	12000	128	58
2.4 HP (1.8 kW)	78	1.0	1752	198	BK10-../DPE09XB4C	22.65	1045	4650	-	-	95	43
2.4 HP (1.8 kW)	76	2.3	1770	200	BK30-../DPE09XB4C	23.20	1326	5900	2698	12000	128	58
2.4 HP (1.8 kW)	73	1.55	1859	210	BK20-../DPE09XB4C	24.29	1012	4500	2023	9000	115	52
2.4 HP (1.8 kW)	62	0.82	2168	245	BK10-../DPE09XB4C	28.76	1169	5200	-	-	95	43
2.4 HP (1.8 kW)	62	1.35	2168	245	BK20-../DPE09XB4C	28.66	1090	4850	2023	9000	115	52
2.4 HP (1.8 kW)	62	1.85	2168	245	BK30-../DPE09XB4C	28.76	1461	6500	2698	12000	128	58
2.4 HP (1.8 kW)	62	3.2	2168	245	BK40-../DPE09XB4C	28.59	1416	6300	3822	17000	174	79
2.4 HP (1.8 kW)	53	1.55	2567	290	BK30-../DPE09XB4C	33.70	1574	7000	2698	12000	128	58
2.4 HP (1.8 kW)	51	2.6	2655	300	BK40-../DPE09XB4C	34.61	1551	6900	3822	17000	174	79
2.4 HP (1.8 kW)	48	1.05	2832	320	BK20-../DPE09XB4C	36.69	1214	5400	2023	9000	115	52
2.4 HP (1.8 kW)	43.5	2.2	3142	355	BK40-../DPE09XB4C	40.88	1709	7600	3822	17000	174	79
2.4 HP (1.8 kW)	41.5	0.89	3275	370	BK20-../DPE09XB4C	42.70	1304	5800	2023	9000	115	52
2.4 HP (1.8 kW)	41.5	1.25	3231	365	BK30-../DPE09XB4C	42.89	1754	7800	2698	12000	128	58
2.4 HP (1.8 kW)	37.5	2.6	3585	405	BK50-../DPE09XB4C	47.50	2271	10100	5778	25700	236	107
2.4 HP (1.8 kW)	35.5	1.05	3762	425	BK30-../DPE09XB4C	50.27	1866	8300	2698	12000	128	58
2.4 HP (1.8 kW)	34.5	1.8	3850	435	BK40-../DPE09XB4C	51.18	1888	8400	3822	17000	174	79
2.4 HP (1.8 kW)	30	0.9	4425	500	BK30-../DPE09XB4C	59.27	2001	8900	2698	12000	128	58
2.4 HP (1.8 kW)	30	1.55	4425	500	BK40-../DPE09XB4C	59.66	2046	9100	3822	17000	174	79
2.4 HP (1.8 kW)	29	2.0	4602	520	BK50-../DPE09XB4C	60.76	2563	11400	5845	26000	236	107
2.4 HP (1.8 kW)	25.5	1.35	5133	580	BK40-../DPE09XB4C	70.11	2203	9800	3822	17000	174	79
2.4 HP (1.8 kW)	23.5	1.65	5576	630	BK50-../DPE09XB4C	75.40	2833	12600	5845	26000	236	107
2.4 HP (1.8 kW)	23	3.1	6550	740	BK60-../DPE09XB4C	78.13	2675	11900	7644	34000	254	115
2.4 HP (1.8 kW)	21	1.1	6284	710	BK40-../DPE09XB4C	84.36	2405	10700	3822	17000	174	79
2.4 HP (1.8 kW)	20.5	2.8	7346	830	BK60-../DPE09XB4C	87.41	2900	12900	7644	34000	254	115
2.4 HP (1.8 kW)	18.5	1.35	6992	790	BK50-../DPE09XB4C	95.29	3170	14100	5845	26000	236	107
2.4 HP (1.8 kW)	17.5	2.3	8674	980	BK60-../DPE09XB4C	101.2	3125	13900	7644	34000	254	115
2.4 HP (1.8 kW)	17	0.92	7523	850	BK40-../DPE09XB4C	104.0	2630	11700	3822	17000	174	79
2.4 HP (1.8 kW)	16	2.1	9470	1070	BK60-../DPE09XB4C	113.2	3372	15000	7644	34000	254	115
2.4 HP (1.8 kW)	15.5	1.1	8320	940	BK50Z-../DPE09XB4C	115.4	3170	14100	5845	26000	247	112
2.4 HP (1.8 kW)	15	0.8	8585	970	BK40Z-../DPE09XB4C	118.2	2630	11700	3822	17000	183	83
2.4 HP (1.8 kW)	14.5	1.95	10444	1180	BK60-../DPE09XB4C	122.5	3485	15500	7644	34000	254	115
2.4 HP (1.8 kW)	13	1.75	11683	1320	BK60-../DPE09XB4C	137.0	3732	16600	7644	34000	254	115
2.4 HP (1.8 kW)	11.5	0.85	10975	1240	BK50Z-../DPE09XB4C	153.3	3170	14100	5845	26000	247	112
2.4 HP (1.8 kW)	11.5	1.55	13188	1490	BK60Z-../DPE09XB4C	153.7	3732	16600	7644	34000	298	135
2.4 HP (1.8 kW)	10.5	3.2	14427	1630	BK70-../DPE09XB4C	175.7	5418	24100	11240	50000	445	202
2.4 HP (1.8 kW)	9.7	1.3	15666	1770	BK60Z-../DPE09XB4C	183.2	3732	16600	7644	34000	298	135
2.4 HP (1.8 kW)	9.3	2.8	16285	1840	BK70Z-../DPE09XB4C	190.4	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	8.6	1.15	17613	1990	BK60Z-../DPE09XB4C	205.0	3732	16600	7644	34000	298	135

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

2.4 HP (1.8 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
2.4 HP (1.8 kW)	7.8	2.4	19472	2200	BK70Z-../DPE09XB4C	226.2	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	7.4	1.0	20357	2300	BK60Z-../DPE09XB4C	239.7	3732	16600	7644	34000	298	135
2.4 HP (1.8 kW)	6.9	2.1	21684	2450	BK70Z-../DPE09XB4C	257.3	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	6.6	0.88	23012	2600	BK60Z-../DPE09XB4C	268.2	3732	16600	7644	34000	298	135
2.4 HP (1.8 kW)	6.1	1.85	24782	2800	BK70Z-../DPE09XB4C	293.3	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	5.3	1.65	28322	3200	BK70Z-../DPE09XB4C	333.6	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	4.7	1.4	32305	3650	BK70Z-../DPE09XB4C	379.9	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	4.6	3.1	32748	3700	BK80Z-../DPE09XB4C	389.0	6744	30000	16861	75000	774	351
2.4 HP (1.8 kW)	4.1	1.25	36731	4150	BK70Z-../DPE09XB4C	432.1	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	4.1	2.8	36731	4150	BK80Z-../DPE09XB4C	435.7	6744	30000	16861	75000	774	351
2.4 HP (1.8 kW)	3.6	1.1	42041	4750	BK70Z-../DPE09XB4C	501.8	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	3.6	2.4	42041	4750	BK80Z-../DPE09XB4C	499.5	6744	30000	16861	75000	774	351
2.4 HP (1.8 kW)	3.2	2.2	46909	5300	BK80Z-../DPE09XB4C	559.5	6744	30000	16861	75000	774	351
2.4 HP (1.8 kW)	3.1	0.95	48679	5500	BK70Z-../DPE09XB4C	570.8	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	2.9	2.3	45139	5100	BK80G40-../DPE09XB4C	607.8	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	2.8	0.85	53990	6100	BK70Z-../DPE09XB4C	644.9	5418	24100	11240	50000	492	223
2.4 HP (1.8 kW)	2.8	3.0	53990	6100	BK90Z-../DPE09XB4C	637.7	11106	49400	26977	120000	1376	624
2.4 HP (1.8 kW)	2.6	2.0	50449	5700	BK80G40-../DPE09XB4C	680.9	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	2.5	2.7	60185	6800	BK90Z-../DPE09XB4C	713.5	11106	49400	26977	120000	1376	624
2.4 HP (1.8 kW)	2.4	1.85	55760	6300	BK80G40-../DPE09XB4C	756.3	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	2.2	2.9	56645	6400	BK90G50-../DPE09XB4C	821.0	11106	49400	26977	120000	1400	635
2.4 HP (1.8 kW)	2.1	1.6	63725	7200	BK80G40-../DPE09XB4C	847.2	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	2.0	2.5	65496	7400	BK90G50-../DPE09XB4C	882.3	11106	49400	26977	120000	1400	635
2.4 HP (1.8 kW)	1.9	1.4	71691	8100	BK80G40-../DPE09XB4C	963.0	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	1.8	2.3	72576	8200	BK90G50-../DPE09XB4C	1008	11106	49400	26977	120000	1400	635
2.4 HP (1.8 kW)	1.7	1.3	79657	9000	BK80G40-../DPE09XB4C	1079	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	1.6	2.0	81427	9200	BK90G50-../DPE09XB4C	1127	11106	49400	26977	120000	1400	635
2.4 HP (1.8 kW)	1.4	1.05	99128	11200	BK80G40-../DPE09XB4C	1307	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	1.3	0.96	106209	12000	BK80G40-../DPE09XB4C	1425	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	1.3	1.55	106209	12000	BK90G50-../DPE09XB4C	1363	11106	49400	26977	120000	1400	635
2.4 HP (1.8 kW)	1.2	0.88	115945	13100	BK80G40-../DPE09XB4C	1583	6744	30000	16861	75000	800	363
2.4 HP (1.8 kW)	1.2	1.45	113290	12800	BK90G50-../DPE09XB4C	1579	11106	49400	26977	120000	1400	635
2.4 HP (1.8 kW)	1.0	1.2	136301	15400	BK90G50-../DPE09XB4C	1803	11106	49400	26977	120000	1400	635
2.4 HP (1.8 kW)	0.9	1.1	151348	17100	BK90G50-../DPE09XB4C	2016	11106	49400	26977	120000	1400	635

3 HP (2.2 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
3 HP (2.2 kW)	375	3.8	451	51	BK30-../DPE11LB4	4.73	348	1550	1978	8800	168	76
3 HP (2.2 kW)	295	3.3	575	65	BK30-../DPE11LB4	6.02	380	1690	2158	9600	168	76
3 HP (2.2 kW)	240	3.4	708	80	BK30-../DPE11LB4	7.45	495	2200	2338	10400	168	76
3 HP (2.2 kW)	183	3.0	929	105	BK30-../DPE11LB4	9.63	708	3150	2585	11500	168	76
3 HP (2.2 kW)	155	3.4	1071	121	BK30-../DPE11LB4	11.39	933	4150	2473	11000	168	76
3 HP (2.2 kW)	148	2.5	1151	130	BK30-../DPE11LB4	11.93	821	3650	2698	12000	168	76
3 HP (2.2 kW)	126	2.1	1336	151	BK30-../DPE11LB4	13.98	910	4050	2698	12000	168	76
3 HP (2.2 kW)	122	2.9	1363	154	BK30-../DPE11LB4	14.50	1102	4900	2698	12000	168	76
3 HP (2.2 kW)	99	2.4	1690	191	BK30-../DPE11LB4	17.95	1191	5300	2698	12000	168	76
3 HP (2.2 kW)	79	3.3	2080	235	BK40-../DPE11LB4	22.44	1236	5500	3709	16500	225	102
3 HP (2.2 kW)	76	1.85	2168	245	BK30-../DPE11LB4	23.20	1326	5900	2698	12000	168	76
3 HP (2.2 kW)	62	1.5	2655	300	BK30-../DPE11LB4	28.76	1461	6500	2698	12000	168	76
3 HP (2.2 kW)	62	2.6	2655	300	BK40-../DPE11LB4	28.59	1416	6300	3822	17000	225	102

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

3 HP (2.2 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
3 HP (2.2 kW)	53	1.25	3142	355	BK30-../DPE11LB4	33.70	1574	7000	2698	12000	168	76
3 HP (2.2 kW)	51	2.1	3275	370	BK40-../DPE11LB4	34.61	1551	6900	3822	17000	225	102
3 HP (2.2 kW)	50	2.8	3319	375	BK50-../DPE11LB4	35.21	1956	8700	5193	23100	291	132
3 HP (2.2 kW)	43.5	1.8	3806	430	BK40-../DPE11LB4	40.88	1709	7600	3822	17000	225	102
3 HP (2.2 kW)	37.5	2.1	4381	495	BK50-../DPE11LB4	47.50	2271	10100	5778	25700	291	132
3 HP (2.2 kW)	30	3.3	6196	700	BK60-../DPE11LB4	58.95	2226	9900	7081	31500	313	142
3 HP (2.2 kW)	29	1.65	5576	630	BK50-../DPE11LB4	60.76	2563	11400	5845	26000	291	132
3 HP (2.2 kW)	27	3.0	6815	770	BK60-../DPE11LB4	65.95	2450	10900	7419	33000	313	142
3 HP (2.2 kW)	23.5	1.35	6815	770	BK50-../DPE11LB4	75.40	2833	12600	5845	26000	291	132
3 HP (2.2 kW)	23	2.5	8054	910	BK60-../DPE11LB4	78.13	2675	11900	7644	34000	313	142
3 HP (2.2 kW)	20.5	2.3	9028	1020	BK60-../DPE11LB4	87.41	2900	12900	7644	34000	313	142
3 HP (2.2 kW)	17.5	1.9	10621	1200	BK60-../DPE11LB4	101.2	3125	13900	7644	34000	313	142
3 HP (2.2 kW)	16	1.75	11594	1310	BK60-../DPE11LB4	113.2	3372	15000	7644	34000	313	142
3 HP (2.2 kW)	14.5	1.6	12745	1440	BK60-../DPE11LB4	122.5	3485	15500	7644	34000	313	142
3 HP (2.2 kW)	13	1.45	14250	1610	BK60-../DPE11LB4	137.0	3732	16600	7644	34000	313	142
3 HP (2.2 kW)	13	3.2	14250	1610	BK60Z-../DPE11LB4	136.7	4654	20700	11240	50000	487	221
3 HP (2.2 kW)	11.5	1.25	16108	1820	BK60Z-../DPE11LB4	153.7	3732	16600	7644	34000	348	158
3 HP (2.2 kW)	11.5	2.9	16108	1820	BK70-../DPE11LB4	154.4	4923	21900	11240	50000	487	221
3 HP (2.2 kW)	10.5	2.6	17701	2000	BK70-../DPE11LB4	175.7	5418	24100	11240	50000	487	221
3 HP (2.2 kW)	9.7	1.05	19029	2150	BK60Z-../DPE11LB4	183.2	3732	16600	7644	34000	348	158
3 HP (2.2 kW)	9.3	2.3	19914	2250	BK70Z-../DPE11LB4	190.4	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	8.6	0.96	21242	2400	BK60Z-../DPE11LB4	205.0	3732	16600	7644	34000	348	158
3 HP (2.2 kW)	7.8	1.95	23454	2650	BK70Z-../DPE11LB4	226.2	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	7.4	0.82	24782	2800	BK60Z-../DPE11LB4	239.7	3732	16600	7644	34000	348	158
3 HP (2.2 kW)	6.9	1.75	26552	3000	BK70Z-../DPE11LB4	257.3	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	6.1	1.55	30093	3400	BK70Z-../DPE11LB4	293.3	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	5.9	3.2	31420	3550	BK80Z-../DPE11LB4	300.6	6744	30000	16861	75000	833	378
3 HP (2.2 kW)	5.3	1.3	34960	3950	BK70Z-../DPE11LB4	333.6	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	5.3	2.9	34960	3950	BK80Z-../DPE11LB4	336.7	6744	30000	16861	75000	833	378
3 HP (2.2 kW)	4.7	1.15	39386	4450	BK70Z-../DPE11LB4	379.9	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	4.6	2.5	40271	4550	BK80Z-../DPE11LB4	389.0	6744	30000	16861	75000	833	378
3 HP (2.2 kW)	4.1	1.0	45139	5100	BK70Z-../DPE11LB4	432.1	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	4.1	2.3	45139	5100	BK80Z-../DPE11LB4	435.7	6744	30000	16861	75000	833	378
3 HP (2.2 kW)	3.6	0.9	51334	5800	BK70Z-../DPE11LB4	501.8	5418	24100	11240	50000	545	247
3 HP (2.2 kW)	3.6	2.0	51334	5800	BK80Z-../DPE11LB4	499.5	6744	30000	16861	75000	833	378
3 HP (2.2 kW)	3.6	3.2	51334	5800	BK90Z-../DPE11LB4	499.2	11106	49400	26977	120000	1418	643
3 HP (2.2 kW)	3.2	1.75	57530	6500	BK80Z-../DPE11LB4	559.5	6744	30000	16861	75000	833	378
3 HP (2.2 kW)	3.2	2.8	57530	6500	BK90Z-../DPE11LB4	558.5	11106	49400	26977	120000	1418	643
3 HP (2.2 kW)	2.9	1.8	56645	6400	BK80G40-../DPE11LB4	607.8	6744	30000	16861	75000	851	386
3 HP (2.2 kW)	2.8	2.5	66381	7500	BK90Z-../DPE11LB4	637.7	11106	49400	26977	120000	1418	643
3 HP (2.2 kW)	2.6	1.6	63725	7200	BK80G40-../DPE11LB4	680.9	6744	30000	16861	75000	851	386
3 HP (2.2 kW)	2.5	2.2	74346	8400	BK90Z-../DPE11LB4	713.5	11106	49400	26977	120000	1418	643
3 HP (2.2 kW)	2.4	1.45	69921	7900	BK80G40-../DPE11LB4	756.3	6744	30000	16861	75000	851	386
3 HP (2.2 kW)	2.2	2.3	72576	8200	BK90G50-../DPE11LB4	821.0	11106	49400	26977	120000	1455	660
3 HP (2.2 kW)	2.1	1.3	79657	9000	BK80G40-../DPE11LB4	847.2	6744	30000	16861	75000	851	386
3 HP (2.2 kW)	2.0	2.0	82312	9300	BK90G50-../DPE11LB4	882.3	11106	49400	26977	120000	1455	660
3 HP (2.2 kW)	1.9	1.15	89393	10100	BK80G40-../DPE11LB4	963.0	6744	30000	16861	75000	851	386
3 HP (2.2 kW)	1.8	1.8	91163	10300	BK90G50-../DPE11LB4	1008	11106	49400	26977	120000	1455	660
3 HP (2.2 kW)	1.7	1.0	100013	11300	BK80G40-../DPE11LB4	1079	6744	30000	16861	75000	851	386
3 HP (2.2 kW)	1.6	1.6	102669	11600	BK90G50-../DPE11LB4	1127	11106	49400	26977	120000	1455	660
3 HP (2.2 kW)	1.4	0.83	123025	13900	BK80G40-../DPE11LB4	1307	6744	30000	16861	75000	851	386
3 HP (2.2 kW)	1.3	1.25	131876	14900	BK90G50-../DPE11LB4	1363	11106	49400	26977	120000	1455	660
3 HP (2.2 kW)	1.2	1.15	141612	16000	BK90G50-../DPE11LB4	1579	11106	49400	26977	120000	1455	660
3 HP (2.2 kW)	1.0	0.96	169934	19200	BK90G50-../DPE11LB4	1803	11106	49400	26977	120000	1455	660

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

4 HP (3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
4 HP (3 kW)	375	2.8	620	70	BK30-../DPE11LB4	4.73	348	1550	1978	8800	168	76
4 HP (3 kW)	295	2.4	788	89	BK30-../DPE11LB4	6.02	380	1690	2158	9600	168	76
4 HP (3 kW)	240	2.5	965	109	BK30-../DPE11LB4	7.45	495	2200	2338	10400	168	76
4 HP (3 kW)	183	2.2	1275	144	BK30-../DPE11LB4	9.63	708	3150	2585	11500	168	76
4 HP (3 kW)	155	2.5	1469	166	BK30-../DPE11LB4	11.39	933	4150	2473	11000	168	76
4 HP (3 kW)	149	2.8	1558	176	BK40-../DPE11LB4	11.86	398	1770	2743	12200	225	102
4 HP (3 kW)	148	1.8	1575	178	BK30-../DPE11LB4	11.93	821	3650	2698	12000	168	76
4 HP (3 kW)	126	1.55	1814	205	BK30-../DPE11LB4	13.98	910	4050	2698	12000	168	76
4 HP (3 kW)	122	2.1	1859	210	BK30-../DPE11LB4	14.50	1102	4900	2698	12000	168	76
4 HP (3 kW)	99	1.75	2301	260	BK30-../DPE11LB4	17.95	1191	5300	2698	12000	168	76
4 HP (3 kW)	99	2.8	2301	260	BK50-../DPE11LB4	17.92	1034	4600	3777	16800	291	132
4 HP (3 kW)	98	3.0	2301	260	BK40-../DPE11LB4	18.05	1102	4900	3440	15300	225	102
4 HP (3 kW)	79	2.4	2876	325	BK40-../DPE11LB4	22.44	1236	5500	3709	16500	225	102
4 HP (3 kW)	76	1.35	2965	335	BK30-../DPE11LB4	23.20	1326	5900	2698	12000	168	76
4 HP (3 kW)	67	2.8	3363	380	BK50-../DPE11LB4	26.51	1754	7800	4766	21200	291	132
4 HP (3 kW)	62	1.1	3673	415	BK30-../DPE11LB4	28.76	1461	6500	2698	12000	168	76
4 HP (3 kW)	62	1.9	3673	415	BK40-../DPE11LB4	28.59	1416	6300	3822	17000	225	102
4 HP (3 kW)	53	0.93	4293	485	BK30-../DPE11LB4	33.70	1574	7000	2698	12000	168	76
4 HP (3 kW)	51	1.55	4425	500	BK40-../DPE11LB4	34.61	1551	6900	3822	17000	225	102
4 HP (3 kW)	50	2.1	4514	510	BK50-../DPE11LB4	35.21	1956	8700	5193	23100	291	132
4 HP (3 kW)	43.5	1.3	5222	590	BK40-../DPE11LB4	40.88	1709	7600	3822	17000	225	102
4 HP (3 kW)	39.5	3.2	6373	720	BK60-../DPE11LB4	45.05	1843	8200	6362	28300	313	142
4 HP (3 kW)	37.5	1.55	5930	670	BK50-../DPE11LB4	47.50	2271	10100	5778	25700	291	132
4 HP (3 kW)	35	2.8	7169	810	BK60-../DPE11LB4	50.40	2046	9100	6699	29800	313	142
4 HP (3 kW)	30	2.4	8408	950	BK60-../DPE11LB4	58.95	2226	9900	7081	31500	313	142
4 HP (3 kW)	29	1.2	7612	860	BK50-../DPE11LB4	60.76	2563	11400	5845	26000	291	132
4 HP (3 kW)	27	2.2	9382	1060	BK60-../DPE11LB4	65.95	2450	10900	7419	33000	313	142
4 HP (3 kW)	23.5	0.99	9382	1060	BK50-../DPE11LB4	75.40	2833	12600	5845	26000	291	132
4 HP (3 kW)	23	1.85	10975	1240	BK60-../DPE11LB4	78.13	2675	11900	7644	34000	313	142
4 HP (3 kW)	20.5	1.65	12303	1390	BK60-../DPE11LB4	87.41	2900	12900	7644	34000	313	142
4 HP (3 kW)	17.5	1.4	14427	1630	BK60-../DPE11LB4	101.2	3125	13900	7644	34000	313	142
4 HP (3 kW)	17.5	3.2	14427	1630	BK70-../DPE11LB4	103.5	3867	17200	11240	50000	487	221
4 HP (3 kW)	16	1.3	15843	1790	BK60-../DPE11LB4	113.2	3372	15000	7644	34000	313	142
4 HP (3 kW)	15	2.7	16905	1910	BK70-../DPE11LB4	120.2	4181	18600	11240	50000	487	221
4 HP (3 kW)	14.5	1.15	17436	1970	BK60-../DPE11LB4	122.5	3485	15500	7644	34000	313	142
4 HP (3 kW)	13	1.05	19472	2200	BK60-../DPE11LB4	137.0	3732	16600	7644	34000	313	142
4 HP (3 kW)	13	2.4	19472	2200	BK70-../DPE11LB4	136.7	4654	20700	11240	50000	487	221
4 HP (3 kW)	11.5	0.94	21684	2450	BK60Z-../DPE11LB4	153.7	3732	16600	7644	34000	348	158
4 HP (3 kW)	11.5	2.1	21684	2450	BK70-../DPE11LB4	154.4	4923	21900	11240	50000	487	221
4 HP (3 kW)	10.5	1.95	23897	2700	BK70-../DPE11LB4	175.7	5418	24100	11240	50000	487	221
4 HP (3 kW)	9.3	1.7	26995	3050	BK70Z-../DPE11LB4	190.4	5418	24100	11240	50000	545	247
4 HP (3 kW)	7.8	1.4	32305	3650	BK70Z-../DPE11LB4	226.2	5418	24100	11240	50000	545	247
4 HP (3 kW)	7.8	3.2	32305	3650	BK80Z-../DPE11LB4	226.1	6744	30000	16861	75000	833	378
4 HP (3 kW)	7.0	2.8	35846	4050	BK80Z-../DPE11LB4	253.3	6744	30000	16861	75000	833	378
4 HP (3 kW)	6.9	1.25	36731	4150	BK70Z-../DPE11LB4	257.3	5418	24100	11240	50000	545	247
4 HP (3 kW)	6.1	1.1	41156	4650	BK70Z-../DPE11LB4	293.3	5418	24100	11240	50000	545	247
4 HP (3 kW)	5.9	2.4	42926	4850	BK80Z-../DPE11LB4	300.6	6744	30000	16861	75000	833	378
4 HP (3 kW)	5.3	0.96	47794	5400	BK70Z-../DPE11LB4	333.6	5418	24100	11240	50000	545	247
4 HP (3 kW)	5.3	2.1	47794	5400	BK80Z-../DPE11LB4	336.7	6744	30000	16861	75000	833	378
4 HP (3 kW)	4.7	0.87	53104	6000	BK70Z-../DPE11LB4	379.9	5418	24100	11240	50000	545	247
4 HP (3 kW)	4.6	1.85	54875	6200	BK80Z-../DPE11LB4	389.0	6744	30000	16861	75000	833	378
4 HP (3 kW)	4.6	3.0	54875	6200	BK90Z-../DPE11LB4	389.1	11106	49400	26977	120000	1418	643
4 HP (3 kW)	4.1	1.65	61070	6900	BK80Z-../DPE11LB4	435.7	6744	30000	16861	75000	833	378
4 HP (3 kW)	4.1	2.7	61070	6900	BK90Z-../DPE11LB4	435.3	11106	49400	26977	120000	1418	643
4 HP (3 kW)	3.6	1.45	69921	7900	BK80Z-../DPE11LB4	499.5	6744	30000	16861	75000	833	378
4 HP (3 kW)	3.6	2.3	69921	7900	BK90Z-../DPE11LB4	499.2	11106	49400	26977	120000	1418	643
4 HP (3 kW)	3.2	1.3	78772	8900	BK80Z-../DPE11LB4	559.5	6744	30000	16861	75000	833	378
4 HP (3 kW)	3.2	2.1	78772	8900	BK90Z-../DPE11LB4	558.5	11106	49400	26977	120000	1418	643

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

4 HP (3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
4 HP (3 kW)	2.9	1.25	80542	9100	BK80G40-../DPE11LB4	607.8	6744	30000	16861	75000	851	386
4 HP (3 kW)	2.8	1.8	90278	10200	BK90Z-../DPE11LB4	637.7	11106	49400	26977	120000	1418	643
4 HP (3 kW)	2.6	1.15	89393	10100	BK80G40-../DPE11LB4	680.9	6744	30000	16861	75000	851	386
4 HP (3 kW)	2.5	1.6	100899	11400	BK90Z-../DPE11LB4	713.5	11106	49400	26977	120000	1418	643
4 HP (3 kW)	2.4	1.05	98243	11100	BK80G40-../DPE11LB4	756.3	6744	30000	16861	75000	851	386
4 HP (3 kW)	2.2	1.6	102669	11600	BK90G50-../DPE11LB4	821.0	11106	49400	26977	120000	1455	660
4 HP (3 kW)	2.1	0.91	112404	12700	BK80G40-../DPE11LB4	847.2	6744	30000	16861	75000	851	386
4 HP (3 kW)	2.0	1.4	115945	13100	BK90G50-../DPE11LB4	882.3	11106	49400	26977	120000	1455	660
4 HP (3 kW)	1.9	0.82	124796	14100	BK80G40-../DPE11LB4	963.0	6744	30000	16861	75000	851	386
4 HP (3 kW)	1.8	1.3	128336	14500	BK90G50-../DPE11LB4	1008	11106	49400	26977	120000	1455	660
4 HP (3 kW)	1.6	1.15	145152	16400	BK90G50-../DPE11LB4	1127	11106	49400	26977	120000	1455	660
4 HP (3 kW)	1.3	0.89	184096	20800	BK90G50-../DPE11LB4	1363	11106	49400	26977	120000	1455	660
4 HP (3 kW)	1.2	0.83	197372	22300	BK90G50-../DPE11LB4	1579	11106	49400	26977	120000	1455	660

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5 HP (3.7 kW)	375	2.3	761	86	BK30-../DPE11LB4	4.73	348	1550	1978	8800	168	76
5 HP (3.7 kW)	295	1.95	974	110	BK30-../DPE11LB4	6.02	380	1690	2158	9600	168	76
5 HP (3.7 kW)	240	2.0	1195	135	BK30-../DPE11LB4	7.45	495	2200	2338	10400	168	76
5 HP (3.7 kW)	190	2.9	1513	171	BK40-../DPE11LB4	9.31	234	1040	2518	11200	225	102
5 HP (3.7 kW)	183	1.8	1567	177	BK30-../DPE11LB4	9.63	708	3150	2585	11500	168	76
5 HP (3.7 kW)	155	2.0	1814	205	BK30-../DPE11LB4	11.39	933	4150	2473	11000	168	76
5 HP (3.7 kW)	149	2.3	1903	215	BK40-../DPE11LB4	11.86	398	1770	2743	12200	225	102
5 HP (3.7 kW)	148	1.5	1903	215	BK30-../DPE11LB4	11.93	821	3650	2698	12000	168	76
5 HP (3.7 kW)	126	1.25	2257	255	BK30-../DPE11LB4	13.98	910	4050	2698	12000	168	76
5 HP (3.7 kW)	122	1.75	2301	260	BK30-../DPE11LB4	14.50	1102	4900	2698	12000	168	76
5 HP (3.7 kW)	122	3.0	2301	260	BK40-../DPE11LB4	14.50	1012	4500	3215	14300	225	102
5 HP (3.7 kW)	99	1.4	2832	320	BK30-../DPE11LB4	17.95	1191	5300	2698	12000	168	76
5 HP (3.7 kW)	99	2.3	2832	320	BK50-../DPE11LB4	17.92	1034	4600	3777	16800	291	132
5 HP (3.7 kW)	98	2.4	2832	320	BK40-../DPE11LB4	18.05	1102	4900	3440	15300	225	102
5 HP (3.7 kW)	92	3.0	3054	345	BK50-../DPE11LB4	19.33	1551	6900	4316	19200	291	132
5 HP (3.7 kW)	79	1.95	3540	400	BK40-../DPE11LB4	22.44	1236	5500	3709	16500	225	102
5 HP (3.7 kW)	76	1.1	3673	415	BK30-../DPE11LB4	23.20	1326	5900	2698	12000	168	76
5 HP (3.7 kW)	67	2.2	4160	470	BK50-../DPE11LB4	26.51	1754	7800	4766	21200	291	132
5 HP (3.7 kW)	62	0.88	4514	510	BK30-../DPE11LB4	28.76	1461	6500	2698	12000	168	76
5 HP (3.7 kW)	62	1.55	4514	510	BK40-../DPE11LB4	28.59	1416	6300	3822	17000	225	102
5 HP (3.7 kW)	51	1.25	5487	620	BK40-../DPE11LB4	34.61	1551	6900	3822	17000	225	102
5 HP (3.7 kW)	50	1.65	5576	630	BK50-../DPE11LB4	35.21	1956	8700	5193	23100	291	132
5 HP (3.7 kW)	47	3.1	6638	750	BK60-../DPE11LB4	37.80	1641	7300	5957	26500	313	142
5 HP (3.7 kW)	43.5	1.05	6461	730	BK40-../DPE11LB4	40.88	1709	7600	3822	17000	225	102
5 HP (3.7 kW)	39.5	2.6	7877	890	BK60-../DPE11LB4	45.05	1843	8200	6362	28300	313	142
5 HP (3.7 kW)	37.5	1.25	7346	830	BK50-../DPE11LB4	47.50	2271	10100	5778	25700	291	132
5 HP (3.7 kW)	35	2.3	8851	1000	BK60-../DPE11LB4	50.40	2046	9100	6699	29800	313	142
5 HP (3.7 kW)	30	1.95	10355	1170	BK60-../DPE11LB4	58.95	2226	9900	7081	31500	313	142
5 HP (3.7 kW)	29	0.98	9470	1070	BK50-../DPE11LB4	60.76	2563	11400	5845	26000	291	132
5 HP (3.7 kW)	27	1.75	11506	1300	BK60-../DPE11LB4	65.95	2450	10900	7419	33000	313	142
5 HP (3.7 kW)	23.5	0.81	11506	1300	BK50-../DPE11LB4	75.40	2833	12600	5845	26000	291	132
5 HP (3.7 kW)	23	1.5	13542	1530	BK60-../DPE11LB4	78.13	2675	11900	7644	34000	313	142
5 HP (3.7 kW)	22.5	3.3	13896	1570	BK70-../DPE11LB4	79.89	3215	14300	10701	47600	487	221
5 HP (3.7 kW)	20.5	1.35	15223	1720	BK60-../DPE11LB4	87.41	2900	12900	7644	34000	313	142

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5 HP (3.7 kW)	19.5	2.9	16020	1810	BK70-../DPE11LB4	90.96	3440	15300	11218	49900	487	221
5 HP (3.7 kW)	17.5	1.15	17701	2000	BK60-../DPE11LB4	101.2	3125	13900	7644	34000	313	142
5 HP (3.7 kW)	17.5	2.6	17701	2000	BK70-../DPE11LB4	103.5	3867	17200	11240	50000	487	221
5 HP (3.7 kW)	16	1.05	19472	2200	BK60-../DPE11LB4	113.2	3372	15000	7644	34000	313	142
5 HP (3.7 kW)	15	2.2	20799	2350	BK70-../DPE11LB4	120.2	4181	18600	11240	50000	487	221
5 HP (3.7 kW)	14.5	0.96	21242	2400	BK60-../DPE11LB4	122.5	3485	15500	7644	34000	313	142
5 HP (3.7 kW)	13	0.85	23897	2700	BK60-../DPE11LB4	137.0	3732	16600	7644	34000	313	142
5 HP (3.7 kW)	13	1.95	23897	2700	BK70-../DPE11LB4	136.7	4654	20700	11240	50000	487	221
5 HP (3.7 kW)	11.5	1.7	26995	3050	BK70-../DPE11LB4	154.4	4923	21900	11240	50000	487	221
5 HP (3.7 kW)	10.5	1.55	29650	3350	BK70-../DPE11LB4	175.7	5418	24100	11240	50000	487	221
5 HP (3.7 kW)	10.5	3.1	29650	3350	BK80-../DPE11LB4	171.5	6744	30000	16861	75000	741	336
5 HP (3.7 kW)	10	3.3	30978	3500	BK80Z-../DPE11LB4	177.6	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	9.3	1.4	33190	3750	BK70Z-../DPE11LB4	190.4	5418	24100	11240	50000	545	247
5 HP (3.7 kW)	8.9	2.9	34960	3950	BK80Z-../DPE11LB4	198.9	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	7.8	1.15	39828	4500	BK70Z-../DPE11LB4	226.2	5418	24100	11240	50000	545	247
5 HP (3.7 kW)	7.8	2.6	39828	4500	BK80Z-../DPE11LB4	226.1	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	7.0	2.3	44254	5000	BK80Z-../DPE11LB4	253.3	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	6.9	1.0	45139	5100	BK70Z-../DPE11LB4	257.3	5418	24100	11240	50000	545	247
5 HP (3.7 kW)	6.1	0.91	50449	5700	BK70Z-../DPE11LB4	293.3	5418	24100	11240	50000	545	247
5 HP (3.7 kW)	6.0	3.2	51334	5800	BK90Z-../DPE11LB4	295.6	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	5.9	1.95	52219	5900	BK80Z-../DPE11LB4	300.6	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	5.4	2.8	57530	6500	BK90Z-../DPE11LB4	330.7	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	5.3	1.75	58415	6600	BK80Z-../DPE11LB4	336.7	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	4.6	1.5	67266	7600	BK80Z-../DPE11LB4	389.0	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	4.6	2.4	67266	7600	BK90Z-../DPE11LB4	389.1	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	4.1	1.35	76116	8600	BK80Z-../DPE11LB4	435.7	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	4.1	2.2	76116	8600	BK90Z-../DPE11LB4	435.3	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	3.6	1.15	86737	9800	BK80Z-../DPE11LB4	499.5	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	3.6	1.9	86737	9800	BK90Z-../DPE11LB4	499.2	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	3.2	1.05	97358	11000	BK80Z-../DPE11LB4	559.5	6744	30000	16861	75000	833	378
5 HP (3.7 kW)	3.2	1.7	97358	11000	BK90Z-../DPE11LB4	558.5	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	2.9	1.0	100899	11400	BK80G40-../DPE11LB4	607.8	6744	30000	16861	75000	851	386
5 HP (3.7 kW)	2.8	1.45	111519	12600	BK90Z-../DPE11LB4	637.7	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	2.6	0.91	112404	12700	BK80G40-../DPE11LB4	680.9	6744	30000	16861	75000	851	386
5 HP (3.7 kW)	2.5	1.3	124796	14100	BK90Z-../DPE11LB4	713.5	11106	49400	26977	120000	1418	643
5 HP (3.7 kW)	2.4	0.83	123025	13900	BK80G40-../DPE11LB4	756.3	6744	30000	16861	75000	851	386
5 HP (3.7 kW)	2.2	1.25	130106	14700	BK90G50-../DPE11LB4	821.0	11106	49400	26977	120000	1455	660
5 HP (3.7 kW)	2.0	1.15	145152	16400	BK90G50-../DPE11LB4	882.3	11106	49400	26977	120000	1455	660
5 HP (3.7 kW)	1.8	1.0	161084	18200	BK90G50-../DPE11LB4	1008	11106	49400	26977	120000	1455	660
5 HP (3.7 kW)	1.6	0.9	181440	20500	BK90G50-../DPE11LB4	1127	11106	49400	26977	120000	1455	660

5.5 HP (4.0 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5.5 HP (4.0 kW)	375	2.1	823	93	BK30-../DPE11LB4	4.73	348	1550	1978	8800	168	76
5.5 HP (4.0 kW)	295	1.8	1053	119	BK30-../DPE11LB4	6.02	380	1690	2158	9600	168	76
5.5 HP (4.0 kW)	240	1.85	1292	146	BK30-../DPE11LB4	7.45	495	2200	2338	10400	168	76
5.5 HP (4.0 kW)	235	3.3	1319	149	BK40-../DPE11LB4	7.49	169	750	2360	10500	225	102
5.5 HP (4.0 kW)	190	2.7	1629	184	BK40-../DPE11LB4	9.31	234	1040	2518	11200	225	102
5.5 HP (4.0 kW)	183	1.65	1699	192	BK30-../DPE11LB4	9.63	708	3150	2585	11500	168	76
5.5 HP (4.0 kW)	158	3.3	1903	215	BK40-../DPE11LB4	11.17	922	4100	2945	13100	225	102

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

5.5 HP (4.0 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
5.5 HP (4.0 kW)	155	1.9	1947	220	BK30-../DPE11LB4	11.39	933	4150	2473	11000	168	76
5.5 HP (4.0 kW)	149	2.1	2080	235	BK40-../DPE11LB4	11.86	398	1770	2743	12200	225	102
5.5 HP (4.0 kW)	148	1.35	2080	235	BK30-../DPE11LB4	11.93	821	3650	2698	12000	168	76
5.5 HP (4.0 kW)	126	1.15	2434	275	BK30-../DPE11LB4	13.98	910	4050	2698	12000	168	76
5.5 HP (4.0 kW)	122	1.6	2478	280	BK30-../DPE11LB4	14.50	1102	4900	2698	12000	168	76
5.5 HP (4.0 kW)	122	2.8	2478	280	BK40-../DPE11LB4	14.50	1012	4500	3215	14300	225	102
5.5 HP (4.0 kW)	99	1.3	3054	345	BK30-../DPE11LB4	17.95	1191	5300	2698	12000	168	76
5.5 HP (4.0 kW)	99	2.1	3098	350	BK50-../DPE11LB4	17.92	1034	4600	3777	16800	291	132
5.5 HP (4.0 kW)	98	2.2	3098	350	BK40-../DPE11LB4	18.05	1102	4900	3440	15300	225	102
5.5 HP (4.0 kW)	92	2.8	3275	370	BK50-../DPE11LB4	19.33	1551	6900	4316	19200	291	132
5.5 HP (4.0 kW)	79	1.8	3850	435	BK40-../DPE11LB4	22.44	1236	5500	3709	16500	225	102
5.5 HP (4.0 kW)	76	1.0	3983	450	BK30-../DPE11LB4	23.20	1326	5900	2698	12000	168	76
5.5 HP (4.0 kW)	67	2.1	4514	510	BK50-../DPE11LB4	26.51	1754	7800	4766	21200	291	132
5.5 HP (4.0 kW)	62	0.82	4868	550	BK30-../DPE11LB4	28.76	1461	6500	2698	12000	168	76
5.5 HP (4.0 kW)	62	1.4	4868	550	BK40-../DPE11LB4	28.59	1416	6300	3822	17000	225	102
5.5 HP (4.0 kW)	53	3.2	6373	720	BK60-../DPE11LB4	33.78	1461	6500	5665	25200	313	142
5.5 HP (4.0 kW)	51	1.15	5930	670	BK40-../DPE11LB4	34.61	1551	6900	3822	17000	225	102
5.5 HP (4.0 kW)	50	1.55	6019	680	BK50-../DPE11LB4	35.21	1956	8700	5193	23100	291	132
5.5 HP (4.0 kW)	47	2.8	7169	810	BK60-../DPE11LB4	37.80	1641	7300	5957	26500	313	142
5.5 HP (4.0 kW)	43.5	0.99	6992	790	BK40-../DPE11LB4	40.88	1709	7600	3822	17000	225	102
5.5 HP (4.0 kW)	39.5	2.4	8497	960	BK60-../DPE11LB4	45.05	1843	8200	6362	28300	313	142
5.5 HP (4.0 kW)	37.5	1.15	7966	900	BK50-../DPE11LB4	47.50	2271	10100	5778	25700	291	132
5.5 HP (4.0 kW)	35	2.1	9647	1090	BK60-../DPE11LB4	50.40	2046	9100	6699	29800	313	142
5.5 HP (4.0 kW)	30	1.8	11240	1270	BK60-../DPE11LB4	58.95	2226	9900	7081	31500	313	142
5.5 HP (4.0 kW)	29	0.91	10178	1150	BK50-../DPE11LB4	60.76	2563	11400	5845	26000	291	132
5.5 HP (4.0 kW)	27	1.65	12480	1410	BK60-../DPE11LB4	65.95	2450	10900	7419	33000	313	142
5.5 HP (4.0 kW)	23	1.4	14692	1660	BK60-../DPE11LB4	78.13	2675	11900	7644	34000	313	142
5.5 HP (4.0 kW)	22.5	3.1	14958	1690	BK70-../DPE11LB4	79.89	3215	14300	10701	47600	487	221
5.5 HP (4.0 kW)	20.5	1.25	16462	1860	BK60-../DPE11LB4	87.41	2900	12900	7644	34000	313	142
5.5 HP (4.0 kW)	19.5	2.7	17259	1950	BK70-../DPE11LB4	90.96	3440	15300	11218	49900	487	221
5.5 HP (4.0 kW)	17.5	1.05	19029	2150	BK60-../DPE11LB4	101.2	3125	13900	7644	34000	313	142
5.5 HP (4.0 kW)	17.5	2.4	19029	2150	BK70-../DPE11LB4	103.5	3867	17200	11240	50000	487	221
5.5 HP (4.0 kW)	16	0.98	20799	2350	BK60-../DPE11LB4	113.2	3372	15000	7644	34000	313	142
5.5 HP (4.0 kW)	15	2.1	22127	2500	BK70-../DPE11LB4	120.2	4181	18600	11240	50000	487	221
5.5 HP (4.0 kW)	14.5	0.88	23012	2600	BK60-../DPE11LB4	122.5	3485	15500	7644	34000	313	142
5.5 HP (4.0 kW)	13	1.8	25667	2900	BK70-../DPE11LB4	136.7	4654	20700	11240	50000	487	221
5.5 HP (4.0 kW)	11.5	1.6	29207	3300	BK70-../DPE11LB4	154.4	4923	21900	11240	50000	487	221
5.5 HP (4.0 kW)	11.5	3.2	29207	3300	BK80-../DPE11LB4	153.1	6115	27200	16861	75000	741	336
5.5 HP (4.0 kW)	10.5	1.45	31863	3600	BK70-../DPE11LB4	175.7	5418	24100	11240	50000	487	221
5.5 HP (4.0 kW)	10.5	2.9	31863	3600	BK80-../DPE11LB4	171.5	6744	30000	16861	75000	741	336
5.5 HP (4.0 kW)	10	3.0	33633	3800	BK80Z-../DPE11LB4	177.6	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	9.3	1.25	36288	4100	BK70Z-../DPE11LB4	190.4	5418	24100	11240	50000	545	247
5.5 HP (4.0 kW)	8.9	2.7	37616	4250	BK80Z-../DPE11LB4	198.9	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	7.8	1.05	42926	4850	BK70Z-../DPE11LB4	226.2	5418	24100	11240	50000	545	247
5.5 HP (4.0 kW)	7.8	2.4	42926	4850	BK80Z-../DPE11LB4	226.1	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	7.0	2.1	47794	5400	BK80Z-../DPE11LB4	253.3	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	6.9	0.95	48679	5500	BK70Z-../DPE11LB4	257.3	5418	24100	11240	50000	545	247
5.5 HP (4.0 kW)	6.8	3.3	49564	5600	BK90Z-../DPE11LB4	262.5	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	6.1	0.84	54875	6200	BK70Z-../DPE11LB4	293.3	5418	24100	11240	50000	545	247
5.5 HP (4.0 kW)	6.0	2.9	55760	6300	BK90Z-../DPE11LB4	295.6	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	5.9	1.8	56645	6400	BK80Z-../DPE11LB4	300.6	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	5.4	2.6	61955	7000	BK90Z-../DPE11LB4	330.7	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	5.3	1.6	63725	7200	BK80Z-../DPE11LB4	336.7	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	4.6	1.4	73461	8300	BK80Z-../DPE11LB4	389.0	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	4.6	2.2	73461	8300	BK90Z-../DPE11LB4	389.1	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	4.1	1.25	82312	9300	BK80Z-../DPE11LB4	435.7	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	4.1	2.0	82312	9300	BK90Z-../DPE11LB4	435.3	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	3.6	1.1	93818	10600	BK80Z-../DPE11LB4	499.5	6744	30000	16861	75000	833	378

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

5.5 HP (4.0 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
5.5 HP (4.0 kW)	3.6	1.75	93818	10600	BK90Z-../DPE11LB4	499.2	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	3.2	0.97	105324	11900	BK80Z-../DPE11LB4	559.5	6744	30000	16861	75000	833	378
5.5 HP (4.0 kW)	3.2	1.55	105324	11900	BK90Z-../DPE11LB4	558.5	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	2.9	0.93	109749	12400	BK80G40-../DPE11LB4	607.8	6744	30000	16861	75000	851	386
5.5 HP (4.0 kW)	2.8	1.35	120370	13600	BK90Z-../DPE11LB4	637.7	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	2.6	0.83	122140	13800	BK80G40-../DPE11LB4	680.9	6744	30000	16861	75000	851	386
5.5 HP (4.0 kW)	2.5	1.2	134531	15200	BK90Z-../DPE11LB4	713.5	11106	49400	26977	120000	1418	643
5.5 HP (4.0 kW)	2.2	1.15	141612	16000	BK90G50-../DPE11LB4	821.0	11106	49400	26977	120000	1455	660
5.5 HP (4.0 kW)	2.0	1.05	158428	17900	BK90G50-../DPE11LB4	882.3	11106	49400	26977	120000	1455	660
5.5 HP (4.0 kW)	1.8	0.93	175245	19800	BK90G50-../DPE11LB4	1008	11106	49400	26977	120000	1455	660
5.5 HP (4.0 kW)	1.6	0.83	197372	22300	BK90G50-../DPE11LB4	1127	11106	49400	26977	120000	1455	660

6 HP (4.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
6 HP (4.5 kW)	370	1.85	938	106	BK30-../DPE11LB4	4.73	348	1550	1978	8800	168	76
6 HP (4.5 kW)	295	1.6	1186	134	BK30-../DPE11LB4	6.02	380	1690	2158	9600	168	76
6 HP (4.5 kW)	235	1.6	1487	168	BK30-../DPE11LB4	7.45	495	2200	2338	10400	168	76
6 HP (4.5 kW)	235	2.9	1487	168	BK40-../DPE11LB4	7.49	169	750	2360	10500	225	102
6 HP (4.5 kW)	188	2.3	1859	210	BK40-../DPE11LB4	9.31	234	1040	2518	11200	225	102
6 HP (4.5 kW)	182	1.5	1903	215	BK30-../DPE11LB4	9.63	708	3150	2585	11500	168	76
6 HP (4.5 kW)	157	2.9	2168	245	BK40-../DPE11LB4	11.17	922	4100	2945	13100	225	102
6 HP (4.5 kW)	154	1.65	2213	250	BK30-../DPE11LB4	11.39	933	4150	2473	11000	168	76
6 HP (4.5 kW)	148	1.85	2345	265	BK40-../DPE11LB4	11.86	398	1770	2743	12200	225	102
6 HP (4.5 kW)	147	1.2	2345	265	BK30-../DPE11LB4	11.93	821	3650	2698	12000	168	76
6 HP (4.5 kW)	126	1.05	2744	310	BK30-../DPE11LB4	13.98	910	4050	2698	12000	168	76
6 HP (4.5 kW)	121	1.45	2788	315	BK40-../DPE11LB4	14.50	1102	4900	2698	12000	168	76
6 HP (4.5 kW)	121	2.5	2788	315	BK40-../DPE11LB4	14.50	1012	4500	3215	14300	225	102
6 HP (4.5 kW)	116	3.2	2921	330	BK50-../DPE11LB4	15.19	1416	6300	4047	18000	291	132
6 HP (4.5 kW)	98	1.15	3452	390	BK30-../DPE11LB4	17.95	1191	5300	2698	12000	168	76
6 HP (4.5 kW)	98	1.85	3496	395	BK50-../DPE11LB4	17.92	1034	4600	3777	16800	291	132
6 HP (4.5 kW)	97	1.95	3496	395	BK40-../DPE11LB4	18.05	1102	4900	3440	15300	225	102
6 HP (4.5 kW)	91	2.5	3762	425	BK50-../DPE11LB4	19.33	1551	6900	4316	19200	291	132
6 HP (4.5 kW)	78	1.6	4381	495	BK40-../DPE11LB4	22.44	1236	5500	3709	16500	225	102
6 HP (4.5 kW)	76	0.9	4425	500	BK30-../DPE11LB4	23.20	1326	5900	2698	12000	168	76
6 HP (4.5 kW)	67	1.85	5045	570	BK50-../DPE11LB4	26.51	1754	7800	4766	21200	291	132
6 HP (4.5 kW)	62	1.25	5487	620	BK40-../DPE11LB4	28.59	1416	6300	3822	17000	225	102
6 HP (4.5 kW)	52	2.8	7258	820	BK60-../DPE11LB4	33.78	1461	6500	5665	25200	313	142
6 HP (4.5 kW)	51	1.05	6638	750	BK40-../DPE11LB4	34.61	1551	6900	3822	17000	225	102
6 HP (4.5 kW)	50	1.35	6815	770	BK50-../DPE11LB4	35.21	1956	8700	5193	23100	291	132
6 HP (4.5 kW)	46.5	2.5	8143	920	BK60-../DPE11LB4	37.80	1641	7300	5957	26500	313	142
6 HP (4.5 kW)	43	0.88	7877	890	BK40-../DPE11LB4	40.88	1709	7600	3822	17000	225	102
6 HP (4.5 kW)	39	2.1	9736	1100	BK60-../DPE11LB4	45.05	1843	8200	6362	28300	313	142
6 HP (4.5 kW)	37	1.0	9116	1030	BK50-../DPE11LB4	47.50	2271	10100	5778	25700	291	132
6 HP (4.5 kW)	35	1.9	10798	1220	BK60-../DPE11LB4	50.40	2046	9100	6699	29800	313	142
6 HP (4.5 kW)	30	1.6	12657	1430	BK60-../DPE11LB4	58.95	2226	9900	7081	31500	313	142
6 HP (4.5 kW)	29	0.81	11506	1300	BK50-../DPE11LB4	60.76	2563	11400	5845	26000	291	132
6 HP (4.5 kW)	27	1.45	14073	1590	BK60-../DPE11LB4	65.95	2450	10900	7419	33000	313	142
6 HP (4.5 kW)	25	3.0	15135	1710	BK70-../DPE11LB4	70.23	2810	12500	10071	44800	487	221
6 HP (4.5 kW)	22.5	1.2	16905	1910	BK60-../DPE11LB4	78.13	2675	11900	7644	34000	313	142
6 HP (4.5 kW)	22	2.7	17259	1950	BK70-../DPE11LB4	79.89	3215	14300	10701	47600	487	221

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

6 HP (4.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
6 HP (4.5 kW)	20.5	1.1	18144	2050	BK60-../DPE11LB4	87.41	2900	12900	7644	34000	313	142
6 HP (4.5 kW)	19.5	2.4	19472	2200	BK70-../DPE11LB4	90.96	3440	15300	11218	49900	487	221
6 HP (4.5 kW)	17.5	0.94	21684	2450	BK60-../DPE11LB4	101.2	3125	13900	7644	34000	313	142
6 HP (4.5 kW)	17	2.1	22127	2500	BK70-../DPE11LB4	103.5	3867	17200	11240	50000	487	221
6 HP (4.5 kW)	15.5	0.84	24340	2750	BK60-../DPE11LB4	113.2	3372	15000	7644	34000	313	142
6 HP (4.5 kW)	15	1.8	25225	2850	BK70-../DPE11LB4	120.2	4181	18600	11240	50000	487	221
6 HP (4.5 kW)	13.5	3.3	27880	3150	BK80-../DPE11LB4	131.6	5598	24900	16861	75000	741	336
6 HP (4.5 kW)	13	1.6	29207	3300	BK70-../DPE11LB4	136.7	4654	20700	11240	50000	487	221
6 HP (4.5 kW)	11.5	1.4	32748	3700	BK70-../DPE11LB4	154.4	4923	21900	11240	50000	487	221
6 HP (4.5 kW)	11.5	2.8	32748	3700	BK80-../DPE11LB4	153.1	6115	27200	16861	75000	741	336
6 HP (4.5 kW)	10.5	2.6	35846	4050	BK80-../DPE11LB4	171.5	6744	30000	16861	75000	741	336
6 HP (4.5 kW)	10	1.2	37616	4250	BK70-../DPE11LB4	175.7	5418	24100	11240	50000	487	221
6 HP (4.5 kW)	9.9	2.7	38058	4300	BK80Z-../DPE11LB4	177.6	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	9.2	1.1	41156	4650	BK70Z-../DPE11LB4	190.4	5418	24100	11240	50000	545	247
6 HP (4.5 kW)	8.8	2.4	42926	4850	BK80Z-../DPE11LB4	198.9	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	7.8	0.95	48679	5500	BK70Z-../DPE11LB4	226.2	5418	24100	11240	50000	545	247
6 HP (4.5 kW)	7.8	2.1	48679	5500	BK80Z-../DPE11LB4	226.1	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	7.5	3.2	50449	5700	BK90Z-../DPE11LB4	234.6	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	7.0	1.9	53990	6100	BK80Z-../DPE11LB4	253.3	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	6.9	0.84	54875	6200	BK70Z-../DPE11LB4	257.3	5418	24100	11240	50000	545	247
6 HP (4.5 kW)	6.7	2.9	56645	6400	BK90Z-../DPE11LB4	262.5	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	6.0	2.6	62840	7100	BK90Z-../DPE11LB4	295.6	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	5.9	1.6	63725	7200	BK80Z-../DPE11LB4	300.6	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	5.3	2.3	71691	8100	BK90Z-../DPE11LB4	330.7	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	5.2	1.4	72576	8200	BK80Z-../DPE11LB4	336.7	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	4.5	1.2	84082	9500	BK80Z-../DPE11LB4	389.0	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	4.5	1.95	84082	9500	BK90Z-../DPE11LB4	389.1	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	4.1	1.1	92048	10400	BK80Z-../DPE11LB4	435.7	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	4.1	1.8	92048	10400	BK90Z-../DPE11LB4	435.3	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	3.6	0.97	105324	11900	BK80Z-../DPE11LB4	499.5	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	3.6	1.55	105324	11900	BK90Z-../DPE11LB4	499.2	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	3.2	0.86	118600	13400	BK80Z-../DPE11LB4	559.5	6744	30000	16861	75000	833	378
6 HP (4.5 kW)	3.2	1.4	118600	13400	BK90Z-../DPE11LB4	558.5	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	2.9	0.82	123910	14000	BK80G40-../DPE11LB4	607.8	6744	30000	16861	75000	851	386
6 HP (4.5 kW)	2.8	1.2	135416	15300	BK90Z-../DPE11LB4	637.7	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	2.5	1.1	151348	17100	BK90Z-../DPE11LB4	713.5	11106	49400	26977	120000	1418	643
6 HP (4.5 kW)	2.2	1.0	161084	18200	BK90G50-../DPE11LB4	821.0	11106	49400	26977	120000	1455	660
6 HP (4.5 kW)	2.0	0.91	179670	20300	BK90G50-../DPE11LB4	882.3	11106	49400	26977	120000	1455	660
6 HP (4.5 kW)	1.8	0.82	199142	22500	BK90G50-../DPE11LB4	1008	11106	49400	26977	120000	1455	660

7.5 HP (5.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
7.5 HP (5.5 kW)	485	7.3	876	99	BK50-../DPE13XA4	3.67	26	115	2113	9400	324	147
7.5 HP (5.5 kW)	340	5.7	1257	142	BK50-../DPE13XA4	5.26	29	130	2405	10700	324	147
7.5 HP (5.5 kW)	245	4.1	1744	197	BK50-../DPE13XA4	7.29	139	620	24954	111000	324	147
7.5 HP (5.5 kW)	182	3.7	2257	255	BK50-../DPE13XA4	9.73	1214	5400	3462	15400	324	147
7.5 HP (5.5 kW)	177	3.0	2390	270	BK50-../DPE13XA4	10.00	274	1220	2967	13200	324	147
7.5 HP (5.5 kW)	127	2.8	3275	370	BK50-../DPE13XA4	13.95	1371	6100	3912	17400	324	147
7.5 HP (5.5 kW)	117	2.6	3540	400	BK50-../DPE13XA4	15.19	1416	6300	4047	18000	324	147
7.5 HP (5.5 kW)	99	1.5	4248	480	BK50-../DPE13XA4	17.92	1034	4600	3777	16800	324	147

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

7.5 HP (5.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
7.5 HP (5.5 kW)	92	2.1	4514	510	BK50-../DPE13XA4	19.33	1551	6900	4316	19200	324	147
7.5 HP (5.5 kW)	73	3.2	6284	710	BK60-../DPE13XA4	24.45	1090	4850	4946	22000	351	159
7.5 HP (5.5 kW)	67	1.5	6196	700	BK50-../DPE13XA4	26.51	1754	7800	4766	21200	324	147
7.5 HP (5.5 kW)	65	2.9	7081	800	BK60-../DPE13XA4	27.36	1259	5600	5216	23200	351	159
7.5 HP (5.5 kW)	53	2.3	8762	990	BK60-../DPE13XA4	33.78	1461	6500	5665	25200	351	159
7.5 HP (5.5 kW)	51	1.15	8143	920	BK50-../DPE13XA4	35.21	1956	8700	5193	23100	324	147
7.5 HP (5.5 kW)	47	2.1	9824	1110	BK60-../DPE13XA4	37.80	1641	7300	5957	26500	351	159
7.5 HP (5.5 kW)	39.5	1.75	11683	1320	BK60-../DPE13XA4	45.05	1843	8200	6362	28300	351	159
7.5 HP (5.5 kW)	37.5	0.85	10975	1240	BK50-../DPE13XA4	47.50	2271	10100	5778	25700	324	147
7.5 HP (5.5 kW)	35.5	1.55	13011	1470	BK60-../DPE13XA4	50.40	2046	9100	6699	29800	351	159
7.5 HP (5.5 kW)	33	3.3	14073	1590	BK70-../DPE13XA4	54.15	2226	9900	9037	40200	525	238
7.5 HP (5.5 kW)	30.5	1.35	15223	1720	BK60-../DPE13XA4	58.95	2226	9900	7081	31500	351	159
7.5 HP (5.5 kW)	29	2.9	16020	1810	BK70-../DPE13XA4	61.60	2585	11500	9622	42800	525	238
7.5 HP (5.5 kW)	27	1.2	17170	1940	BK60-../DPE13XA4	65.95	2450	10900	7419	33000	351	159
7.5 HP (5.5 kW)	25.5	2.5	18144	2050	BK70-../DPE13XA4	70.23	2810	12500	10071	44800	525	238
7.5 HP (5.5 kW)	23	1.0	19914	2250	BK60-../DPE13XA4	78.13	2675	11900	7644	34000	351	159
7.5 HP (5.5 kW)	22.5	2.3	20357	2300	BK70-../DPE13XA4	79.89	3215	14300	10701	47600	525	238
7.5 HP (5.5 kW)	20.5	0.9	22569	2550	BK60-../DPE13XA4	87.41	2900	12900	7644	34000	351	159
7.5 HP (5.5 kW)	19.5	1.95	23454	2650	BK70-../DPE13XA4	90.96	3440	15300	11218	49900	525	238
7.5 HP (5.5 kW)	17.5	1.75	26552	3000	BK70-../DPE13XA4	103.5	3867	17200	11240	50000	525	238
7.5 HP (5.5 kW)	15.5	3.1	29650	3350	BK80-../DPE13XA4	117.5	5013	22300	16861	75000	776	352
7.5 HP (5.5 kW)	15	1.5	30978	3500	BK60-../DPE13XA4	120.2	4181	18600	11240	50000	525	238
7.5 HP (5.5 kW)	13.5	2.7	34075	3850	BK80-../DPE13XA4	131.6	5598	24900	16861	75000	776	352
7.5 HP (5.5 kW)	13	1.3	35403	4000	BK70-../DPE13XA4	136.7	4654	20700	11240	50000	525	238
7.5 HP (5.5 kW)	12	2.4	38501	4350	BK80-../DPE13XA4	153.1	6115	27200	16861	75000	776	352
7.5 HP (5.5 kW)	11.5	1.15	40271	4550	BK70-../DPE13XA4	154.4	4923	21900	11240	50000	525	238
7.5 HP (5.5 kW)	10.5	1.05	44254	5000	BK70-../DPE13XA4	175.7	5418	24100	11240	50000	525	238
7.5 HP (5.5 kW)	10.5	2.1	44254	5000	BK80-../DPE13XA4	171.5	6744	30000	16861	75000	776	352
7.5 HP (5.5 kW)	10	2.2	46024	5200	BK80Z-../DPE13XA4	177.6	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	9.3	0.93	49564	5600	BK70Z-../DPE13XA4	190.4	5418	24100	11240	50000	580	263
7.5 HP (5.5 kW)	9.1	3.2	50449	5700	BK90Z-../DPE13XA4	195.4	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	8.9	1.95	52219	5900	BK80Z-../DPE13XA4	198.9	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	7.9	1.75	58415	6600	BK80Z-../DPE13XA4	226.1	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	7.6	2.7	61070	6900	BK90Z-../DPE13XA4	234.6	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	7.0	1.55	66381	7500	BK80Z-../DPE13XA4	253.3	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	6.8	2.4	68151	7700	BK90Z-../DPE13XA4	262.5	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	6.0	2.1	77001	8700	BK90Z-../DPE13XA4	295.6	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	5.9	1.3	78772	8900	BK80Z-../DPE13XA4	300.6	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	5.4	1.9	85852	9700	BK90Z-../DPE13XA4	330.7	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	5.3	1.15	87622	9900	BK80Z-../DPE13XA4	336.7	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	4.6	1.0	100899	11400	BK80Z-../DPE13XA4	389.0	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	4.6	1.6	100899	11400	BK90Z-../DPE13XA4	389.1	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	4.1	0.9	113290	12800	BK80Z-../DPE13XA4	435.7	6744	30000	16861	75000	871	395
7.5 HP (5.5 kW)	4.1	1.45	113290	12800	BK90Z-../DPE13XA4	435.3	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	3.6	1.3	128336	14500	BK90Z-../DPE13XA4	499.2	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	3.2	1.15	145152	16400	BK90Z-../DPE13XA4	558.5	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	2.8	0.99	165509	18700	BK90Z-../DPE13XA4	637.7	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	2.5	0.88	185866	21000	BK90Z-../DPE13XA4	713.5	11106	49400	26977	120000	1455	660
7.5 HP (5.5 kW)	2.2	0.82	199142	22500	BK90G50-../DPE13XA4	821.0	11106	49400	26977	120000	1490	676

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

10 HP (7.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
10 HP (7.5 kW)	485	5.3	1195	135	BK50-../DPE13XA4	3.67	26	115	2113	9400	324	147
10 HP (7.5 kW)	340	4.2	1708	193	BK50-../DPE13XA4	5.26	29	130	2405	10700	324	147
10 HP (7.5 kW)	245	3.1	2345	265	BK50-../DPE13XA4	7.29	139	620	24954	111000	324	147
10 HP (7.5 kW)	182	2.7	3098	350	BK50-../DPE13XA4	9.73	1214	5400	3462	15400	324	147
10 HP (7.5 kW)	177	2.2	3275	370	BK50-../DPE13XA4	10.00	274	1220	2967	13200	324	147
10 HP (7.5 kW)	127	2.1	4425	500	BK50-../DPE13XA4	13.95	1371	6100	3912	17400	324	147
10 HP (7.5 kW)	123	3.3	5133	580	BK60-../DPE13XA4	14.41	821	3650	4181	18600	351	159
10 HP (7.5 kW)	117	1.9	4868	550	BK50-../DPE13XA4	15.19	1416	6300	4047	18000	324	147
10 HP (7.5 kW)	110	3.0	5753	650	BK60-../DPE13XA4	16.05	910	4050	4226	18800	351	159
10 HP (7.5 kW)	99	1.1	5753	650	BK50-../DPE13XA4	17.92	1034	4600	3777	16800	324	147
10 HP (7.5 kW)	97	3.0	6461	730	BK60-../DPE13XA4	18.36	899	4000	4474	19900	351	159
10 HP (7.5 kW)	92	1.5	6196	700	BK50-../DPE13XA4	19.33	1551	6900	4316	19200	324	147
10 HP (7.5 kW)	86	2.7	7346	830	BK60-../DPE13XA4	20.54	989	4400	4631	20600	351	159
10 HP (7.5 kW)	73	2.3	8674	980	BK60-../DPE13XA4	24.45	1090	4850	4946	22000	351	159
10 HP (7.5 kW)	67	1.1	8497	960	BK50-../DPE13XA4	26.51	1754	7800	4766	21200	324	147
10 HP (7.5 kW)	65	2.1	9736	1100	BK60-../DPE13XA4	27.36	1259	5600	5216	23200	351	159
10 HP (7.5 kW)	53	1.7	11949	1350	BK60-../DPE13XA4	33.78	1461	6500	5665	25200	351	159
10 HP (7.5 kW)	51	0.83	11152	1260	BK50-../DPE13XA4	35.21	1956	8700	5193	23100	324	147
10 HP (7.5 kW)	47	1.5	13453	1520	BK60-../DPE13XA4	37.80	1641	7300	5957	26500	351	159
10 HP (7.5 kW)	44.5	3.0	14161	1600	BK70-../DPE13XA4	40.08	1866	8300	8161	36300	525	238
10 HP (7.5 kW)	39.5	1.25	16020	1810	BK60-../DPE13XA4	45.05	1843	8200	6362	28300	351	159
10 HP (7.5 kW)	39	2.8	16197	1830	BK70-../DPE13XA4	45.59	2023	9000	8520	37900	525	238
10 HP (7.5 kW)	35.5	1.15	17701	2000	BK60-../DPE13XA4	50.40	2046	9100	6699	29800	351	159
10 HP (7.5 kW)	33	2.4	19029	2150	BK70-../DPE13XA4	54.15	2226	9900	9037	40200	525	238
10 HP (7.5 kW)	30	0.98	20799	2350	BK60-../DPE13XA4	58.95	2226	9900	7081	31500	351	159
10 HP (7.5 kW)	29	2.1	21684	2450	BK70-../DPE13XA4	61.60	2585	11500	9622	42800	525	238
10 HP (7.5 kW)	27	0.87	23454	2650	BK60-../DPE13XA4	65.95	2450	10900	7419	33000	351	159
10 HP (7.5 kW)	25.5	1.85	24782	2800	BK70-../DPE13XA4	70.23	2810	12500	10071	44800	525	238
10 HP (7.5 kW)	22.5	1.65	27880	3150	BK70-../DPE13XA4	79.89	3215	14300	10701	47600	525	238
10 HP (7.5 kW)	22.5	3.2	27880	3150	BK80-../DPE13XA4	79.22	3957	17600	16029	71300	776	352
10 HP (7.5 kW)	19.5	1.4	32305	3650	BK70-../DPE13XA4	90.96	3440	15300	11218	49900	525	238
10 HP (7.5 kW)	19.5	2.8	32305	3650	BK80-../DPE13XA4	91.53	4114	18300	16681	74200	776	352
10 HP (7.5 kW)	17.5	1.3	35846	4050	BK70-../DPE13XA4	103.5	3867	17200	11240	50000	525	238
10 HP (7.5 kW)	17.5	2.6	35846	4050	BK80-../DPE13XA4	102.5	4609	20500	16861	75000	776	352
10 HP (7.5 kW)	15.5	2.3	40713	4600	BK80-../DPE13XA4	117.5	5013	22300	16861	75000	776	352
10 HP (7.5 kW)	15	1.1	42041	4750	BK70-../DPE13XA4	120.2	4181	18600	11240	50000	525	238
10 HP (7.5 kW)	13.5	2.0	46909	5300	BK80-../DPE13XA4	131.6	5598	24900	16861	75000	776	352
10 HP (7.5 kW)	13.5	3.2	46909	5300	BK90-../DPE13XA4	130.9	9599	42700	26842	119400	1332	604
10 HP (7.5 kW)	13	0.95	48679	5500	BK70-../DPE13XA4	136.7	4654	20700	11240	50000	525	238
10 HP (7.5 kW)	12	1.8	52219	5900	BK80-../DPE13XA4	153.1	6115	27200	16861	75000	776	352
10 HP (7.5 kW)	12	2.8	52219	5900	BK90-../DPE13XA4	149.5	10251	45600	26977	120000	1332	604
10 HP (7.5 kW)	11.5	0.84	54875	6200	BK70-../DPE13XA4	154.4	4923	21900	11240	50000	525	238
10 HP (7.5 kW)	11	2.6	57530	6500	BK90-../DPE13XA4	167.2	11106	49400	26977	120000	1332	604
10 HP (7.5 kW)	10.5	1.55	60185	6800	BK80-../DPE13XA4	171.5	6744	30000	16861	75000	776	352
10 HP (7.5 kW)	10.5	2.7	60185	6800	BK90Z-../DPE13XA4	174.7	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	10	1.6	62840	7100	BK80Z-../DPE13XA4	177.6	6744	30000	16861	75000	871	395
10 HP (7.5 kW)	9.1	2.4	69036	7800	BK90Z-../DPE13XA4	195.4	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	8.9	1.45	70806	8000	BK80Z-../DPE13XA4	198.9	6744	30000	16861	75000	871	395
10 HP (7.5 kW)	7.9	1.3	79657	9000	BK80Z-../DPE13XA4	226.1	6744	30000	16861	75000	871	395
10 HP (7.5 kW)	7.6	1.95	83197	9400	BK90Z-../DPE13XA4	234.6	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	7.0	1.15	90278	10200	BK80Z-../DPE13XA4	253.3	6744	30000	16861	75000	871	395
10 HP (7.5 kW)	6.8	1.75	92933	10500	BK90Z-../DPE13XA4	262.5	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	6.0	1.55	105324	11900	BK90Z-../DPE13XA4	295.6	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	5.9	0.95	107094	12100	BK80Z-../DPE13XA4	300.6	6744	30000	16861	75000	871	395
10 HP (7.5 kW)	5.4	1.4	116830	13200	BK90Z-../DPE13XA4	330.7	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	5.3	0.85	119485	13500	BK80Z-../DPE13XA4	336.7	6744	30000	16861	75000	871	395
10 HP (7.5 kW)	4.6	1.2	137187	15500	BK90Z-../DPE13XA4	389.1	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	4.1	1.05	154003	17400	BK90Z-../DPE13XA4	435.3	11106	49400	26977	120000	1455	660

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

10 HP (7.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
10 HP (7.5 kW)	3.6	0.93	175245	19800	BK90Z-../DPE13XA4	499.2	11106	49400	26977	120000	1455	660
10 HP (7.5 kW)	3.2	0.83	197372	22300	BK90Z-../DPE13XA4	558.5	11106	49400	26977	120000	1455	660

12.75 HP (9.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
12.75 HP (9.5 kW)	490	4.2	1505	170	BK50-../DPE16LB4	3.67	26	115	2113	9400	403	183
12.75 HP (9.5 kW)	340	3.3	2168	245	BK50-../DPE16LB4	5.26	29	130	2405	10700	403	183
12.75 HP (9.5 kW)	245	2.4	3009	340	BK50-../DPE16LB4	7.29	139	620	24954	111000	403	183
12.75 HP (9.5 kW)	183	2.1	3939	445	BK50-../DPE16LB4	9.73	1214	5400	3462	15400	403	183
12.75 HP (9.5 kW)	178	1.75	4116	465	BK50-../DPE16LB4	10.00	274	1220	2967	13200	403	183
12.75 HP (9.5 kW)	165	3.1	4779	540	BK60-../DPE16LB4	10.82	719	3200	3822	17000	430	195
12.75 HP (9.5 kW)	144	3.0	5576	630	BK60-../DPE16LB4	12.38	787	3500	3912	17400	430	195
12.75 HP (9.5 kW)	129	2.8	6196	700	BK60-../DPE16LB4	13.85	866	3850	4047	18000	430	195
12.75 HP (9.5 kW)	128	1.65	5576	630	BK50-../DPE16LB4	13.95	1371	6100	3912	17400	403	183
12.75 HP (9.5 kW)	124	2.6	6461	730	BK60-../DPE16LB4	14.41	821	3650	4181	18600	430	195
12.75 HP (9.5 kW)	118	1.5	6107	690	BK50-../DPE16LB4	15.19	1416	6300	4047	18000	403	183
12.75 HP (9.5 kW)	111	2.4	7169	810	BK60-../DPE16LB4	16.05	910	4050	4226	18800	430	195
12.75 HP (9.5 kW)	100	0.88	7258	820	BK50-../DPE16LB4	17.92	1034	4600	3777	16800	403	183
12.75 HP (9.5 kW)	97	2.3	8231	930	BK60-../DPE16LB4	18.36	899	4000	4474	19900	430	195
12.75 HP (9.5 kW)	93	1.2	7700	870	BK50-../DPE16LB4	19.33	1551	6900	4316	19200	403	183
12.75 HP (9.5 kW)	87	2.2	9205	1040	BK60-../DPE16LB4	20.54	989	4400	4631	20600	430	195
12.75 HP (9.5 kW)	73	1.85	10975	1240	BK60-../DPE16LB4	24.45	1090	4850	4946	22000	430	195
12.75 HP (9.5 kW)	68	0.88	10621	1200	BK50-../DPE16LB4	26.51	1754	7800	4766	21200	403	183
12.75 HP (9.5 kW)	66	1.7	12126	1370	BK60-../DPE16LB4	27.36	1259	5600	5216	23200	430	195
12.75 HP (9.5 kW)	58	2.9	13807	1560	BK70-../DPE16LB4	30.90	1686	7500	7554	33600	613	278
12.75 HP (9.5 kW)	53	1.35	15135	1710	BK60-../DPE16LB4	33.78	1461	6500	5665	25200	430	195
12.75 HP (9.5 kW)	51	2.7	15666	1770	BK70-../DPE16LB4	35.15	1798	8000	7868	35000	613	278
12.75 HP (9.5 kW)	47.5	1.2	16905	1910	BK60-../DPE16LB4	37.80	1641	7300	5957	26500	430	195
12.75 HP (9.5 kW)	44.5	2.4	17701	2000	BK70-../DPE16LB4	40.08	1866	8300	8161	36300	613	278
12.75 HP (9.5 kW)	40	1.0	19914	2250	BK60-../DPE16LB4	45.05	1843	8200	6362	28300	430	195
12.75 HP (9.5 kW)	39.5	2.3	19914	2250	BK70-../DPE16LB4	45.59	2023	9000	8520	37900	613	278
12.75 HP (9.5 kW)	35.5	0.9	22569	2550	BK60-../DPE16LB4	50.40	2046	9100	6699	29800	430	195
12.75 HP (9.5 kW)	33.5	3.3	23897	2700	BK80-../DPE16LB4	53.21	3327	14800	14185	63100	855	388
12.75 HP (9.5 kW)	33	1.95	23897	2700	BK70-../DPE16LB4	54.15	2226	9900	9037	40200	613	278
12.75 HP (9.5 kW)	30	3.1	26552	3000	BK80-../DPE16LB4	59.60	3530	15700	14725	65500	855	388
12.75 HP (9.5 kW)	29	1.7	27437	3100	BK70-../DPE16LB4	61.60	2585	11500	9622	42800	613	278
12.75 HP (9.5 kW)	25.5	1.45	31420	3550	BK70-../DPE16LB4	70.23	2810	12500	10071	44800	613	278
12.75 HP (9.5 kW)	25.5	2.7	31420	3550	BK80-../DPE16LB4	70.72	3732	16600	15444	68700	855	388
12.75 HP (9.5 kW)	22.5	1.3	35403	4000	BK70-../DPE16LB4	79.89	3215	14300	10701	47600	613	278
12.75 HP (9.5 kW)	22.5	2.5	35403	4000	BK80-../DPE16LB4	79.22	3957	17600	16029	71300	855	388
12.75 HP (9.5 kW)	20	1.15	39828	4500	BK70-../DPE16LB4	90.96	3440	15300	11218	49900	613	278
12.75 HP (9.5 kW)	19.5	2.2	41156	4650	BK80-../DPE16LB4	91.53	4114	18300	16681	74200	855	388
12.75 HP (9.5 kW)	17.5	1.0	45139	5100	BK70-../DPE16LB4	103.5	3867	17200	11240	50000	613	278
12.75 HP (9.5 kW)	17.5	2.1	45139	5100	BK80-../DPE16LB4	102.5	4609	20500	16861	75000	855	388
12.75 HP (9.5 kW)	17.5	3.3	45139	5100	BK90-../DPE16LB4	102.0	8228	36600	24055	107000	1413	641
12.75 HP (9.5 kW)	15.5	1.8	51334	5800	BK80-../DPE16LB4	117.5	5013	22300	16861	75000	855	388
12.75 HP (9.5 kW)	15.5	2.9	51334	5800	BK90-../DPE16LB4	117.0	8813	39200	25403	113000	1413	641
12.75 HP (9.5 kW)	15	0.87	53104	6000	BK70-../DPE16LB4	120.2	4181	18600	11240	50000	613	278
12.75 HP (9.5 kW)	14	1.65	56645	6400	BK80-../DPE16LB4	131.6	5598	24900	16861	75000	855	388
12.75 HP (9.5 kW)	14	2.6	56645	6400	BK90-../DPE16LB4	130.9	9599	42700	26842	119400	1413	641

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

12.75 HP (9.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
12.75 HP (9.5 kW)	12	1.4	66381	7500	BK80-../DPE16LB4	153.1	6115	27200	16861	75000	855	388
12.75 HP (9.5 kW)	12	2.2	66381	7500	BK90-../DPE16LB4	149.5	10251	45600	26977	120000	1413	641
12.75 HP (9.5 kW)	11	2.0	72576	8200	BK90-../DPE16LB4	167.2	11106	49400	26977	120000	1413	641
12.75 HP (9.5 kW)	10.5	1.2	76116	8600	BK80-../DPE16LB4	171.5	6744	30000	16861	75000	855	388
12.75 HP (9.5 kW)	10.5	2.2	76116	8600	BK90Z-../DPE16LB4	174.7	11106	49400	26977	120000	1543	700
12.75 HP (9.5 kW)	9.2	1.9	86737	9800	BK90Z-../DPE16LB4	195.4	11106	49400	26977	120000	1543	700
12.75 HP (9.5 kW)	9.0	1.15	88507	10000	BK80Z-../DPE16LB4	198.9	6744	30000	16861	75000	950	431
12.75 HP (9.5 kW)	7.9	1.0	100899	11400	BK80Z-../DPE16LB4	226.1	6744	30000	16861	75000	950	431
12.75 HP (9.5 kW)	7.6	1.55	105324	11900	BK90Z-../DPE16LB4	234.6	11106	49400	26977	120000	1543	700
12.75 HP (9.5 kW)	7.1	0.91	112404	12700	BK80Z-../DPE16LB4	253.3	6744	30000	16861	75000	950	431
12.75 HP (9.5 kW)	6.8	1.4	117715	13300	BK90Z-../DPE16LB4	262.5	11106	49400	26977	120000	1543	700
12.75 HP (9.5 kW)	6.1	1.25	130991	14800	BK90Z-../DPE16LB4	295.6	11106	49400	26977	120000	1543	700
12.75 HP (9.5 kW)	5.4	1.1	148693	16800	BK90Z-../DPE16LB4	330.7	11106	49400	26977	120000	1543	700
12.75 HP (9.5 kW)	4.6	0.94	174360	19700	BK90Z-../DPE16LB4	389.1	11106	49400	26977	120000	1543	700
12.75 HP (9.5 kW)	4.1	0.84	195601	22100	BK90Z-../DPE16LB4	435.3	11106	49400	26977	120000	1543	700

15 HP (11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
15 HP (11 kW)	490	3.6	1744	197	BK50-../DPE16LB4	3.67	26	115	2113	9400	403	183
15 HP (11 kW)	340	2.9	2478	280	BK50-../DPE16LB4	5.26	29	130	2405	10700	403	183
15 HP (11 kW)	245	2.1	3452	390	BK50-../DPE16LB4	7.29	139	620	24954	111000	403	183
15 HP (11 kW)	183	1.85	4514	510	BK50-../DPE16LB4	9.73	1214	5400	3462	15400	403	183
15 HP (11 kW)	178	1.5	4779	540	BK50-../DPE16LB4	10.00	274	1220	2967	13200	403	183
15 HP (11 kW)	165	2.7	5576	630	BK60-../DPE16LB4	10.82	719	3200	3822	17000	430	195
15 HP (11 kW)	144	2.6	6373	720	BK60-../DPE16LB4	12.38	787	3500	3912	17400	430	195
15 HP (11 kW)	129	2.4	7169	810	BK60-../DPE16LB4	13.85	866	3850	4047	18000	430	195
15 HP (11 kW)	128	1.45	6461	730	BK50-../DPE16LB4	13.95	1371	6100	3912	17400	403	183
15 HP (11 kW)	124	2.3	7435	840	BK60-../DPE16LB4	14.41	821	3650	4181	18600	430	195
15 HP (11 kW)	118	1.3	7081	800	BK50-../DPE16LB4	15.19	1416	6300	4047	18000	403	183
15 HP (11 kW)	111	2.1	8320	940	BK60-../DPE16LB4	16.05	910	4050	4226	18800	430	195
15 HP (11 kW)	97	2.0	9559	1080	BK60-../DPE16LB4	18.36	899	4000	4474	19900	430	195
15 HP (11 kW)	93	1.05	8939	1010	BK50-../DPE16LB4	19.33	1551	6900	4316	19200	403	183
15 HP (11 kW)	87	1.9	10621	1200	BK60-../DPE16LB4	20.54	989	4400	4631	20600	430	195
15 HP (11 kW)	82	3.2	11329	1280	BK70-../DPE16LB4	21.88	1461	6500	6789	30200	613	278
15 HP (11 kW)	73	1.6	12657	1430	BK60-../DPE16LB4	24.45	1090	4850	4946	22000	430	195
15 HP (11 kW)	72	2.9	12834	1450	BK70-../DPE16LB4	24.89	1574	7000	7081	31500	613	278
15 HP (11 kW)	66	1.45	14073	1590	BK60-../DPE16LB4	27.36	1259	5600	5216	23200	430	195
15 HP (11 kW)	58	2.5	16020	1810	BK70-../DPE16LB4	30.90	1686	7500	7554	33600	613	278
15 HP (11 kW)	53	1.15	17524	1980	BK60-../DPE16LB4	33.78	1461	6500	5665	25200	430	195
15 HP (11 kW)	51	2.3	18144	2050	BK70-../DPE16LB4	35.15	1798	8000	7868	35000	613	278
15 HP (11 kW)	47.5	1.05	19472	2200	BK60-../DPE16LB4	37.80	1641	7300	5957	26500	430	195
15 HP (11 kW)	44.5	2.1	20799	2350	BK70-../DPE16LB4	40.08	1866	8300	8161	36300	613	278
15 HP (11 kW)	40	0.88	23012	2600	BK60-../DPE16LB4	45.05	1843	8200	6362	28300	430	195
15 HP (11 kW)	39.5	1.95	23454	2650	BK70-../DPE16LB4	45.59	2023	9000	8520	37900	613	278
15 HP (11 kW)	38.5	3.2	23897	2700	BK80-../DPE16LB4	46.80	3215	14300	13691	60900	855	388
15 HP (11 kW)	33.5	2.9	27437	3100	BK80-../DPE16LB4	53.21	3327	14800	14185	63100	855	388
15 HP (11 kW)	33	1.65	27880	3150	BK70-../DPE16LB4	54.15	2226	9900	9037	40200	613	278
15 HP (11 kW)	30	2.6	30978	3500	BK80-../DPE16LB4	59.60	3530	15700	14725	65500	855	388
15 HP (11 kW)	29	1.45	31863	3600	BK70-../DPE16LB4	61.60	2585	11500	9622	42800	613	278
15 HP (11 kW)	25.5	1.25	36288	4100	BK70-../DPE16LB4	70.23	2810	12500	10071	44800	613	278

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

15 HP (11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
15 HP (11 kW)	25.5	2.3	36288	4100	BK80-../DPE16LB4	70.72	3732	16600	15444	68700	855	388
15 HP (11 kW)	22.5	1.1	41156	4650	BK70-../DPE16LB4	79.89	3215	14300	10701	47600	613	278
15 HP (11 kW)	22.5	2.2	41156	4650	BK80-../DPE16LB4	79.22	3957	17600	16029	71300	855	388
15 HP (11 kW)	20	1.0	46024	5200	BK70-../DPE16LB4	90.96	3440	15300	11218	49900	613	278
15 HP (11 kW)	20	3.2	46024	5200	BK90-../DPE16LB4	91.19	7486	33300	22706	101000	1413	641
15 HP (11 kW)	19.5	1.95	46909	5300	BK80-../DPE16LB4	91.53	4114	18300	16681	74200	855	388
15 HP (11 kW)	17.5	0.87	53104	6000	BK70-../DPE16LB4	103.5	3867	17200	11240	50000	613	278
15 HP (11 kW)	17.5	1.75	53104	6000	BK80-../DPE16LB4	102.5	4609	20500	16861	75000	855	388
15 HP (11 kW)	17.5	2.8	53104	6000	BK90-../DPE16LB4	102.0	8228	36600	24055	107000	1413	641
15 HP (11 kW)	15.5	1.55	59300	6700	BK80-../DPE16LB4	117.5	5013	22300	16861	75000	855	388
15 HP (11 kW)	15.5	2.5	59300	6700	BK90-../DPE16LB4	117.0	8813	39200	25403	113000	1413	641
15 HP (11 kW)	14	1.4	66381	7500	BK80-../DPE16LB4	131.6	5598	24900	16861	75000	855	388
15 HP (11 kW)	14	2.2	66381	7500	BK90-../DPE16LB4	130.9	9599	42700	26842	119400	1413	641
15 HP (11 kW)	12	1.2	77001	8700	BK80-../DPE16LB4	153.1	6115	27200	16861	75000	855	388
15 HP (11 kW)	12	1.95	77001	8700	BK90-../DPE16LB4	149.5	10251	45600	26977	120000	1413	641
15 HP (11 kW)	11	1.75	84082	9500	BK90-../DPE16LB4	167.2	11106	49400	26977	120000	1413	641
15 HP (11 kW)	10.5	1.05	88507	10000	BK80-../DPE16LB4	171.5	6744	30000	16861	75000	855	388
15 HP (11 kW)	10.5	1.85	88507	10000	BK90Z-../DPE16LB4	174.7	11106	49400	26977	120000	1543	700
15 HP (11 kW)	9.2	1.6	100899	11400	BK90Z-../DPE16LB4	195.4	11106	49400	26977	120000	1543	700
15 HP (11 kW)	9.0	0.99	102669	11600	BK80Z-../DPE16LB4	198.9	6744	30000	16861	75000	950	431
15 HP (11 kW)	7.9	0.87	116830	13200	BK80Z-../DPE16LB4	226.1	6744	30000	16861	75000	950	431
15 HP (11 kW)	7.6	1.35	122140	13800	BK90Z-../DPE16LB4	234.6	11106	49400	26977	120000	1543	700
15 HP (11 kW)	6.8	1.2	136301	15400	BK90Z-../DPE16LB4	262.5	11106	49400	26977	120000	1543	700
15 HP (11 kW)	6.1	1.1	152233	17200	BK90Z-../DPE16LB4	295.6	11106	49400	26977	120000	1543	700
15 HP (11 kW)	5.4	0.95	171704	19400	BK90Z-../DPE16LB4	330.7	11106	49400	26977	120000	1543	700
15 HP (11 kW)	4.6	0.81	201797	22800	BK90Z-../DPE16LB4	389.1	11106	49400	26977	120000	1543	700

16.8 HP (12.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
16.8 HP (12.5 kW)	485	3.2	1991	225	BK50-../DPE16LB4	3.67	26	115	2113	9400	403	183
16.8 HP (12.5 kW)	340	2.5	2832	320	BK50-../DPE16LB4	5.26	29	130	2405	10700	403	183
16.8 HP (12.5 kW)	245	1.8	3939	445	BK50-../DPE16LB4	7.29	139	620	24954	111000	403	183
16.8 HP (12.5 kW)	245	3.0	4293	485	BK60-../DPE16LB4	7.29	629	2800	3350	14900	430	195
16.8 HP (12.5 kW)	182	1.6	5222	590	BK50-../DPE16LB4	9.73	1214	5400	3462	15400	403	183
16.8 HP (12.5 kW)	177	1.3	5487	620	BK50-../DPE16LB4	10.00	274	1220	2967	13200	403	183
16.8 HP (12.5 kW)	164	2.3	6373	720	BK60-../DPE16LB4	10.82	719	3200	3822	17000	430	195
16.8 HP (12.5 kW)	143	2.3	7346	830	BK60-../DPE16LB4	12.38	787	3500	3912	17400	430	195
16.8 HP (12.5 kW)	128	2.1	8231	930	BK60-../DPE16LB4	13.85	866	3850	4047	18000	430	195
16.8 HP (12.5 kW)	127	1.25	7435	840	BK50-../DPE16LB4	13.95	1371	6100	3912	17400	403	183
16.8 HP (12.5 kW)	123	2.0	8585	970	BK60-../DPE16LB4	14.41	821	3650	4181	18600	430	195
16.8 HP (12.5 kW)	117	1.15	8054	910	BK50-../DPE16LB4	15.19	1416	6300	4047	18000	403	183
16.8 HP (12.5 kW)	117	3.0	9028	1020	BK70-../DPE16LB4	15.16	1259	5600	5800	25800	613	278
16.8 HP (12.5 kW)	111	1.85	9470	1070	BK60-../DPE16LB4	16.05	910	4050	4226	18800	430	195
16.8 HP (12.5 kW)	103	3.0	10178	1150	BK70-../DPE16LB4	17.24	1461	6500	6564	29200	613	278
16.8 HP (12.5 kW)	97	1.75	10886	1230	BK60-../DPE16LB4	18.36	899	4000	4474	19900	430	195
16.8 HP (12.5 kW)	92	0.91	10267	1160	BK50-../DPE16LB4	19.33	1551	6900	4316	19200	403	183
16.8 HP (12.5 kW)	87	1.65	12126	1370	BK60-../DPE16LB4	20.54	989	4400	4631	20600	430	195
16.8 HP (12.5 kW)	81	2.8	13011	1470	BK70-../DPE16LB4	21.88	1461	6500	6789	30200	613	278
16.8 HP (12.5 kW)	73	1.4	14427	1630	BK60-../DPE16LB4	24.45	1090	4850	4946	22000	430	195
16.8 HP (12.5 kW)	72	2.6	14604	1650	BK70-../DPE16LB4	24.89	1574	7000	7081	31500	613	278

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

16.8 HP (12.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
16.8 HP (12.5 kW)	65	1.25	16197	1830	BK60-../DPE16LB4	27.36	1259	5600	5216	23200	430	195
16.8 HP (12.5 kW)	58	2.2	18144	2050	BK70-../DPE16LB4	30.90	1686	7500	7554	33600	613	278
16.8 HP (12.5 kW)	53	1.0	19914	2250	BK60-../DPE16LB4	33.78	1461	6500	5665	25200	430	195
16.8 HP (12.5 kW)	51	2.1	20357	2300	BK70-../DPE16LB4	35.15	1798	8000	7868	35000	613	278
16.8 HP (12.5 kW)	47	0.92	22127	2500	BK60-../DPE16LB4	37.80	1641	7300	5957	26500	430	195
16.8 HP (12.5 kW)	44.5	1.85	23454	2650	BK70-../DPE16LB4	40.08	1866	8300	8161	36300	613	278
16.8 HP (12.5 kW)	42.5	2.9	24782	2800	BK80-../DPE16LB4	41.78	3035	13500	13196	58700	855	388
16.8 HP (12.5 kW)	39	1.7	26995	3050	BK70-../DPE16LB4	45.59	2023	9000	8520	37900	613	278
16.8 HP (12.5 kW)	38	2.8	27437	3100	BK80-../DPE16LB4	46.80	3215	14300	13691	60900	855	388
16.8 HP (12.5 kW)	33.5	2.5	31420	3550	BK80-../DPE16LB4	53.21	3327	14800	14185	63100	855	388
16.8 HP (12.5 kW)	33	1.45	31863	3600	BK70-../DPE16LB4	54.15	2226	9900	9037	40200	613	278
16.8 HP (12.5 kW)	30	2.3	34960	3950	BK80-../DPE16LB4	59.60	3530	15700	14725	65500	855	388
16.8 HP (12.5 kW)	29	1.25	36288	4100	BK70-../DPE16LB4	61.60	2585	11500	9622	42800	613	278
16.8 HP (12.5 kW)	25.5	1.1	41156	4650	BK70-../DPE16LB4	70.23	2810	12500	10071	44800	613	278
16.8 HP (12.5 kW)	25.5	2.1	41156	4650	BK80-../DPE16LB4	70.72	3732	16600	15444	68700	855	388
16.8 HP (12.5 kW)	23	3.3	45139	5100	BK90-../DPE16LB4	77.51	6812	30300	21222	94400	1413	641
16.8 HP (12.5 kW)	22.5	0.98	46909	5300	BK70-../DPE16LB4	79.89	3215	14300	10701	47600	613	278
16.8 HP (12.5 kW)	22.5	1.9	46909	5300	BK80-../DPE16LB4	79.22	3957	17600	16029	71300	855	388
16.8 HP (12.5 kW)	19.5	0.85	53990	6100	BK70-../DPE16LB4	90.96	3440	15300	11218	49900	613	278
16.8 HP (12.5 kW)	19.5	1.7	53990	6100	BK80-../DPE16LB4	91.53	4114	18300	16681	74200	855	388
16.8 HP (12.5 kW)	19.5	2.8	53990	6100	BK90-../DPE16LB4	91.19	7486	33300	22706	101000	1413	641
16.8 HP (12.5 kW)	17.5	1.55	60185	6800	BK80-../DPE16LB4	102.5	4609	20500	16861	75000	855	388
16.8 HP (12.5 kW)	17.5	2.5	60185	6800	BK90-../DPE16LB4	102.0	8228	36600	24055	107000	1413	641
16.8 HP (12.5 kW)	15.5	1.35	68151	7700	BK80-../DPE16LB4	117.5	5013	22300	16861	75000	855	388
16.8 HP (12.5 kW)	15.5	2.2	68151	7700	BK90-../DPE16LB4	117.0	8813	39200	25403	113000	1413	641
16.8 HP (12.5 kW)	14	2.0	75231	8500	BK90-../DPE16LB4	130.9	9599	42700	26842	119400	1413	641
16.8 HP (12.5 kW)	13.5	1.2	77887	8800	BK80-../DPE16LB4	131.6	5598	24900	16861	75000	855	388
16.8 HP (12.5 kW)	12	1.05	87622	9900	BK80-../DPE16LB4	153.1	6115	27200	16861	75000	855	388
16.8 HP (12.5 kW)	12	1.7	87622	9900	BK90-../DPE16LB4	149.5	10251	45600	26977	120000	1413	641
16.8 HP (12.5 kW)	11	1.55	95588	10800	BK90-../DPE16LB4	167.2	11106	49400	26977	120000	1413	641
16.8 HP (12.5 kW)	10.5	0.93	100013	11300	BK80-../DPE16LB4	171.5	6744	30000	16861	75000	855	388
16.8 HP (12.5 kW)	10.5	1.65	100013	11300	BK90Z-../DPE16LB4	174.7	11106	49400	26977	120000	1543	700
16.8 HP (12.5 kW)	10	0.97	105324	11900	BK80Z-../DPE16LB4	177.6	6744	30000	16861	75000	950	431
16.8 HP (12.5 kW)	9.1	1.4	115945	13100	BK90Z-../DPE16LB4	195.4	11106	49400	26977	120000	1543	700
16.8 HP (12.5 kW)	8.9	0.86	118600	13400	BK80Z-../DPE16LB4	198.9	6744	30000	16861	75000	950	431
16.8 HP (12.5 kW)	7.6	1.2	138957	15700	BK90Z-../DPE16LB4	234.6	11106	49400	26977	120000	1543	700
16.8 HP (12.5 kW)	6.8	1.05	154888	17500	BK90Z-../DPE16LB4	262.5	11106	49400	26977	120000	1543	700
16.8 HP (12.5 kW)	6.0	0.93	175245	19800	BK90Z-../DPE16LB4	295.6	11106	49400	26977	120000	1543	700
16.8 HP (12.5 kW)	5.4	0.84	195601	22100	BK90Z-../DPE16LB4	330.7	11106	49400	26977	120000	1543	700

20 HP (15 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
20 HP (15 kW)	490	2.7	2345	265	BK50-../DPE16XB4	3.67	26	115	2113	9400	425	193
20 HP (15 kW)	340	2.1	3408	385	BK50-../DPE16XB4	5.26	29	130	2405	10700	425	193
20 HP (15 kW)	245	1.55	4691	530	BK50-../DPE16XB4	7.29	139	620	24954	111000	425	193
20 HP (15 kW)	245	2.5	5133	580	BK60-../DPE16XB4	7.29	629	2800	3350	14900	452	205
20 HP (15 kW)	183	1.35	6196	700	BK50-../DPE16XB4	9.73	1214	5400	3462	15400	425	193
20 HP (15 kW)	178	1.1	6550	740	BK50-../DPE16XB4	10.00	274	1220	2967	13200	425	193
20 HP (15 kW)	165	1.95	7612	860	BK60-../DPE16XB4	10.82	719	3200	3822	17000	452	205
20 HP (15 kW)	144	1.9	8762	990	BK60-../DPE16XB4	12.38	787	3500	3912	17400	452	205

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

20 HP (15 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·ft	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
20 HP (15 kW)	130	2.8	9736	1100	BK70-../DPE16XB4	13.70	1214	5400	5575	24800	635	288
20 HP (15 kW)	129	1.8	9824	1110	BK60-../DPE16XB4	13.85	866	3850	4047	18000	452	205
20 HP (15 kW)	128	1.05	8851	1000	BK50-../DPE16XB4	13.95	1371	6100	3912	17400	425	193
20 HP (15 kW)	124	1.7	10178	1150	BK60-../DPE16XB4	14.41	821	3650	4181	18600	452	205
20 HP (15 kW)	118	0.96	9647	1090	BK50-../DPE16XB4	15.19	1416	6300	4047	18000	425	193
20 HP (15 kW)	118	2.5	10709	1210	BK70-../DPE16XB4	15.16	1259	5600	5800	25800	635	288
20 HP (15 kW)	111	1.55	11417	1290	BK60-../DPE16XB4	16.05	910	4050	4226	18800	452	205
20 HP (15 kW)	104	2.6	12126	1370	BK70-../DPE16XB4	17.24	1461	6500	6564	29200	635	288
20 HP (15 kW)	97	1.5	13011	1470	BK60-../DPE16XB4	18.36	899	4000	4474	19900	452	205
20 HP (15 kW)	87	1.35	14515	1640	BK60-../DPE16XB4	20.54	989	4400	4631	20600	452	205
20 HP (15 kW)	82	2.3	15400	1740	BK70-../DPE16XB4	21.88	1461	6500	6789	30200	635	288
20 HP (15 kW)	73	1.15	17347	1960	BK60-../DPE16XB4	24.45	1090	4850	4946	22000	452	205
20 HP (15 kW)	72	2.2	17524	1980	BK70-../DPE16XB4	24.89	1574	7000	7081	31500	635	288
20 HP (15 kW)	66	1.05	19029	2150	BK60-../DPE16XB4	27.36	1259	5600	5216	23200	452	205
20 HP (15 kW)	59	3.1	21242	2400	BK80-../DPE16XB4	30.56	2675	11900	12005	53400	877	398
20 HP (15 kW)	58	1.85	21684	2450	BK70-../DPE16XB4	30.90	1686	7500	7554	33600	635	288
20 HP (15 kW)	53	0.85	23897	2700	BK60-../DPE16XB4	33.78	1461	6500	5665	25200	452	205
20 HP (15 kW)	53	2.9	23897	2700	BK80-../DPE16XB4	34.22	2833	12600	12454	55400	877	398
20 HP (15 kW)	51	1.7	24782	2800	BK70-../DPE16XB4	35.15	1798	8000	7868	35000	635	288
20 HP (15 kW)	44.5	1.5	28322	3200	BK70-../DPE16XB4	40.08	1866	8300	8161	36300	635	288
20 HP (15 kW)	43	2.5	29207	3300	BK80-../DPE16XB4	41.78	3035	13500	13196	58700	877	398
20 HP (15 kW)	39.5	1.4	31863	3600	BK70-../DPE16XB4	45.59	2023	9000	8520	37900	635	288
20 HP (15 kW)	38.5	2.3	32748	3700	BK80-../DPE16XB4	46.80	3215	14300	13691	60900	877	398
20 HP (15 kW)	33.5	2.1	37616	4250	BK80-../DPE16XB4	53.21	3327	14800	14185	63100	877	398
20 HP (15 kW)	33	1.2	38058	4300	BK70-../DPE16XB4	54.15	2226	9900	9037	40200	635	288
20 HP (15 kW)	30	1.95	42041	4750	BK80-../DPE16XB4	59.60	3530	15700	14725	65500	877	398
20 HP (15 kW)	29	1.05	43369	4900	BK70-../DPE16XB4	61.60	2585	11500	9622	42800	635	288
20 HP (15 kW)	26	3.1	48679	5500	BK80-../DPE16XB4	69.27	6115	27200	19986	88900	1435	651
20 HP (15 kW)	25.5	0.93	49564	5600	BK70-../DPE16XB4	70.23	2810	12500	10071	44800	635	288
20 HP (15 kW)	25.5	1.7	49564	5600	BK80-../DPE16XB4	70.72	3732	16600	15444	68700	877	398
20 HP (15 kW)	23	2.7	54875	6200	BK90-../DPE16XB4	77.51	6812	30300	21222	94400	1435	651
20 HP (15 kW)	22.5	0.83	55760	6300	BK70-../DPE16XB4	79.89	3215	14300	10701	47600	635	288
20 HP (15 kW)	22.5	1.6	55760	6300	BK80-../DPE16XB4	79.22	3957	17600	16029	71300	877	398
20 HP (15 kW)	20	2.4	62840	7100	BK90-../DPE16XB4	91.19	7486	33300	22706	101000	1435	651
20 HP (15 kW)	19.5	1.4	64610	7300	BK80-../DPE16XB4	91.53	4114	18300	16681	74200	877	398
20 HP (15 kW)	17.5	1.3	71691	8100	BK80-../DPE16XB4	102.5	4609	20500	16861	75000	877	398
20 HP (15 kW)	17.5	2.1	71691	8100	BK90-../DPE16XB4	102.0	8228	36600	24055	107000	1435	651
20 HP (15 kW)	15.5	1.15	81427	9200	BK80-../DPE16XB4	117.5	5013	22300	16861	75000	877	398
20 HP (15 kW)	15.5	1.85	81427	9200	BK90-../DPE16XB4	117.0	8813	39200	25403	113000	1435	651
20 HP (15 kW)	14	1.05	90278	10200	BK80-../DPE16XB4	131.6	5598	24900	16861	75000	877	398
20 HP (15 kW)	14	1.65	90278	10200	BK90-../DPE16XB4	130.9	9599	42700	26842	119400	1435	651
20 HP (15 kW)	12	0.88	105324	11900	BK80-../DPE16XB4	153.1	6115	27200	16861	75000	877	398
20 HP (15 kW)	12	1.4	105324	11900	BK90-../DPE16XB4	149.5	10251	45600	26977	120000	1435	651
20 HP (15 kW)	11	1.3	115060	13000	BK90-../DPE16XB4	167.2	11106	49400	26977	120000	1435	651
20 HP (15 kW)	10.5	0.85	120370	13600	BK80Z-../DPE16XB4	177.6	6744	30000	16861	75000	972	441
20 HP (15 kW)	10.5	1.35	120370	13600	BK90Z-../DPE16XB4	174.7	11106	49400	26977	120000	1565	710
20 HP (15 kW)	9.2	1.2	137187	15500	BK90Z-../DPE16XB4	195.4	11106	49400	26977	120000	1565	710
20 HP (15 kW)	7.6	0.98	166394	18800	BK90Z-../DPE16XB4	234.6	11106	49400	26977	120000	1565	710
20 HP (15 kW)	6.8	0.88	185866	21000	BK90Z-../DPE16XB4	262.5	11106	49400	26977	120000	1565	710

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

25 HP (18.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
25 HP (18.5 kW)	490	2.2	2921	330	BK50-../DPE18LB4	3.67	26	115	2113	9400	540	245
25 HP (18.5 kW)	340	1.7	4204	475	BK50-../DPE18LB4	5.26	29	130	2405	10700	540	245
25 HP (18.5 kW)	245	1.25	5841	660	BK50-../DPE18LB4	7.29	139	620	24954	111000	540	245
25 HP (18.5 kW)	245	2.0	6373	720	BK60-../DPE18LB4	7.29	629	2800	3350	14900	556	252
25 HP (18.5 kW)	178	0.89	8054	910	BK50-../DPE18LB4	10.00	274	1220	2967	13200	540	245
25 HP (18.5 kW)	165	1.55	9470	1070	BK60-../DPE18LB4	10.82	719	3200	3822	17000	556	252
25 HP (18.5 kW)	128	0.85	10975	1240	BK50-../DPE18LB4	13.95	1371	6100	3912	17400	540	245
25 HP (18.5 kW)	125	3.0	12480	1410	BK80-../DPE18LB4	14.34	1776	7900	8138	36200	977	443
25 HP (18.5 kW)	124	1.35	12568	1420	BK60-../DPE18LB4	14.41	821	3650	4181	18600	556	252
25 HP (18.5 kW)	118	2.0	13188	1490	BK70-../DPE18LB4	15.16	1259	5600	5800	25800	725	329
25 HP (18.5 kW)	113	3.1	13807	1560	BK80-../DPE18LB4	15.88	1888	8400	8678	38600	977	443
25 HP (18.5 kW)	104	2.1	14958	1690	BK70-../DPE18LB4	17.24	1461	6500	6564	29200	725	329
25 HP (18.5 kW)	101	3.0	15400	1740	BK80-../DPE18LB4	17.79	2113	9400	9464	42100	977	443
25 HP (18.5 kW)	97	1.2	16108	1820	BK60-../DPE18LB4	18.36	899	4000	4474	19900	556	252
25 HP (18.5 kW)	92	3.0	16993	1920	BK80-../DPE18LB4	19.35	2136	9500	9892	44000	977	443
25 HP (18.5 kW)	87	1.15	17701	2000	BK60-../DPE18LB4	20.54	989	4400	4631	20600	556	252
25 HP (18.5 kW)	82	1.9	19029	2150	BK70-../DPE18LB4	21.88	1461	6500	6789	30200	725	329
25 HP (18.5 kW)	81	3.2	19029	2150	BK80-../DPE18LB4	22.19	2360	10500	10903	48500	977	443
25 HP (18.5 kW)	73	0.96	21242	2400	BK60-../DPE18LB4	24.45	1090	4850	4946	22000	556	252
25 HP (18.5 kW)	72	1.75	21684	2450	BK70-../DPE18LB4	24.89	1574	7000	7081	31500	725	329
25 HP (18.5 kW)	72	2.9	21684	2450	BK80-../DPE18LB4	24.85	2518	11200	11330	50400	977	443
25 HP (18.5 kW)	66	0.87	23454	2650	BK60-../DPE18LB4	27.36	1259	5600	5216	23200	556	252
25 HP (18.5 kW)	59	2.5	26110	2950	BK80-../DPE18LB4	30.56	2675	11900	12005	53400	977	443
25 HP (18.5 kW)	58	1.5	26552	3000	BK70-../DPE18LB4	30.90	1686	7500	7554	33600	725	329
25 HP (18.5 kW)	53	2.4	29207	3300	BK80-../DPE18LB4	34.22	2833	12600	12454	55400	977	443
25 HP (18.5 kW)	51	1.35	30535	3450	BK70-../DPE18LB4	35.15	1798	8000	7868	35000	725	329
25 HP (18.5 kW)	44.5	1.25	34960	3950	BK70-../DPE18LB4	40.08	1866	8300	8161	36300	725	329
25 HP (18.5 kW)	43	2.0	36288	4100	BK80-../DPE18LB4	41.78	3035	13500	13196	58700	977	443
25 HP (18.5 kW)	39.5	1.15	39386	4450	BK70-../DPE18LB4	45.59	2023	9000	8520	37900	725	329
25 HP (18.5 kW)	38.5	1.9	40271	4550	BK80-../DPE18LB4	46.80	3215	14300	13691	60900	977	443
25 HP (18.5 kW)	33.5	1.7	46024	5200	BK80-../DPE18LB4	53.21	3327	14800	14185	63100	977	443
25 HP (18.5 kW)	33	0.98	46909	5300	BK70-../DPE18LB4	54.15	2226	9900	9037	40200	725	329
25 HP (18.5 kW)	32.5	3.0	47794	5400	BK90-../DPE18LB4	54.98	5395	24000	18210	81000	1539	698
25 HP (18.5 kW)	30	1.6	51334	5800	BK80-../DPE18LB4	59.60	3530	15700	14725	65500	977	443
25 HP (18.5 kW)	29	0.87	53104	6000	BK70-../DPE18LB4	61.60	2585	11500	9622	42800	725	329
25 HP (18.5 kW)	29	2.8	53104	6000	BK90-../DPE18LB4	61.52	5733	25500	19019	84600	1539	698
25 HP (18.5 kW)	26	2.5	59300	6700	BK90-../DPE18LB4	69.27	6115	27200	19986	88900	1539	698
25 HP (18.5 kW)	25.5	1.4	61070	6900	BK80-../DPE18LB4	70.72	3732	16600	15444	68700	977	443
25 HP (18.5 kW)	23	2.2	67266	7600	BK90-../DPE18LB4	77.51	6812	30300	21222	94400	1539	698
25 HP (18.5 kW)	22.5	1.3	69036	7800	BK80-../DPE18LB4	79.22	3957	17600	16029	71300	977	443
25 HP (18.5 kW)	20	1.9	77887	8800	BK90-../DPE18LB4	91.19	7486	33300	22706	101000	1539	698
25 HP (18.5 kW)	19.5	1.15	79657	9000	BK80-../DPE18LB4	91.53	4114	18300	16681	74200	977	443
25 HP (18.5 kW)	17.5	1.05	88507	10000	BK80-../DPE18LB4	102.5	4609	20500	16861	75000	977	443
25 HP (18.5 kW)	17.5	1.7	88507	10000	BK90-../DPE18LB4	102.0	8228	36600	24055	107000	1539	698
25 HP (18.5 kW)	15.5	0.93	100013	11300	BK80-../DPE18LB4	117.5	5013	22300	16861	75000	977	443
25 HP (18.5 kW)	15.5	1.5	100013	11300	BK90-../DPE18LB4	117.0	8813	39200	25403	113000	1539	698
25 HP (18.5 kW)	14	0.83	111519	12600	BK80-../DPE18LB4	131.6	5598	24900	16861	75000	977	443
25 HP (18.5 kW)	14	1.35	111519	12600	BK90-../DPE18LB4	130.9	9599	42700	26842	119400	1539	698
25 HP (18.5 kW)	12	1.15	130106	14700	BK90-../DPE18LB4	149.5	10251	45600	26977	120000	1539	698
25 HP (18.5 kW)	11	1.05	141612	16000	BK90-../DPE18LB4	167.2	11106	49400	26977	120000	1539	698
25 HP (18.5 kW)	10.5	1.1	148693	16800	BK90Z-../DPE18LB4	174.7	11106	49400	26977	120000	1656	751
25 HP (18.5 kW)	9.2	0.96	169934	19200	BK90Z-../DPE18LB4	195.4	11106	49400	26977	120000	1656	751
25 HP (18.5 kW)	7.6	0.8	205337	23200	BK90Z-../DPE18LB4	234.6	11106	49400	26977	120000	1656	751

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

30 HP (22 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Type	i	Standard Bearings		Reinforced Bearings	
[kW]	RPM	SF			lb·f	N			lb·f	N		
30 HP (22 kW)	125	2.6	14869	1680	BK80-../DPE18XB4	14.34	1776	7900	8138	36200	1016	461
30 HP (22 kW)	118	1.7	15754	1780	BK70-../DPE18XB4	15.16	1259	5600	5800	25800	765	347
30 HP (22 kW)	113	2.6	16374	1850	BK80-../DPE18XB4	15.88	1888	8400	8678	38600	1016	461
30 HP (22 kW)	104	1.75	17701	2000	BK70-../DPE18XB4	17.24	1461	6500	6564	29200	765	347
30 HP (22 kW)	101	2.6	18144	2050	BK80-../DPE18XB4	17.79	2113	9400	9464	42100	1016	461
30 HP (22 kW)	92	2.6	19914	2250	BK80-../DPE18XB4	19.35	2136	9500	9892	44000	1016	461
30 HP (22 kW)	82	1.6	22569	2550	BK70-../DPE18XB4	21.88	1461	6500	6789	30200	765	347
30 HP (22 kW)	81	2.7	22569	2550	BK80-../DPE18XB4	22.19	2360	10500	10903	48500	1016	461
30 HP (22 kW)	72	1.45	25667	2900	BK70-../DPE18XB4	24.89	1574	7000	7081	31500	765	347
30 HP (22 kW)	72	2.4	25667	2900	BK80-../DPE18XB4	24.85	2518	11200	11330	50400	1016	461
30 HP (22 kW)	59	2.1	31420	3550	BK80-../DPE18XB4	30.56	2675	11900	12005	53400	1016	461
30 HP (22 kW)	58	1.25	31863	3600	BK70-../DPE18XB4	30.90	1686	7500	7554	33600	765	347
30 HP (22 kW)	53	2.0	34960	3950	BK80-../DPE18XB4	34.22	2833	12600	12454	55400	1016	461
30 HP (22 kW)	51	1.15	36288	4100	BK70-../DPE18XB4	35.15	1798	8000	7868	35000	765	347
30 HP (22 kW)	44.5	1.05	41599	4700	BK70-../DPE18XB4	40.08	1866	8300	8161	36300	765	347
30 HP (22 kW)	43.5	3.1	42484	4800	BK90-../DPE18XB4	40.94	4811	21400	16434	73100	1579	716
30 HP (22 kW)	43	1.7	42926	4850	BK80-../DPE18XB4	41.78	3035	13500	13196	58700	1016	461
30 HP (22 kW)	39.5	0.97	46909	5300	BK70-../DPE18XB4	45.59	2023	9000	8520	37900	765	347
30 HP (22 kW)	39	2.9	46909	5300	BK90-../DPE18XB4	45.80	5103	22700	17153	76300	1579	716
30 HP (22 kW)	38.5	1.6	47794	5400	BK80-../DPE18XB4	46.80	3215	14300	13691	60900	1016	461
30 HP (22 kW)	33.5	1.45	54875	6200	BK80-../DPE18XB4	53.21	3327	14800	14185	63100	1016	461
30 HP (22 kW)	33	0.83	55760	6300	BK70-../DPE18XB4	54.15	2226	9900	9037	40200	765	347
30 HP (22 kW)	32.5	2.5	56645	6400	BK90-../DPE18XB4	54.98	5395	24000	18210	81000	1579	716
30 HP (22 kW)	30	1.3	61955	7000	BK80-../DPE18XB4	59.60	3530	15700	14725	65500	1016	461
30 HP (22 kW)	29	2.3	63725	7200	BK90-../DPE18XB4	61.52	5733	25500	19019	84600	1579	716
30 HP (22 kW)	26	2.1	70806	8000	BK90-../DPE18XB4	69.27	6115	27200	19986	88900	1579	716
30 HP (22 kW)	25.5	1.15	72576	8200	BK80-../DPE18XB4	70.72	3732	16600	15444	68700	1016	461
30 HP (22 kW)	23	1.85	80542	9100	BK90-../DPE18XB4	77.51	6812	30300	21222	94400	1579	716
30 HP (22 kW)	22.5	1.1	82312	9300	BK80-../DPE18XB4	79.22	3957	17600	16029	71300	1016	461
30 HP (22 kW)	20	1.6	92933	10500	BK90-../DPE18XB4	91.19	7486	33300	22706	101000	1579	716
30 HP (22 kW)	19.5	0.97	94703	10700	BK80-../DPE18XB4	91.53	4114	18300	16681	74200	1016	461
30 HP (22 kW)	17.5	0.88	106209	12000	BK80-../DPE18XB4	102.5	4609	20500	16861	75000	1016	461
30 HP (22 kW)	17.5	1.4	106209	12000	BK90-../DPE18XB4	102.0	8228	36600	24055	107000	1579	716
30 HP (22 kW)	15.5	1.25	119485	13500	BK90-../DPE18XB4	117.0	8813	39200	25403	113000	1579	716
30 HP (22 kW)	14	1.1	132761	15000	BK90-../DPE18XB4	130.9	9599	42700	26842	119400	1579	716
30 HP (22 kW)	12	0.96	154888	17500	BK90-../DPE18XB4	149.5	10251	45600	26977	120000	1579	716
30 HP (22 kW)	11	0.88	169049	19100	BK90-../DPE18XB4	167.2	11106	49400	26977	120000	1579	716
30 HP (22 kW)	10.5	0.93	177015	20000	BK90Z-../DPE18XB4	174.7	11106	49400	26977	120000	1695	769
30 HP (22 kW)	9.2	0.81	201797	22800	BK90Z-../DPE18XB4	195.4	11106	49400	26977	120000	1695	769

40 HP (30 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
40 HP (30 kW)	125	1.9	19914	2250	BK80-../DPE20XA4	14.34	1776	7900	8138	36200	1354	614
40 HP (30 kW)	118	1.25	21242	2400	BK70-../DPE20XA4	15.16	1259	5600	5800	25800	1107	502
40 HP (30 kW)	113	1.9	22127	2500	BK80-../DPE20XA4	15.88	1888	8400	8678	38600	1354	614
40 HP (30 kW)	104	1.25	24340	2750	BK70-../DPE20XA4	17.24	1461	6500	6564	29200	1107	502
40 HP (30 kW)	101	1.9	24782	2800	BK80-../DPE20XA4	17.79	2113	9400	9464	42100	1354	614
40 HP (30 kW)	93	1.9	26995	3050	BK80-../DPE20XA4	19.35	2136	9500	9892	44000	1354	614
40 HP (30 kW)	82	1.2	30535	3450	BK70-../DPE20XA4	21.88	1461	6500	6789	30200	1107	502
40 HP (30 kW)	81	1.95	30978	3500	BK80-../DPE20XA4	22.19	2360	10500	10903	48500	1354	614

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BK-series bevel geared motors

Selection - bevel geared motors

40 HP (30 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
40 HP (30 kW)	72	1.1	34960	3950	BK70-../DPE20XA4	24.89	1574	7000	7081	31500	1107	502
40 HP (30 kW)	72	1.8	34960	3950	BK80-../DPE20XA4	24.85	2518	11200	11330	50400	1354	614
40 HP (30 kW)	72	3.3	34960	3950	BK90-../DPE20XA4	24.94	4047	18000	13871	61700	1916	869
40 HP (30 kW)	59	1.55	42926	4850	BK80-../DPE20XA4	30.56	2675	11900	12005	53400	1354	614
40 HP (30 kW)	59	2.8	42926	4850	BK90-../DPE20XA4	30.47	4294	19100	14815	65900	1916	869
40 HP (30 kW)	58	0.92	43369	4900	BK70-../DPE20XA4	30.90	1686	7500	7554	33600	1107	502
40 HP (30 kW)	53	1.45	47794	5400	BK80-../DPE20XA4	34.22	2833	12600	12454	55400	1354	614
40 HP (30 kW)	53	2.6	47794	5400	BK90-../DPE20XA4	34.09	4564	20300	15467	68800	1916	869
40 HP (30 kW)	51	0.85	49564	5600	BK70-../DPE20XA4	35.15	1798	8000	7868	35000	1107	502
40 HP (30 kW)	44	2.3	57530	6500	BK90-../DPE20XA4	40.94	4811	21400	16434	73100	1916	869
40 HP (30 kW)	43	1.25	58415	6600	BK80-../DPE20XA4	41.78	3035	13500	13196	58700	1354	614
40 HP (30 kW)	39	2.1	64610	7300	BK90-../DPE20XA4	45.80	5103	22700	17153	76300	1916	869
40 HP (30 kW)	38.5	1.15	65496	7400	BK80-../DPE20XA4	46.80	3215	14300	13691	60900	1354	614
40 HP (30 kW)	34	1.05	74346	8400	BK80-../DPE20XA4	53.21	3327	14800	14185	63100	1354	614
40 HP (30 kW)	32.5	1.85	77887	8800	BK90-../DPE20XA4	54.98	5395	24000	18210	81000	1916	869
40 HP (30 kW)	30	0.97	84082	9500	BK80-../DPE20XA4	59.60	3530	15700	14725	65500	1354	614
40 HP (30 kW)	29.5	1.75	85852	9700	BK90-../DPE20XA4	61.52	5733	25500	19019	84600	1916	869
40 HP (30 kW)	26	1.55	97358	11000	BK90-../DPE20XA4	69.27	6115	27200	19986	88900	1916	869
40 HP (30 kW)	25.5	0.86	99128	11200	BK80-../DPE20XA4	70.72	3732	16600	15444	68700	1354	614
40 HP (30 kW)	23.5	1.4	107094	12100	BK90-../DPE20XA4	77.51	6812	30300	21222	94400	1916	869
40 HP (30 kW)	23	0.81	109749	12400	BK80-../DPE20XA4	79.22	3957	17600	16029	71300	1354	614
40 HP (30 kW)	20	1.15	126566	14300	BK90-../DPE20XA4	91.19	7486	33300	22706	101000	1916	869
40 HP (30 kW)	17.5	1.05	144267	16300	BK90-../DPE20XA4	102.0	8228	36600	24055	107000	1916	869
40 HP (30 kW)	15.5	0.91	162854	18400	BK90-../DPE20XA4	117.0	8813	39200	25403	113000	1916	869
40 HP (30 kW)	14	0.82	180555	20400	BK90-../DPE20XA4	130.9	9599	42700	26842	119400	1916	869

50 HP (37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
50 HP (37 kW)	125	1.55	24782	2800	BK80-../DPE22MA4	14.34	1776	7900	8138	36200	1477	670
50 HP (37 kW)	123	3.2	25225	2850	BK90-../DPE22MA4	14.49	3260	14500	11330	50400	2039	925
50 HP (37 kW)	118	1.05	26110	2950	BK70-../DPE22MA4	15.16	1259	5600	5800	25800	1230	558
50 HP (37 kW)	113	1.55	27437	3100	BK80-../DPE22MA4	15.88	1888	8400	8678	38600	1477	670
50 HP (37 kW)	110	3.2	28322	3200	BK90-../DPE22MA4	16.21	3462	15400	11780	52400	2039	925
50 HP (37 kW)	104	1.05	29650	3350	BK70-../DPE22MA4	17.24	1461	6500	6564	29200	1230	558
50 HP (37 kW)	101	1.5	30535	3450	BK80-../DPE22MA4	17.79	2113	9400	9464	42100	1477	670
50 HP (37 kW)	99	3.2	31420	3550	BK90-../DPE22MA4	18.07	3507	15600	12230	54400	2039	925
50 HP (37 kW)	92	1.5	33633	3800	BK80-../DPE22MA4	19.35	2136	9500	9892	44000	1477	670
50 HP (37 kW)	89	3.0	34960	3950	BK90-../DPE22MA4	20.21	3732	16600	12747	56700	2039	925
50 HP (37 kW)	81	1.55	38501	4350	BK80-../DPE22MA4	22.19	2360	10500	10903	48500	1477	670
50 HP (37 kW)	80	2.8	38943	4400	BK90-../DPE22MA4	22.29	3799	16900	13286	59100	2039	925
50 HP (37 kW)	72	1.45	43369	4900	BK80-../DPE22MA4	24.85	2518	11200	11330	50400	1477	670
50 HP (37 kW)	72	2.6	43369	4900	BK90-../DPE22MA4	24.94	4047	18000	13871	61700	2039	925
50 HP (37 kW)	59	1.25	52219	5900	BK80-../DPE22MA4	30.56	2675	11900	12005	53400	1477	670
50 HP (37 kW)	59	2.3	52219	5900	BK90-../DPE22MA4	30.47	4294	19100	14815	65900	2039	925
50 HP (37 kW)	53	1.2	58415	6600	BK80-../DPE22MA4	34.22	2833	12600	12454	55400	1477	670
50 HP (37 kW)	53	2.1	58415	6600	BK90-../DPE22MA4	34.09	4564	20300	15467	68800	2039	925
50 HP (37 kW)	43.5	1.85	71691	8100	BK90-../DPE22MA4	40.94	4811	21400	16434	73100	2039	925
50 HP (37 kW)	43	1.0	72576	8200	BK80-../DPE22MA4	41.78	3035	13500	13196	58700	1477	670
50 HP (37 kW)	39	1.7	79657	9000	BK90-../DPE22MA4	45.80	5103	22700	17153	76300	2039	925
50 HP (37 kW)	32.5	1.5	95588	10800	BK90-../DPE22MA4	54.98	5395	24000	18210	81000	2039	925

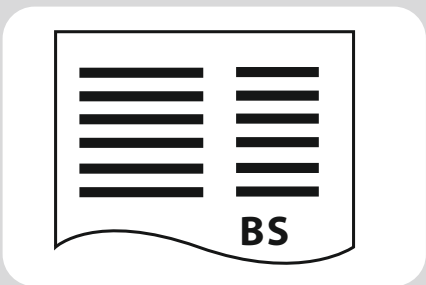
The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

50 HP (37 kW)

P _N [kW]	RPM	SF	Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
50 HP (37 kW)	29	1.4	107094	12100	BK90-.../DPE22MA4	61.52	5733	25500	19019	84600	2039	925
50 HP (37 kW)	26	1.25	119485	13500	BK90-.../DPE22MA4	69.27	6115	27200	19986	88900	2039	925
50 HP (37 kW)	23	1.1	135416	15300	BK90-.../DPE22MA4	77.51	6812	30300	21222	94400	2039	925

Energy Efficient Geared Motors

AC Line Operated / North America



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BS-series worm-geared motors - Selection

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Energy Efficient Geared Motors

AC Line Operated / North America

Sizes

Bauer BS-series worm-geared motors are normally supplied in eight frame sizes and with torques of 25 to 1,000 Nm. Higher torques are available on request. The gear unit is accommodated in a sturdy cast housing.

Efficiency

The efficiency of worm-geared motors depends on numerous factors, including lubrication, extent of wear, temperature and vibration. Calculated efficiency, therefore, is merely a guideline value. Please consult BAUER and state the boundary conditions if efficiency or self-locking capability are important factors for your application.

Bauer service factors (f_b) for worm-geared motors

Worm gears transmit torque by sliding friction only, which means that losses and temperature are inevitably higher than with helical-gear arrangements.

Of the numerous factors influencing the total loading of a worm-gear unit, the most important include:

- Mean torque (rated torque)
- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)
- Ambient temperature

These factors can be represented in a simplified and practical manner by **service factors**. The tables and explanations below attempt to provide an objective description of the **shock classification**, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_s/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information.

Continuous operation without switching frequency $Z \leq 1/h$

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d ≤ 10 min	≤ 1 h	> 1 h	> 4 h	> 8 h	> 16 h
			≤ 4 h	≤ 8 h	≤ 16 h	≤ 24 h
I	0.7	0.8	0.9	1.0	1.25	1.4
II	0.9	1.0	1.12	1.25	1.6	1.8
III	1.25	1.4	1.6	1.8	2.2	2.5

BS-series worm-geared motors

Description of worm-gear units

Switching duty

Factor f_2 or shock classification and switching frequency

Switching frequency in single- shift operation $t_d \leq 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1.25	1.4	1.6
II	1.6	1.8	2.0
III	1.8	2.0	2.2

Switching frequency in multiple- shift operation $t_d > 8$ h/d

Shock classification	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1.4	1.6	1.8
II	1.8	2.0	2.2
III	2.0	2.2	2.5

Ambient temperature

Factor f_3 for increased ambient temperature

AT	-10°C .. +25°C	>25°C	>30°C	>35°C	>40°C	>45°C	>50°C	>55°C
	no Factor	1.1	1.2	1.3	1.4	1.5	1.6	Enquiry

Bauer service factor

Bauer service factor f_B = maximum value f_1 , f_2 , f_3 (at daily operating hours > 1h)

For example: Shock classification II for $Z = 100$ switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.8$

Explanation of shock classification

Shock classification I:

Uniform without shock loads. All the following requirements must be satisfied:

- $FI \leq 1.3$
- $M_x/M_N \leq 1.0$
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, $\phi N \geq 5^\circ$)

Shock classification II:

Moderate shock loads. At least one of the following conditions applies:

- $1.3 < FI \leq 2$
- $1 \leq M_x/M_N \leq 1.4$
- Shock-neutral power transmission components (e.g. gear wheels, zero- playrigid coupling or resilient coupling with $\phi N < 5^\circ$)

Shock classification III:

Heavy shock loads. At least one of the following conditions applies:

- $FI > 2$
- $1.4 < M_x/M_N \leq 2.0$
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

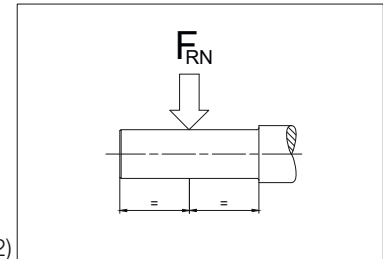
Key to abbreviations

Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia $FI = (J_{ext} + J_{rot})/J_{rot}$
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm^2)
J_{rot}	Mass moment of inertia of the motor rotor (kgm^2)
M_x	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
ϕ_N	Torsional offset of the resilient coupling under rated torque
UT	Ambient temperature ($^{\circ}\text{C}$)

Selection tables, worm-geared motors

Key to abbreviations

P	Rated output
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer Service factor
F_{RN}	Maximum permissible radial force with standard solid shaft (Code -.1 und -.2)



Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear unit and output shaft (see chapter 13 "dimensional drawings worm-geared motors").

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

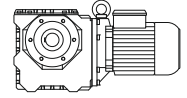
Motor power overload protection152

Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., slip clutch, slip hub, shear pin or an alternative).

BS-series worm-geared motors

Selection - worm-geared motors

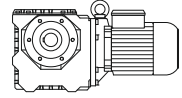
0.075 HP (0.055 kW)



P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.075 HP (0.055 kW)	152	8.9	25	2.8	BS02-../D04LA4	10.67	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	120	7.4	30	3.4	BS02-../D04LA4	13.50	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	90	5.8	38	4.3	BS02-../D04LA4	18.00	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	74	5.1	44	4.95	BS02-../D04LA4	22.00	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	60	4.5	49	5.5	BS02-../D04LA4	27.00	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	49.5	4.0	56	6.3	BS02-../D04LA4	33.00	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	38	2.8	75	8.5	BS02-../D04LA4	43.00	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	30	2.2	88	9.9	BS02-../D04LA4	54.00	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	26.5	2.9	117	13.2	BS04-../D04LA4	61.50	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	25.5	2.8	114	12.9	BS04-../D04LA4	64.06	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	23.5	1.75	100	11.3	BS02-../D04LA4	70.00	281	1250	-	-	8	3.5
0.075 HP (0.055 kW)	23	2.5	133	15	BS04-../D04LA4	71.18	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	21.5	2.6	132	14.9	BS04-../D04LA4	77.00	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	17.5	2.1	157	17.7	BS04-../D04LA4	93.92	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	16	1.8	186	21	BS04-../D04LA4	102.9	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	13.5	1.65	217	24.5	BS04-../D04LA4	123.0	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	12	1.55	239	27	BS04-../D04LA4	138.4	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	11	1.5	230	26	BS04-../D04LA4	150.3	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	10.5	1.2	270	30.5	BS04-../D04LA4	160.1	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	9.4	1.35	266	30	BS04-../D04LA4	174.0	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	9.4	2.9	296	33.5	BS06-../D04LA4	174.0	787	3500	-	-	19	8.4
0.075 HP (0.055 kW)	7.4	1.05	332	37.5	BS04-../D04LA4	220.0	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	7.4	2.4	367	41.5	BS06-../D04LA4	220.0	787	3500	-	-	19	8.4
0.075 HP (0.055 kW)	6.5	0.98	372	42	BS04-../D04LA4	251.6	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	6.5	2.1	412	46.5	BS06-../D04LA4	252.0	787	3500	-	-	19	8.4
0.075 HP (0.055 kW)	5.4	0.87	438	49.5	BS04-../D04LA4	300.7	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	5.4	3.2	531	60	BS10Z-../D04LA4	302.5	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	5.2	1.85	504	57	BS06-../D04LA4	315.3	787	3500	-	-	19	8.4
0.075 HP (0.055 kW)	4.8	0.81	478	54	BS04-../D04LA4	338.3	506	2250	-	-	9	3.9
0.075 HP (0.055 kW)	4.6	1.75	558	63	BS06-../D04LA4	358.9	787	3500	-	-	19	8.4
0.075 HP (0.055 kW)	4.5	2.6	637	72	BS10Z-../D04LA4	360.3	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	4.3	1.1	761	86	BS06G04-../D04LA4	381.5	787	3500	-	-	24	11
0.075 HP (0.055 kW)	3.9	1.5	655	74	BS06-../D04LA4	418.0	787	3500	-	-	19	8.4
0.075 HP (0.055 kW)	3.8	2.3	743	84	BS10Z-../D04LA4	432.4	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	3.5	0.89	938	106	BS06G04-../D04LA4	474.8	787	3500	-	-	24	11
0.075 HP (0.055 kW)	3.0	0.83	1062	120	BS06G04-../D04LA4	552.6	787	3500	-	-	24	11
0.075 HP (0.055 kW)	3.0	1.85	912	103	BS10Z-../D04LA4	544.8	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	2.7	1.0	832*	94*	BS06G04-../D04LA4	610.7	787	3500	-	-	24	11
0.075 HP (0.055 kW)	2.7	3.1	929	105	BS20Z-../D04LA4	619.2	1798	8000	-	-	71	32
0.075 HP (0.055 kW)	2.6	1.7	1000	113	BS10Z-../D04LA4	638.7	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	2.3	1.0	832*	94*	BS06G04-../D04LA4	704.7	787	3500	-	-	24	11
0.075 HP (0.055 kW)	2.2	2.4	1133	128	BS20Z-../D04LA4	763.4	1798	8000	-	-	71	32
0.075 HP (0.055 kW)	2.1	1.35	1195	135	BS10Z-../D04LA4	788.7	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	2.0	1.0	832*	94*	BS06G04-../D04LA4	847.0	787	3500	-	-	24	11
0.075 HP (0.055 kW)	2.0	1.55	1531	173	BS20G06-../D04LA4	831.7	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	1.8	1.0	832*	94*	BS06G04-../D04LA4	939.6	787	3500	-	-	24	11
0.075 HP (0.055 kW)	1.8	1.05	1363	154	BS10Z-../D04LA4	905.6	1349	6000	-	-	46	21
0.075 HP (0.055 kW)	1.7	0.81	1744	197	BS10G06-../D04LA4	969.9	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	1.7	1.35	1770	200	BS20G06-../D04LA4	1000	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	1.6	2.2	1991	225	BS30G06-../D04LA4	1022	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	1.4	1.0	832*	94*	BS06G04-../D04LA4	1170	787	3500	-	-	24	11
0.075 HP (0.055 kW)	1.4	1.0	1416*	160*	BS10G06-../D04LA4	1166	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	1.4	1.9	2257	255	BS30G06-../D04LA4	1176	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	1.3	1.0	1416*	160*	BS10G06-../D04LA4	1342	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	1.3	1.0	2345	265	BS20G06-../D04LA4	1311	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	1.2	1.65	2655	300	BS30G06-../D04LA4	1461	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	1.1	1.0	832*	94*	BS06G04-../D04LA4	1503	787	3500	-	-	24	11
0.075 HP (0.055 kW)	1.1	1.0	1416*	160*	BS10G06-../D04LA4	1528	1349	6000	-	-	55	25

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.075 HP (0.055 kW)



P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.075 HP (0.055 kW)	1.1	0.86	2788	315	BS20G06-../D04LA4	1543	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	1.1	1.5	2876	325	BS30G06-../D04LA4	1576	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	1.0	1.0	832*	94*	BS06G04-../D04LA4	1654	787	3500	-	-	24	11
0.075 HP (0.055 kW)	1.0	1.0	1416*	160*	BS10G06-../D04LA4	1668	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	1.0	1.0	2390*	270*	BS20G06-../D04LA4	1683	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.9	1.25	3540	400	BS30G06-../D04LA4	1886	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.85	1.0	832*	94*	BS06G04-../D04LA4	1914	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.85	1.0	1416*	160*	BS10G06-../D04LA4	1963	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.85	1.0	2390*	270*	BS20G06-../D04LA4	2014	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.75	1.0	832*	94*	BS06G04-../D04LA4	2200	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.75	1.0	4248	480	BS30G06-../D04LA4	2308	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.7	1.0	1416*	160*	BS10G06-../D04LA4	2348	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.7	1.0	2390*	270*	BS20G06-../D04LA4	2465	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.65	1.0	1416*	160*	BS10G06-../D04LA4	2635	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.65	1.0	4337*	490*	BS30G06-../D04LA4	2518	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.6	1.0	832*	94*	BS06G04-../D04LA4	2768	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.6	1.0	1416*	160*	BS10G06-../D04LA4	2875	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.6	1.0	2390*	270*	BS20G06-../D04LA4	2857	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.6	1.0	4337*	490*	BS30G06-../D04LA4	2919	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.55	1.0	832*	94*	BS06G04-../D04LA4	3007	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.55	1.0	2390*	270*	BS20G06-../D04LA4	3117	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.49	1.0	832*	94*	BS06G04-../D04LA4	3308	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.49	1.0	1416*	160*	BS10G06-../D04LA4	3332	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.49	1.0	4337*	490*	BS30G06-../D04LA4	3344	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.46	1.0	2390*	270*	BS20G06-../D04LA4	3570	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.45	1.0	1416*	160*	BS10G06-../D04LA4	3635	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.45	1.0	4337*	490*	BS30G06-../D04LA4	3647	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.44	1.0	832*	94*	BS06G04-../D04LA4	3721	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.4	1.0	2390*	270*	BS20G06-../D04LA4	4096	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.39	1.0	1416*	160*	BS10G06-../D04LA4	4163	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.39	1.0	4337*	490*	BS30G06-../D04LA4	4184	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.38	1.0	832*	94*	BS06G04-../D04LA4	4304	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.34	1.0	1416*	160*	BS10G06-../D04LA4	4776	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.34	1.0	4514*	510*	BS30G06-../D04LA4	4905	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.33	1.0	867*	98*	BS06G04-../D04LA4	4947	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.33	1.0	2390*	270*	BS20G06-../D04LA4	4910	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.32	1.0	1416*	160*	BS10G06-../D04LA4	5209	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.3	1.0	867*	98*	BS06G04-../D04LA4	5442	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.29	1.0	4602*	520*	BS30G06-../D04LA4	5783	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.28	1.0	2390*	270*	BS20G06-../D04LA4	5880	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.27	1.0	1452*	164*	BS10G06-../D04LA4	6019	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.26	1.0	885*	100*	BS06G04-../D04LA4	6234	787	3500	-	-	24	11
0.075 HP (0.055 kW)	0.26	1.0	4602*	520*	BS30G06-../D04LA4	6308	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.25	1.0	1452*	164*	BS10G06-../D04LA4	6565	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.23	1.0	2434*	275*	BS20G06-../D04LA4	7363	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.23	1.0	4602*	520*	BS30G06-../D04LA4	7179	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.22	1.0	1452*	164*	BS10G06-../D04LA4	7471	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.21	1.0	2434*	275*	BS20G06-../D04LA4	8031	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.2	1.0	4602*	520*	BS30G06-../D04LA4	8362	2248	10000	-	-	117	53
0.075 HP (0.055 kW)	0.19	1.0	1452*	164*	BS10G06-../D04LA4	8703	1349	6000	-	-	55	25
0.075 HP (0.055 kW)	0.18	1.0	2478*	280*	BS20G06-../D04LA4	9220	1798	8000	-	-	77	35
0.075 HP (0.055 kW)	0.16	1.0	2478*	280*	BS20G06-../D04LA4	10493	1798	8000	-	-	77	35

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BS-series worm-geared motors

Selection - worm-geared motors

0.1 HP (0.075 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.1 HP (0.075 kW)	355	8.5	16	1.77	BS02-../D04LA4	4.60	225	1000	-	-	8	3.5
0.1 HP (0.075 kW)	300	9.5	19	2.1	BS02-../D04LA4	5.40	225	1000	-	-	8	3.5
0.1 HP (0.075 kW)	240	9.8	23	2.55	BS02-../D04LA4	6.75	225	1000	-	-	8	3.5
0.1 HP (0.075 kW)	197	8.2	27	3.05	BS02-../D04LA4	8.25	247	1100	-	-	8	3.5
0.1 HP (0.075 kW)	152	6.5	34	3.85	BS02-../D04LA4	10.67	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	120	5.4	41	4.65	BS02-../D04LA4	13.50	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	90	4.3	51	5.8	BS02-../D04LA4	18.00	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	74	3.7	59	6.7	BS02-../D04LA4	22.00	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	60	3.3	66	7.5	BS02-../D04LA4	27.00	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	49.5	2.9	76	8.6	BS02-../D04LA4	33.00	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	42.5	3.2	103	11.6	BS04-../D04LA4	38.42	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	38	2.1	103	11.6	BS02-../D04LA4	43.00	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	34	2.7	127	14.3	BS04-../D04LA4	47.86	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	30	1.6	120	13.6	BS02-../D04LA4	54.00	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	26.5	2.1	160	18.1	BS04-../D04LA4	61.50	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	25.5	2.0	156	17.6	BS04-../D04LA4	64.06	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	23.5	1.3	137	15.5	BS02-../D04LA4	70.00	281	1250	-	-	8	3.5
0.1 HP (0.075 kW)	23	1.85	181	20.5	BS04-../D04LA4	71.18	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	22	2.4	147	16.6	BS03-../D05LA4	75.00	438	1950	-	-	12	5.4
0.1 HP (0.075 kW)	21.5	1.9	177	20	BS04-../D04LA4	77.00	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	17.5	1.6	212	24	BS04-../D04LA4	93.92	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	16	1.35	252	28.5	BS04-../D04LA4	102.9	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	16	3.3	270	30.5	BS06-../D04LA4	103.1	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	14	2.8	292	33	BS06-../D04LA4	118.8	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	14	3.2	332	37.5	BS10-../D06LA4	119.6	1349	6000	-	-	51	23
0.1 HP (0.075 kW)	13.5	1.25	292	33	BS04-../D04LA4	123.0	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	13	2.8	323	36.5	BS06-../D04LA4	129.0	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	12	1.15	327	37	BS04-../D04LA4	138.4	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	11.5	2.7	354	40	BS06-../D04LA4	146.8	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	11	1.1	314	35.5	BS04-../D04LA4	150.3	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	10.5	0.89	367	41.5	BS04-../D04LA4	160.1	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	9.4	0.98	363	41	BS04-../D04LA4	174.0	506	2250	-	-	9	3.9
0.1 HP (0.075 kW)	9.4	2.2	403	45.5	BS06-../D04LA4	174.0	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	8.6	3.2	469	53	BS10-../D06LA4	188.6	1349	6000	-	-	51	23
0.1 HP (0.075 kW)	7.5	3.0	540	61	BS10-../D06LA4	216.6	1349	6000	-	-	51	23
0.1 HP (0.075 kW)	7.4	1.7	504	57	BS06-../D04LA4	220.0	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	6.5	1.55	558	63	BS06-../D04LA4	252.0	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	6.4	2.5	628	71	BS10Z-../D06LA4	254.0	1349	6000	-	-	53	24
0.1 HP (0.075 kW)	5.4	2.3	726	82	BS10Z-../D06LA4	302.5	1349	6000	-	-	53	24
0.1 HP (0.075 kW)	5.2	1.35	690	78	BS06-../D04LA4	315.3	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	4.6	1.25	770	87	BS06-../D04LA4	358.9	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	4.6	3.3	850	96	BS20Z-../D06LA4	359.9	1798	8000	-	-	77	35
0.1 HP (0.075 kW)	4.5	1.95	867	98	BS10Z-../D06LA4	360.3	1349	6000	-	-	53	24
0.1 HP (0.075 kW)	4.3	0.8	1044	118	BS06G04-../D04LA4	381.5	787	3500	-	-	24	11
0.1 HP (0.075 kW)	3.9	1.1	894	101	BS06-../D04LA4	418.0	787	3500	-	-	19	8.4
0.1 HP (0.075 kW)	3.8	1.65	1009	114	BS10Z-../D06LA4	432.4	1349	6000	-	-	53	24
0.1 HP (0.075 kW)	3.8	2.9	1009	114	BS20Z-../D06LA4	430.8	1798	8000	-	-	77	35
0.1 HP (0.075 kW)	3.1	2.9	1124	127	BS20Z-../D06LA4	539.7	1798	8000	-	-	77	35
0.1 HP (0.075 kW)	3.0	1.35	1239	140	BS10Z-../D06LA4	544.8	1349	6000	-	-	53	24
0.1 HP (0.075 kW)	2.7	2.3	1266	143	BS20Z-../D06LA4	619.2	1798	8000	-	-	77	35
0.1 HP (0.075 kW)	2.6	1.25	1363	154	BS10Z-../D06LA4	638.7	1349	6000	-	-	53	24
0.1 HP (0.075 kW)	2.2	1.75	1549	175	BS20Z-../D06LA4	763.4	1798	8000	-	-	77	35
0.1 HP (0.075 kW)	2.1	0.98	1629	184	BS10Z-../D06LA4	788.7	1349	6000	-	-	53	24
0.1 HP (0.075 kW)	2.1	2.4	1744	197	BS30Z-../D06LA4	804.1	2248	10000	-	-	119	54
0.1 HP (0.075 kW)	2.0	1.15	2080	235	BS20G06-../D06LA4	831.7	1798	8000	-	-	84	38
0.1 HP (0.075 kW)	1.8	2.0	1991	225	BS30Z-../D06LA4	932.0	2248	10000	-	-	119	54
0.1 HP (0.075 kW)	1.8	3.2	2036	230	BS40Z-../D06LA4	908.2	3372	15000	-	-	150	68
0.1 HP (0.075 kW)	1.7	0.98	2434	275	BS20G06-../D06LA4	1000	1798	8000	-	-	84	38

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.1 HP (0.075 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.1 HP (0.075 kW)	1.7	3.0	2567	290	BS40G10-../D06LA4	965.5	3372	15000	-	-	161	73
0.1 HP (0.075 kW)	1.6	1.6	2699	305	BS30G06-../D06LA4	1022	2248	10000	-	-	123	56
0.1 HP (0.075 kW)	1.4	1.4	3098	350	BS30G06-../D06LA4	1176	2248	10000	-	-	123	56
0.1 HP (0.075 kW)	1.4	2.5	3142	355	BS40G10-../D06LA4	1180	3372	15000	-	-	161	73
0.1 HP (0.075 kW)	1.2	1.2	3629	410	BS30G06-../D06LA4	1461	2248	10000	-	-	123	56
0.1 HP (0.075 kW)	1.1	1.1	3939	445	BS30G06-../D06LA4	1576	2248	10000	-	-	123	56
0.1 HP (0.075 kW)	1.1	1.95	4027	455	BS40G10-../D06LA4	1499	3372	15000	-	-	161	73
0.1 HP (0.075 kW)	0.95	1.7	4602	520	BS40G10-../D06LA4	1785	3372	15000	-	-	161	73
0.1 HP (0.075 kW)	0.8	1.4	5487	620	BS40G10-../D06LA4	2126	3372	15000	-	-	161	73
0.1 HP (0.075 kW)	0.75	1.35	5841	660	BS40G10-../D06LA4	2304	3372	15000	-	-	161	73
0.1 HP (0.075 kW)	0.65	1.15	6815	770	BS40G10-../D06LA4	2552	3372	15000	-	-	161	73
0.1 HP (0.075 kW)	0.6	1.05	7346	830	BS40G10-../D06LA4	2902	3372	15000	-	-	161	73

0.12 HP (0.09 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.12 HP (0.09 kW)	355	7.1	19	2.1	BS02-../D04LA4	4.60	225	1000	-	-	8	3.5
0.12 HP (0.09 kW)	300	8.0	22	2.5	BS02-../D04LA4	5.40	225	1000	-	-	8	3.5
0.12 HP (0.09 kW)	240	8.2	27	3.05	BS02-../D04LA4	6.75	225	1000	-	-	8	3.5
0.12 HP (0.09 kW)	197	6.8	32	3.65	BS02-../D04LA4	8.25	247	1100	-	-	8	3.5
0.12 HP (0.09 kW)	152	5.4	41	4.6	BS02-../D04LA4	10.67	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	120	4.5	49	5.5	BS02-../D04LA4	13.50	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	90	3.6	62	7.0	BS02-../D04LA4	18.00	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	74	3.1	72	8.1	BS02-../D04LA4	22.00	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	60	2.8	80	9.0	BS02-../D04LA4	27.00	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	52	3.3	102	11.5	BS04-../D04LA4	31.50	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	49.5	2.4	92	10.4	BS02-../D04LA4	33.00	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	42.5	2.7	123	13.9	BS04-../D04LA4	38.42	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	38	1.7	124	14	BS02-../D04LA4	43.00	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	34	2.2	151	17.1	BS04-../D04LA4	47.86	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	30	1.35	144	16.3	BS02-../D04LA4	54.00	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	26.5	2.8	151	17.1	BS03-../D05LA4	62.00	438	1950	-	-	12	5.4
0.12 HP (0.09 kW)	26.5	1.75	190	21.5	BS04-../D04LA4	61.50	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	25.5	1.7	186	21	BS04-../D04LA4	64.06	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	23.5	1.1	165	18.6	BS02-../D04LA4	70.00	281	1250	-	-	8	3.5
0.12 HP (0.09 kW)	23	1.55	217	24.5	BS04-../D04LA4	71.18	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	22	2.0	176	19.9	BS03-../D05LA4	75.00	438	1950	-	-	12	5.4
0.12 HP (0.09 kW)	21.5	1.6	212	24	BS04-../D04LA4	77.00	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	21.5	3.2	235	26.5	BS06-../D04LA4	77.00	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	18	3.0	292	33	BS06-../D04LA4	90.00	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	17.5	1.35	252	28.5	BS04-../D04LA4	93.92	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	16	1.1	301	34	BS04-../D04LA4	102.9	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	16	2.7	327	37	BS06-../D04LA4	103.1	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	14	2.4	350	39.5	BS06-../D04LA4	118.8	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	14	2.7	398	45	BS10-../D06LA4	119.6	1349	6000	-	-	51	23
0.12 HP (0.09 kW)	13.5	1.05	354	40	BS04-../D04LA4	123.0	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	13	2.4	389	44	BS06-../D04LA4	129.0	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	12	0.95	389	44	BS04-../D04LA4	138.4	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	11.5	2.2	429	48.5	BS06-../D04LA4	146.8	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	11	0.92	376	42.5	BS04-../D04LA4	150.3	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	11	3.3	443	50	BS10-../D06LA4	152.7	1349	6000	-	-	51	23

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BS-series worm-geared motors

Selection - worm-geared motors

0.12 HP (0.09 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.12 HP (0.09 kW)	9.4	0.82	434	49	BS04-../D04LA4	174.0	506	2250	-	-	9	3.9
0.12 HP (0.09 kW)	9.4	1.8	478	54	BS06-../D04LA4	174.0	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	8.6	2.7	558	63	BS10-../D06LA4	188.6	1349	6000	-	-	51	23
0.12 HP (0.09 kW)	7.5	2.5	646	73	BS10-../D06LA4	216.6	1349	6000	-	-	51	23
0.12 HP (0.09 kW)	7.4	1.45	602	68	BS06-../D04LA4	220.0	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	6.5	1.3	673	76	BS06-../D04LA4	252.0	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	6.4	2.1	752	85	BS10Z-../D06LA4	254.0	1349	6000	-	-	53	24
0.12 HP (0.09 kW)	5.4	1.95	867	98	BS10Z-../D06LA4	302.5	1349	6000	-	-	53	24
0.12 HP (0.09 kW)	5.4	3.0	885	100	BS20Z-../D06LA4	300.1	1798	8000	-	-	77	35
0.12 HP (0.09 kW)	5.2	1.15	832	94	BS06-../D04LA4	315.3	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	4.6	1.05	920	104	BS06-../D04LA4	358.9	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	4.6	2.8	1018	115	BS20Z-../D06LA4	359.9	1798	8000	-	-	77	35
0.12 HP (0.09 kW)	4.6	2.9	1221	138	BS30Z-../D06LA4	359.6	2248	10000	-	-	119	54
0.12 HP (0.09 kW)	4.5	1.6	1044	118	BS10Z-../D06LA4	360.3	1349	6000	-	-	53	24
0.12 HP (0.09 kW)	3.9	0.91	1071	121	BS06-../D04LA4	418.0	787	3500	-	-	19	8.4
0.12 HP (0.09 kW)	3.8	1.4	1213	137	BS10Z-../D06LA4	432.4	1349	6000	-	-	53	24
0.12 HP (0.09 kW)	3.8	2.4	1213	137	BS20Z-../D06LA4	430.8	1798	8000	-	-	77	35
0.12 HP (0.09 kW)	3.1	2.4	1345	152	BS20Z-../D06LA4	539.7	1798	8000	-	-	77	35
0.12 HP (0.09 kW)	3.0	1.1	1496	169	BS10Z-../D06LA4	544.8	1349	6000	-	-	53	24
0.12 HP (0.09 kW)	2.7	1.95	1513	171	BS20Z-../D06LA4	619.2	1798	8000	-	-	77	35
0.12 HP (0.09 kW)	2.6	1.05	1637	185	BS10Z-../D06LA4	638.7	1349	6000	-	-	53	24
0.12 HP (0.09 kW)	2.5	2.8	1814	205	BS30Z-../D06LA4	651.0	2248	10000	-	-	119	54
0.12 HP (0.09 kW)	2.2	1.5	1859	210	BS20Z-../D06LA4	763.4	1798	8000	-	-	77	35
0.12 HP (0.09 kW)	2.2	3.3	2036	230	BS40Z-../D06LA4	736.5	3372	15000	-	-	150	68
0.12 HP (0.09 kW)	2.1	0.82	1947	220	BS10Z-../D06LA4	788.7	1349	6000	-	-	53	24
0.12 HP (0.09 kW)	2.1	2.0	2080	235	BS30Z-../D06LA4	804.1	2248	10000	-	-	119	54
0.12 HP (0.09 kW)	2.0	0.96	2478	280	BS20G06-../D06LA4	831.7	1798	8000	-	-	84	38
0.12 HP (0.09 kW)	1.8	1.65	2390	270	BS30Z-../D06LA4	932.0	2248	10000	-	-	119	54
0.12 HP (0.09 kW)	1.8	2.7	2478	280	BS40Z-../D06LA4	908.2	3372	15000	-	-	150	68
0.12 HP (0.09 kW)	1.7	0.82	2921	330	BS20G06-../D06LA4	1000	1798	8000	-	-	84	38
0.12 HP (0.09 kW)	1.7	2.5	3098	350	BS40G10-../D06LA4	965.5	3372	15000	-	-	161	73
0.12 HP (0.09 kW)	1.6	1.3	3275	370	BS30G06-../D06LA4	1022	2248	10000	-	-	123	56
0.12 HP (0.09 kW)	1.4	1.15	3717	420	BS30G06-../D06LA4	1176	2248	10000	-	-	123	56
0.12 HP (0.09 kW)	1.4	2.1	3762	425	BS40G10-../D06LA4	1180	3372	15000	-	-	161	73
0.12 HP (0.09 kW)	1.2	1.0	4337	490	BS30G06-../D06LA4	1461	2248	10000	-	-	123	56
0.12 HP (0.09 kW)	1.1	0.92	4691	530	BS30G06-../D06LA4	1576	2248	10000	-	-	123	56
0.12 HP (0.09 kW)	1.1	1.65	4779	540	BS40G10-../D06LA4	1499	3372	15000	-	-	161	73
0.12 HP (0.09 kW)	0.95	1.4	5576	630	BS40G10-../D06LA4	1785	3372	15000	-	-	161	73
0.12 HP (0.09 kW)	0.8	1.15	6638	750	BS40G10-../D06LA4	2126	3372	15000	-	-	161	73
0.12 HP (0.09 kW)	0.75	1.1	7081	800	BS40G10-../D06LA4	2304	3372	15000	-	-	161	73

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.15 HP (0.11 kW)	355	5.8	23	2.6	BS02-../D04LA4	4.60	225	1000	-	-	8	3.5
0.15 HP (0.11 kW)	300	6.6	27	3.05	BS02-../D04LA4	5.40	225	1000	-	-	8	3.5
0.15 HP (0.11 kW)	240	6.7	33	3.75	BS02-../D04LA4	6.75	225	1000	-	-	8	3.5
0.15 HP (0.11 kW)	197	5.6	39	4.45	BS02-../D04LA4	8.25	247	1100	-	-	8	3.5
0.15 HP (0.11 kW)	152	4.5	50	5.6	BS02-../D04LA4	10.67	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	120	3.7	60	6.8	BS02-../D04LA4	13.50	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	90	2.9	76	8.6	BS02-../D04LA4	18.00	281	1250	-	-	8	3.5

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.15 HP (0.11 kW)	74	2.5	88	9.9	BS02-../D04LA4	22.00	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	67	2.9	105	11.9	BS04-../D04LA4	24.25	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	62	3.2	106	12	BS04-../D04LA4	26.21	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	60	2.3	97	11	BS02-../D04LA4	27.00	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	52	2.7	125	14.1	BS04-../D04LA4	31.50	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	49.5	1.95	112	12.7	BS02-../D04LA4	33.00	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	42.5	2.2	150	17	BS04-../D04LA4	38.42	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	38	1.4	151	17.1	BS02-../D04LA4	43.00	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	34	1.8	186	21	BS04-../D04LA4	47.86	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	32.5	2.9	166	18.7	BS03-../D05LA4	50.00	438	1950	-	-	12	5.4
0.15 HP (0.11 kW)	30	1.1	176	19.9	BS02-../D04LA4	54.00	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	26.5	2.3	186	21	BS03-../D05LA4	62.00	438	1950	-	-	12	5.4
0.15 HP (0.11 kW)	26.5	1.45	235	26.5	BS04-../D04LA4	61.50	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	25.5	1.4	226	25.5	BS04-../D04LA4	64.06	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	25.5	2.9	248	28	BS06-../D04LA4	64.06	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	23.5	0.89	199	22.5	BS02-../D04LA4	70.00	281	1250	-	-	8	3.5
0.15 HP (0.11 kW)	23	1.25	266	30	BS04-../D04LA4	71.18	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	23	2.9	283	32	BS06-../D04LA4	71.18	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	22	1.65	212	24	BS03-../D05LA4	75.00	438	1950	-	-	12	5.4
0.15 HP (0.11 kW)	21.5	1.3	261	29.5	BS04-../D04LA4	77.00	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	21.5	2.6	288	32.5	BS06-../D04LA4	77.00	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	18	2.4	358	40.5	BS06-../D04LA4	90.00	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	17.5	1.1	310	35	BS04-../D04LA4	93.92	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	16	0.9	372	42	BS04-../D04LA4	102.9	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	16	2.2	398	45	BS06-../D04LA4	103.1	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	14	1.95	429	48.5	BS06-../D04LA4	118.8	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	14	2.2	487	55	BS10-../D06LA4	119.6	1349	6000	-	-	51	23
0.15 HP (0.11 kW)	13.5	0.84	434	49	BS04-../D04LA4	123.0	506	2250	-	-	9	3.9
0.15 HP (0.11 kW)	13	1.95	478	54	BS06-../D04LA4	129.0	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	12.5	3.1	469	53	BS10-../D06LA4	130.3	1349	6000	-	-	51	23
0.15 HP (0.11 kW)	11.5	1.8	522	59	BS06-../D04LA4	146.8	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	11	2.7	540	61	BS10-../D06LA4	152.7	1349	6000	-	-	51	23
0.15 HP (0.11 kW)	9.4	1.45	593	67	BS06-../D04LA4	174.0	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	8.6	2.2	690	78	BS10-../D06LA4	188.6	1349	6000	-	-	51	23
0.15 HP (0.11 kW)	7.5	2.0	788	89	BS10-../D06LA4	216.6	1349	6000	-	-	51	23
0.15 HP (0.11 kW)	7.4	1.2	735	83	BS06-../D04LA4	220.0	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	7.2	3.1	823	93	BS20-../D06LA4	225.6	1798	8000	-	-	75	34
0.15 HP (0.11 kW)	6.5	1.05	823	93	BS06-../D04LA4	252.0	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	6.4	1.7	929	105	BS10Z-../D06LA4	254.0	1349	6000	-	-	53	24
0.15 HP (0.11 kW)	6.3	2.8	938	106	BS20Z-../D06LA4	257.8	1798	8000	-	-	77	35
0.15 HP (0.11 kW)	5.4	1.6	1062	120	BS10Z-../D06LA4	302.5	1349	6000	-	-	53	24
0.15 HP (0.11 kW)	5.4	2.5	1080	122	BS20Z-../D06LA4	300.1	1798	8000	-	-	77	35
0.15 HP (0.11 kW)	5.2	0.92	1018	115	BS06-../D04LA4	315.3	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	4.6	0.87	1124	127	BS06-../D04LA4	358.9	787	3500	-	-	19	8.4
0.15 HP (0.11 kW)	4.6	2.3	1248	141	BS20Z-../D06LA4	359.9	1798	8000	-	-	77	35
0.15 HP (0.11 kW)	4.6	2.4	1487	168	BS30Z-../D06LA4	359.6	2248	10000	-	-	119	54
0.15 HP (0.11 kW)	4.5	1.3	1275	144	BS10Z-../D06LA4	360.3	1349	6000	-	-	53	24
0.15 HP (0.11 kW)	3.8	1.15	1487	168	BS10Z-../D06LA4	432.4	1349	6000	-	-	53	24
0.15 HP (0.11 kW)	3.8	1.95	1487	168	BS20Z-../D06LA4	430.8	1798	8000	-	-	77	35
0.15 HP (0.11 kW)	3.6	3.2	1646	186	BS30Z-../D06LA4	457.3	2248	10000	-	-	119	54
0.15 HP (0.11 kW)	3.1	1.95	1646	186	BS20Z-../D06LA4	539.7	1798	8000	-	-	77	35
0.15 HP (0.11 kW)	3.1	2.8	1903	215	BS30Z-../D06LA4	539.3	2248	10000	-	-	119	54
0.15 HP (0.11 kW)	3.0	0.93	1814	205	BS10Z-../D06LA4	544.8	1349	6000	-	-	53	24
0.15 HP (0.11 kW)	2.7	1.55	1859	210	BS20Z-../D06LA4	619.2	1798	8000	-	-	77	35
0.15 HP (0.11 kW)	2.6	0.84	1991	225	BS10Z-../D06LA4	638.7	1349	6000	-	-	53	24
0.15 HP (0.11 kW)	2.5	2.3	2213	250	BS30Z-../D06LA4	651.0	2248	10000	-	-	119	54
0.15 HP (0.11 kW)	2.2	1.2	2257	255	BS20Z-../D06LA4	763.4	1798	8000	-	-	77	35
0.15 HP (0.11 kW)	2.2	2.7	2522	285	BS40Z-../D06LA4	736.5	3372	15000	-	-	150	68

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BS-series worm-geared motors

Selection - worm-geared motors

0.15 HP (0.11 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.15 HP (0.11 kW)	2.1	1.65	2567	290	BS30Z-../D06LA4	804.1	2248	10000	-	-	119	54
0.15 HP (0.11 kW)	1.8	1.35	2921	330	BS30Z-../D06LA4	932.0	2248	10000	-	-	119	54
0.15 HP (0.11 kW)	1.8	2.2	3009	340	BS40Z-../D06LA4	908.2	3372	15000	-	-	150	68
0.15 HP (0.11 kW)	1.7	2.0	3806	430	BS40G10-../D06LA4	965.5	3372	15000	-	-	161	73
0.15 HP (0.11 kW)	1.6	1.1	3983	450	BS30G06-../D06LA4	1022	2248	10000	-	-	123	56
0.15 HP (0.11 kW)	1.4	0.96	4514	510	BS30G06-../D06LA4	1176	2248	10000	-	-	123	56
0.15 HP (0.11 kW)	1.4	1.7	4602	520	BS40G10-../D06LA4	1180	3372	15000	-	-	161	73
0.15 HP (0.11 kW)	1.2	0.82	5310	600	BS30G06-../D06LA4	1461	2248	10000	-	-	123	56
0.15 HP (0.11 kW)	1.1	1.35	5841	660	BS40G10-../D06LA4	1499	3372	15000	-	-	161	73
0.15 HP (0.11 kW)	0.95	1.15	6815	770	BS40G10-../D06LA4	1785	3372	15000	-	-	161	73

0.25 HP (0.18 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.25 HP (0.18 kW)	355	3.5	38	4.25	BS02-../D05LA4	4.60	225	1000	-	-	12	5.3
0.25 HP (0.18 kW)	300	4.0	44	5.0	BS02-../D05LA4	5.40	225	1000	-	-	12	5.3
0.25 HP (0.18 kW)	240	4.1	54	6.1	BS02-../D05LA4	6.75	225	1000	-	-	12	5.3
0.25 HP (0.18 kW)	197	3.4	65	7.3	BS02-../D05LA4	8.25	247	1100	-	-	12	5.3
0.25 HP (0.18 kW)	152	2.7	81	9.2	BS02-../D05LA4	10.67	281	1250	-	-	12	5.3
0.25 HP (0.18 kW)	124	3.1	94	10.6	BS04-../D05LA4	13.09	396	1760	-	-	13	5.8
0.25 HP (0.18 kW)	120	2.3	98	11.1	BS02-../D05LA4	13.50	281	1250	-	-	12	5.3
0.25 HP (0.18 kW)	100	2.7	117	13.2	BS04-../D05LA4	16.31	443	1970	-	-	13	5.8
0.25 HP (0.18 kW)	90	1.75	125	14.1	BS02-../D05LA4	18.00	281	1250	-	-	12	5.3
0.25 HP (0.18 kW)	90	2.5	119	13.5	BS04-../D05LA4	18.00	438	1950	-	-	13	5.8
0.25 HP (0.18 kW)	78	2.2	148	16.7	BS04-../D05LA4	20.96	472	2100	-	-	13	5.8
0.25 HP (0.18 kW)	74	1.55	143	16.2	BS02-../D05LA4	22.00	281	1250	-	-	12	5.3
0.25 HP (0.18 kW)	67	1.75	172	19.4	BS04-../D05LA4	24.25	506	2250	-	-	13	5.8
0.25 HP (0.18 kW)	65	3.0	161	18.2	BS03-../D05LA4	25.00	438	1950	-	-	12	5.4
0.25 HP (0.18 kW)	62	1.95	173	19.6	BS04-../D05LA4	26.21	506	2250	-	-	13	5.8
0.25 HP (0.18 kW)	60	1.4	159	18	BS02-../D05LA4	27.00	281	1250	-	-	12	5.3
0.25 HP (0.18 kW)	52	1.65	204	23	BS04-../D05LA4	31.50	506	2250	-	-	13	5.8
0.25 HP (0.18 kW)	52	3.3	212	24	BS06-../D05LA4	31.50	719	3200	-	-	22	10
0.25 HP (0.18 kW)	49.5	1.2	181	20.5	BS02-../D05LA4	33.00	281	1250	-	-	12	5.3
0.25 HP (0.18 kW)	49.5	2.6	186	21	BS03-../D05LA4	33.00	438	1950	-	-	12	5.4
0.25 HP (0.18 kW)	42.5	1.35	243	27.5	BS04-../D05LA4	38.42	506	2250	-	-	13	5.8
0.25 HP (0.18 kW)	42	2.1	230	26	BS03-../D05LA4	39.00	438	1950	-	-	12	5.4
0.25 HP (0.18 kW)	39.5	2.8	274	31	BS06-../D05LA4	41.29	787	3500	-	-	22	10
0.25 HP (0.18 kW)	38	0.86	248	28	BS02-../D05LA4	43.00	281	1250	-	-	12	5.3
0.25 HP (0.18 kW)	34	1.1	301	34	BS04-../D05LA4	47.86	506	2250	-	-	13	5.8
0.25 HP (0.18 kW)	33.5	2.4	323	36.5	BS06-../D05LA4	48.60	787	3500	-	-	22	10
0.25 HP (0.18 kW)	32.5	1.8	270	30.5	BS03-../D05LA4	50.00	438	1950	-	-	12	5.4
0.25 HP (0.18 kW)	28	2.1	385	43.5	BS06-../D05LA4	58.15	787	3500	-	-	22	10
0.25 HP (0.18 kW)	26.5	1.4	301	34	BS03-../D05LA4	62.00	438	1950	-	-	12	5.4
0.25 HP (0.18 kW)	26.5	0.88	381	43	BS04-../D05LA4	61.50	506	2250	-	-	13	5.8
0.25 HP (0.18 kW)	25.5	0.86	372	42	BS04-../D05LA4	64.06	506	2250	-	-	13	5.8
0.25 HP (0.18 kW)	25.5	1.75	403	45.5	BS06-../D05LA4	64.06	787	3500	-	-	22	10
0.25 HP (0.18 kW)	23	1.75	469	53	BS06-../D05LA4	71.18	787	3500	-	-	22	10
0.25 HP (0.18 kW)	23	2.9	487	55	BS10-../D06LA4	71.96	1124	5000	-	-	51	23
0.25 HP (0.18 kW)	22	1.0	350	39.5	BS03-../D05LA4	75.00	438	1950	-	-	12	5.4
0.25 HP (0.18 kW)	21.5	1.6	469	53	BS06-../D05LA4	77.00	787	3500	-	-	22	10
0.25 HP (0.18 kW)	19.5	2.3	575	65	BS10-../D06LA4	84.36	1191	5300	-	-	51	23

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.25 HP (0.18 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.25 HP (0.18 kW)	18	1.5	584	66	BS06-../D05LA4	90.00	787	3500	-	-	22	10
0.25 HP (0.18 kW)	16.5	3.2	682	77	BS20-../D06LA4	101.1	1596	7100	-	-	75	34
0.25 HP (0.18 kW)	16	1.35	655	74	BS06-../D05LA4	103.1	787	3500	-	-	22	10
0.25 HP (0.18 kW)	16	2.4	602	68	BS10-../D06LA4	103.4	1259	5600	-	-	51	23
0.25 HP (0.18 kW)	14	1.2	699	79	BS06-../D05LA4	118.8	787	3500	-	-	22	10
0.25 HP (0.18 kW)	14	1.35	797	90	BS10-../D06LA4	119.6	1349	6000	-	-	51	23
0.25 HP (0.18 kW)	13	1.2	779	88	BS06-../D05LA4	129.0	787	3500	-	-	22	10
0.25 HP (0.18 kW)	13	3.1	770	87	BS20-../D06LA4	127.3	1798	8000	-	-	75	34
0.25 HP (0.18 kW)	12.5	1.85	779	88	BS10-../D06LA4	130.3	1349	6000	-	-	51	23
0.25 HP (0.18 kW)	11.5	1.1	859	97	BS06-../D05LA4	146.8	787	3500	-	-	22	10
0.25 HP (0.18 kW)	11	1.65	885	100	BS10-../D06LA4	152.7	1349	6000	-	-	51	23
0.25 HP (0.18 kW)	10.5	2.5	956	108	BS20-../D06LA4	159.4	1798	8000	-	-	75	34
0.25 HP (0.18 kW)	9.4	0.9	965	109	BS06-../D05LA4	174.0	787	3500	-	-	22	10
0.25 HP (0.18 kW)	8.9	2.2	1124	127	BS20-../D06LA4	183.0	1798	8000	-	-	75	34
0.25 HP (0.18 kW)	8.6	1.35	1124	127	BS10-../D06LA4	188.6	1349	6000	-	-	51	23
0.25 HP (0.18 kW)	7.7	3.1	1301	147	BS30Z-../D06LA4	211.1	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	7.5	1.25	1292	146	BS10-../D06LA4	216.6	1349	6000	-	-	51	23
0.25 HP (0.18 kW)	7.2	1.9	1345	152	BS20-../D06LA4	225.6	1798	8000	-	-	75	34
0.25 HP (0.18 kW)	6.4	1.05	1513	171	BS10Z-../D06LA4	254.0	1349	6000	-	-	53	24
0.25 HP (0.18 kW)	6.3	1.7	1540	174	BS20Z-../D06LA4	257.8	1798	8000	-	-	77	35
0.25 HP (0.18 kW)	6.2	3.1	1611	182	BS30Z-../D06LA4	261.6	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	5.7	3.3	1947	220	BS40Z-../D06LA4	287.7	3372	15000	-	-	150	68
0.25 HP (0.18 kW)	5.4	0.96	1744	197	BS10Z-../D06LA4	302.5	1349	6000	-	-	53	24
0.25 HP (0.18 kW)	5.4	1.5	1770	200	BS20Z-../D06LA4	300.1	1798	8000	-	-	77	35
0.25 HP (0.18 kW)	5.3	2.8	1859	210	BS30Z-../D06LA4	306.6	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	4.6	1.4	2036	230	BS20Z-../D06LA4	359.9	1798	8000	-	-	77	35
0.25 HP (0.18 kW)	4.6	1.45	2434	275	BS30Z-../D06LA4	359.6	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	4.5	0.81	2080	235	BS10Z-../D06LA4	360.3	1349	6000	-	-	53	24
0.25 HP (0.18 kW)	4.2	2.2	2345	265	BS30Z-../D06LA4	390.2	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	3.8	1.2	2434	275	BS20Z-../D06LA4	430.8	1798	8000	-	-	77	35
0.25 HP (0.18 kW)	3.6	1.95	2699	305	BS30Z-../D06LA4	457.3	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	3.2	3.3	2965	335	BS40Z-../D06LA4	520.8	3372	15000	-	-	150	68
0.25 HP (0.18 kW)	3.1	1.2	2655	300	BS20Z-../D06LA4	539.7	1798	8000	-	-	77	35
0.25 HP (0.18 kW)	3.1	1.7	3098	350	BS30Z-../D06LA4	539.3	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	2.7	0.97	3009	340	BS20Z-../D06LA4	619.2	1798	8000	-	-	77	35
0.25 HP (0.18 kW)	2.7	2.4	3408	385	BS40Z-../D06LA4	612.1	3372	15000	-	-	150	68
0.25 HP (0.18 kW)	2.5	1.4	3629	410	BS30Z-../D06LA4	651.0	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	2.2	1.65	4116	465	BS40Z-../D06LA4	736.5	3372	15000	-	-	150	68
0.25 HP (0.18 kW)	2.1	1.0	4160	470	BS30Z-../D06LA4	804.1	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	1.8	0.83	4779	540	BS30Z-../D06LA4	932.0	2248	10000	-	-	119	54
0.25 HP (0.18 kW)	1.8	1.35	4956	560	BS40Z-../D06LA4	908.2	3372	15000	-	-	150	68
0.25 HP (0.18 kW)	1.7	1.25	6196	700	BS40G10-../D06LA4	965.5	3372	15000	-	-	161	73
0.25 HP (0.18 kW)	1.4	1.05	7523	850	BS40G10-../D06LA4	1180	3372	15000	-	-	161	73
0.25 HP (0.18 kW)	1.1	0.81	9647	1090	BS40G10-../D06LA4	1499	3372	15000	-	-	161	73

0.33 HP (0.25 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.33 HP (0.25 kW)	355	2.5	52	5.9	BS02-../D05LA4	4.60	225	1000	-	-	12	5.3
0.33 HP (0.25 kW)	300	2.9	62	7.0	BS02-../D05LA4	5.40	225	1000	-	-	12	5.3
0.33 HP (0.25 kW)	240	2.9	75	8.5	BS02-../D05LA4	6.75	225	1000	-	-	12	5.3

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BS-series worm-geared motors

Selection - worm-geared motors

0.33 HP (0.25 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.33 HP (0.25 kW)	197	2.5	89	10.1	BS02-../D05LA4	8.25	247	1100	-	-	12	5.3
0.33 HP (0.25 kW)	182	2.9	90	10.2	BS04-../D05LA4	8.93	337	1500	-	-	13	5.8
0.33 HP (0.25 kW)	152	1.95	113	12.8	BS02-../D05LA4	10.67	281	1250	-	-	12	5.3
0.33 HP (0.25 kW)	151	2.6	109	12.3	BS04-../D05LA4	10.73	360	1600	-	-	13	5.8
0.33 HP (0.25 kW)	124	2.2	131	14.8	BS04-../D05LA4	13.09	396	1760	-	-	13	5.8
0.33 HP (0.25 kW)	120	1.6	137	15.5	BS02-../D05LA4	13.50	281	1250	-	-	12	5.3
0.33 HP (0.25 kW)	100	1.9	162	18.3	BS04-../D05LA4	16.31	443	1970	-	-	13	5.8
0.33 HP (0.25 kW)	90	1.3	173	19.6	BS02-../D05LA4	18.00	281	1250	-	-	12	5.3
0.33 HP (0.25 kW)	90	1.8	166	18.8	BS04-../D05LA4	18.00	438	1950	-	-	13	5.8
0.33 HP (0.25 kW)	86	2.6	186	21	BS03-../D05LA4	19.00	438	1950	-	-	12	5.4
0.33 HP (0.25 kW)	82	3.3	204	23	BS06-../D05LA4	19.82	562	2500	-	-	22	10
0.33 HP (0.25 kW)	78	1.6	204	23	BS04-../D05LA4	20.96	472	2100	-	-	13	5.8
0.33 HP (0.25 kW)	74	1.1	199	22.5	BS02-../D05LA4	22.00	281	1250	-	-	12	5.3
0.33 HP (0.25 kW)	67	1.25	239	27	BS04-../D05LA4	24.25	506	2250	-	-	13	5.8
0.33 HP (0.25 kW)	67	2.7	252	28.5	BS06-../D05LA4	24.25	585	2600	-	-	22	10
0.33 HP (0.25 kW)	65	2.2	221	25	BS03-../D05LA4	25.00	438	1950	-	-	12	5.4
0.33 HP (0.25 kW)	62	1.4	239	27	BS04-../D05LA4	26.21	506	2250	-	-	13	5.8
0.33 HP (0.25 kW)	62	2.8	248	28	BS06-../D05LA4	26.21	674	3000	-	-	22	10
0.33 HP (0.25 kW)	60	1.0	221	25	BS02-../D05LA4	27.00	281	1250	-	-	12	5.3
0.33 HP (0.25 kW)	52	1.2	283	32	BS04-../D05LA4	31.50	506	2250	-	-	13	5.8
0.33 HP (0.25 kW)	52	2.4	296	33.5	BS06-../D05LA4	31.50	719	3200	-	-	22	10
0.33 HP (0.25 kW)	49.5	0.88	252	28.5	BS02-../D05LA4	33.00	281	1250	-	-	12	5.3
0.33 HP (0.25 kW)	49.5	1.9	257	29	BS03-../D05LA4	33.00	438	1950	-	-	12	5.4
0.33 HP (0.25 kW)	42.5	0.96	341	38.5	BS04-../D05LA4	38.42	506	2250	-	-	13	5.8
0.33 HP (0.25 kW)	42	1.55	319	36	BS03-../D05LA4	39.00	438	1950	-	-	12	5.4
0.33 HP (0.25 kW)	41	3.2	385	43.5	BS10-../D06LA4	39.96	854	3800	-	-	51	23
0.33 HP (0.25 kW)	39.5	2.0	385	43.5	BS06-../D05LA4	41.29	787	3500	-	-	22	10
0.33 HP (0.25 kW)	34.5	2.8	451	51	BS10-../D06LA4	47.59	910	4050	-	-	51	23
0.33 HP (0.25 kW)	34	0.8	420	47.5	BS04-../D05LA4	47.86	506	2250	-	-	13	5.8
0.33 HP (0.25 kW)	33.5	1.75	451	51	BS06-../D05LA4	48.60	787	3500	-	-	22	10
0.33 HP (0.25 kW)	32.5	1.3	376	42.5	BS03-../D05LA4	50.00	438	1950	-	-	12	5.4
0.33 HP (0.25 kW)	28.5	2.5	540	61	BS10-../D06LA4	57.12	978	4350	-	-	51	23
0.33 HP (0.25 kW)	28	1.5	531	60	BS06-../D05LA4	58.15	787	3500	-	-	22	10
0.33 HP (0.25 kW)	27	2.5	522	59	BS10-../D06LA4	60.74	1023	4550	-	-	51	23
0.33 HP (0.25 kW)	26.5	1.0	420	47.5	BS03-../D05LA4	62.00	438	1950	-	-	12	5.4
0.33 HP (0.25 kW)	25.5	1.25	558	63	BS06-../D05LA4	64.06	787	3500	-	-	22	10
0.33 HP (0.25 kW)	23	1.3	646	73	BS06-../D05LA4	71.18	787	3500	-	-	22	10
0.33 HP (0.25 kW)	23	2.1	673	76	BS10-../D06LA4	71.96	1124	5000	-	-	51	23
0.33 HP (0.25 kW)	21.5	1.15	655	74	BS06-../D05LA4	77.00	787	3500	-	-	22	10
0.33 HP (0.25 kW)	19.5	1.65	797	90	BS10-../D06LA4	84.36	1191	5300	-	-	51	23
0.33 HP (0.25 kW)	18.5	3.2	752	85	BS20-../D06LA4	88.67	1574	7000	-	-	75	34
0.33 HP (0.25 kW)	18	1.05	814	92	BS06-../D05LA4	90.00	787	3500	-	-	22	10
0.33 HP (0.25 kW)	16.5	2.3	947	107	BS20-../D06LA4	101.1	1596	7100	-	-	75	34
0.33 HP (0.25 kW)	16	0.98	903	102	BS06-../D05LA4	103.1	787	3500	-	-	22	10
0.33 HP (0.25 kW)	16	1.7	841	95	BS10-../D06LA4	103.4	1259	5600	-	-	51	23
0.33 HP (0.25 kW)	15.5	2.7	894	101	BS20-../D06LA4	106.3	1709	7600	-	-	75	34
0.33 HP (0.25 kW)	14	0.85	974	110	BS06-../D05LA4	118.8	787	3500	-	-	22	10
0.33 HP (0.25 kW)	14	0.96	1115	126	BS10-../D06LA4	119.6	1349	6000	-	-	51	23
0.33 HP (0.25 kW)	13	0.85	1089	123	BS06-../D05LA4	129.0	787	3500	-	-	22	10
0.33 HP (0.25 kW)	13	2.2	1071	121	BS20-../D06LA4	127.3	1798	8000	-	-	75	34
0.33 HP (0.25 kW)	12.5	1.35	1080	122	BS10-../D06LA4	130.3	1349	6000	-	-	51	23
0.33 HP (0.25 kW)	11	1.2	1221	138	BS10-../D06LA4	152.7	1349	6000	-	-	51	23
0.33 HP (0.25 kW)	10.5	1.85	1328	150	BS20-../D06LA4	159.4	1798	8000	-	-	75	34
0.33 HP (0.25 kW)	8.9	1.6	1567	177	BS20-../D06LA4	183.0	1798	8000	-	-	75	34
0.33 HP (0.25 kW)	8.7	3.0	1602	181	BS30-../D06LA4	186.7	2248	10000	-	-	112	51
0.33 HP (0.25 kW)	8.6	0.96	1567	177	BS10-../D06LA4	188.6	1349	6000	-	-	51	23
0.33 HP (0.25 kW)	8.3	3.3	1859	210	BS40Z-../D06LA4	197.1	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	7.5	0.9	1770	200	BS10-../D06LA4	216.6	1349	6000	-	-	51	23

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.33 HP (0.25 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.33 HP (0.25 kW)	7.5	2.5	1859	210	BS30-../D06LA4	216.4	2248	10000	-	-	112	51
0.33 HP (0.25 kW)	7.2	1.4	1859	210	BS20-../D06LA4	225.6	1798	8000	-	-	75	34
0.33 HP (0.25 kW)	6.3	1.25	2124	240	BS20Z-../D06LA4	257.8	1798	8000	-	-	77	35
0.33 HP (0.25 kW)	6.2	2.2	2213	250	BS30Z-../D06LA4	261.6	2248	10000	-	-	119	54
0.33 HP (0.25 kW)	5.7	2.3	2699	305	BS40Z-../D06LA4	287.7	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	5.4	1.1	2434	275	BS20Z-../D06LA4	300.1	1798	8000	-	-	77	35
0.33 HP (0.25 kW)	5.3	2.0	2567	290	BS30Z-../D06LA4	306.6	2248	10000	-	-	119	54
0.33 HP (0.25 kW)	4.6	1.0	2832	320	BS20Z-../D06LA4	359.9	1798	8000	-	-	77	35
0.33 HP (0.25 kW)	4.6	1.05	3363	380	BS30Z-../D06LA4	359.6	2248	10000	-	-	119	54
0.33 HP (0.25 kW)	4.6	3.3	2876	325	BS40Z-../D06LA4	356.8	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	4.2	1.6	3231	365	BS30Z-../D06LA4	390.2	2248	10000	-	-	119	54
0.33 HP (0.25 kW)	3.8	0.87	3363	380	BS20Z-../D06LA4	430.8	1798	8000	-	-	77	35
0.33 HP (0.25 kW)	3.7	2.4	3585	405	BS40Z-../D06LA4	446.8	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	3.6	1.45	3717	420	BS30Z-../D06LA4	457.3	2248	10000	-	-	119	54
0.33 HP (0.25 kW)	3.2	2.3	4160	470	BS40Z-../D06LA4	520.8	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	3.1	0.87	3717	420	BS20Z-../D06LA4	539.7	1798	8000	-	-	77	35
0.33 HP (0.25 kW)	3.1	1.2	4337	490	BS30Z-../D06LA4	539.3	2248	10000	-	-	119	54
0.33 HP (0.25 kW)	2.7	1.7	4691	530	BS40Z-../D06LA4	612.1	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	2.5	1.0	5045	570	BS30Z-../D06LA4	651.0	2248	10000	-	-	119	54
0.33 HP (0.25 kW)	2.2	1.15	5753	650	BS40Z-../D06LA4	736.5	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	1.8	0.95	6904	780	BS40Z-../D06LA4	908.2	3372	15000	-	-	150	68
0.33 HP (0.25 kW)	1.7	0.9	8674	980	BS40G10-../D06LA4	965.5	3372	15000	-	-	161	73

0.4 HP (0.3 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb·f	N	lb·f	N		
0.4 HP (0.3 kW)	355	2.1	63	7.1	BS02-../D05LA4	4.60	225	1000	-	-	12	5.3
0.4 HP (0.3 kW)	300	2.4	74	8.4	BS02-../D05LA4	5.40	225	1000	-	-	12	5.3
0.4 HP (0.3 kW)	265	3.1	74	8.4	BS04-../D05LA4	6.13	292	1300	-	-	13	5.8
0.4 HP (0.3 kW)	240	2.5	90	10.2	BS02-../D05LA4	6.75	225	1000	-	-	12	5.3
0.4 HP (0.3 kW)	197	2.0	108	12.2	BS02-../D05LA4	8.25	247	1100	-	-	12	5.3
0.4 HP (0.3 kW)	182	2.5	108	12.2	BS04-../D05LA4	8.93	337	1500	-	-	13	5.8
0.4 HP (0.3 kW)	152	1.6	136	15.4	BS02-../D05LA4	10.67	281	1250	-	-	12	5.3
0.4 HP (0.3 kW)	151	2.2	130	14.7	BS04-../D05LA4	10.73	360	1600	-	-	13	5.8
0.4 HP (0.3 kW)	124	1.85	157	17.7	BS04-../D05LA4	13.09	396	1760	-	-	13	5.8
0.4 HP (0.3 kW)	120	1.35	165	18.6	BS02-../D05LA4	13.50	281	1250	-	-	12	5.3
0.4 HP (0.3 kW)	120	3.0	165	18.6	BS03-../D05LA4	13.50	360	1600	-	-	12	5.4
0.4 HP (0.3 kW)	100	1.6	195	22	BS04-../D05LA4	16.31	443	1970	-	-	13	5.8
0.4 HP (0.3 kW)	98	3.1	204	23	BS06-../D05LA4	16.56	540	2400	-	-	22	10
0.4 HP (0.3 kW)	90	1.05	208	23.5	BS02-../D05LA4	18.00	281	1250	-	-	12	5.3
0.4 HP (0.3 kW)	90	1.5	199	22.5	BS04-../D05LA4	18.00	438	1950	-	-	13	5.8
0.4 HP (0.3 kW)	86	2.2	221	25	BS03-../D05LA4	19.00	438	1950	-	-	12	5.4
0.4 HP (0.3 kW)	82	2.7	243	27.5	BS06-../D05LA4	19.82	562	2500	-	-	22	10
0.4 HP (0.3 kW)	78	1.35	243	27.5	BS04-../D05LA4	20.96	472	2100	-	-	13	5.8
0.4 HP (0.3 kW)	74	0.93	239	27	BS02-../D05LA4	22.00	281	1250	-	-	12	5.3
0.4 HP (0.3 kW)	67	1.05	283	32	BS04-../D05LA4	24.25	506	2250	-	-	13	5.8
0.4 HP (0.3 kW)	67	2.3	301	34	BS06-../D05LA4	24.25	585	2600	-	-	22	10
0.4 HP (0.3 kW)	65	1.85	266	30	BS03-../D05LA4	25.00	438	1950	-	-	12	5.4
0.4 HP (0.3 kW)	62	1.15	288	32.5	BS04-../D05LA4	26.21	506	2250	-	-	13	5.8
0.4 HP (0.3 kW)	62	2.3	296	33.5	BS06-../D05LA4	26.21	674	3000	-	-	22	10
0.4 HP (0.3 kW)	60	0.83	266	30	BS02-../D05LA4	27.00	281	1250	-	-	12	5.3

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BS-series worm-geared motors

Selection - worm-geared motors

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb.f	N	lb.f	N		
0.4 HP (0.3 kW)	52	0.99	341	38.5	BS04-../D05LA4	31.50	506	2250	-	-	13	5.8
0.4 HP (0.3 kW)	52	2.0	354	40	BS06-../D05LA4	31.50	719	3200	-	-	22	10
0.4 HP (0.3 kW)	49.5	1.55	310	35	BS03-../D05LA4	33.00	438	1950	-	-	12	5.4
0.4 HP (0.3 kW)	48.5	3.0	394	44.5	BS10-../D06LA4	33.55	798	3550	-	-	51	23
0.4 HP (0.3 kW)	42.5	0.8	412	46.5	BS04-../D05LA4	38.42	506	2250	-	-	13	5.8
0.4 HP (0.3 kW)	42	1.25	385	43.5	BS03-../D05LA4	39.00	438	1950	-	-	12	5.4
0.4 HP (0.3 kW)	41	2.7	460	52	BS10-../D06LA4	39.96	854	3800	-	-	51	23
0.4 HP (0.3 kW)	39.5	1.65	460	52	BS06-../D05LA4	41.29	787	3500	-	-	22	10
0.4 HP (0.3 kW)	34.5	2.3	549	62	BS10-../D06LA4	47.59	910	4050	-	-	51	23
0.4 HP (0.3 kW)	33.5	1.45	540	61	BS06-../D05LA4	48.60	787	3500	-	-	22	10
0.4 HP (0.3 kW)	32.5	1.1	451	51	BS03-../D05LA4	50.00	438	1950	-	-	12	5.4
0.4 HP (0.3 kW)	28.5	2.0	655	74	BS10-../D06LA4	57.12	978	4350	-	-	51	23
0.4 HP (0.3 kW)	28	1.25	637	72	BS06-../D05LA4	58.15	787	3500	-	-	22	10
0.4 HP (0.3 kW)	27	2.1	628	71	BS10-../D06LA4	60.74	1023	4550	-	-	51	23
0.4 HP (0.3 kW)	26.5	0.84	504	57	BS03-../D05LA4	62.00	438	1950	-	-	12	5.4
0.4 HP (0.3 kW)	25.5	1.05	673	76	BS06-../D05LA4	64.06	787	3500	-	-	22	10
0.4 HP (0.3 kW)	23.5	3.3	805	91	BS20-../D06LA4	70.30	1416	6300	-	-	75	34
0.4 HP (0.3 kW)	23	1.05	779	88	BS06-../D05LA4	71.18	787	3500	-	-	22	10
0.4 HP (0.3 kW)	23	1.75	814	92	BS10-../D06LA4	71.96	1124	5000	-	-	51	23
0.4 HP (0.3 kW)	21.5	0.96	788	89	BS06-../D05LA4	77.00	787	3500	-	-	22	10
0.4 HP (0.3 kW)	21.5	3.1	770	87	BS20-../D06LA4	76.18	1484	6600	-	-	75	34
0.4 HP (0.3 kW)	19.5	1.4	956	108	BS10-../D06LA4	84.36	1191	5300	-	-	51	23
0.4 HP (0.3 kW)	18.5	2.6	903	102	BS20-../D06LA4	88.67	1574	7000	-	-	75	34
0.4 HP (0.3 kW)	18	0.88	982	111	BS06-../D05LA4	90.00	787	3500	-	-	22	10
0.4 HP (0.3 kW)	16.5	1.95	1133	128	BS20-../D06LA4	101.1	1596	7100	-	-	75	34
0.4 HP (0.3 kW)	16	0.81	1089	123	BS06-../D05LA4	103.1	787	3500	-	-	22	10
0.4 HP (0.3 kW)	16	1.4	1009	114	BS10-../D06LA4	103.4	1259	5600	-	-	51	23
0.4 HP (0.3 kW)	15.5	2.2	1071	121	BS20-../D06LA4	106.3	1709	7600	-	-	75	34
0.4 HP (0.3 kW)	14	0.8	1336	151	BS10-../D06LA4	119.6	1349	6000	-	-	51	23
0.4 HP (0.3 kW)	13	1.85	1283	145	BS20-../D06LA4	127.3	1798	8000	-	-	75	34
0.4 HP (0.3 kW)	12.5	1.1	1292	146	BS10-../D06LA4	130.3	1349	6000	-	-	51	23
0.4 HP (0.3 kW)	11	0.99	1469	166	BS10-../D06LA4	152.7	1349	6000	-	-	51	23
0.4 HP (0.3 kW)	11	3.1	1540	174	BS30-../D06LA4	151.1	2136	9500	-	-	112	51
0.4 HP (0.3 kW)	10.5	1.55	1593	180	BS20-../D06LA4	159.4	1798	8000	-	-	75	34
0.4 HP (0.3 kW)	8.9	1.35	1859	210	BS20-../D06LA4	183.0	1798	8000	-	-	75	34
0.4 HP (0.3 kW)	8.7	2.5	1903	215	BS30-../D06LA4	186.7	2248	10000	-	-	112	51
0.4 HP (0.3 kW)	8.6	0.81	1859	210	BS10-../D06LA4	188.6	1349	6000	-	-	51	23
0.4 HP (0.3 kW)	8.3	2.7	2257	255	BS40Z-../D06LA4	197.1	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	7.5	2.1	2213	250	BS30-../D06LA4	216.4	2248	10000	-	-	112	51
0.4 HP (0.3 kW)	7.2	1.15	2213	250	BS20-../D06LA4	225.6	1798	8000	-	-	75	34
0.4 HP (0.3 kW)	6.5	3.3	2434	275	BS40Z-../D06LA4	249.6	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	6.3	1.0	2567	290	BS20Z-../D06LA4	257.8	1798	8000	-	-	77	35
0.4 HP (0.3 kW)	6.2	1.85	2655	300	BS30Z-../D06LA4	261.6	2248	10000	-	-	119	54
0.4 HP (0.3 kW)	5.7	1.95	3275	370	BS40Z-../D06LA4	287.7	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	5.4	0.91	2921	330	BS20Z-../D06LA4	300.1	1798	8000	-	-	77	35
0.4 HP (0.3 kW)	5.4	3.2	2921	330	BS40Z-../D06LA4	302.1	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	5.3	1.65	3098	350	BS30Z-../D06LA4	306.6	2248	10000	-	-	119	54
0.4 HP (0.3 kW)	4.6	0.83	3408	385	BS20Z-../D06LA4	359.9	1798	8000	-	-	77	35
0.4 HP (0.3 kW)	4.6	0.86	4071	460	BS30Z-../D06LA4	359.6	2248	10000	-	-	119	54
0.4 HP (0.3 kW)	4.6	2.8	3452	390	BS40Z-../D06LA4	356.8	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	4.2	1.35	3894	440	BS30Z-../D06LA4	390.2	2248	10000	-	-	119	54
0.4 HP (0.3 kW)	3.7	2.0	4293	485	BS40Z-../D06LA4	446.8	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	3.6	1.2	4425	500	BS30Z-../D06LA4	457.3	2248	10000	-	-	119	54
0.4 HP (0.3 kW)	3.2	1.95	4956	560	BS40Z-../D07LA4	520.8	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	3.1	1.0	5222	590	BS30Z-../D07LA4	539.3	2248	10000	-	-	119	54
0.4 HP (0.3 kW)	2.7	1.4	5664	640	BS40Z-../D07LA4	612.1	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	2.5	0.85	6019	680	BS30Z-../D07LA4	651.0	2248	10000	-	-	119	54

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.4 HP (0.3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.4 HP (0.3 kW)	2.2	0.97	6904	780	BS40Z-../D07LA4	736.5	3372	15000	-	-	150	68
0.4 HP (0.3 kW)	1.8	0.8	8231	930	BS40Z-../D07LA4	908.2	3372	15000	-	-	150	68

0.5 HP (0.37 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f·in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
0.5 HP (0.37 kW)	355	1.7	77	8.7	BS02-../D07LA4	4.60	225	1000	-	-	15	6.8
0.5 HP (0.37 kW)	300	1.95	91	10.3	BS02-../D07LA4	5.40	225	1000	-	-	15	6.8
0.5 HP (0.37 kW)	265	2.5	92	10.4	BS04-../D07LA4	6.13	292	1300	-	-	16	7.3
0.5 HP (0.37 kW)	240	2.0	112	12.6	BS02-../D07LA4	6.75	225	1000	-	-	15	6.8
0.5 HP (0.37 kW)	197	1.65	133	15	BS02-../D07LA4	8.25	247	1100	-	-	15	6.8
0.5 HP (0.37 kW)	182	2.0	134	15.1	BS04-../D07LA4	8.93	337	1500	-	-	16	7.3
0.5 HP (0.37 kW)	152	1.3	168	19	BS02-../D07LA4	10.67	281	1250	-	-	15	6.8
0.5 HP (0.37 kW)	151	1.75	161	18.2	BS04-../D07LA4	10.73	360	1600	-	-	16	7.3
0.5 HP (0.37 kW)	124	1.55	190	21.5	BS04-../D07LA4	13.09	396	1760	-	-	16	7.3
0.5 HP (0.37 kW)	120	1.1	199	22.5	BS02-../D07LA4	13.50	281	1250	-	-	15	6.8
0.5 HP (0.37 kW)	120	2.4	199	22.5	BS03-../D07LA4	13.50	360	1600	-	-	15	6.9
0.5 HP (0.37 kW)	116	2.8	217	24.5	BS06-../D07LA4	14.07	495	2200	-	-	26	12
0.5 HP (0.37 kW)	100	1.3	239	27	BS04-../D07LA4	16.31	443	1970	-	-	16	7.3
0.5 HP (0.37 kW)	98	2.5	252	28.5	BS06-../D07LA4	16.56	540	2400	-	-	26	12
0.5 HP (0.37 kW)	90	0.86	257	29	BS02-../D07LA4	18.00	281	1250	-	-	15	6.8
0.5 HP (0.37 kW)	90	1.25	243	27.5	BS04-../D07LA4	18.00	438	1950	-	-	16	7.3
0.5 HP (0.37 kW)	86	1.75	274	31	BS03-../D07LA4	19.00	438	1950	-	-	15	6.9
0.5 HP (0.37 kW)	82	2.2	301	34	BS06-../D07LA4	19.82	562	2500	-	-	26	12
0.5 HP (0.37 kW)	78	1.1	301	34	BS04-../D07LA4	20.96	472	2100	-	-	16	7.3
0.5 HP (0.37 kW)	75	3.3	332	37.5	BS10-../D07LA4	21.61	674	3000	-	-	51	23
0.5 HP (0.37 kW)	67	0.85	354	40	BS04-../D07LA4	24.25	506	2250	-	-	16	7.3
0.5 HP (0.37 kW)	67	1.85	372	42	BS06-../D07LA4	24.25	585	2600	-	-	26	12
0.5 HP (0.37 kW)	65	1.45	332	37.5	BS03-../D07LA4	25.00	438	1950	-	-	15	6.9
0.5 HP (0.37 kW)	62	0.95	354	40	BS04-../D07LA4	26.21	506	2250	-	-	16	7.3
0.5 HP (0.37 kW)	62	1.85	367	41.5	BS06-../D07LA4	26.21	674	3000	-	-	26	12
0.5 HP (0.37 kW)	62	3.0	389	44	BS10-../D07LA4	26.42	731	3250	-	-	51	23
0.5 HP (0.37 kW)	52	0.8	420	47.5	BS04-../D07LA4	31.50	506	2250	-	-	16	7.3
0.5 HP (0.37 kW)	52	1.6	438	49.5	BS06-../D07LA4	31.50	719	3200	-	-	26	12
0.5 HP (0.37 kW)	49.5	1.25	385	43.5	BS03-../D07LA4	33.00	438	1950	-	-	15	6.9
0.5 HP (0.37 kW)	48.5	2.5	487	55	BS10-../D07LA4	33.55	798	3550	-	-	51	23
0.5 HP (0.37 kW)	42	1.05	469	53	BS03-../D07LA4	39.00	438	1950	-	-	15	6.9
0.5 HP (0.37 kW)	41	2.2	566	64	BS10-../D07LA4	39.96	854	3800	-	-	51	23
0.5 HP (0.37 kW)	39.5	1.35	566	64	BS06-../D07LA4	41.29	787	3500	-	-	26	12
0.5 HP (0.37 kW)	34.5	1.9	673	76	BS10-../D07LA4	47.59	910	4050	-	-	51	23
0.5 HP (0.37 kW)	33.5	1.15	664	75	BS06-../D07LA4	48.60	787	3500	-	-	26	12
0.5 HP (0.37 kW)	32.5	0.87	558	63	BS03-../D07LA4	50.00	438	1950	-	-	15	6.9
0.5 HP (0.37 kW)	28.5	1.65	805	91	BS10-../D07LA4	57.12	978	4350	-	-	51	23
0.5 HP (0.37 kW)	28	1.0	788	89	BS06-../D07LA4	58.15	787	3500	-	-	26	12
0.5 HP (0.37 kW)	28	3.0	832	94	BS20-../D07LA4	58.74	1326	5900	-	-	75	34
0.5 HP (0.37 kW)	27	1.7	770	87	BS10-../D07LA4	60.74	1023	4550	-	-	51	23
0.5 HP (0.37 kW)	25.5	0.85	832	94	BS06-../D07LA4	64.06	787	3500	-	-	26	12
0.5 HP (0.37 kW)	23.5	2.7	991	112	BS20-../D07LA4	70.30	1416	6300	-	-	75	34
0.5 HP (0.37 kW)	23	0.86	965	109	BS06-../D07LA4	71.18	787	3500	-	-	26	12
0.5 HP (0.37 kW)	23	1.4	1000	113	BS10-../D07LA4	71.96	1124	5000	-	-	51	23

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BS-series worm-geared motors

Selection - worm-geared motors

0.5 HP (0.37 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.5 HP (0.37 kW)	21.5	2.5	956	108	BS20-../D07LA4	76.18	1484	6600	-	-	75	34
0.5 HP (0.37 kW)	19.5	1.1	1186	134	BS10-../D07LA4	84.36	1191	5300	-	-	51	23
0.5 HP (0.37 kW)	19.5	2.9	1230	139	BS30-../D07LA4	83.48	1529	6800	-	-	112	51
0.5 HP (0.37 kW)	18.5	2.1	1115	126	BS20-../D07LA4	88.67	1574	7000	-	-	75	34
0.5 HP (0.37 kW)	16.5	1.6	1398	158	BS20-../D07LA4	101.1	1596	7100	-	-	75	34
0.5 HP (0.37 kW)	16	1.15	1248	141	BS10-../D07LA4	103.4	1259	5600	-	-	51	23
0.5 HP (0.37 kW)	15.5	1.8	1328	150	BS20-../D07LA4	106.3	1709	7600	-	-	75	34
0.5 HP (0.37 kW)	15.5	3.3	1372	155	BS30-../D07LA4	106.2	1843	8200	-	-	112	51
0.5 HP (0.37 kW)	13	1.5	1584	179	BS20-../D07LA4	127.3	1798	8000	-	-	75	34
0.5 HP (0.37 kW)	13	2.8	1629	184	BS30-../D07LA4	125.2	1956	8700	-	-	112	51
0.5 HP (0.37 kW)	12.5	0.91	1593	180	BS10-../D07LA4	130.3	1349	6000	-	-	51	23
0.5 HP (0.37 kW)	11	0.8	1814	205	BS10-../D07LA4	152.7	1349	6000	-	-	51	23
0.5 HP (0.37 kW)	11	2.5	1903	215	BS30-../D07LA4	151.1	2136	9500	-	-	112	51
0.5 HP (0.37 kW)	10.5	1.25	1947	220	BS20-../D07LA4	159.4	1798	8000	-	-	75	34
0.5 HP (0.37 kW)	8.9	1.1	2301	260	BS20-../D07LA4	183.0	1798	8000	-	-	75	34
0.5 HP (0.37 kW)	8.7	2.0	2345	265	BS30-../D07LA4	186.7	2248	10000	-	-	112	51
0.5 HP (0.37 kW)	8.3	2.2	2788	315	BS40Z-../D07LA4	197.1	3372	15000	-	-	150	68
0.5 HP (0.37 kW)	7.5	1.7	2744	310	BS30-../D07LA4	216.4	2248	10000	-	-	112	51
0.5 HP (0.37 kW)	7.2	0.94	2744	310	BS20-../D07LA4	225.6	1798	8000	-	-	75	34
0.5 HP (0.37 kW)	6.5	2.6	3009	340	BS40Z-../D07LA4	249.6	3372	15000	-	-	150	68
0.5 HP (0.37 kW)	6.3	0.83	3142	355	BS20Z-../D07LA4	257.8	1798	8000	-	-	77	35
0.5 HP (0.37 kW)	6.2	1.5	3319	375	BS30Z-../D07LA4	261.6	2248	10000	-	-	119	54
0.5 HP (0.37 kW)	5.7	1.55	4027	455	BS40Z-../D07LA4	287.7	3372	15000	-	-	150	68
0.5 HP (0.37 kW)	5.4	2.6	3629	410	BS40Z-../D07LA4	302.1	3372	15000	-	-	150	68
0.5 HP (0.37 kW)	5.3	1.35	3806	430	BS30Z-../D07LA4	306.6	2248	10000	-	-	119	54
0.5 HP (0.37 kW)	4.6	2.3	4248	480	BS40Z-../D07LA4	356.8	3372	15000	-	-	150	68
0.5 HP (0.37 kW)	4.2	1.1	4779	540	BS30Z-../D07LA4	390.2	2248	10000	-	-	119	54
0.5 HP (0.37 kW)	3.7	1.65	5310	600	BS40Z-../D07LA4	446.8	3372	15000	-	-	150	68
0.5 HP (0.37 kW)	3.6	0.97	5487	620	BS30Z-../D07LA4	457.3	2248	10000	-	-	119	54
0.5 HP (0.37 kW)	3.2	1.6	6107	690	BS40Z-../D07LA4	520.8	3372	15000	-	-	150	68
0.5 HP (0.37 kW)	3.1	0.83	6373	720	BS30Z-../D07LA4	539.3	2248	10000	-	-	119	54
0.5 HP (0.37 kW)	2.7	1.15	6992	790	BS40Z-../D07LA4	612.1	3372	15000	-	-	150	68

0.75 HP (0.55 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
0.75 HP (0.55 kW)	370	3.2	110	12.4	BS03-../D08MA4	4.60	241	1070	-	-	22	10
0.75 HP (0.55 kW)	280	2.7	146	16.5	BS03-../D08MA4	6.00	263	1170	-	-	22	10
0.75 HP (0.55 kW)	210	2.2	190	21.5	BS03-../D08MA4	8.00	297	1320	-	-	22	10
0.75 HP (0.55 kW)	189	2.8	199	22.5	BS06-../D08MA4	8.93	384	1710	-	-	35	16
0.75 HP (0.55 kW)	168	2.0	230	26	BS03-../D08MA4	10.00	326	1450	-	-	22	10
0.75 HP (0.55 kW)	157	2.4	239	27	BS06-../D08MA4	10.73	416	1850	-	-	35	16
0.75 HP (0.55 kW)	125	1.7	288	32.5	BS03-../D08MA4	13.50	360	1600	-	-	22	10
0.75 HP (0.55 kW)	120	1.95	310	35	BS06-../D08MA4	14.07	495	2200	-	-	35	16
0.75 HP (0.55 kW)	102	1.75	363	41	BS06-../D08MA4	16.56	540	2400	-	-	35	16
0.75 HP (0.55 kW)	100	2.9	372	42	BS10-../D08MA4	16.92	607	2700	-	-	60	27
0.75 HP (0.55 kW)	89	1.25	394	44.5	BS03-../D08MA4	19.00	438	1950	-	-	22	10
0.75 HP (0.55 kW)	85	1.55	434	49	BS06-../D08MA4	19.82	562	2500	-	-	35	16
0.75 HP (0.55 kW)	78	2.4	469	53	BS10-../D08MA4	21.61	674	3000	-	-	60	27
0.75 HP (0.55 kW)	75	2.4	425	48	BS10-../D08MA4	22.60	719	3200	-	-	60	27
0.75 HP (0.55 kW)	70	1.3	531	60	BS06-../D08MA4	24.25	585	2600	-	-	35	16

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

0.75 HP (0.55 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF			Type	i	lb.f	N	lb.f	N		
0.75 HP (0.55 kW)	68	1.05	469	53	BS03-../D08MA4	25.00	438	1950	-	-	22	10
0.75 HP (0.55 kW)	65	1.35	513	58	BS06-../D08MA4	26.21	674	3000	-	-	35	16
0.75 HP (0.55 kW)	64	2.0	566	64	BS10-../D08MA4	26.42	731	3250	-	-	60	27
0.75 HP (0.55 kW)	55	2.0	575	65	BS10-../D08MA4	30.63	798	3550	-	-	60	27
0.75 HP (0.55 kW)	54	1.15	628	71	BS06-../D08MA4	31.50	719	3200	-	-	35	16
0.75 HP (0.55 kW)	51	0.89	549	62	BS03-../D08MA4	33.00	438	1950	-	-	22	10
0.75 HP (0.55 kW)	51	1.75	690	78	BS10-../D08MA4	33.55	798	3550	-	-	60	27
0.75 HP (0.55 kW)	42.5	1.5	814	92	BS10-../D08MA4	39.96	854	3800	-	-	60	27
0.75 HP (0.55 kW)	42	2.9	797	90	BS20-../D08MA4	40.25	1191	5300	-	-	82	37
0.75 HP (0.55 kW)	41	0.93	814	92	BS06-../D08MA4	41.29	787	3500	-	-	35	16
0.75 HP (0.55 kW)	40	2.7	876	99	BS20-../D08MA4	42.08	1169	5200	-	-	82	37
0.75 HP (0.55 kW)	35.5	1.3	974	110	BS10-../D08MA4	47.59	910	4050	-	-	60	27
0.75 HP (0.55 kW)	35	0.81	956	108	BS06-../D08MA4	48.60	787	3500	-	-	35	16
0.75 HP (0.55 kW)	34.5	2.4	1009	114	BS20-../D08MA4	48.98	1236	5500	-	-	82	37
0.75 HP (0.55 kW)	33.5	2.6	929	105	BS20-../D08MA4	50.44	1281	5700	-	-	82	37
0.75 HP (0.55 kW)	29.5	1.15	1159	131	BS10-../D08MA4	57.12	978	4350	-	-	60	27
0.75 HP (0.55 kW)	29	2.1	1195	135	BS20-../D08MA4	58.74	1326	5900	-	-	82	37
0.75 HP (0.55 kW)	29	3.3	1230	139	BS30-../D08MA4	58.64	1551	6900	-	-	121	55
0.75 HP (0.55 kW)	28	1.2	1106	125	BS10-../D08MA4	60.74	1023	4550	-	-	60	27
0.75 HP (0.55 kW)	24	1.85	1452	164	BS20-../D08MA4	70.30	1416	6300	-	-	82	37
0.75 HP (0.55 kW)	24	3.1	1354	153	BS30-../D08MA4	71.17	1574	7000	-	-	121	55
0.75 HP (0.55 kW)	23.5	0.97	1460	165	BS10-../D08MA4	71.96	1124	5000	-	-	60	27
0.75 HP (0.55 kW)	22.5	1.75	1363	154	BS20-../D08MA4	76.18	1484	6600	-	-	82	37
0.75 HP (0.55 kW)	20.5	2.1	1744	197	BS30-../D08MA4	83.48	1529	6800	-	-	121	55
0.75 HP (0.55 kW)	19	1.5	1611	182	BS20-../D08MA4	88.67	1574	7000	-	-	82	37
0.75 HP (0.55 kW)	19	2.6	1682	190	BS30-../D08MA4	90.59	1731	7700	-	-	121	55
0.75 HP (0.55 kW)	17	1.1	1991	225	BS20-../D08MA4	101.1	1596	7100	-	-	82	37
0.75 HP (0.55 kW)	16.5	0.8	1770	200	BS10-../D08MA4	103.4	1259	5600	-	-	60	27
0.75 HP (0.55 kW)	16	1.25	1903	215	BS20-../D08MA4	106.3	1709	7600	-	-	82	37
0.75 HP (0.55 kW)	16	2.3	1947	220	BS30-../D08MA4	106.2	1843	8200	-	-	121	55
0.75 HP (0.55 kW)	13.5	1.05	2257	255	BS20-../D08MA4	127.3	1798	8000	-	-	82	37
0.75 HP (0.55 kW)	13.5	2.0	2301	260	BS30-../D08MA4	125.2	1956	8700	-	-	121	55
0.75 HP (0.55 kW)	11.5	1.75	2699	305	BS30-../D08MA4	151.1	2136	9500	-	-	121	55
0.75 HP (0.55 kW)	11.5	3.3	2611	295	BS40-../D08MA4	148.1	3372	15000	-	-	150	68
0.75 HP (0.55 kW)	11	0.87	2788	315	BS20-../D08MA4	159.4	1798	8000	-	-	82	37
0.75 HP (0.55 kW)	9.5	2.3	3142	355	BS40-../D08MA4	178.2	3372	15000	-	-	150	68
0.75 HP (0.55 kW)	9.0	1.4	3408	385	BS30-../D08MA4	186.7	2248	10000	-	-	121	55
0.75 HP (0.55 kW)	7.8	1.2	3894	440	BS30-../D08MA4	216.4	2248	10000	-	-	121	55
0.75 HP (0.55 kW)	7.7	1.85	3762	425	BS40-../D08MA4	219.7	3372	15000	-	-	150	68
0.75 HP (0.55 kW)	6.8	1.85	4293	485	BS40Z-../D08MA4	249.6	3372	15000	-	-	157	71
0.75 HP (0.55 kW)	6.5	1.05	4691	530	BS30Z-../D08MA4	261.6	2248	10000	-	-	128	58
0.75 HP (0.55 kW)	5.9	1.1	5753	650	BS40Z-../D08MA4	287.7	3372	15000	-	-	157	71
0.75 HP (0.55 kW)	5.6	1.8	5222	590	BS40Z-../D08MA4	302.1	3372	15000	-	-	157	71
0.75 HP (0.55 kW)	5.5	0.94	5487	620	BS30Z-../D08MA4	306.6	2248	10000	-	-	128	58
0.75 HP (0.55 kW)	4.8	1.6	6019	680	BS40Z-../D08MA4	356.8	3372	15000	-	-	157	71
0.75 HP (0.55 kW)	3.8	1.15	7700	870	BS40Z-../D08MA4	446.8	3372	15000	-	-	157	71
0.75 HP (0.55 kW)	3.3	1.1	8851	1000	BS40Z-../D08MA4	520.8	3372	15000	-	-	157	71
0.75 HP (0.55 kW)	2.8	0.8	10090	1140	BS40Z-../D08MA4	612.1	3372	15000	-	-	157	71

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BS-series worm-geared motors

Selection - worm-geared motors

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1 HP (0.75 kW)	380	2.4	146	16.5	BS03-../DPE08XB4	4.60	241	1070	-	-	29	13
1 HP (0.75 kW)	290	2.0	190	21.5	BS03-../DPE08XB4	6.00	263	1170	-	-	29	13
1 HP (0.75 kW)	265	2.6	190	21.5	BS06-../DPE08XB4	6.67	348	1550	-	-	42	19
1 HP (0.75 kW)	220	1.75	243	27.5	BS03-../DPE08XB4	8.00	297	1320	-	-	29	13
1 HP (0.75 kW)	195	2.1	261	29.5	BS06-../DPE08XB4	8.93	384	1710	-	-	42	19
1 HP (0.75 kW)	174	1.5	305	34.5	BS03-../DPE08XB4	10.00	326	1450	-	-	29	13
1 HP (0.75 kW)	162	1.85	314	35.5	BS06-../DPE08XB4	10.73	416	1850	-	-	42	19
1 HP (0.75 kW)	139	2.6	363	41	BS10-../DPE08XB4	12.49	540	2400	-	-	66	30
1 HP (0.75 kW)	129	1.3	381	43	BS03-../DPE08XB4	13.50	360	1600	-	-	29	13
1 HP (0.75 kW)	124	1.45	412	46.5	BS06-../DPE08XB4	14.07	495	2200	-	-	42	19
1 HP (0.75 kW)	105	1.35	478	54	BS06-../DPE08XB4	16.56	540	2400	-	-	42	19
1 HP (0.75 kW)	103	2.2	487	55	BS10-../DPE08XB4	16.92	607	2700	-	-	66	30
1 HP (0.75 kW)	92	0.93	522	59	BS03-../DPE08XB4	19.00	438	1950	-	-	29	13
1 HP (0.75 kW)	88	1.15	575	65	BS06-../DPE08XB4	19.82	562	2500	-	-	42	19
1 HP (0.75 kW)	81	1.8	620	70	BS10-../DPE08XB4	21.61	674	3000	-	-	66	30
1 HP (0.75 kW)	79	3.2	646	73	BS20-../DPE08XB4	22.23	922	4100	-	-	88	40
1 HP (0.75 kW)	77	1.85	566	64	BS10-../DPE08XB4	22.60	719	3200	-	-	66	30
1 HP (0.75 kW)	72	0.97	699	79	BS06-../DPE08XB4	24.25	585	2600	-	-	42	19
1 HP (0.75 kW)	67	0.99	690	78	BS06-../DPE08XB4	26.21	674	3000	-	-	42	19
1 HP (0.75 kW)	66	1.55	743	84	BS10-../DPE08XB4	26.42	731	3250	-	-	66	30
1 HP (0.75 kW)	63	2.8	779	88	BS20-../DPE08XB4	27.86	1000	4450	-	-	88	40
1 HP (0.75 kW)	57	1.5	761	86	BS10-../DPE08XB4	30.63	798	3550	-	-	66	30
1 HP (0.75 kW)	57	2.8	797	90	BS20-../DPE08XB4	30.63	1068	4750	-	-	88	40
1 HP (0.75 kW)	56	0.86	823	93	BS06-../DPE08XB4	31.50	719	3200	-	-	42	19
1 HP (0.75 kW)	53	2.6	920	104	BS20-../DPE08XB4	32.87	1068	4750	-	-	88	40
1 HP (0.75 kW)	52	1.3	920	104	BS10-../DPE08XB4	33.55	798	3550	-	-	66	30
1 HP (0.75 kW)	44.5	3.3	1151	130	BS30-../DPE08XB4	39.31	1236	5500	-	-	128	58
1 HP (0.75 kW)	43.5	1.15	1089	123	BS10-../DPE08XB4	39.96	854	3800	-	-	66	30
1 HP (0.75 kW)	43.5	2.2	1044	118	BS20-../DPE08XB4	40.25	1191	5300	-	-	88	40
1 HP (0.75 kW)	41.5	2.1	1159	131	BS20-../DPE08XB4	42.08	1169	5200	-	-	88	40
1 HP (0.75 kW)	36.5	0.99	1301	147	BS10-../DPE08XB4	47.59	910	4050	-	-	66	30
1 HP (0.75 kW)	35.5	1.8	1336	151	BS20-../DPE08XB4	48.98	1236	5500	-	-	88	40
1 HP (0.75 kW)	35	2.9	1390	157	BS30-../DPE08XB4	50.04	1326	5900	-	-	128	58
1 HP (0.75 kW)	34.5	1.95	1230	139	BS20-../DPE08XB4	50.44	1281	5700	-	-	88	40
1 HP (0.75 kW)	30.5	0.87	1531	173	BS10-../DPE08XB4	57.12	978	4350	-	-	66	30
1 HP (0.75 kW)	30	1.55	1584	179	BS20-../DPE08XB4	58.74	1326	5900	-	-	88	40
1 HP (0.75 kW)	30	2.5	1620	183	BS30-../DPE08XB4	58.64	1551	6900	-	-	128	58
1 HP (0.75 kW)	29	0.91	1460	165	BS10-../DPE08XB4	60.74	1023	4550	-	-	66	30
1 HP (0.75 kW)	25	1.45	1859	210	BS20-../DPE08XB4	70.30	1416	6300	-	-	88	40
1 HP (0.75 kW)	24.5	2.4	1770	200	BS30-../DPE08XB4	71.17	1574	7000	-	-	128	58
1 HP (0.75 kW)	23	1.3	1814	205	BS20-../DPE08XB4	76.18	1484	6600	-	-	88	40
1 HP (0.75 kW)	21	1.55	2301	260	BS30-../DPE08XB4	83.48	1529	6800	-	-	128	58
1 HP (0.75 kW)	20	1.15	2080	235	BS20-../DPE08XB4	88.67	1574	7000	-	-	88	40
1 HP (0.75 kW)	19.5	1.95	2213	250	BS30-../DPE08XB4	90.59	1731	7700	-	-	128	58
1 HP (0.75 kW)	17.5	0.83	2655	300	BS20-../DPE08XB4	101.1	1596	7100	-	-	88	40
1 HP (0.75 kW)	16.5	0.95	2522	285	BS20-../DPE08XB4	106.3	1709	7600	-	-	88	40
1 HP (0.75 kW)	16.5	1.75	2611	295	BS30-../DPE08XB4	106.2	1843	8200	-	-	128	58
1 HP (0.75 kW)	16.5	3.3	2567	290	BS40-../DPE08XB4	108.1	3147	14000	-	-	157	71
1 HP (0.75 kW)	14	0.81	2965	335	BS20-../DPE08XB4	127.3	1798	8000	-	-	88	40
1 HP (0.75 kW)	14	1.5	3054	345	BS30-../DPE08XB4	125.2	1956	8700	-	-	128	58
1 HP (0.75 kW)	14	2.9	3009	340	BS40-../DPE08XB4	126.0	3350	14900	-	-	157	71
1 HP (0.75 kW)	12	2.5	3408	385	BS40-../DPE08XB4	148.1	3372	15000	-	-	157	71
1 HP (0.75 kW)	11.5	1.3	3673	415	BS30-../DPE08XB4	151.1	2136	9500	-	-	128	58
1 HP (0.75 kW)	9.8	1.7	4204	475	BS40-../DPE08XB4	178.2	3372	15000	-	-	157	71
1 HP (0.75 kW)	9.3	1.1	4425	500	BS30-../DPE08XB4	186.7	2248	10000	-	-	128	58
1 HP (0.75 kW)	8.1	0.9	5133	580	BS30-../DPE08XB4	216.4	2248	10000	-	-	128	58
1 HP (0.75 kW)	7.9	1.4	5045	570	BS40-../DPE08XB4	219.7	3372	15000	-	-	157	71
1 HP (0.75 kW)	7.0	1.4	5664	640	BS40Z-../DPE08XB4	249.6	3372	15000	-	-	163	74

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

1 HP (0.75 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1 HP (0.75 kW)	6.7	0.8	6196	700	BS30Z-../DPE08XB4	261.6	2248	10000	-	-	132	60
1 HP (0.75 kW)	6.1	0.83	7612	860	BS40Z-../DPE08XB4	287.7	3372	15000	-	-	163	74
1 HP (0.75 kW)	5.8	1.4	6815	770	BS40Z-../DPE08XB4	302.1	3372	15000	-	-	163	74
1 HP (0.75 kW)	4.9	1.15	8143	920	BS40Z-../DPE08XB4	356.8	3372	15000	-	-	163	74
1 HP (0.75 kW)	3.9	0.86	10178	1150	BS40Z-../DPE08XB4	446.8	3372	15000	-	-	163	74
1 HP (0.75 kW)	3.4	0.83	11683	1320	BS40Z-../DPE08XB4	520.8	3372	15000	-	-	163	74

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1.5 HP (1.1 kW)	141	1.85	522	59	BS10-../DPE09XB4	12.49	540	2400	-	-	88	40
1.5 HP (1.1 kW)	138	3.3	540	61	BS20-../DPE09XB4	12.77	753	3350	-	-	110	50
1.5 HP (1.1 kW)	104	1.5	708	80	BS10-../DPE09XB4	16.92	607	2700	-	-	88	40
1.5 HP (1.1 kW)	104	2.7	717	81	BS20-../DPE09XB4	16.92	832	3700	-	-	110	50
1.5 HP (1.1 kW)	82	1.25	903	102	BS10-../DPE09XB4	21.61	674	3000	-	-	88	40
1.5 HP (1.1 kW)	79	2.1	947	107	BS20-../DPE09XB4	22.23	922	4100	-	-	110	50
1.5 HP (1.1 kW)	78	1.25	814	92	BS10-../DPE09XB4	22.60	719	3200	-	-	88	40
1.5 HP (1.1 kW)	76	2.3	876	99	BS20-../DPE09XB4	23.13	967	4300	-	-	110	50
1.5 HP (1.1 kW)	67	1.05	1080	122	BS10-../DPE09XB4	26.42	731	3250	-	-	88	40
1.5 HP (1.1 kW)	65	3.0	1186	134	BS30-../DPE09XB4	27.07	1068	4750	-	-	150	68
1.5 HP (1.1 kW)	63	1.9	1151	130	BS20-../DPE09XB4	27.86	1000	4450	-	-	110	50
1.5 HP (1.1 kW)	58	1.05	1097	124	BS10-../DPE09XB4	30.63	798	3550	-	-	88	40
1.5 HP (1.1 kW)	58	1.9	1151	130	BS20-../DPE09XB4	30.63	1068	4750	-	-	110	50
1.5 HP (1.1 kW)	58	3.0	1195	135	BS30-../DPE09XB4	30.63	1124	5000	-	-	150	68
1.5 HP (1.1 kW)	54	1.8	1319	149	BS20-../DPE09XB4	32.87	1068	4750	-	-	110	50
1.5 HP (1.1 kW)	53	0.9	1328	150	BS10-../DPE09XB4	33.55	798	3550	-	-	88	40
1.5 HP (1.1 kW)	53	2.6	1434	162	BS30-../DPE09XB4	33.55	1169	5200	-	-	150	68
1.5 HP (1.1 kW)	46.5	2.5	1496	169	BS30-../DPE09XB4	37.92	1236	5500	-	-	150	68
1.5 HP (1.1 kW)	45	2.3	1673	189	BS30-../DPE09XB4	39.31	1236	5500	-	-	150	68
1.5 HP (1.1 kW)	44	1.5	1513	171	BS20-../DPE09XB4	40.25	1191	5300	-	-	110	50
1.5 HP (1.1 kW)	42	1.4	1682	190	BS20-../DPE09XB4	42.08	1169	5200	-	-	110	50
1.5 HP (1.1 kW)	36	1.25	1903	215	BS20-../DPE09XB4	48.98	1236	5500	-	-	110	50
1.5 HP (1.1 kW)	35.5	2.0	1991	225	BS30-../DPE09XB4	50.04	1326	5900	-	-	150	68
1.5 HP (1.1 kW)	35	1.35	1770	200	BS20-../DPE09XB4	50.44	1281	5700	-	-	110	50
1.5 HP (1.1 kW)	30	1.1	2301	260	BS20-../DPE09XB4	58.74	1326	5900	-	-	110	50
1.5 HP (1.1 kW)	30	1.75	2345	265	BS30-../DPE09XB4	58.64	1551	6900	-	-	150	68
1.5 HP (1.1 kW)	25.5	2.4	2788	315	BS40-../DPE09XB4	69.60	2653	11800	-	-	179	81
1.5 HP (1.1 kW)	25	0.95	2788	315	BS20-../DPE09XB4	70.30	1416	6300	-	-	110	50
1.5 HP (1.1 kW)	25	1.65	2567	290	BS30-../DPE09XB4	71.17	1574	7000	-	-	150	68
1.5 HP (1.1 kW)	24.5	2.9	2655	300	BS40-../DPE09XB4	73.09	2720	12100	-	-	179	81
1.5 HP (1.1 kW)	23.5	0.92	2611	295	BS20-../DPE09XB4	76.18	1484	6600	-	-	110	50
1.5 HP (1.1 kW)	21.5	1.1	3319	375	BS30-../DPE09XB4	83.48	1529	6800	-	-	150	68
1.5 HP (1.1 kW)	20.5	2.6	3098	350	BS40-../DPE09XB4	86.33	2900	12900	-	-	179	81
1.5 HP (1.1 kW)	19.5	1.3	3275	370	BS30-../DPE09XB4	90.59	1731	7700	-	-	150	68
1.5 HP (1.1 kW)	17	1.2	3717	420	BS30-../DPE09XB4	106.2	1843	8200	-	-	150	68
1.5 HP (1.1 kW)	16.5	2.2	3762	425	BS40-../DPE09XB4	108.1	3147	14000	-	-	179	81
1.5 HP (1.1 kW)	14.5	1.05	4337	490	BS30-../DPE09XB4	125.2	1956	8700	-	-	150	68
1.5 HP (1.1 kW)	14	1.95	4425	500	BS40-../DPE09XB4	126.0	3350	14900	-	-	179	81
1.5 HP (1.1 kW)	12	0.93	5133	580	BS30-../DPE09XB4	151.1	2136	9500	-	-	150	68
1.5 HP (1.1 kW)	12	1.75	4956	560	BS40-../DPE09XB4	148.1	3372	15000	-	-	179	81
1.5 HP (1.1 kW)	9.9	1.2	6019	680	BS40-../DPE09XB4	178.2	3372	15000	-	-	179	81

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

BS-series worm-geared motors

Selection - worm-geared motors

1.5 HP (1.1 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
1.5 HP (1.1 kW)	8.0	0.97	7258	820	BS40-../DPE09XB4	219.7	3372	15000	-	-	179	81
1.5 HP (1.1 kW)	7.1	0.97	8231	930	BS40Z-../DPE09XB4	249.6	3372	15000	-	-	185	84
1.5 HP (1.1 kW)	5.9	0.96	9913	1120	BS40Z-../DPE09XB4	302.1	3372	15000	-	-	185	84
1.5 HP (1.1 kW)	5.0	0.82	11683	1320	BS40Z-../DPE09XB4	356.8	3372	15000	-	-	185	84

2 HP (1.5 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
2 HP (1.5 kW)	140	1.35	717	81	BS10-../DPE09XB4	12.49	540	2400	-	-	88	40
2 HP (1.5 kW)	137	2.4	743	84	BS20-../DPE09XB4	12.77	753	3350	-	-	110	50
2 HP (1.5 kW)	104	1.1	974	110	BS10-../DPE09XB4	16.92	607	2700	-	-	88	40
2 HP (1.5 kW)	104	2.0	982	111	BS20-../DPE09XB4	16.92	832	3700	-	-	110	50
2 HP (1.5 kW)	104	3.2	1009	114	BS30-../DPE09XB4	16.92	888	3950	-	-	150	68
2 HP (1.5 kW)	84	2.7	1248	141	BS30-../DPE09XB4	20.94	967	4300	-	-	150	68
2 HP (1.5 kW)	81	0.89	1248	141	BS10-../DPE09XB4	21.61	674	3000	-	-	88	40
2 HP (1.5 kW)	79	1.6	1292	146	BS20-../DPE09XB4	22.23	922	4100	-	-	110	50
2 HP (1.5 kW)	78	0.93	1115	126	BS10-../DPE09XB4	22.60	719	3200	-	-	88	40
2 HP (1.5 kW)	76	1.7	1195	135	BS20-../DPE09XB4	23.13	967	4300	-	-	110	50
2 HP (1.5 kW)	73	2.5	1301	147	BS30-../DPE09XB4	24.06	1034	4600	-	-	150	68
2 HP (1.5 kW)	65	2.2	1611	182	BS30-../DPE09XB4	27.07	1068	4750	-	-	150	68
2 HP (1.5 kW)	63	1.4	1567	177	BS20-../DPE09XB4	27.86	1000	4450	-	-	110	50
2 HP (1.5 kW)	57	1.4	1593	180	BS20-../DPE09XB4	30.63	1068	4750	-	-	110	50
2 HP (1.5 kW)	57	2.1	1664	188	BS30-../DPE09XB4	30.63	1124	5000	-	-	150	68
2 HP (1.5 kW)	54	1.35	1770	200	BS20-../DPE09XB4	32.87	1068	4750	-	-	110	50
2 HP (1.5 kW)	53	1.9	1947	220	BS30-../DPE09XB4	33.55	1169	5200	-	-	150	68
2 HP (1.5 kW)	46.5	1.85	2036	230	BS30-../DPE09XB4	37.92	1236	5500	-	-	150	68
2 HP (1.5 kW)	44.5	1.65	2301	260	BS30-../DPE09XB4	39.31	1236	5500	-	-	150	68
2 HP (1.5 kW)	43.5	1.1	2080	235	BS20-../DPE09XB4	40.25	1191	5300	-	-	110	50
2 HP (1.5 kW)	43.5	3.1	2301	260	BS40-../DPE09XB4	40.37	2023	9000	-	-	179	81
2 HP (1.5 kW)	41.5	1.05	2301	260	BS20-../DPE09XB4	42.08	1169	5200	-	-	110	50
2 HP (1.5 kW)	37	2.8	2655	300	BS40-../DPE09XB4	47.69	2158	9600	-	-	179	81
2 HP (1.5 kW)	36	0.92	2611	295	BS20-../DPE09XB4	48.98	1236	5500	-	-	110	50
2 HP (1.5 kW)	35	1.0	2390	270	BS20-../DPE09XB4	50.44	1281	5700	-	-	110	50
2 HP (1.5 kW)	35	1.45	2788	315	BS30-../DPE09XB4	50.04	1326	5900	-	-	150	68
2 HP (1.5 kW)	30	1.25	3231	365	BS30-../DPE09XB4	58.64	1551	6900	-	-	150	68
2 HP (1.5 kW)	29	2.5	3098	350	BS40-../DPE09XB4	60.38	2518	11200	-	-	179	81
2 HP (1.5 kW)	25.5	1.75	3806	430	BS40-../DPE09XB4	69.60	2653	11800	-	-	179	81
2 HP (1.5 kW)	25	1.2	3540	400	BS30-../DPE09XB4	71.17	1574	7000	-	-	150	68
2 HP (1.5 kW)	24	2.1	3673	415	BS40-../DPE09XB4	73.09	2720	12100	-	-	179	81
2 HP (1.5 kW)	20.5	1.9	4248	480	BS40-../DPE09XB4	86.33	2900	12900	-	-	179	81
2 HP (1.5 kW)	19.5	0.98	4425	500	BS30-../DPE09XB4	90.59	1731	7700	-	-	150	68
2 HP (1.5 kW)	16.5	0.86	5222	590	BS30-../DPE09XB4	106.2	1843	8200	-	-	150	68
2 HP (1.5 kW)	16.5	1.65	5133	580	BS40-../DPE09XB4	108.1	3147	14000	-	-	179	81
2 HP (1.5 kW)	14	1.45	6019	680	BS40-../DPE09XB4	126.0	3350	14900	-	-	179	81
2 HP (1.5 kW)	12	1.25	6815	770	BS40-../DPE09XB4	148.1	3372	15000	-	-	179	81
2 HP (1.5 kW)	9.8	0.86	8408	950	BS40-../DPE09XB4	178.2	3372	15000	-	-	179	81

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

2.4 HP (1.8 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
2.4 HP (1.8 kW)	141	1.1	859	97	BS10-../DPE09XB4C	12.49	540	2400	-	-	95	43
2.4 HP (1.8 kW)	138	2.0	885	100	BS20-../DPE09XB4C	12.77	753	3350	-	-	117	53
2.4 HP (1.8 kW)	133	3.1	947	107	BS30-../DPE09XB4C	13.29	809	3600	-	-	157	71
2.4 HP (1.8 kW)	105	0.92	1151	130	BS10-../DPE09XB4C	16.92	607	2700	-	-	95	43
2.4 HP (1.8 kW)	105	1.65	1168	132	BS20-../DPE09XB4C	16.92	832	3700	-	-	117	53
2.4 HP (1.8 kW)	105	2.7	1195	135	BS30-../DPE09XB4C	16.92	888	3950	-	-	157	71
2.4 HP (1.8 kW)	85	2.3	1478	167	BS30-../DPE09XB4C	20.94	967	4300	-	-	157	71
2.4 HP (1.8 kW)	80	1.3	1540	174	BS20-../DPE09XB4C	22.23	922	4100	-	-	117	53
2.4 HP (1.8 kW)	77	1.45	1416	160	BS20-../DPE09XB4C	23.13	967	4300	-	-	117	53
2.4 HP (1.8 kW)	74	2.1	1540	174	BS30-../DPE09XB4C	24.06	1034	4600	-	-	157	71
2.4 HP (1.8 kW)	66	1.85	1903	215	BS30-../DPE09XB4C	27.07	1068	4750	-	-	157	71
2.4 HP (1.8 kW)	64	1.2	1814	205	BS20-../DPE09XB4C	27.86	1000	4450	-	-	117	53
2.4 HP (1.8 kW)	58	1.2	1859	210	BS20-../DPE09XB4C	30.63	1068	4750	-	-	117	53
2.4 HP (1.8 kW)	58	1.8	1947	220	BS30-../DPE09XB4C	30.63	1124	5000	-	-	157	71
2.4 HP (1.8 kW)	54	1.1	2168	245	BS20-../DPE09XB4C	32.87	1068	4750	-	-	117	53
2.4 HP (1.8 kW)	53	1.6	2345	265	BS30-../DPE09XB4C	33.55	1169	5200	-	-	157	71
2.4 HP (1.8 kW)	53	3.1	2257	255	BS40-../DPE09XB4C	33.35	1866	8300	-	-	185	84
2.4 HP (1.8 kW)	46.5	1.55	2434	275	BS30-../DPE09XB4C	37.92	1236	5500	-	-	157	71
2.4 HP (1.8 kW)	46.5	2.9	2345	265	BS40-../DPE09XB4C	38.13	2113	9400	-	-	185	84
2.4 HP (1.8 kW)	45	1.4	2699	305	BS30-../DPE09XB4C	39.31	1236	5500	-	-	157	71
2.4 HP (1.8 kW)	44	0.93	2478	280	BS20-../DPE09XB4C	40.25	1191	5300	-	-	117	53
2.4 HP (1.8 kW)	44	2.6	2699	305	BS40-../DPE09XB4C	40.37	2023	9000	-	-	185	84
2.4 HP (1.8 kW)	42	0.87	2744	310	BS20-../DPE09XB4C	42.08	1169	5200	-	-	117	53
2.4 HP (1.8 kW)	37	2.3	3186	360	BS40-../DPE09XB4C	47.69	2158	9600	-	-	185	84
2.4 HP (1.8 kW)	35.5	1.2	3275	370	BS30-../DPE09XB4C	50.04	1326	5900	-	-	157	71
2.4 HP (1.8 kW)	35	0.83	2876	325	BS20-../DPE09XB4C	50.44	1281	5700	-	-	117	53
2.4 HP (1.8 kW)	30.5	1.05	3806	430	BS30-../DPE09XB4C	58.64	1551	6900	-	-	157	71
2.4 HP (1.8 kW)	29.5	2.1	3629	410	BS40-../DPE09XB4C	60.38	2518	11200	-	-	185	84
2.4 HP (1.8 kW)	25.5	1.45	4514	510	BS40-../DPE09XB4C	69.60	2653	11800	-	-	185	84
2.4 HP (1.8 kW)	25	1.0	4248	480	BS30-../DPE09XB4C	71.17	1574	7000	-	-	157	71
2.4 HP (1.8 kW)	24.5	1.8	4337	490	BS40-../DPE09XB4C	73.09	2720	12100	-	-	185	84
2.4 HP (1.8 kW)	20.5	1.6	5045	570	BS40-../DPE09XB4C	86.33	2900	12900	-	-	185	84
2.4 HP (1.8 kW)	19.5	0.82	5310	600	BS30-../DPE09XB4C	90.59	1731	7700	-	-	157	71
2.4 HP (1.8 kW)	16.5	1.4	6107	690	BS40-../DPE09XB4C	108.1	3147	14000	-	-	185	84
2.4 HP (1.8 kW)	14	1.2	7258	820	BS40-../DPE09XB4C	126.0	3350	14900	-	-	185	84
2.4 HP (1.8 kW)	12	1.05	8231	930	BS40-../DPE09XB4C	148.1	3372	15000	-	-	185	84

3 HP (2.2 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
3 HP (2.2 kW)	133	2.5	1159	131	BS30-../DPE11LB4	13.29	809	3600	-	-	196	89
3 HP (2.2 kW)	105	2.2	1469	166	BS30-../DPE11LB4	16.92	888	3950	-	-	196	89
3 HP (2.2 kW)	85	1.85	1814	205	BS30-../DPE11LB4	20.94	967	4300	-	-	196	89
3 HP (2.2 kW)	74	1.75	1859	210	BS30-../DPE11LB4	24.06	1034	4600	-	-	196	89
3 HP (2.2 kW)	68	3.0	2213	250	BS40-../DPE11LB4	26.18	1686	7500	-	-	236	107
3 HP (2.2 kW)	66	1.55	2301	260	BS30-../DPE11LB4	27.07	1068	4750	-	-	196	89
3 HP (2.2 kW)	58	1.5	2390	270	BS30-../DPE11LB4	30.63	1124	5000	-	-	196	89
3 HP (2.2 kW)	58	2.8	2345	265	BS40-../DPE11LB4	30.63	1956	8700	-	-	236	107
3 HP (2.2 kW)	53	1.3	2876	325	BS30-../DPE11LB4	33.55	1169	5200	-	-	196	89
3 HP (2.2 kW)	53	2.5	2788	315	BS40-../DPE11LB4	33.35	1866	8300	-	-	236	107
3 HP (2.2 kW)	46.5	1.25	2965	335	BS30-../DPE11LB4	37.92	1236	5500	-	-	196	89

The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BS-series worm-geared motors

Selection - worm-geared motors

3 HP (2.2 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
3 HP (2.2 kW)	46.5	2.4	2876	325	BS40-../DPE11LB4	38.13	2113	9400	-	-	236	107
3 HP (2.2 kW)	45	1.15	3319	375	BS30-../DPE11LB4	39.31	1236	5500	-	-	196	89
3 HP (2.2 kW)	44	2.1	3319	375	BS40-../DPE11LB4	40.37	2023	9000	-	-	236	107
3 HP (2.2 kW)	37	1.9	3894	440	BS40-../DPE11LB4	47.69	2158	9600	-	-	236	107
3 HP (2.2 kW)	29.5	1.7	4425	500	BS40-../DPE11LB4	60.38	2518	11200	-	-	236	107
3 HP (2.2 kW)	25	0.83	5133	580	BS30-../DPE11LB4	71.17	1574	7000	-	-	196	89
3 HP (2.2 kW)	24.5	1.45	5310	600	BS40-../DPE11LB4	73.09	2720	12100	-	-	236	107
3 HP (2.2 kW)	20.5	1.3	6196	700	BS40-../DPE11LB4	86.33	2900	12900	-	-	236	107

4 HP (3 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
4 HP (3 kW)	133	1.85	1575	178	BS30-../DPE11LB4	13.29	809	3600	-	-	196	89
4 HP (3 kW)	105	1.6	1991	225	BS30-../DPE11LB4	16.92	888	3950	-	-	196	89
4 HP (3 kW)	105	2.9	2036	230	BS40-../DPE11LB4	16.92	1439	6400	-	-	236	107
4 HP (3 kW)	85	1.4	2434	275	BS30-../DPE11LB4	20.94	967	4300	-	-	196	89
4 HP (3 kW)	84	2.6	2434	275	BS40-../DPE11LB4	21.06	1551	6900	-	-	236	107
4 HP (3 kW)	75	2.5	2478	280	BS40-../DPE11LB4	23.59	1776	7900	-	-	236	107
4 HP (3 kW)	74	1.25	2567	290	BS30-../DPE11LB4	24.06	1034	4600	-	-	196	89
4 HP (3 kW)	68	2.1	3054	345	BS40-../DPE11LB4	26.18	1686	7500	-	-	236	107
4 HP (3 kW)	66	1.1	3186	360	BS30-../DPE11LB4	27.07	1068	4750	-	-	196	89
4 HP (3 kW)	58	1.1	3275	370	BS30-../DPE11LB4	30.63	1124	5000	-	-	196	89
4 HP (3 kW)	58	2.1	3231	365	BS40-../DPE11LB4	30.63	1956	8700	-	-	236	107
4 HP (3 kW)	53	0.95	3894	440	BS30-../DPE11LB4	33.55	1169	5200	-	-	196	89
4 HP (3 kW)	53	1.8	3806	430	BS40-../DPE11LB4	33.35	1866	8300	-	-	236	107
4 HP (3 kW)	46.5	0.91	4071	460	BS30-../DPE11LB4	37.92	1236	5500	-	-	196	89
4 HP (3 kW)	46.5	1.75	3939	445	BS40-../DPE11LB4	38.13	2113	9400	-	-	236	107
4 HP (3 kW)	45	0.84	4514	510	BS30-../DPE11LB4	39.31	1236	5500	-	-	196	89
4 HP (3 kW)	44	1.55	4514	510	BS40-../DPE11LB4	40.37	2023	9000	-	-	236	107
4 HP (3 kW)	37	1.4	5310	600	BS40-../DPE11LB4	47.69	2158	9600	-	-	236	107
4 HP (3 kW)	29.5	1.25	6019	680	BS40-../DPE11LB4	60.38	2518	11200	-	-	236	107
4 HP (3 kW)	24.5	1.1	7169	810	BS40-../DPE11LB4	73.09	2720	12100	-	-	236	107
4 HP (3 kW)	20.5	0.94	8497	960	BS40-../DPE11LB4	86.33	2900	12900	-	-	236	107

5 HP (3.7 kW)

P _N			Output Torque		Type	i	Permissible Overhung Load				Weight	
			lb·f-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
[kW]	RPM	SF					lb·f	N	lb·f	N		
5 HP (3.7 kW)	136	2.8	1947	220	BS40-../DPE11LB4	13.03	1304	5800	-	-	236	107
5 HP (3.7 kW)	133	1.5	1947	220	BS30-../DPE11LB4	13.29	809	3600	-	-	196	89
5 HP (3.7 kW)	105	1.3	2434	275	BS30-../DPE11LB4	16.92	888	3950	-	-	196	89
5 HP (3.7 kW)	105	2.4	2522	285	BS40-../DPE11LB4	16.92	1439	6400	-	-	236	107
5 HP (3.7 kW)	85	1.1	3054	345	BS30-../DPE11LB4	20.94	967	4300	-	-	196	89
5 HP (3.7 kW)	84	2.1	3009	340	BS40-../DPE11LB4	21.06	1551	6900	-	-	236	107
5 HP (3.7 kW)	75	2.0	3054	345	BS40-../DPE11LB4	23.59	1776	7900	-	-	236	107

The torques marked (*) are maximum permissible torques for service factor f_B=1.0.

5 HP (3.7 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
5 HP (3.7 kW)	74	1.05	3142	355	BS30-../DPE11LB4	24.06	1034	4600	-	-	196	89
5 HP (3.7 kW)	68	1.75	3762	425	BS40-../DPE11LB4	26.18	1686	7500	-	-	236	107
5 HP (3.7 kW)	66	0.91	3894	440	BS30-../DPE11LB4	27.07	1068	4750	-	-	196	89
5 HP (3.7 kW)	58	0.88	4027	455	BS30-../DPE11LB4	30.63	1124	5000	-	-	196	89
5 HP (3.7 kW)	58	1.65	3983	450	BS40-../DPE11LB4	30.63	1956	8700	-	-	236	107
5 HP (3.7 kW)	53	1.45	4691	530	BS40-../DPE11LB4	33.35	1866	8300	-	-	236	107
5 HP (3.7 kW)	46.5	1.4	4868	550	BS40-../DPE11LB4	38.13	2113	9400	-	-	236	107
5 HP (3.7 kW)	44	1.25	5576	630	BS40-../DPE11LB4	40.37	2023	9000	-	-	236	107
5 HP (3.7 kW)	37	1.1	6550	740	BS40-../DPE11LB4	47.69	2158	9600	-	-	236	107
5 HP (3.7 kW)	29.5	1.0	7523	850	BS40-../DPE11LB4	60.38	2518	11200	-	-	236	107
5 HP (3.7 kW)	24.5	0.88	8851	1000	BS40-../DPE11LB4	73.09	2720	12100	-	-	236	107

5.5 HP (4.0 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
5.5 HP (4.0 kW)	136	2.6	2080	235	BS40-../DPE11LB4	13.03	1304	5800	-	-	236	107
5.5 HP (4.0 kW)	133	1.4	2080	235	BS30-../DPE11LB4	13.29	809	3600	-	-	196	89
5.5 HP (4.0 kW)	105	1.2	2655	300	BS30-../DPE11LB4	16.92	888	3950	-	-	196	89
5.5 HP (4.0 kW)	105	2.2	2699	305	BS40-../DPE11LB4	16.92	1439	6400	-	-	236	107
5.5 HP (4.0 kW)	85	1.05	3275	370	BS30-../DPE11LB4	20.94	967	4300	-	-	196	89
5.5 HP (4.0 kW)	84	1.9	3275	370	BS40-../DPE11LB4	21.06	1551	6900	-	-	236	107
5.5 HP (4.0 kW)	75	1.85	3319	375	BS40-../DPE11LB4	23.59	1776	7900	-	-	236	107
5.5 HP (4.0 kW)	74	0.96	3408	385	BS30-../DPE11LB4	24.06	1034	4600	-	-	196	89
5.5 HP (4.0 kW)	68	1.6	4071	460	BS40-../DPE11LB4	26.18	1686	7500	-	-	236	107
5.5 HP (4.0 kW)	66	0.83	4248	480	BS30-../DPE11LB4	27.07	1068	4750	-	-	196	89
5.5 HP (4.0 kW)	58	0.82	4337	490	BS30-../DPE11LB4	30.63	1124	5000	-	-	196	89
5.5 HP (4.0 kW)	58	1.55	4293	485	BS40-../DPE11LB4	30.63	1956	8700	-	-	236	107
5.5 HP (4.0 kW)	53	1.35	5045	570	BS40-../DPE11LB4	33.35	1866	8300	-	-	236	107
5.5 HP (4.0 kW)	46.5	1.3	5222	590	BS40-../DPE11LB4	38.13	2113	9400	-	-	236	107
5.5 HP (4.0 kW)	44	1.2	6019	680	BS40-../DPE11LB4	40.37	2023	9000	-	-	236	107
5.5 HP (4.0 kW)	37	1.05	7081	800	BS40-../DPE11LB4	47.69	2158	9600	-	-	236	107
5.5 HP (4.0 kW)	29.5	0.95	8054	910	BS40-../DPE11LB4	60.38	2518	11200	-	-	236	107
5.5 HP (4.0 kW)	24.5	0.81	9647	1090	BS40-../DPE11LB4	73.09	2720	12100	-	-	236	107

6 HP (4.5 kW)

P _N			Output Torque				Permissible Overhung Load				Weight	
							Standard Bearings		Reinforced Bearings			
[kW]	RPM	SF	lbf-in	Nm	Type	i	lb.f	N	lb.f	N	lb	kg
6 HP (4.5 kW)	135	2.3	2390	270	BS40-../DPE11LB4	13.03	1304	5800	-	-	236	107
6 HP (4.5 kW)	132	1.25	2390	270	BS30-../DPE11LB4	13.29	809	3600	-	-	196	89
6 HP (4.5 kW)	104	1.05	3009	340	BS30-../DPE11LB4	16.92	888	3950	-	-	196	89
6 HP (4.5 kW)	104	1.9	3098	350	BS40-../DPE11LB4	16.92	1439	6400	-	-	236	107
6 HP (4.5 kW)	84	0.9	3717	420	BS30-../DPE11LB4	20.94	967	4300	-	-	196	89
6 HP (4.5 kW)	84	1.7	3673	415	BS40-../DPE11LB4	21.06	1551	6900	-	-	236	107

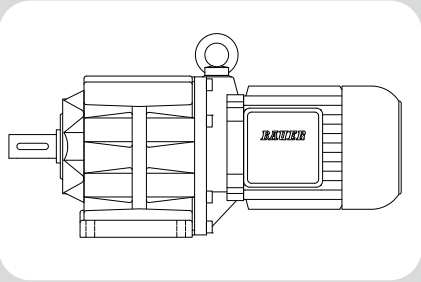
The torques marked (*) are maximum permissible torques for service factor $f_B=1.0$.

BS-series worm-geared motors

Selection - worm-geared motors

6 HP (4.5 kW)

P _N [kW]	RPM	SF	Output Torque		Type	i	Permissible Overhung Load				Weight	
			lbf-in	Nm			Standard Bearings		Reinforced Bearings		lb	kg
6 HP (4.5 kW)	75	1.65	3717	420	BS40-../DPE11LB4	23.59	1776	7900	-	-	236	107
6 HP (4.5 kW)	73	0.84	3894	440	BS30-../DPE11LB4	24.06	1034	4600	-	-	196	89
6 HP (4.5 kW)	67	1.4	4602	520	BS40-../DPE11LB4	26.18	1686	7500	-	-	236	107
6 HP (4.5 kW)	58	1.4	4779	540	BS40-../DPE11LB4	30.63	1956	8700	-	-	236	107
6 HP (4.5 kW)	53	1.2	5664	640	BS40-../DPE11LB4	33.35	1866	8300	-	-	236	107
6 HP (4.5 kW)	46	1.15	6019	680	BS40-../DPE11LB4	38.13	2113	9400	-	-	236	107
6 HP (4.5 kW)	43.5	1.05	6904	780	BS40-../DPE11LB4	40.37	2023	9000	-	-	236	107
6 HP (4.5 kW)	37	0.92	7966	900	BS40-../DPE11LB4	47.69	2158	9600	-	-	236	107
6 HP (4.5 kW)	29	0.82	9293	1050	BS40-../DPE11LB4	60.38	2518	11200	-	-	236	107



10

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Energy Efficient Geared Motors

AC Line Operated / North America

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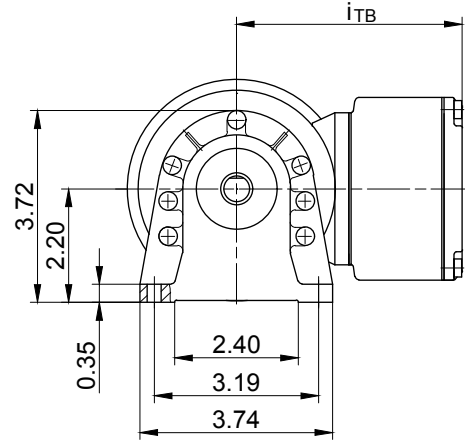
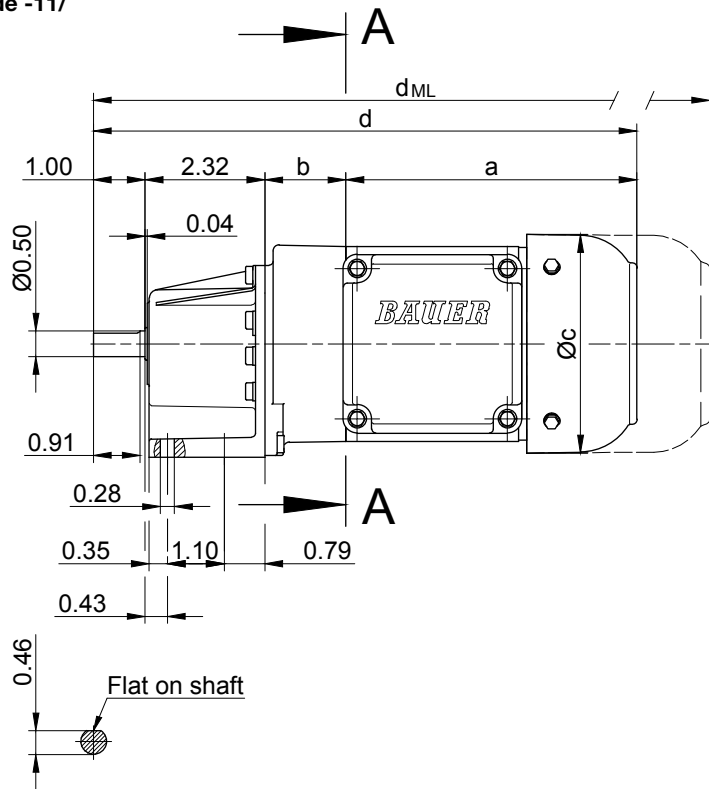
BG-series helical-geared motors

Dimension-Standard Imperial

BG04

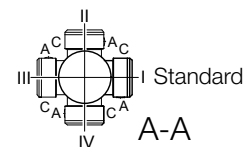
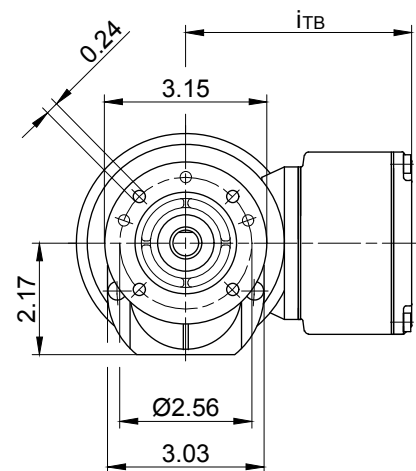
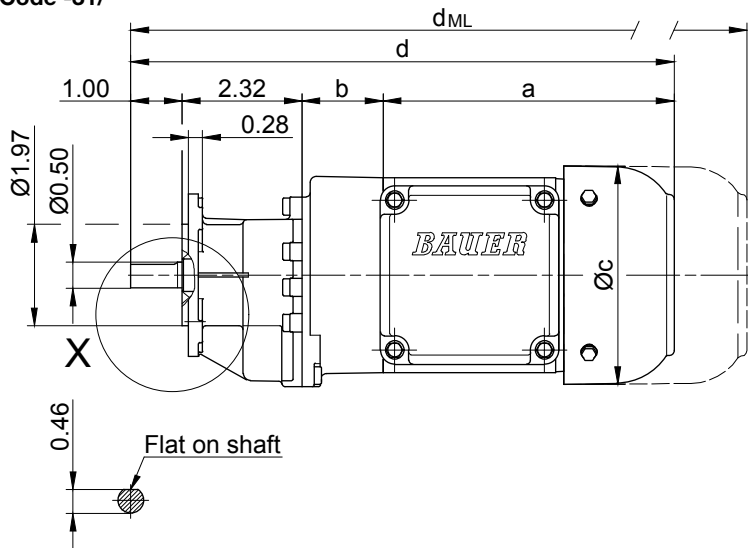
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BG04-.../D04.A.	5.61	1.57	4.35	10.51	3.54	4.41	d _{ML} 12.22	d _{ML} 13.95	d _{ML} 15.66	-

Dimensions in inch

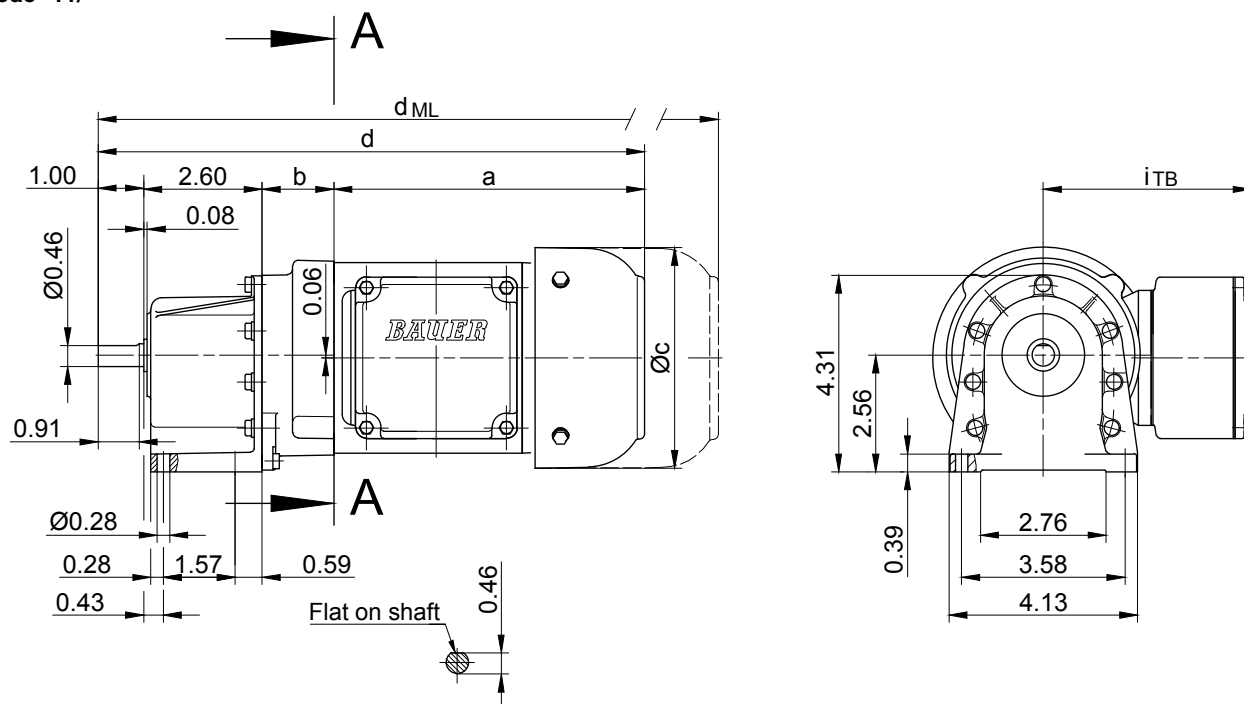
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension-Standard Imperial

BG05

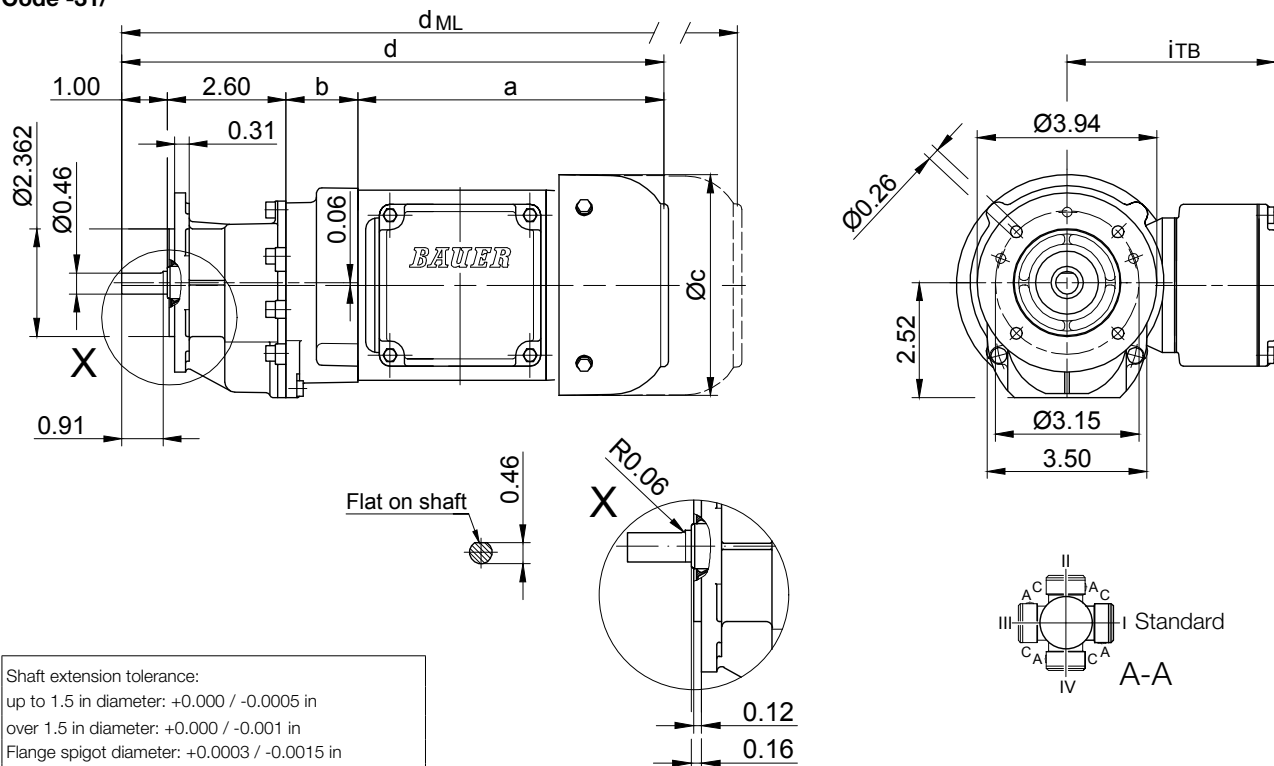
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

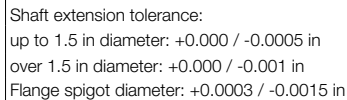
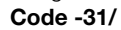
Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG05-.../D04.A.	5.61	1.50	4.35	10.70	3.54	4.41	12.42	14.15	15.86	-
BG05-.../D...05.A.	6.72	1.57	4.84	11.89	3.98	4.61	13.54	15.93	17.40	-
BG05-.../D...06.A.	6.70	1.57	4.84	11.88	3.90	4.69	13.53	15.91	17.39	-
BG05-.../D...07.A.	7.49	1.57	4.84	12.67	3.90	4.69	14.32	16.70	18.18	-

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension-Standard Imperial

Code -11/



Dimensions in inch

265

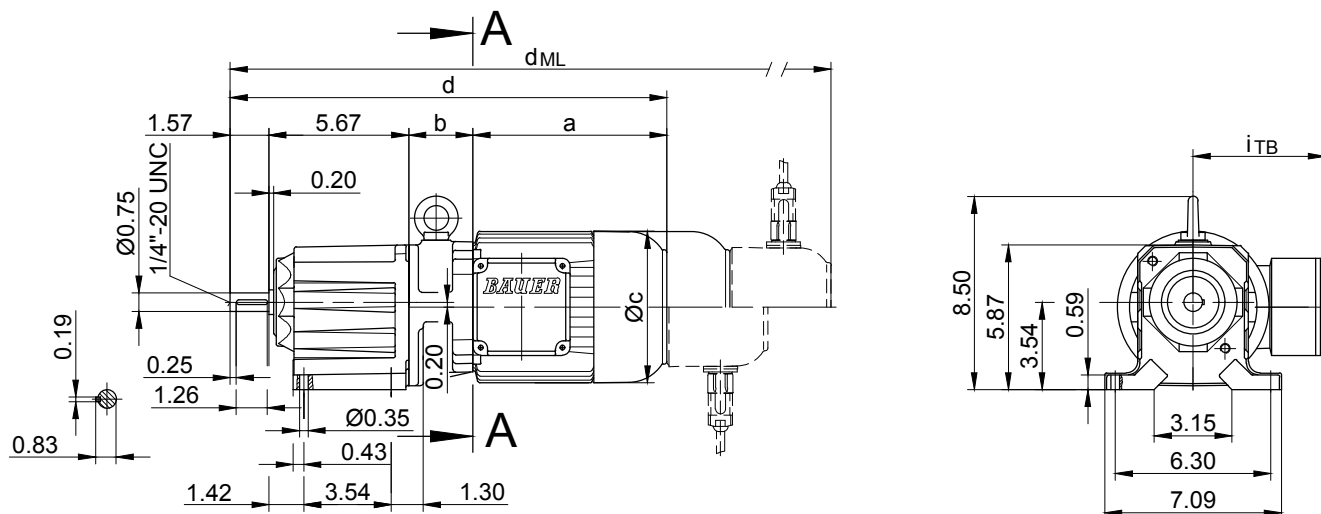
BG-series helical-geared motors

Dimension-Standard Imperial

BG10 - BG10Z

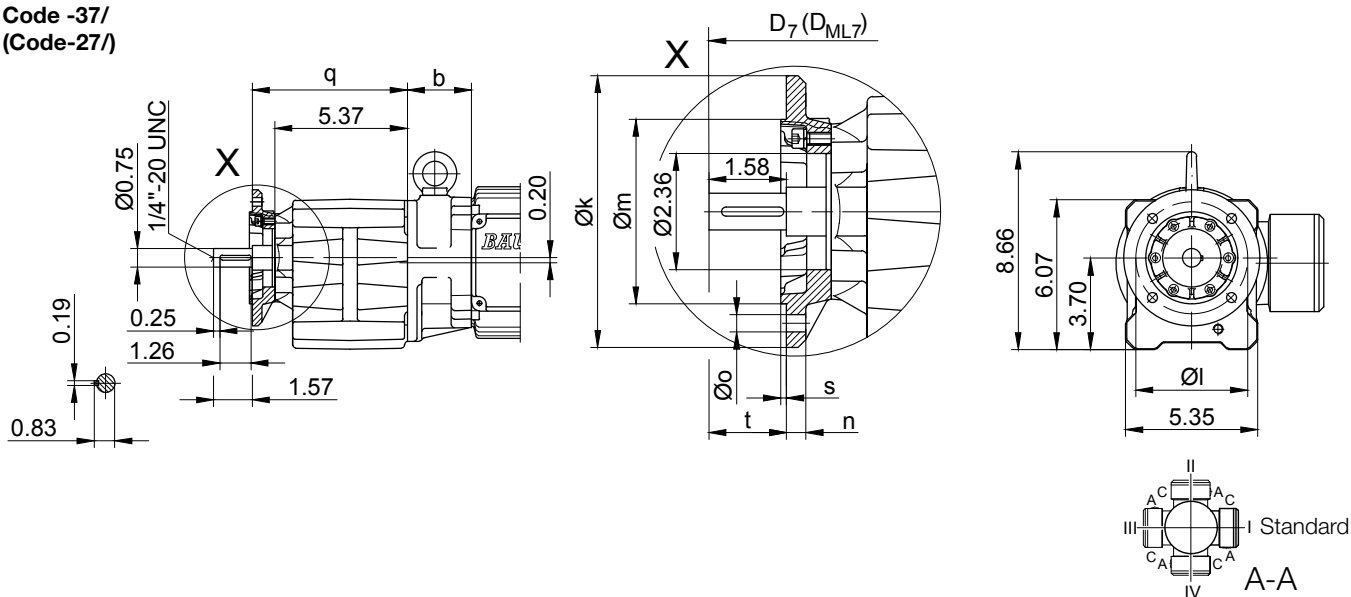
Foot mounting with clearance holes

Code -11/



Flange with clearance holes

Code -37/
(Code-27/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in	
Type	Design	k	l	m	n	o	q	s	t	D ₇		D _{ML7}
BG10..	Code -37V/	5.512	4.528	3.740	0.394	0.354	6.280	0.118	1.590	d+0.610		d _{ML} +0.610
BG10..	Code -27V/	4.724	3.937	3.150	0.315	0.260	6.083	0.118	1.787	d+0.610		d _{ML} +0.610
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG10Z-../D04.A.	5.61	3.39	4.35	16.24	3.54	4.41	17.95	19.68	21.39	-
BG10-../D..05.A.	6.72	2.44	4.84	16.40	3.98	4.61	18.05	20.43	21.91	-
BG10Z-../D..05.A.	6.72	3.46	4.84	17.42	3.98	4.61	19.07	21.46	22.93	-
BG10-../D..06.A.	6.70	2.44	4.84	16.38	3.90	4.69	18.04	20.42	21.90	-
BG10Z-../D..06.A.	6.70	3.46	4.84	17.41	3.90	4.69	19.06	21.44	22.92	-
BG10-../D..07.A.	7.49	2.44	4.84	17.17	3.90	4.69	18.83	21.21	22.68	-
BG10Z-../D..07.A.	7.49	3.46	4.84	18.20	3.90	4.69	19.85	22.23	23.71	-
BG10-../D..08.A.	7.85	2.60	6.14	17.69	4.51	5.37	20.29	22.10	24.52	20.29
BG10Z-../D..08.A.	7.85	5.20	6.14	20.29	4.51	5.37	22.89	24.70	27.12	22.89
BG10-../D..08.B.	9.04	2.60	6.14	18.87	4.51	5.37	21.47	23.28	25.68	21.47
BG10Z-../D..08.B.	9.04	5.20	6.14	21.47	4.51	5.37	24.07	25.88	28.28	24.07
BG10-../D..09.A.	9.86	3.17	6.93	20.27	4.88	6.18	23.93	24.51	28.03	23.93
BG10Z-../D..09.B.	12.15	3.17	6.93	22.55	4.88	6.18	26.22	26.77	30.31	26.22

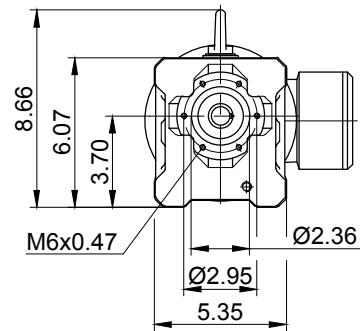
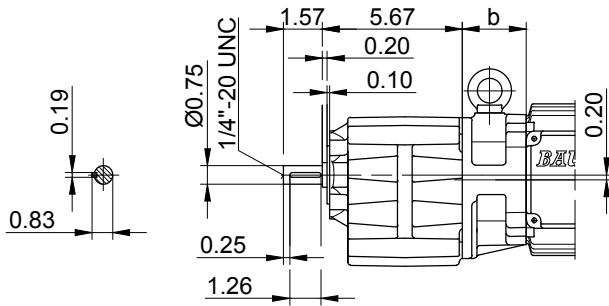
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10 - BG10Z

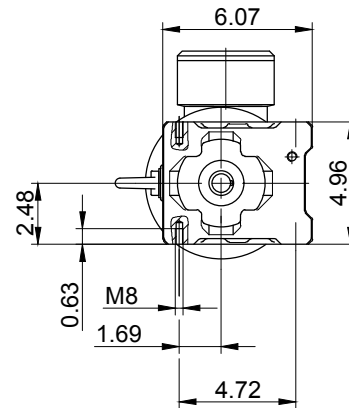
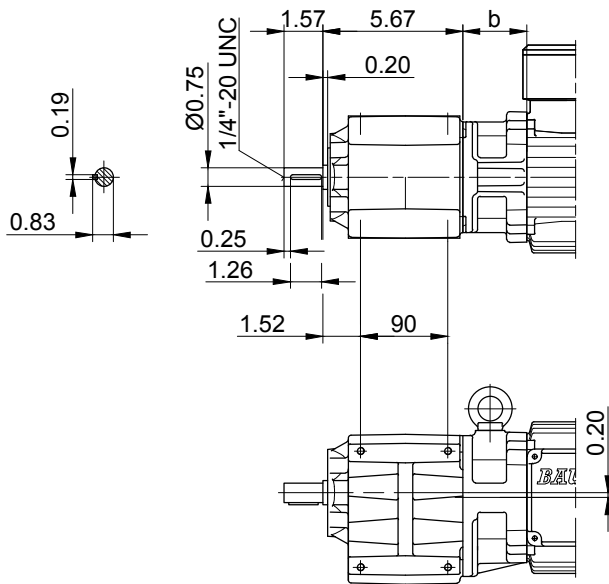
Flange with tapped holes

Code -71/



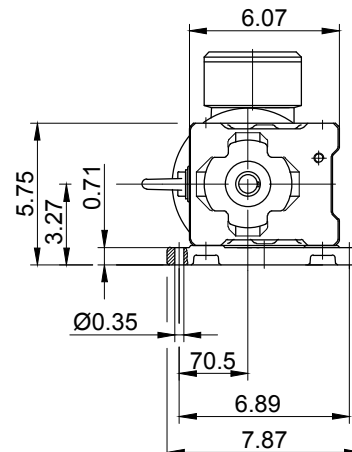
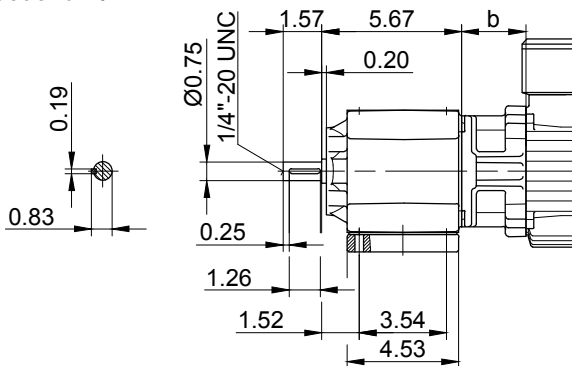
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

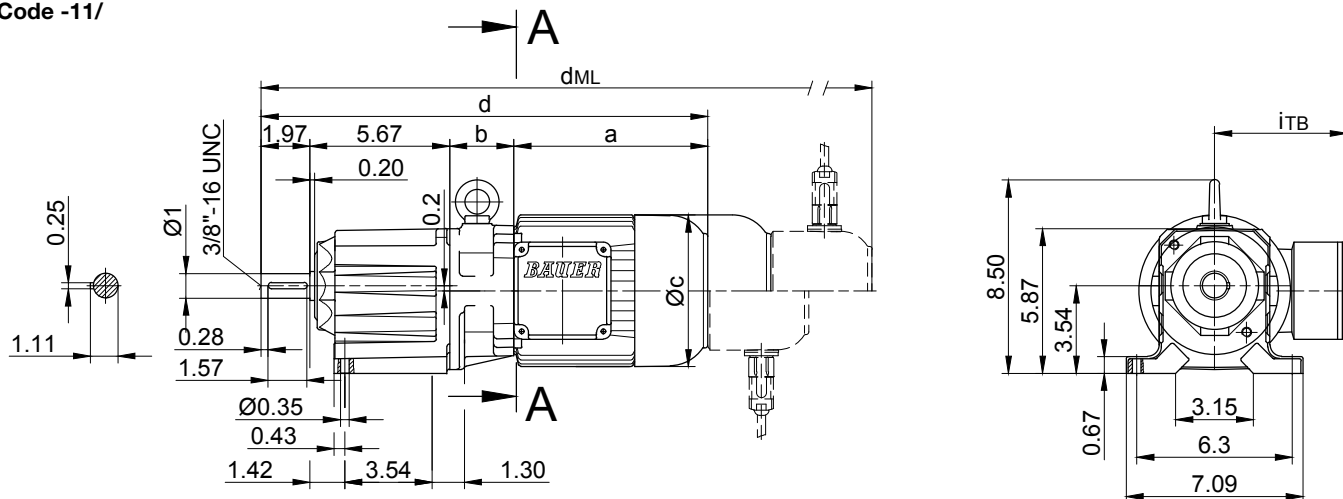
BG-series helical-geared motors

Dimension-Standard Imperial

BG10X - BG10XZ

Foot mounting with clearance holes

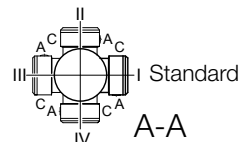
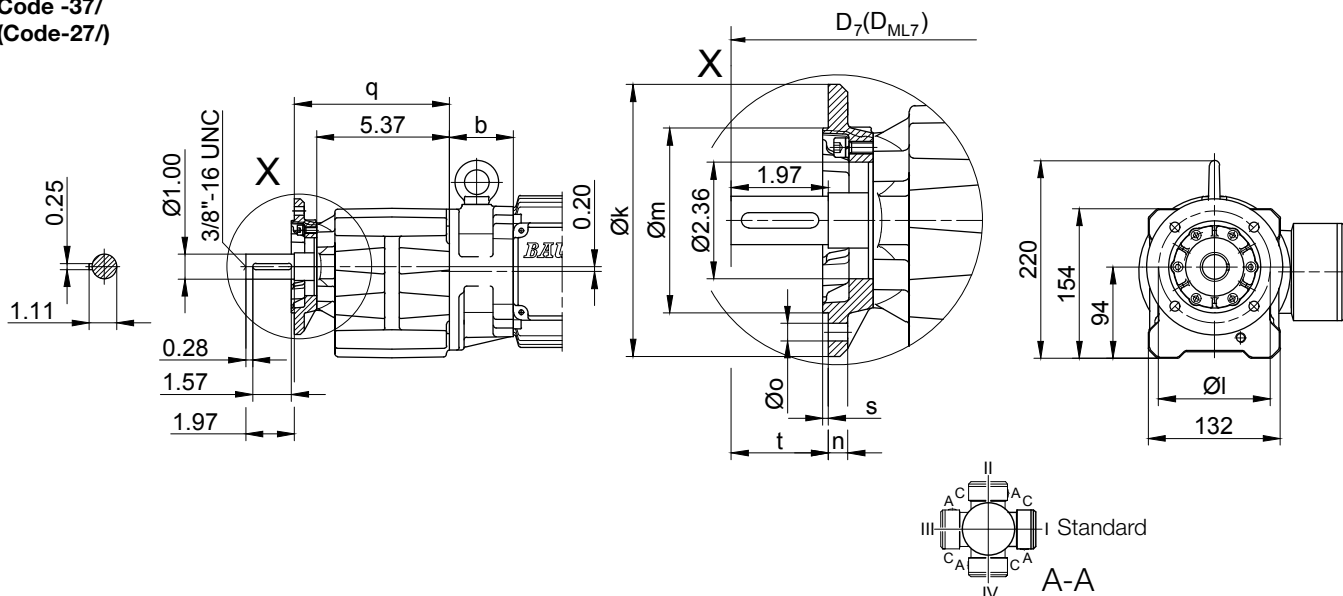
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG10X..	Code -37V/	5.512	4.528	3.740	0.394	0.354	6.280	0.118	1.990	d+0.610	d _{ML} +0.610	
BG10X..	Code -27V/	4.724	3.937	3.150	0.315	0.260	6.083	0.118	2.187	d+0.610	d _{ML} +0.610	

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG10XZ-../D04.A.	5.61	3.39	4.35	16.64	3.54	4.41	18.35	20.08	21.79	-
BG10X-../D..05.A.	6.72	2.44	4.84	16.80	3.98	4.61	18.45	20.83	22.31	-
BG10XZ-../D..05.A.	6.72	3.46	4.84	17.82	3.98	4.61	19.47	21.86	23.33	-
BG10X-../D..06.A.	6.70	2.44	4.84	16.78	3.90	4.69	18.44	20.82	22.30	-
BG10XZ-../D..06.A.	6.70	3.46	4.84	17.81	3.90	4.69	19.46	21.84	23.32	-
BG10X-../D..07.A.	7.49	2.44	4.84	17.57	3.90	4.69	19.23	21.61	23.08	-
BG10XZ-../D..07.A.	7.49	3.46	4.84	18.60	3.90	4.69	20.25	22.63	24.11	-
BG10X-../D..08.A.	7.85	2.60	6.14	18.09	4.51	5.37	20.69	22.50	24.92	20.69
BG10XZ-../D..08.A.	7.85	5.20	6.14	20.69	4.51	5.37	23.29	25.10	27.52	23.29
BG10X-../D..08.B.	9.04	2.60	6.14	19.27	4.51	5.37	21.87	23.68	26.08	21.87
BG10XZ-../D..08.B.	9.04	5.20	6.14	21.87	4.51	5.37	24.47	26.28	28.68	24.47
BG10X-../D..09.A.	9.86	3.17	6.93	20.67	4.88	6.18	24.33	24.91	28.43	24.33
BG10X-../D..09.B.	12.15	3.17	6.93	22.95	4.88	6.18	26.62	27.17	30.71	26.62

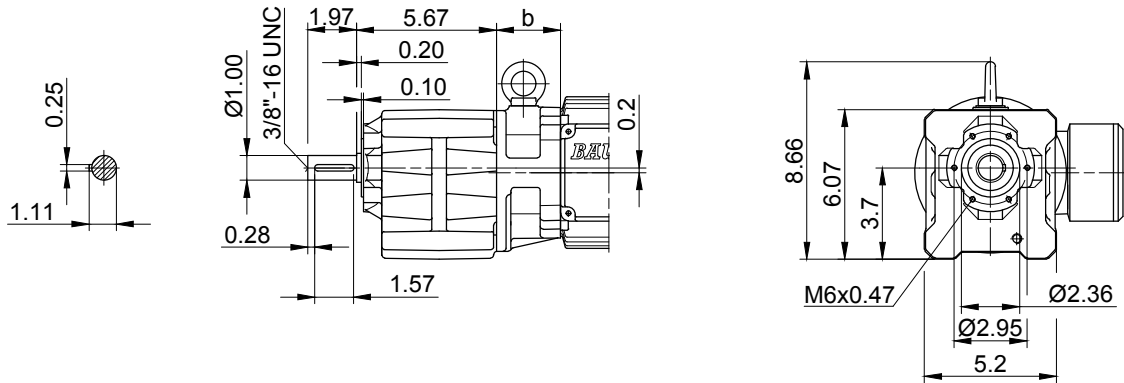
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10X - BG10XZ

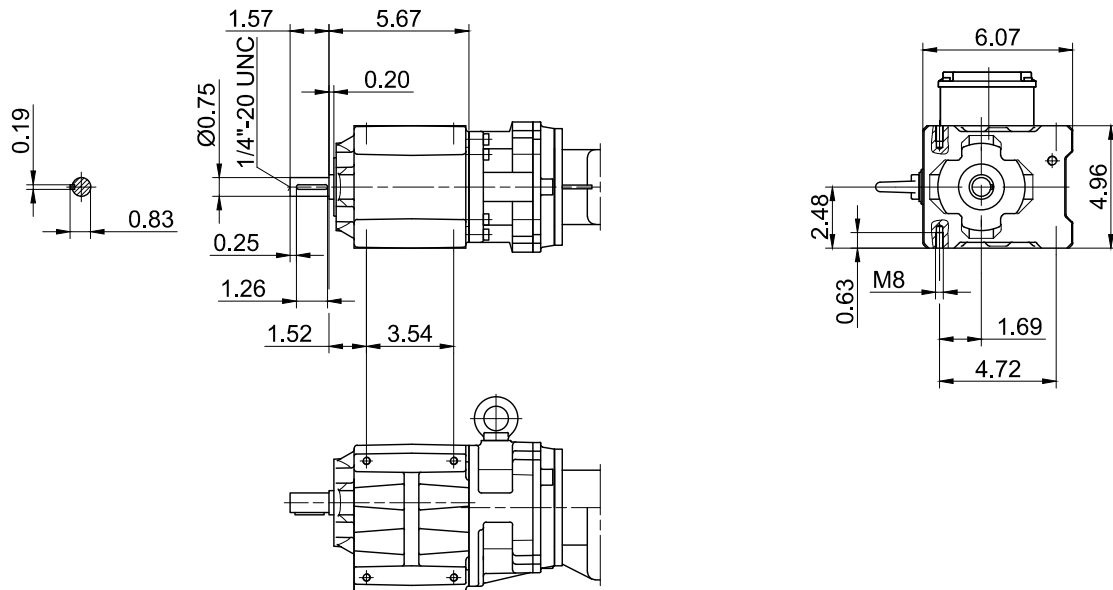
Flange with tapped holes

Code -71/



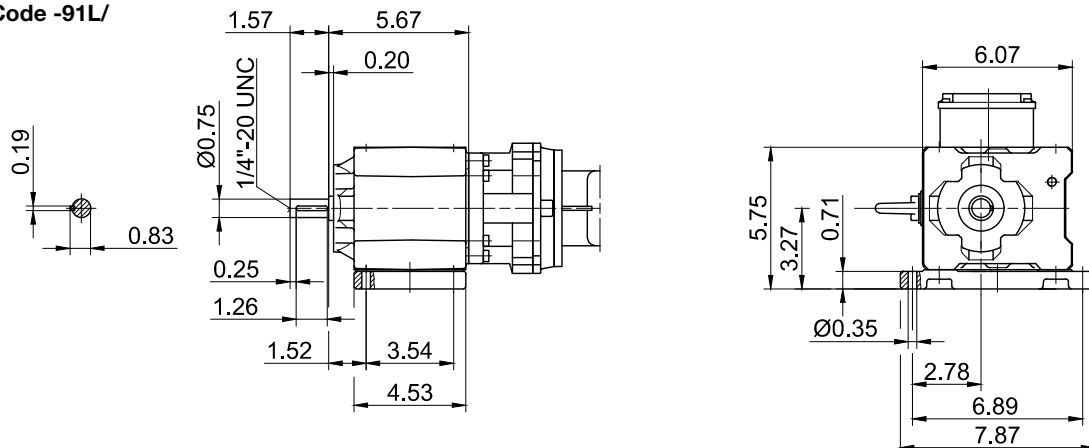
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America

10

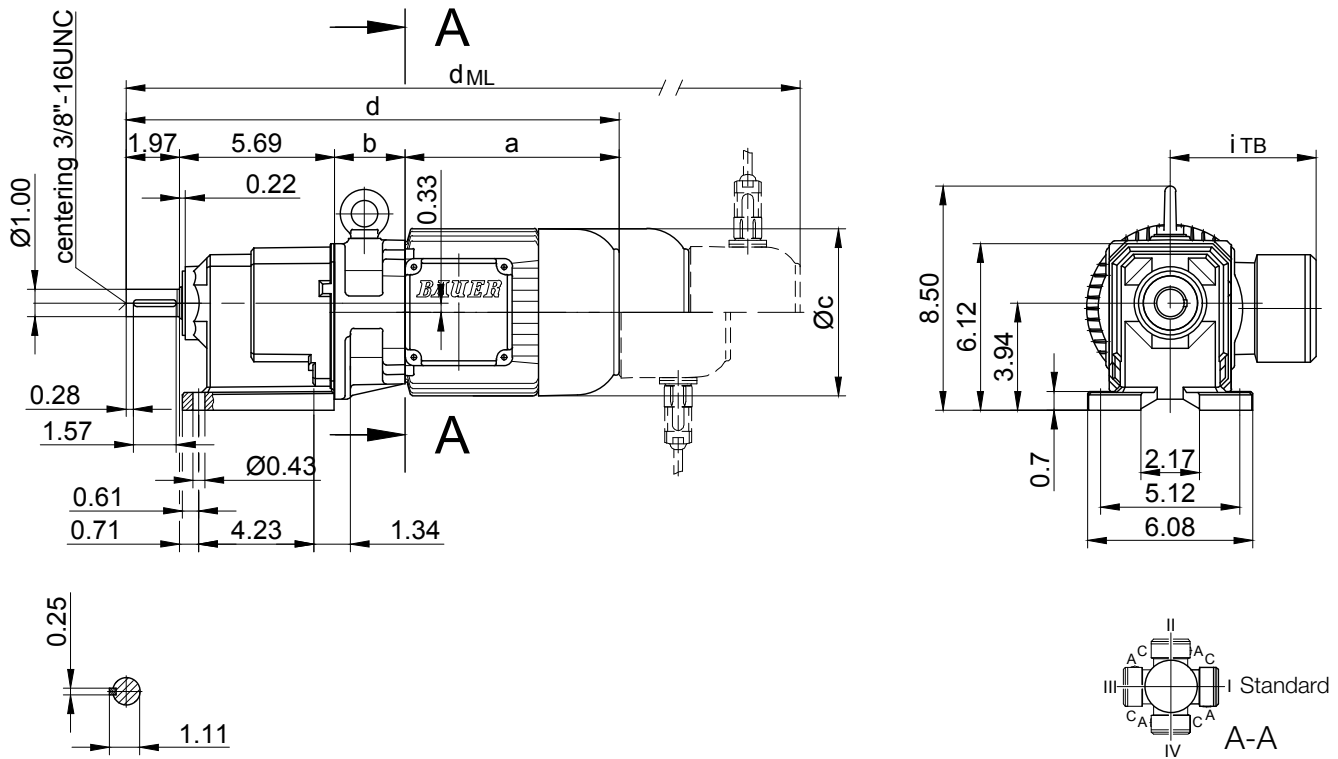
BG-series helical-geared motors

Dimension-Standard Imperial

BG15

Foot mounting with clearance holes

Code -11/



10

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG15-../D..05.A.	6.72	2.44	4.84	14.85	3.98	4.61	15.45	17.18	18.89	-
BG15-../D..06.A.	6.70	2.44	4.84	14.83	3.90	4.69	16.49	18.87	20.35	-
BG15-../D..07.A.	7.49	2.44	4.84	15.62	3.90	4.69	17.28	19.66	21.13	-
BG15-../D..08.A.	7.85	2.60	6.14	16.14	4.51	5.37	18.74	20.55	22.97	13.05
BG15-../D..08.B.	9.04	2.60	6.14	17.32	4.51	5.37	19.92	21.73	24.13	19.92
BG15-../D..09.A.	9.86	3.17	6.93	18.72	4.88	6.18	22.38	22.96	26.48	22.38
BG15-../D..09.B.	12.15	3.17	6.93	21.00	4.88	6.18	24.67	25.22	28.76	24.67

Dimensions in inch

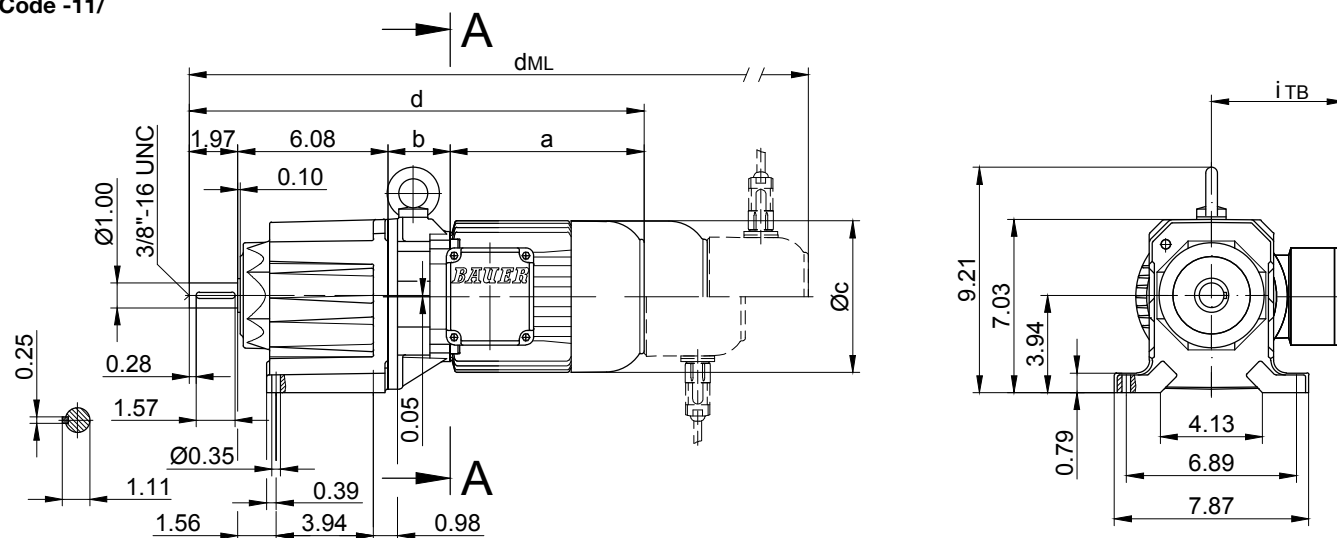
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension-Standard Imperial

BG20 - BG20Z

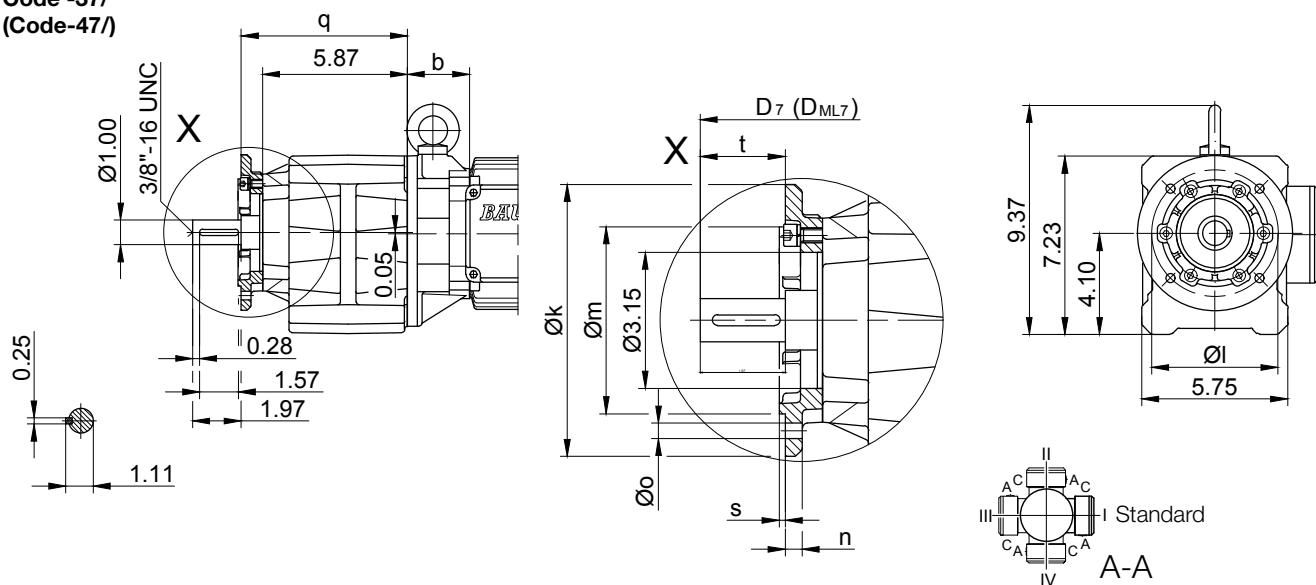
Foot mounting with clearance holes

Code -11/



Flange with clearance holes

Code -37/
(Code-47/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG20..	Code -37V/	6.299	5.118	4.331	0.394	0.354	6.732	0.138	1.990	d+0.650	d _{ML} +0.650	
BG20..	Code -47V/	7.874	6.496	5.118	0.472	0.433	7.008	0.138	1.714	d+0.650	d _{ML} +0.650	
Dimensions in inch												

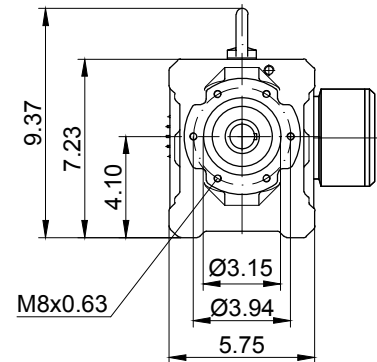
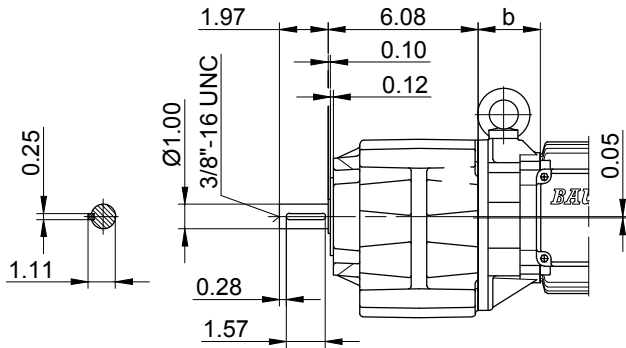
Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG20Z-../D04.A.	5.61	3.94	4.35	17.60	3.54	4.41	19.31	21.04	22.75	-
BG20-../D..05.A.	6.72	2.36	4.84	17.13	3.98	4.61	18.78	21.17	22.64	-
BG20Z-../D..05.A.	6.72	4.02	4.84	18.78	3.98	4.61	20.44	22.82	24.30	-
BG20-../D..06.A.	6.70	2.36	4.84	17.12	3.90	4.69	18.77	21.16	22.63	-
BG20Z-../D..06.A.	6.70	4.02	4.84	18.77	3.90	4.69	20.43	22.81	24.28	-
BG20-../D..07.A.	7.49	2.36	4.84	17.91	3.90	4.69	19.56	21.94	23.42	-
BG20Z-../D..07.A.	7.49	4.02	4.84	19.56	3.90	4.69	21.21	23.60	25.07	-
BG20-../D..08.A.	7.85	2.52	6.14	18.43	4.51	5.37	21.03	22.84	25.26	21.03
BG20Z-../D..08.A.	7.85	5.75	6.14	21.66	4.51	5.37	24.25	26.06	28.49	24.25
BG20-../D..08.B.	9.04	2.52	6.14	19.61	4.51	5.37	22.21	24.02	26.42	22.21
BG20Z-../D..08.B.	9.04	5.75	6.14	22.84	4.51	5.37	25.43	27.25	29.65	25.43
BG20-../D..09.A.	9.86	3.09	6.93	21.01	4.88	6.18	24.67	25.24	28.77	24.67
BG20-../D..09.B.	12.15	3.09	6.93	23.29	4.88	6.18	26.95	27.51	31.05	26.95

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG20 - BG20Z

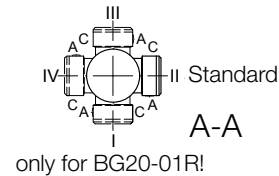
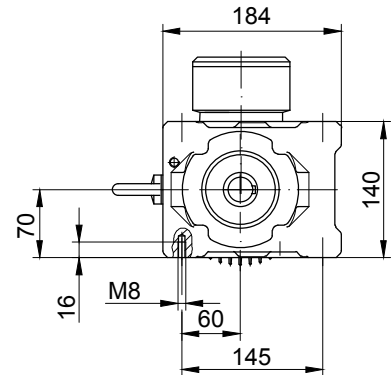
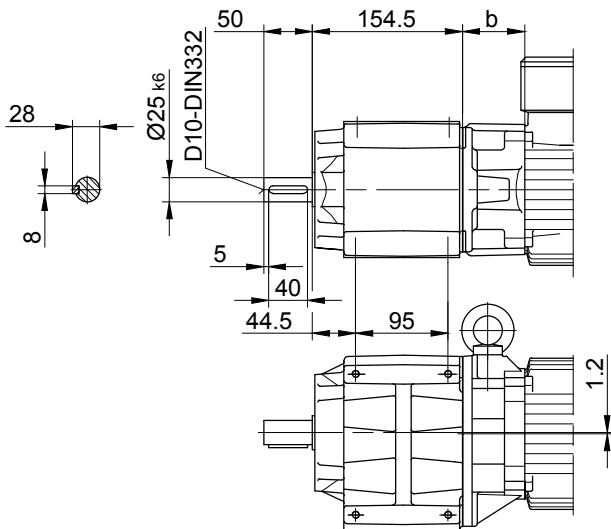
Flange with tapped holes

Code -71/



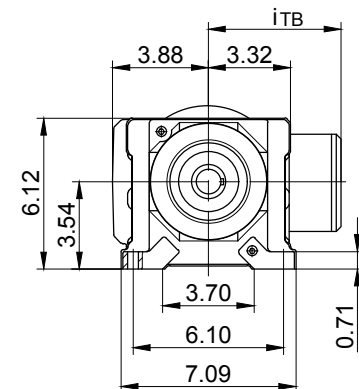
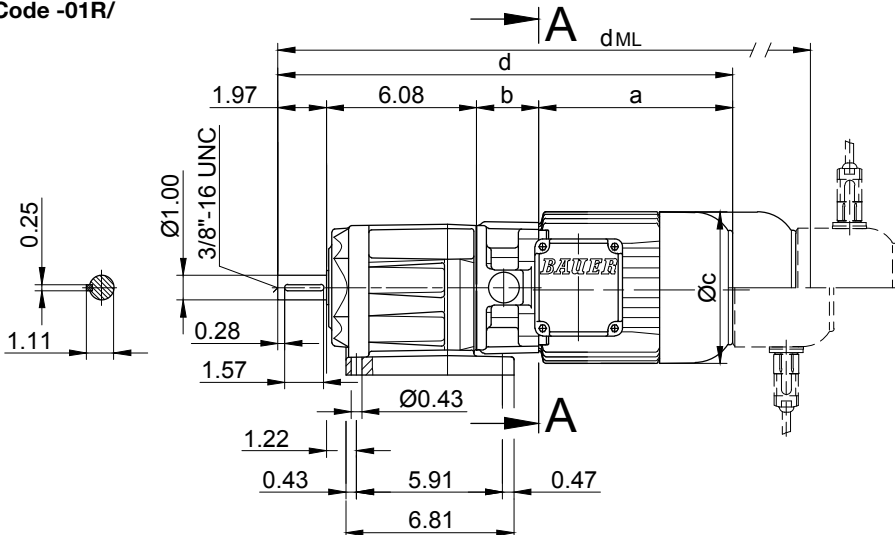
Foot with tapped holes left and right

Code -61LR/



Foot mounting right with clearance holes

Code -01R/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

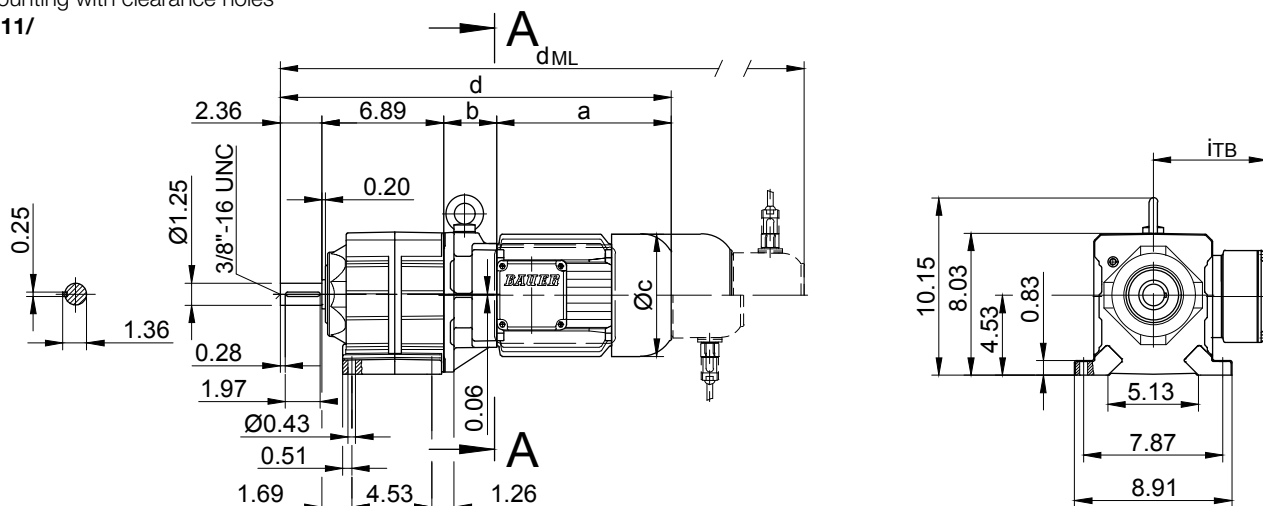
BG-series helical-geared motors

Dimension-Standard Imperial

BG30 - BG30Z

Foot mounting with clearance holes

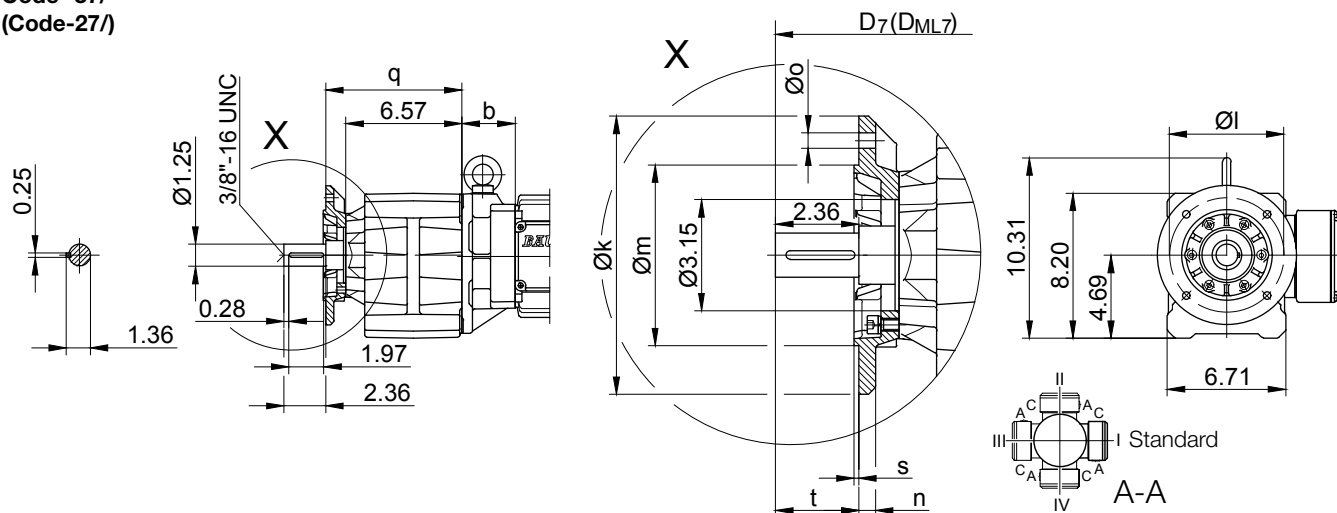
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG30..	Code -37/	7.874	6.496	5.118	0.472	0.433	7.717	0.138	2.380	d+0.827	d _{ML} +0.827
BG30..	Code -27/	6.299	5.118	4.331	0.394	0.354	7.441	0.138	2.655	d+0.827	d _{ML} +0.827

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in

over 1.5 in diameter: +0.000 / -0.001 in

Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BG30-../D..05.A.	6.72	2.28	4.84	18.25	3.98	4.61	19.90	22.29	23.76	-
BG30Z-../D..05.A.	6.72	5.26	4.84	21.22	3.98	4.61	22.88	25.26	26.73	-
BG30-../D..06.A.	6.70	2.28	4.84	18.24	3.90	4.69	19.89	22.27	23.75	-
BG30Z-../D..06.A.	6.70	5.26	4.84	21.21	3.90	4.69	22.86	25.25	26.72	-
BG30-../D..07.A.	7.49	2.28	4.84	19.03	3.90	4.69	20.68	23.06	24.54	-
BG30Z-../D..07.A.	7.49	5.26	4.84	22.00	3.90	4.69	23.65	26.03	27.51	-
BG30-../D..08.A.	7.85	2.44	6.14	19.55	4.51	5.37	22.14	23.95	26.38	22.14
BG30Z-../D..08.A.	7.85	5.41	6.14	22.52	4.51	5.37	25.12	26.93	29.35	25.12
BG30-../D..08.B.	9.04	2.44	6.14	20.73	4.51	5.37	23.32	25.14	27.54	23.32
BG30Z-../D..08.B.	9.04	5.41	6.14	23.70	4.51	5.37	26.30	28.11	30.51	26.30
BG30-../D..09.A.	9.86	3.01	6.93	22.12	4.88	6.18	25.79	28.62	29.88	25.79
BG30Z-../D..09.A.	9.86	5.98	6.93	25.10	4.88	6.18	28.76	31.60	32.86	28.76
BG30-../D..09.B.	12.15	3.01	6.93	24.41	4.88	6.18	28.07	28.62	32.17	28.07
BG30Z-../D..09.B.	12.15	5.98	6.93	27.38	4.88	6.18	31.04	31.60	35.14	31.04
BG30-../D..11.A.	12.56	3.27	8.58	25.08	6.50	6.93	28.93	29.31	32.95	28.93
BG30Z-../D..11.B.	15.24	3.27	8.58	27.75	6.50	6.93	31.53	31.99	35.63	31.53

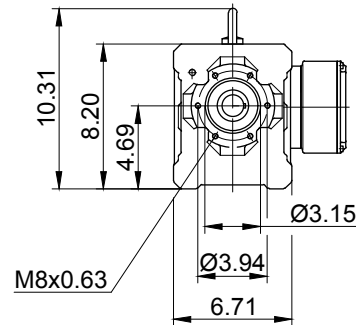
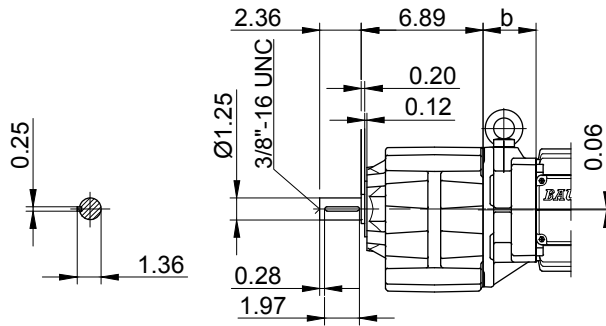
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG30 - BG30Z

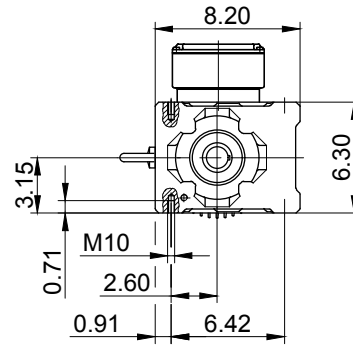
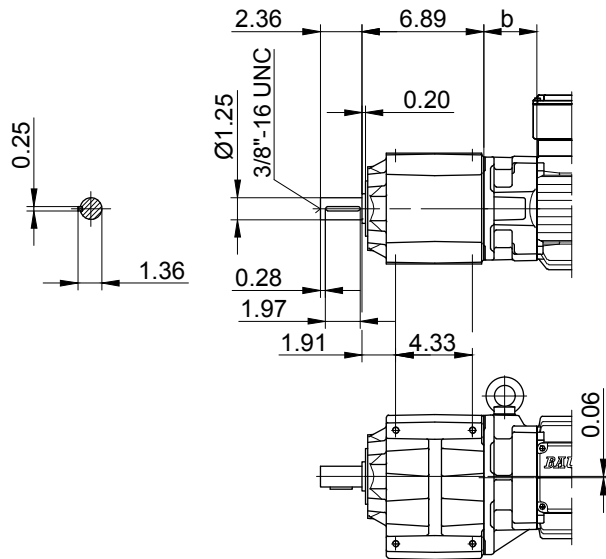
Flange with tapped holes

Code -71/



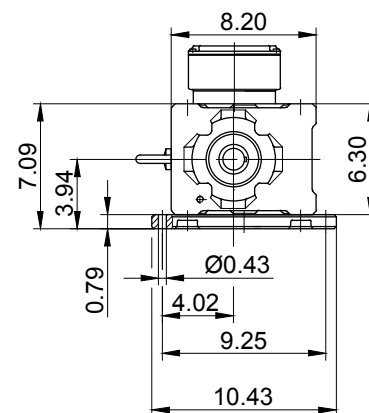
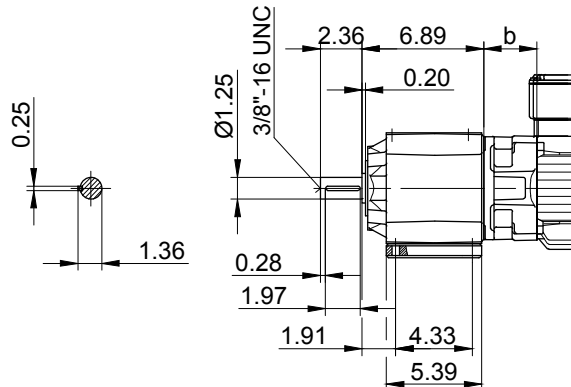
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

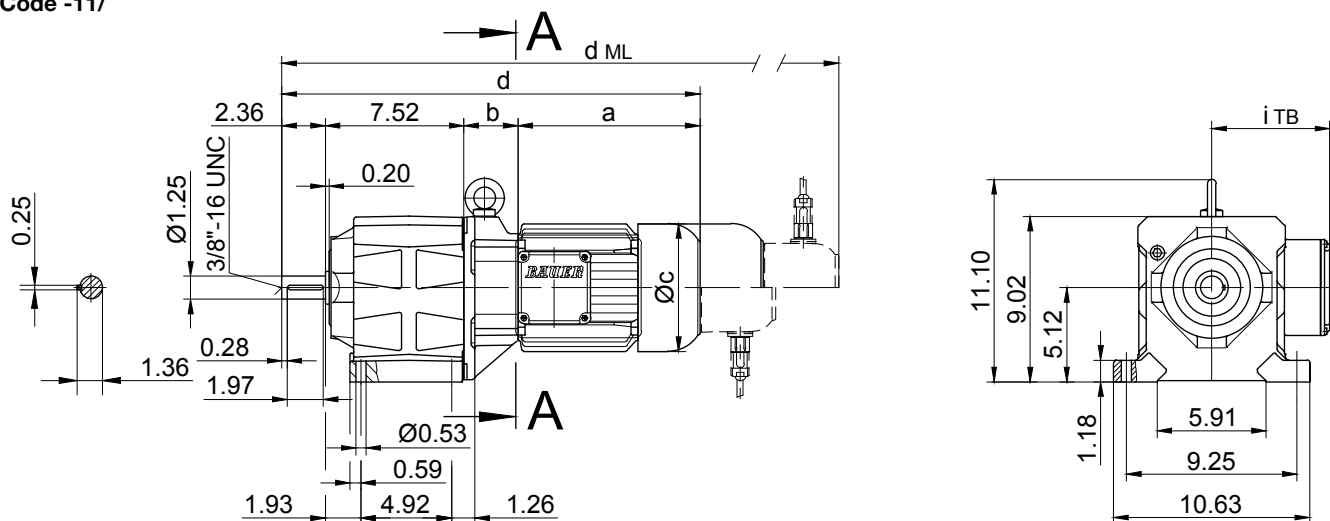
BG-series helical-geared motors

Dimension-Standard Imperial

BG40 - BG40Z

Foot mounting with clearance holes

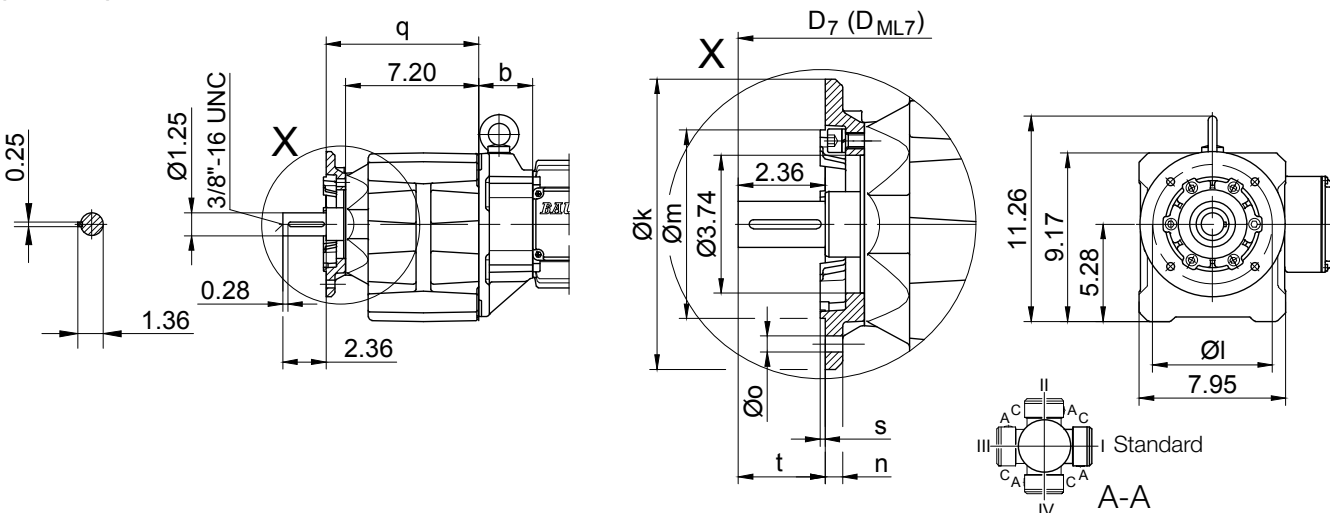
Code -11/



Flange with clearance holes

Code -37/

(Code-47/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG40..	Code -37/	7.874	6.496	5.118	0.472	0.433	8.268	0.138	2.399	d+0.748	d _{ML} +0.748
BG40..	Code -47/	9.843	8.465	7.087	0.630	0.531	8.622	0.157	2.045	d+0.748	d _{ML} +0.748

Dimensions in inch

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG40Z-../D..05.A.	6.72	5.45	4.84	22.05	3.98	4.61	23.70	26.08	27.56	-
BG40Z-../D..06.A.	6.70	5.45	4.84	22.04	3.90	4.69	23.69	26.07	27.55	-
BG40Z-../D..07.A.	7.49	5.45	4.84	22.82	3.90	4.69	24.48	26.86	28.34	-
BG40-../D..08.A.	7.85	2.36	6.14	20.10	4.51	5.37	22.69	24.51	26.93	22.69
BG40Z-../D..08.A.	7.85	5.61	6.14	23.34	4.51	5.37	25.94	27.75	30.17	25.94
BG40-../D..08.B.	9.04	2.36	6.14	21.28	4.51	5.37	23.88	25.69	28.09	23.88
BG40Z-../D..08.B.	9.04	5.61	6.14	24.53	4.51	5.37	27.12	28.93	31.34	27.12
BG40-../D..09.A.	9.86	2.93	6.93	22.67	4.88	6.18	26.34	26.91	30.43	26.34
BG40Z-../D..09.A.	9.86	6.18	6.93	25.92	4.88	6.18	29.58	30.16	33.68	29.58
BG40-../D..09.B.	12.15	2.93	6.93	24.96	4.88	6.18	28.62	29.17	32.72	28.62
BG40Z-../D..09.B.	12.15	6.18	6.93	28.21	4.88	6.18	31.87	32.42	35.97	31.87
BG40-../D..11.A.	12.56	3.19	8.58	25.63	6.50	6.93	29.49	29.86	33.51	29.49
BG40Z-../D..11.B.	15.24	3.19	8.58	28.30	6.50	6.93	32.08	32.54	36.18	32.08

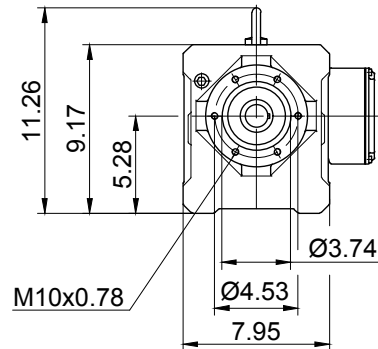
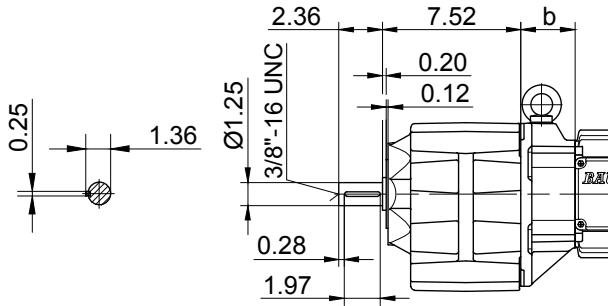
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG40 - BG40Z

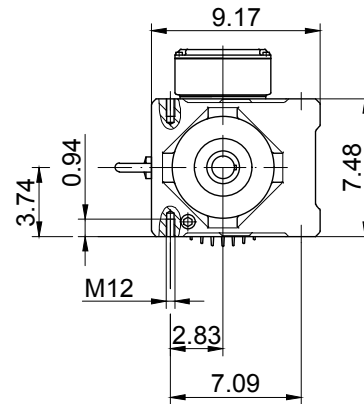
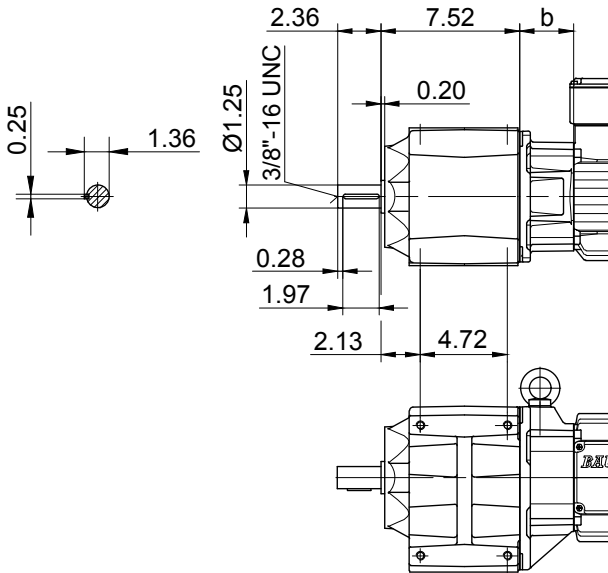
Flange with tapped holes

Code -71/



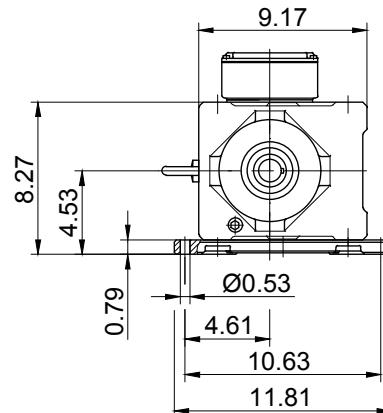
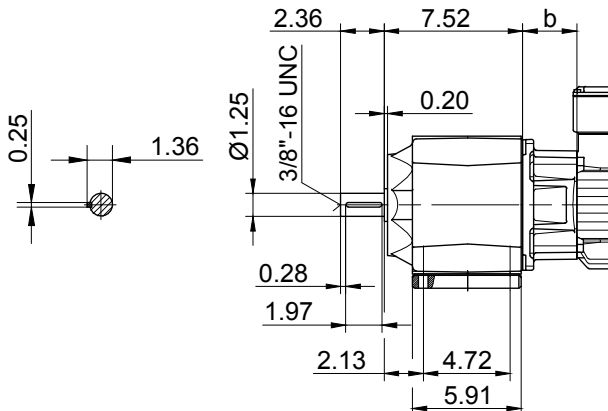
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

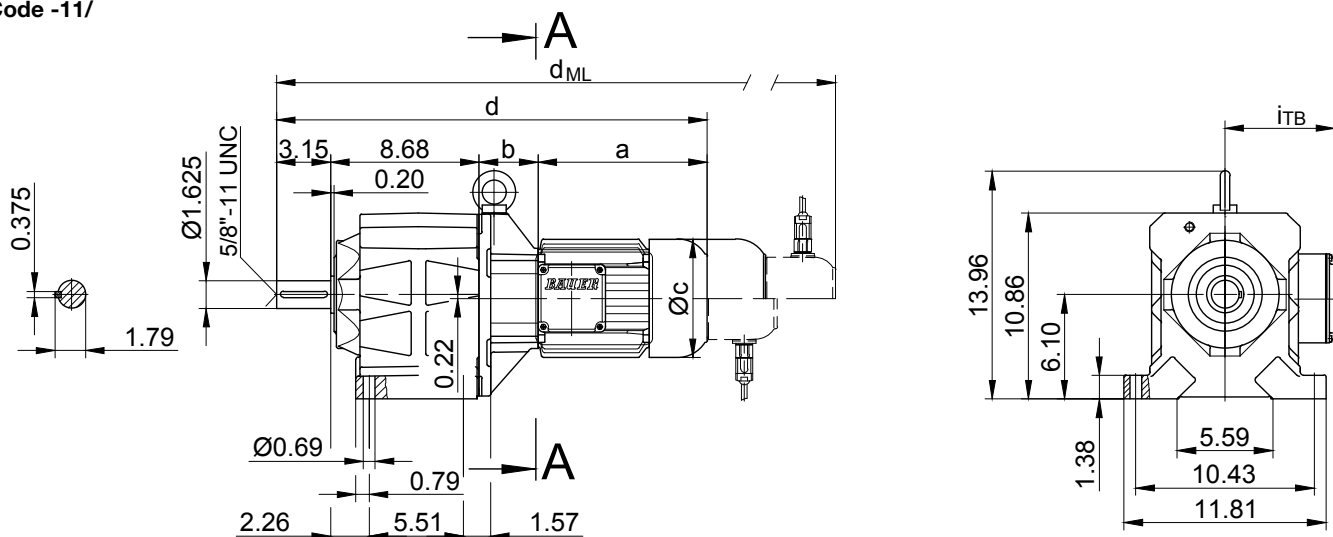
BG-series helical-geared motors

Dimension-Standard Imperial

BG50 - BG50Z

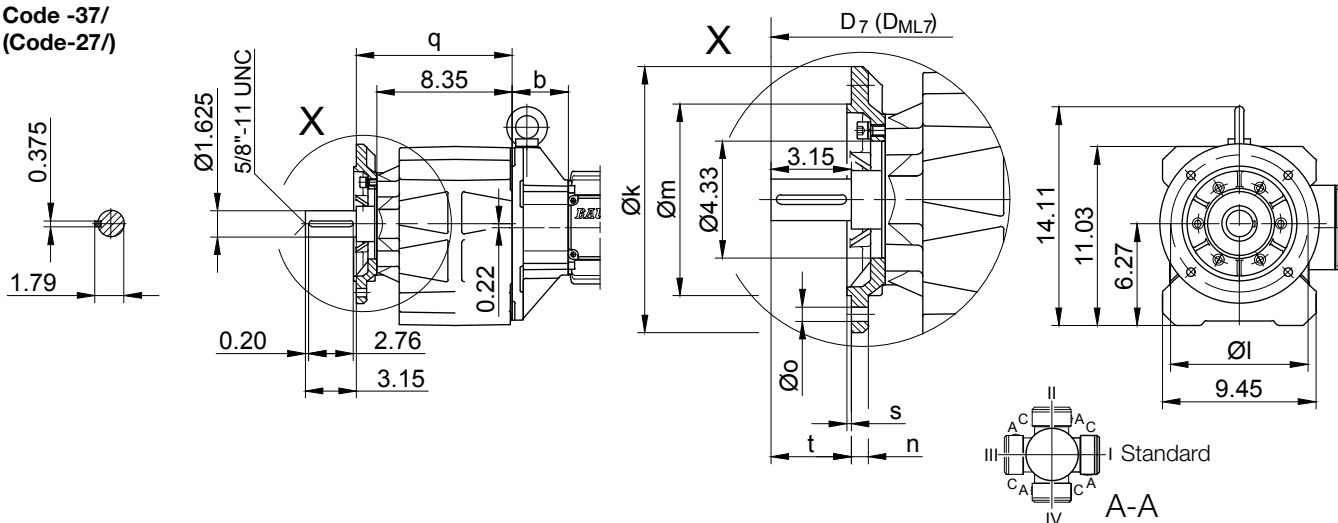
Foot mounting with clearance holes

Code -11/



Flange with clearance holes

Code -37/
(Code-27/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	
BG50..	Code -37/	9.843	8.465	7.087	0.630	0.531	9.606	0.157	3.170	d+0.925	d _{ML} +0.925
BG50..	Code -27/	7.874	6.496	5.118	0.472	0.433	9.488	0.138	3.288	d+0.925	d _{ML} +0.925

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG50Z-../D..05.A.	6.72	6.10	4.84	24.65	3.98	4.61	26.30	28.69	30.16	-
BG50Z-../D..06.A.	6.70	6.10	4.84	24.64	3.90	4.69	26.29	28.67	30.15	-
BG50Z-../D..07.A.	7.49	6.10	4.84	25.43	3.90	4.69	27.08	29.46	30.94	-
BG50-../D..08.A.	7.85	2.87	6.14	22.56	4.51	5.37	25.16	26.97	29.39	25.16
BG50Z-../D..08.A.	7.85	6.26	6.14	25.95	4.51	5.37	28.54	30.35	32.78	28.54
BG50-../D..08.B.	9.04	2.87	6.14	23.74	4.51	5.37	26.34	28.15	30.55	26.34
BG50Z-../D..08.B.	9.04	6.26	6.14	27.13	4.51	5.37	29.72	31.54	33.94	29.72
BG50-../D..09.A.	9.86	3.44	6.93	25.14	4.88	6.18	28.80	29.37	32.90	28.80
BG50Z-../D..09.A.	9.86	6.83	6.93	28.52	4.88	6.18	32.19	32.76	36.28	32.19
BG50-../D..09.B.	12.15	3.44	6.93	27.42	4.88	6.18	31.08	31.64	35.18	31.08
BG50Z-../D..09.B.	12.15	6.83	6.93	30.81	4.88	6.18	34.47	35.02	38.57	34.47
BG50-../D..11.A.	12.56	3.70	8.58	28.09	6.50	6.93	31.95	32.33	35.97	31.95
BG50-../D..11.B.	15.24	3.70	8.58	30.77	6.50	6.93	34.55	35.00	38.65	34.55
BG50-../D..13.A.	15.47	4.21	10.16	31.52	8.54	8.54	35.89	35.73	39.87	35.77
BG50-../D..16.B.	17.89	4.76	12.20	34.49	9.57	9.57	40.14	38.71	44.22	40.14
BG50-../D..18.B.	21.34	5.63	13.70	38.80	11.34	11.34	44.69	42.96	48.76	44.69

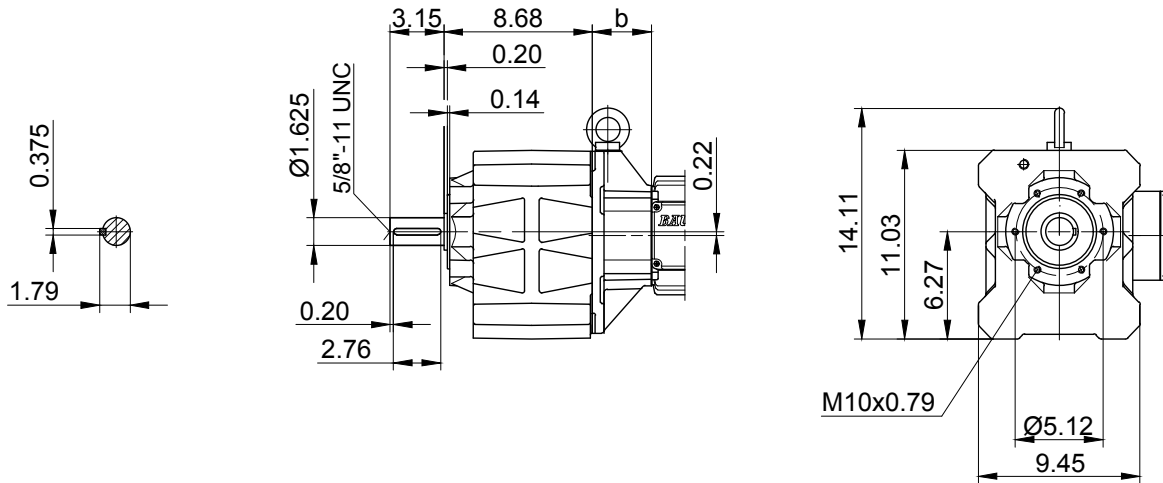
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG50 - BG50Z

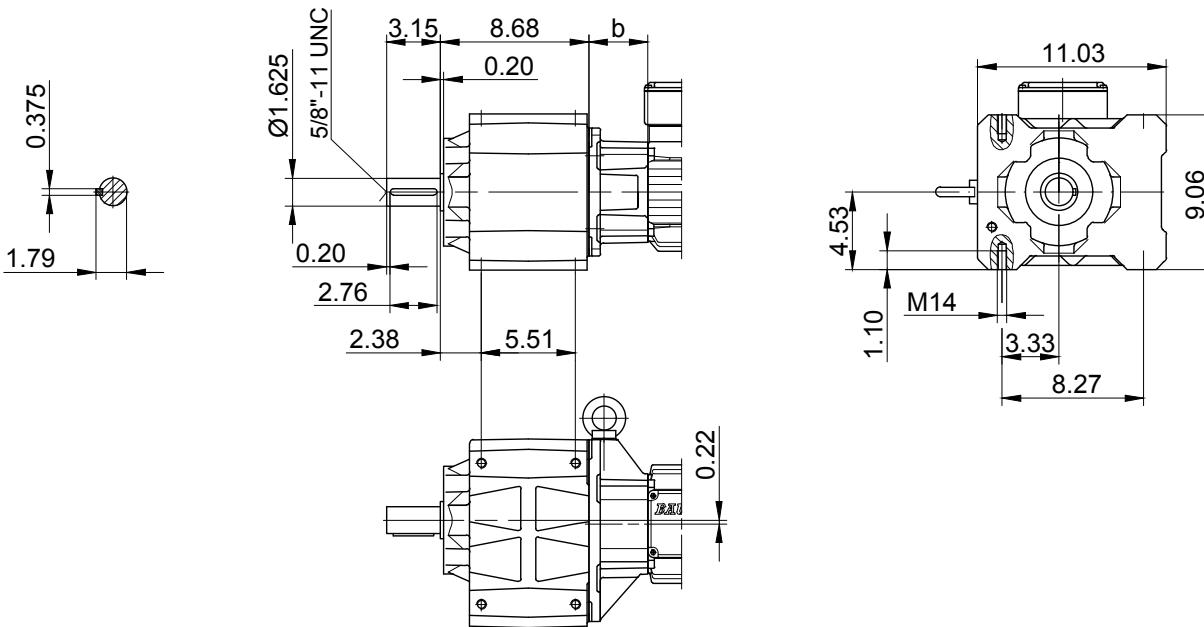
Flange with tapped holes

Code -71/



Foot with tapped holes left and right

Code -61LR/



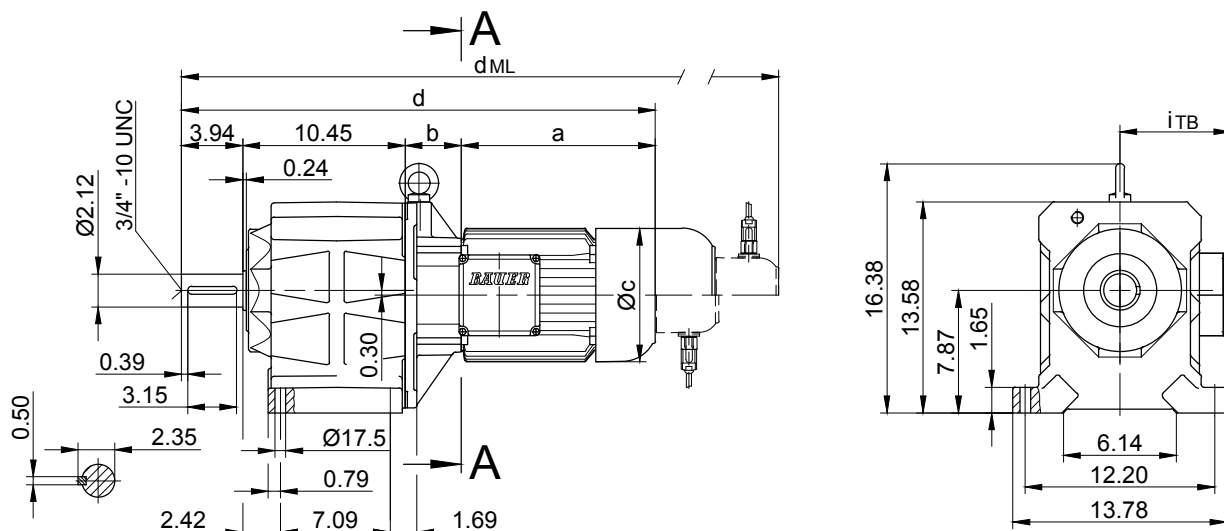
BG-series helical-geared motors

Dimension-Standard Imperial

BG60 - BG60Z

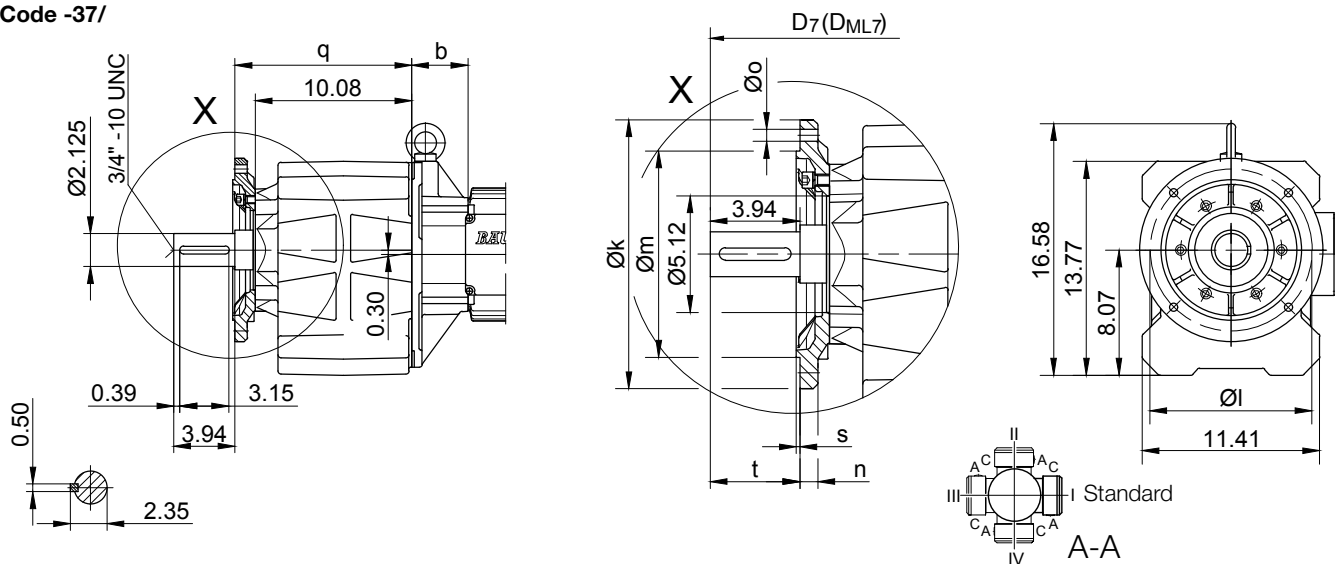
Foot mounting with clearance holes

Code -11/



Flange with clearance holes

Code -37/



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG60..	Code -37/	11.811	10.433	9.055	0.787	0.531	11,378	0.157	3.960	d+0.925	d _{ML} +0.925
BG60..	Code -27/	9.843	8.465	7.087	0.630	0.531	11,260	0.157	4.078	d+0.925	d _{ML} +0.925

Dimensions in inch

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

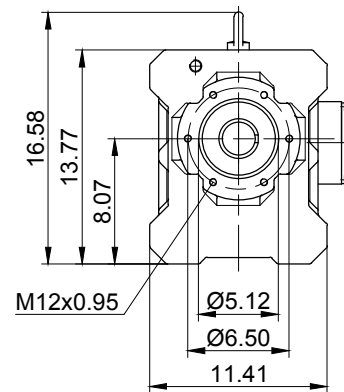
Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG60Z-../D..08.A.	7.85	7.13	6.14	29.37	4.51	5.37	31.97	33.78	36.20	31.97
BG60Z-../D..08.B.	9.04	7.13	6.14	30.55	4.51	5.37	33.15	34.96	37.37	33.15
BG60-../D..09.A.	9.86	3.37	6.93	27.62	4.88	6.18	31.28	31.86	35.38	31.28
BG60Z-../D..09.A.	9.86	7.70	6.93	31.95	4.88	6.18	35.61	36.19	39.71	35.61
BG60-../D..09.B.	12.15	3.37	6.93	29.90	4.88	6.18	33.57	34.12	37.66	33.57
BG60Z-../D..09.B.	12.15	7.70	6.93	34.24	4.88	6.18	37.90	38.45	42.00	37.90
BG60-../D..11.A.	12.56	3.62	8.58	30.57	6.50	6.93	34.43	34.81	38.45	34.43
BG60Z-../D..11.A.	12.56	7.95	8.58	34.90	6.50	6.93	38.76	39.14	42.78	38.76
BG60-../D..11.B.	15.24	3.62	8.58	33.25	6.50	6.93	37.03	37.49	41.13	37.03
BG60Z-../D..11.B.	15.24	7.95	8.58	37.58	6.50	6.93	41.36	41.82	45.46	41.36
BG60-../D..13.A.	15.47	4.13	10.16	34.00	8.54	8.54	38.37	38.22	42.35	38.25
BG60-../D..16.B.	17.89	4.69	12.20	36.97	9.57	9.57	42.62	41.19	46.70	42.62
BG60-../D..18.B.	21.34	5.55	13.70	41.28	11.34	11.34	47.17	45.44	51.25	47.17

Dimensions in inch

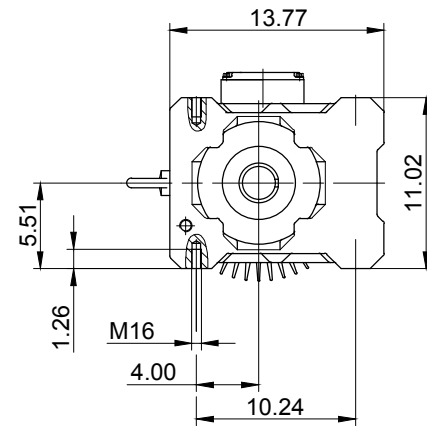
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension-Standard Imperial

Code -71/



Code -61LR/



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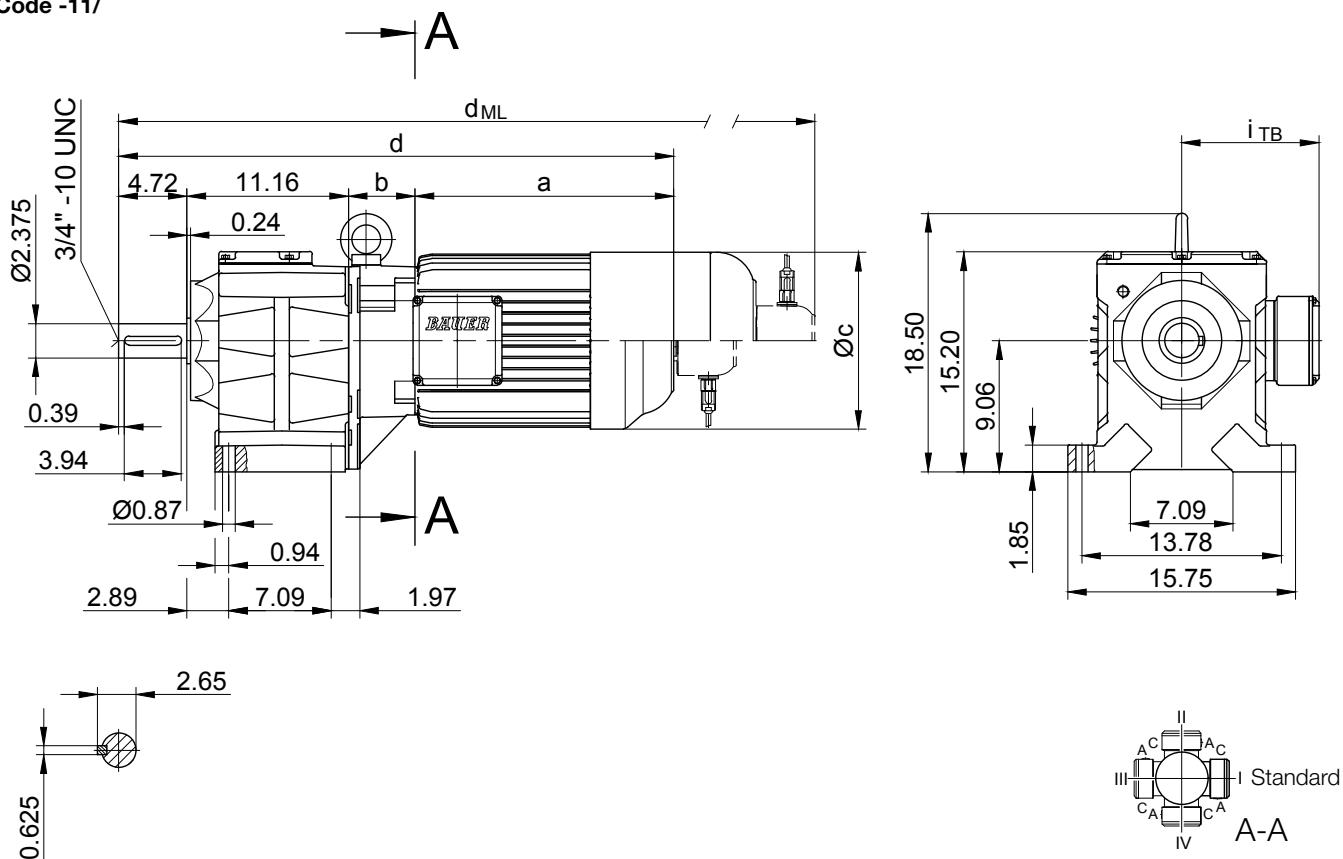
BG-series helical-geared motors

Dimension-Standard Imperial

BG70 - BG70Z

Foot mounting with clearance holes

Code -11/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG70..	Code -37/	13.780	11.811	9.843	0.787	0.689	12.362	0.197	4.740	d+1.201	d _{ML} +1.201	
BG70..	Code -27/	11.811	10.433	9.055	0.787	0.531	12.677	0.157	4.464	d+1.201	d _{ML} +1.201	
Dimensions in inch												
Type	a	b	c	d	i	Design with motor extensions						
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop		
							d _{ML}	d _{ML}	d _{ML}	d _{ML}		
BG70Z-../D..08.A.	7.85	7.95	6.14	31.69	4.51	5.37	34.29	36.10	38.52	34.29		
BG70Z-../D..08.B.	9.04	7.95	6.14	32.87	4.51	5.37	35.47	37.28	39.68	35.47		
BG70-../D..09.A.	9.86	3.29	6.93	29.03	4.88	6.18	32.69	33.27	36.79	32.69		
BG70Z-../D..09.A.	9.86	8.52	6.93	34.27	4.88	6.18	37.93	38.50	42.03	37.93		
BG70-../D..09.B.	12.15	3.29	6.93	31.31	4.88	6.18	34.98	35.53	39.07	34.98		
BG70Z-../D..09.B.	12.15	8.52	6.93	36.55	4.88	6.18	40.21	40.77	44.31	40.21		
BG70-../D..11.A.	12.56	3.54	8.58	31.98	6.50	6.93	35.84	36.22	39.86	35.84		
BG70Z-../D..11.A.	12.56	8.78	8.58	37.22	6.50	6.93	41.08	41.46	45.10	41.08		
BG70-../D..11.B.	15.24	3.54	8.58	34.66	6.50	6.93	38.44	38.90	42.54	38.44		
BG70Z-../D..11.B.	15.24	8.78	8.58	39.90	6.50	6.93	43.68	44.13	47.78	43.68		
BG70-../D..13.A.	15.47	4.06	10.16	35.41	8.54	8.54	39.78	39.63	43.76	39.66		
BG70Z-../D..13.A.	15.47	9.29	10.16	40.65	8.54	8.54	45.02	44.86	49.00	44.90		
BG70-../D..16.B.	17.89	4.61	12.20	38.38	9.57	9.57	44.03	42.60	48.11	44.03		
BG70Z-../D..16.B.	17.89	9.84	12.20	43.62	9.57	9.57	49.27	25.72	53.35	49.27		
BG70-../D..18.B.	21.34	5.47	13.70	42.69	11.34	11.34	48.58	46.85	52.66	48.58		
BG70Z-../D..18.B.	21.34	10.71	13.70	47.93	11.34	11.34	53.81	52.09	57.89	53.81		
BG70-../D..20.A.	27.70	6.14	14.29	49.72	11.02	11.02	54.74	53.88	58.90	49.72		
BG70Z-../D..20.A.	27.70	6.14	14.29	49.72	11.02	11.02	54.74	53.88	58.90	49.72		
Dimensions in inch												

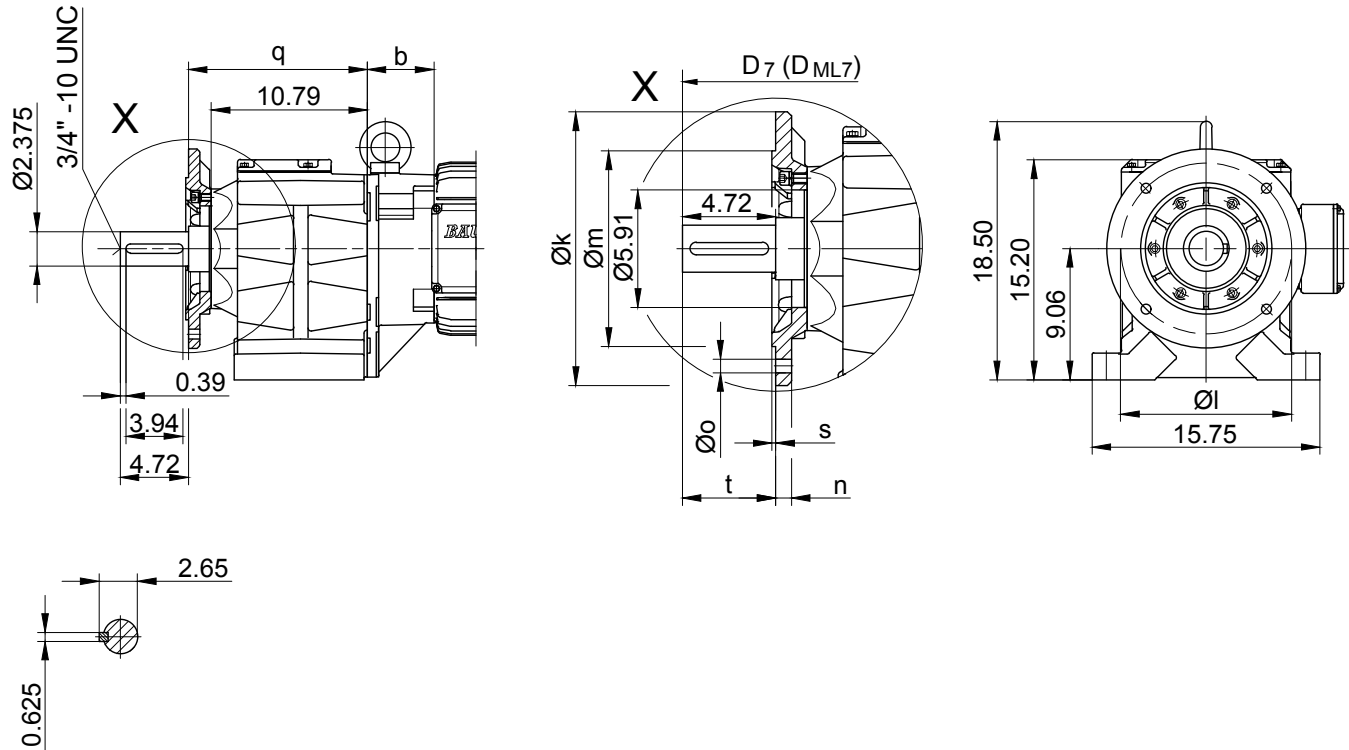
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG70 - BG70Z

Flange with clearance holes

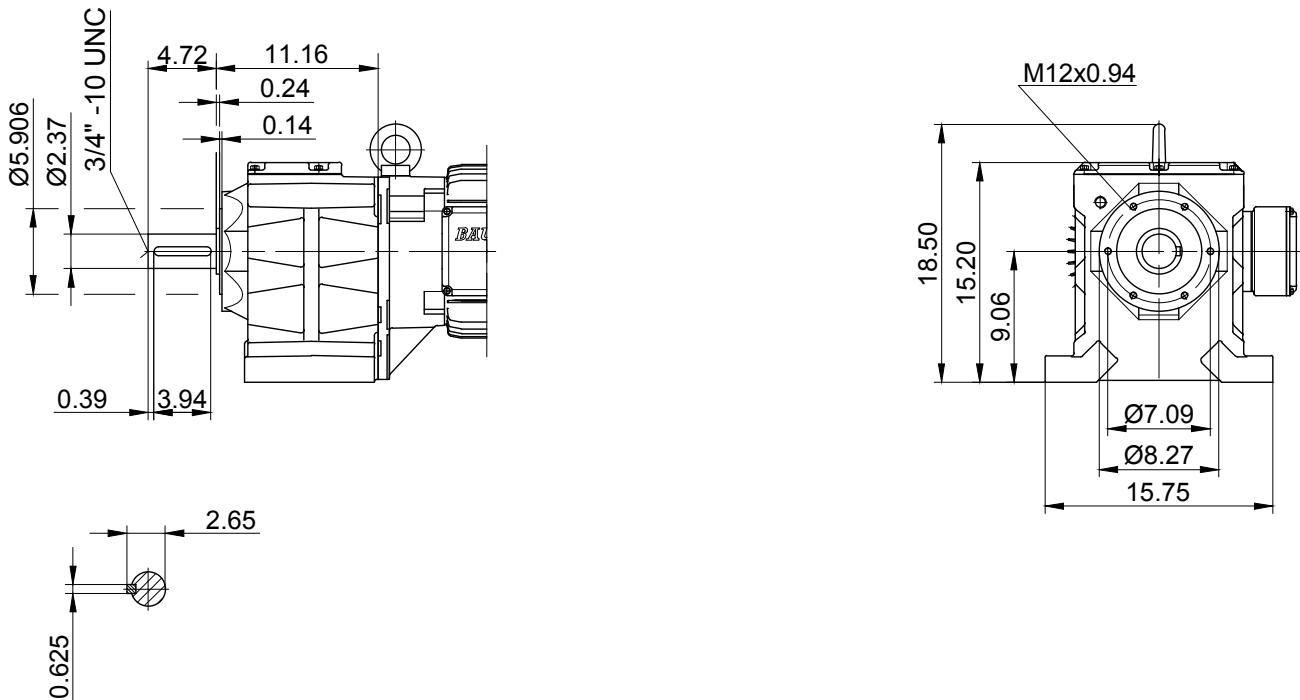
Code -37/

(Code -27/)



Flange with tapped holes

Code -71/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

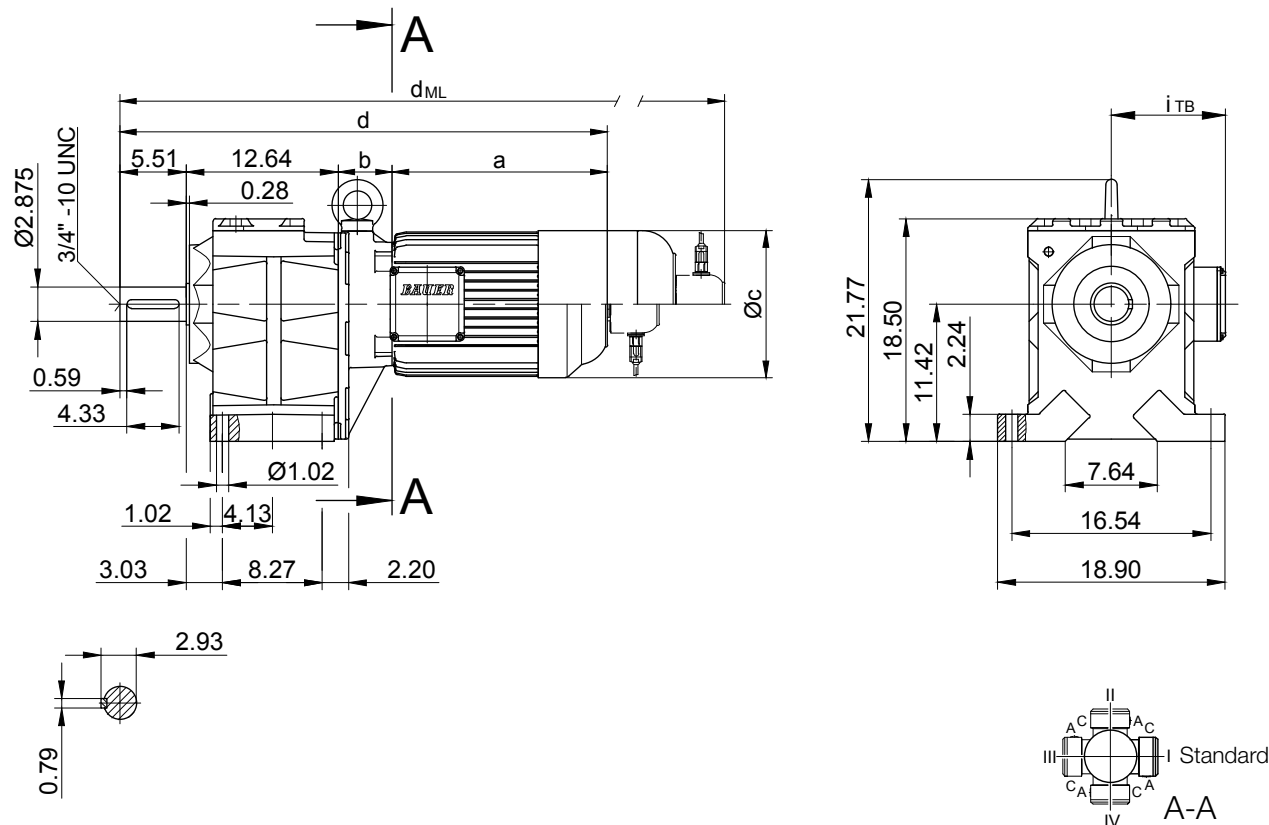
BG-series helical-geared motors

Dimension-Standard Imperial

BG80 - BG80Z

Foot mounting with clearance holes

Code -11/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG80..	Code -37/	15.748	13.780	11.811	0.787	-1,000	13.583	0.197	5.549	d+0.945	d _{ML} +0.945	
BG80..	Code -27/	13.780	11.811	9.843	0.787	-1,000	13.583	0.197	5.549	d+0.945	d _{ML} +0.945	
BG80..	Code -47/	17.717	15.748	13.780	0.866	-1,000	13.976	0.197	5.156	d+0.945	d _{ML} +0.945	

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG80Z-../D..09.A.	9.86	9.94	6.93	37.95	4.88	6.18	41.61	42.19	45.71	41.61
BG80Z-../D..09.B.	12.15	9.94	6.93	40.23	4.88	6.18	43.90	44.45	47.99	43.90
BG80-../D..11.A.	12.56	3.43	8.58	34.13	6.50	6.93	37.99	38.37	42.01	37.99
BG80Z-../D..11.A.	12.56	10.20	8.58	40.90	6.50	6.93	44.76	45.14	42.01	37.99
BG80-../D..11.B.	15.24	3.43	8.58	36.81	6.50	6.93	40.59	41.05	44.69	40.59
BG80Z-../D..11.B.	15.24	10.20	8.58	43.58	6.50	6.93	47.36	47.82	51.46	47.36
BG80-../D..13.A.	15.47	3.94	10.16	37.56	8.54	8.54	41.93	41.77	45.91	41.81
BG80Z-../D..13.A.	15.47	10.71	10.16	44.33	8.54	8.54	48.70	48.55	52.68	48.58
BG80-../D..16.B.	17.89	4.49	12.20	40.53	9.57	9.57	46.18	44.75	50.26	46.18
BG80Z-../D..16.B.	17.89	11.26	12.20	47.30	9.57	9.57	52.95	51.52	57.03	52.95
BG80-../D..18.B.	21.34	5.35	13.70	44.84	11.34	11.34	47.05	45.61	51.12	47.05
BG80Z-../D..18.B.	21.34	12.13	13.70	51.61	11.34	11.34	53.82	52.38	57.90	53.82
BG80-../D..20.A.	27.70	6.02	14.29	51.87	11.02	11.02	56.89	56.03	61.05	51.87
BG80Z-../D..22.A.	27.70	6.02	14.29	51.87	11.02	11.02	56.89	56.03	61,05	51,87

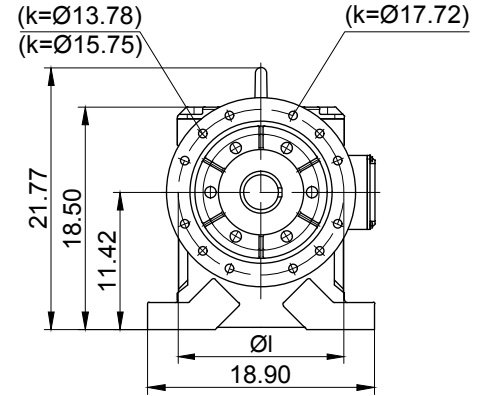
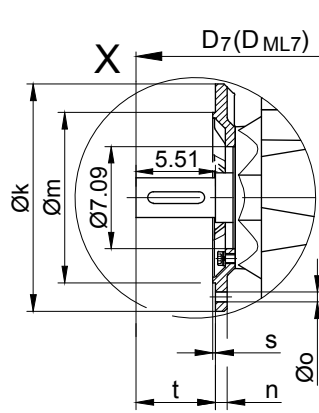
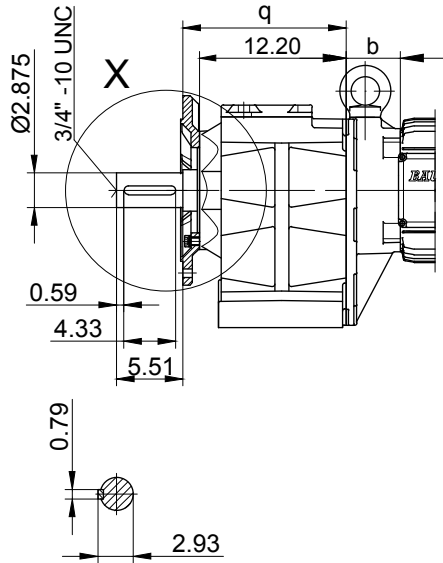
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG80 - BG80Z

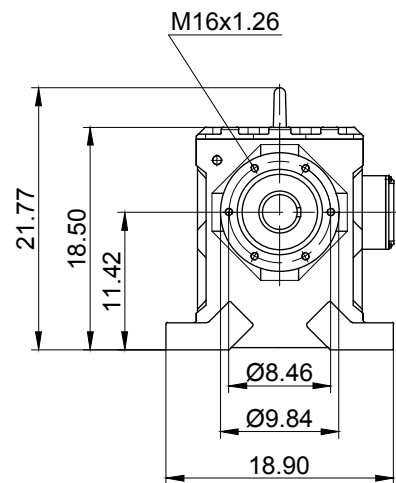
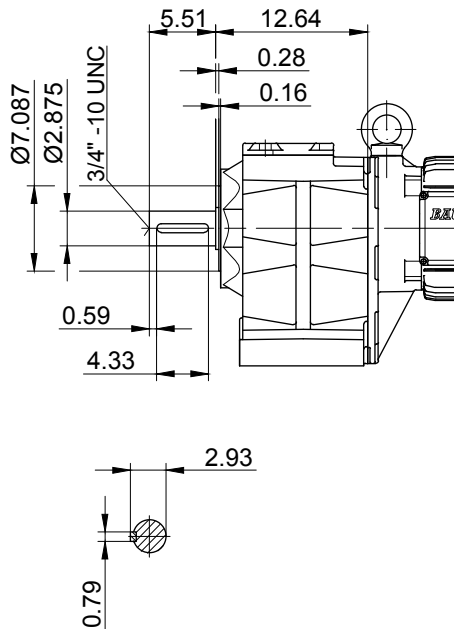
Flange with clearance holes

Code -37/
(Code -27/
(Code -47/)



Flange with tapped holes

Code -71/



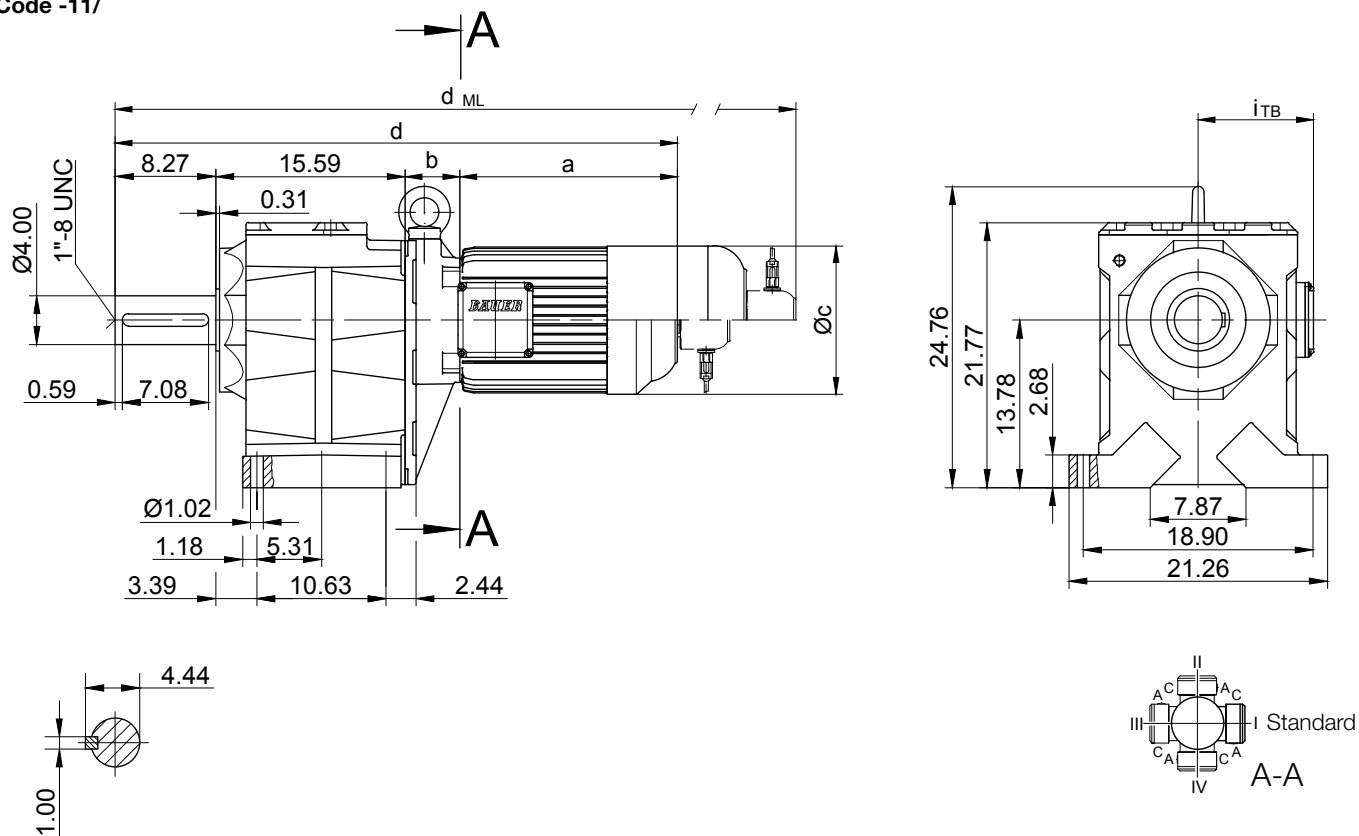
BG-series helical-geared motors

Dimension-Standard Imperial

BG90 - BG90Z

Foot mounting with clearance holes

Code -11/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG90..	Code -37/	17.717	15.748	13.780	0.866	0.689	17.283	0.197	8.309	d+1.693	d _{ML} +1.693	
BG90..	Code -47/	21.654	19.685	17.717	0.866	0.689	17.480	0.197	8.113	d+1.693	d _{ML} +1.693	

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG90Z-../D..09.A.	9.86	10.51	6.93	44.23	4.88	6.18	47.90	48.47	51.99	47.90
BG90Z-../D..09.B.	12.15	10.51	6.93	46.52	4.88	6.18	50.18	50.73	54.28	50.18
BG90Z-../D..11.A.	12.56	10.77	8.58	47.19	6.50	6.93	51.05	51.42	55.07	51.05
BG90Z-../D..11.B.	15.24	10.77	8.58	49.86	6.50	6.93	53.64	54.10	57.74	53.64
BG90-../D..13.A.	15.47	3.94	10.16	43.27	8.54	8.54	47.64	47.49	51.62	47.52
BG90Z-../D..13.A.	15.47	11.28	10.16	50.61	8.54	8.54	54.98	54.83	58.96	54.86
BG90-../D..16.B.	17.89	4.49	12.20	46.24	9.57	9.57	51.89	50.46	55.97	51.89
BG90Z-../D..16.B.	17.89	11.83	12.20	53.58	9.57	9.57	59.23	57.80	63.31	59.23
BG90-../D..18.B.	21.34	5.35	13.70	50.55	11.34	11.34	56.44	54.71	60.52	56.44
BG90Z-../D..18.B.	21.34	12.70	13.70	57.90	11.34	11.34	63.78	62.05	67.86	63.78
BG90-../D..20.A.	27.70	6.02	14.29	57.58	11.02	11.02	62.60	61.74	66.76	57.58
BG90-../D..22.A.	27.70	6.02	14.29	57.58	11.02	11.02	62.60	61.74	66.76	57.58

Dimensions in inch

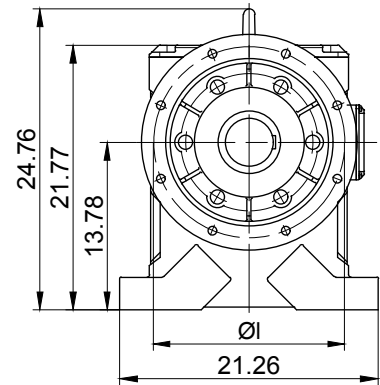
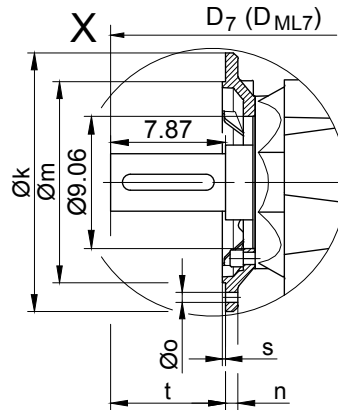
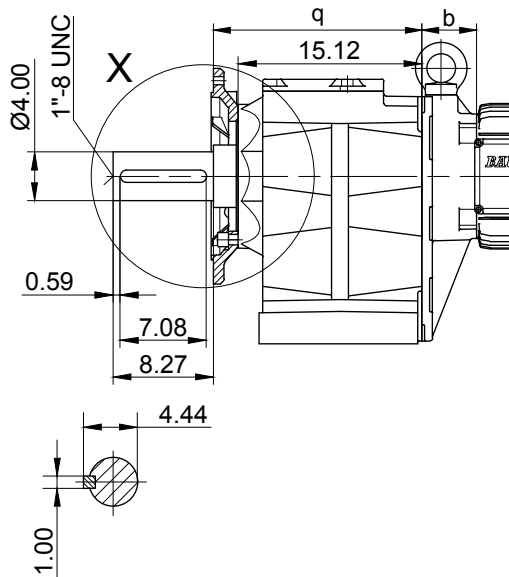
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG90 - BG90Z

Flange with clearance holes

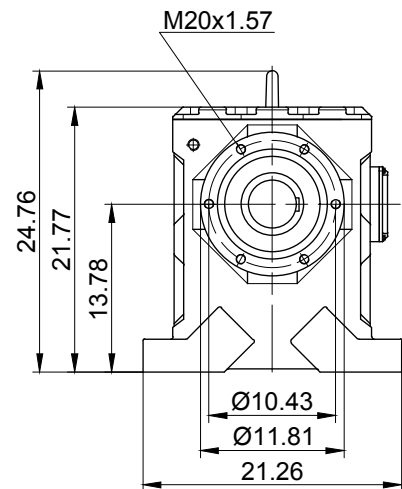
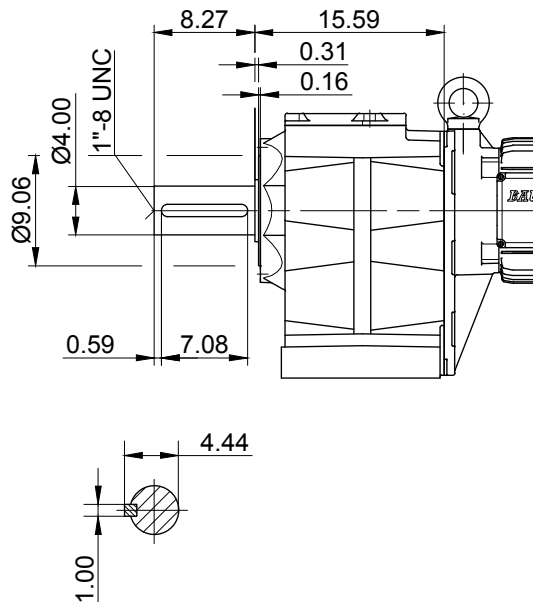
Code -37/

(Code -47/)



Flange with tapped holes

Code -71/

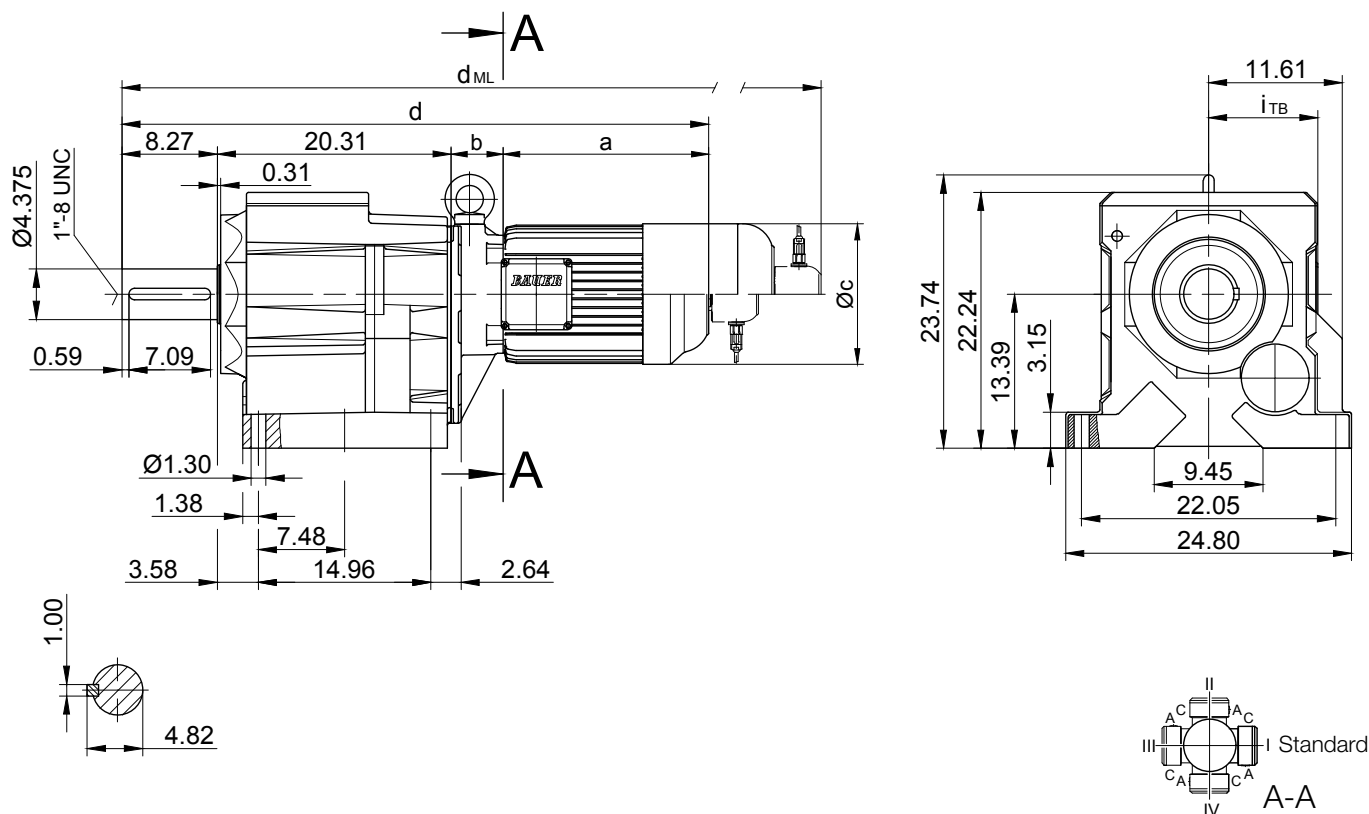


Dimension-Standard Imperial

BG100 - BG100Z

Foot mounting with clearance holes

Code -11/



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG100..	Code -37/	21.654	19.685	17.717	0.866	0.689	21.969	0.197	8.270	d+1.653	d _{ML} +1.653
BG100..	Code -47/	25.984	23.622	21.654	0.984	0.866	21.732	0.236	8.546	d+1.653	d _{ML} +1.653

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in

over 1.5 in diameter: $\pm 0.000 / -0.001$ in

Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG100Z-../D..09.A.	9.86	9.94	6.93	48.39	4.88	6.18	52.05	52.62	56.15	52.05
BG100Z-../D..09.B.	12.15	9.94	6.93	50.67	4.88	6.18	54.33	54.89	58.43	54.33
BG100-../D..11.A.	12.56	3.43	8.58	44.57	6.50	6.93	48.43	48.81	52.45	48.43
BG100Z-../D..11.A.	12.56	10.20	8.58	51.34	6.50	6.93	55.20	55.58	59.22	55.20
BG100-../D..11.B.	15.24	3.43	8.58	47.25	6.50	6.93	51.03	51.48	55.12	51.03
BG100Z-../D..11.B.	15.24	10.20	8.58	54.02	6.50	6.93	57.80	58.25	61.90	57.80
BG100-../D..13.A.	15.47	3.94	10.16	47.99	8.54	8.54	52.36	52.21	56.34	52.25
BG100Z-../D..13.A.	15.47	10.71	10.16	54.77	8.54	8.54	59.14	58.98	63.12	59.02
BG100-../D..16.B.	17.89	4.49	12.20	50.97	9.57	9.57	56.62	55.18	60.70	56.62
BG100Z-../D..16.B.	17.89	11.26	12.20	57.74	9.57	9.57	63.39	61.96	67.47	63.39
BG100-../D..18.B.	21.34	5.35	13.70	55.28	11.34	11.34	57.48	59.44	61.56	57.48
BG100Z-../D..18.B.	21.34	12.13	13.70	62.05	11.34	11.34	67.94	66.21	72.01	67.94
BG100-../D..20.A.	27.70	6.02	14.29	62.31	11.02	11.02	67.33	66.46	71.48	62.31
BG100-../D..22.A.	27.70	6.02	14.29	62.31	11.02	11.02	67.33	66.46	71.48	62.31

Dimensions in inch

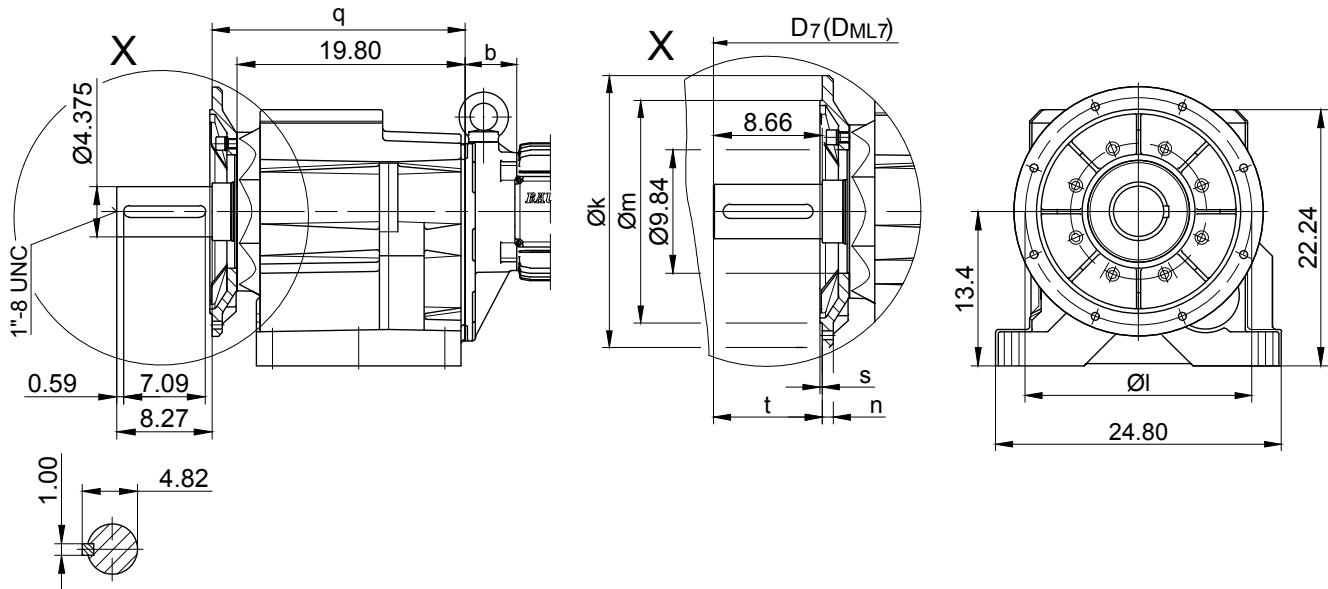
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG100 - BG100Z

Flange with clearance holes

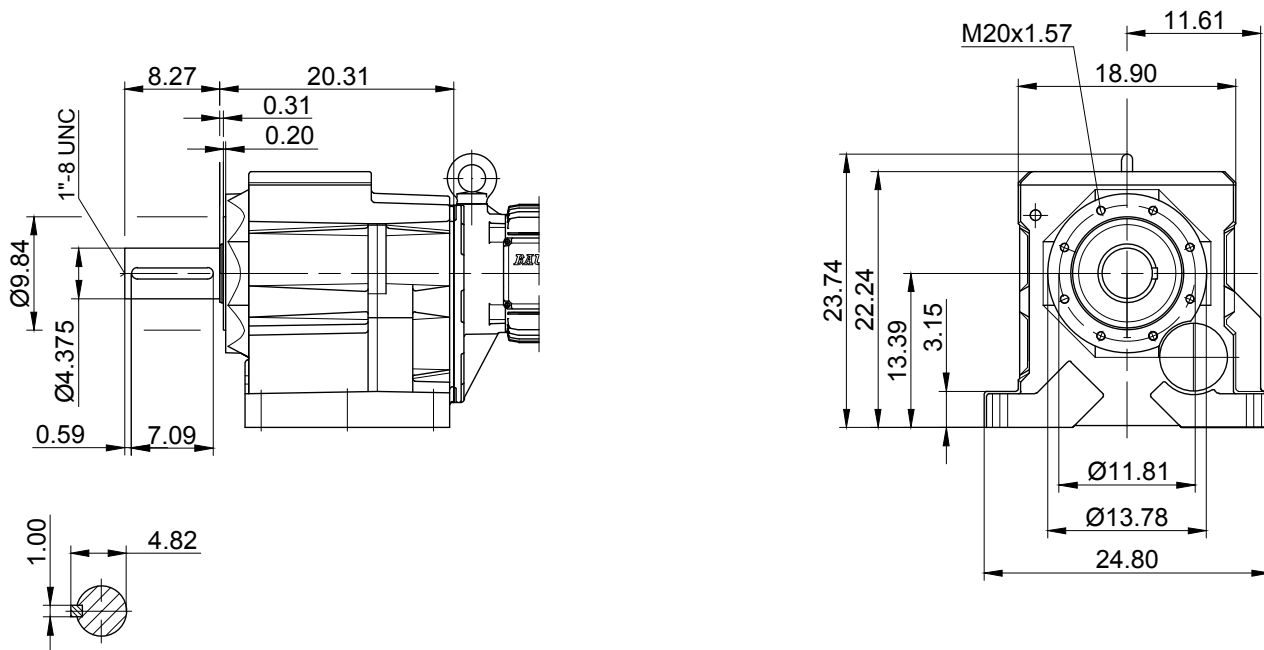
Code -37/

(Code -47/)



Flange with tapped holes

Code -71/



Energy Efficient Geared Motors

AC Line Operated / North America

10

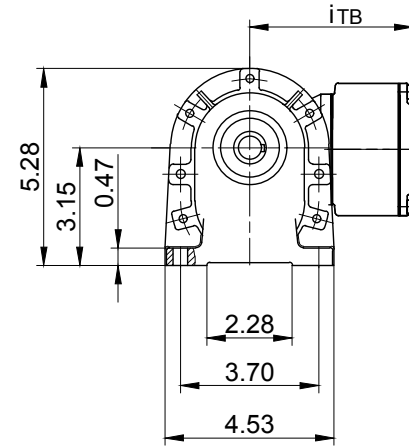
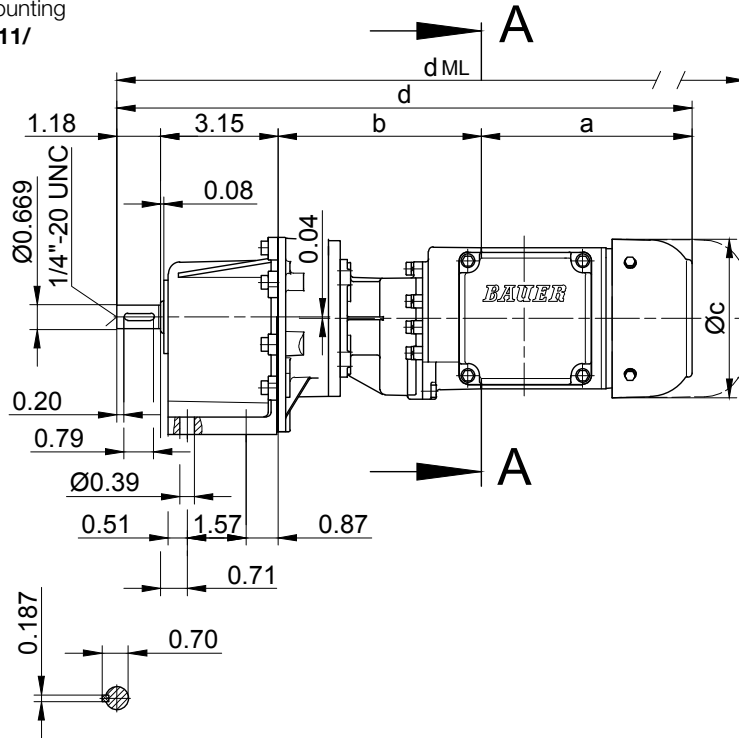
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG06G04

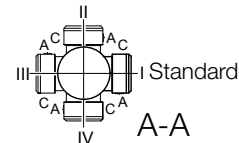
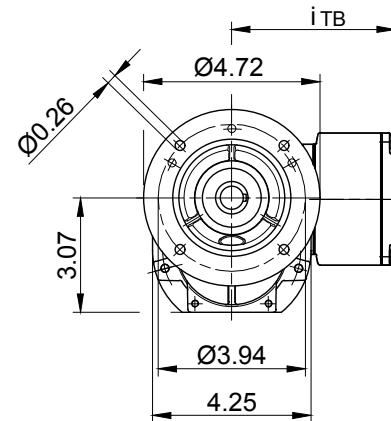
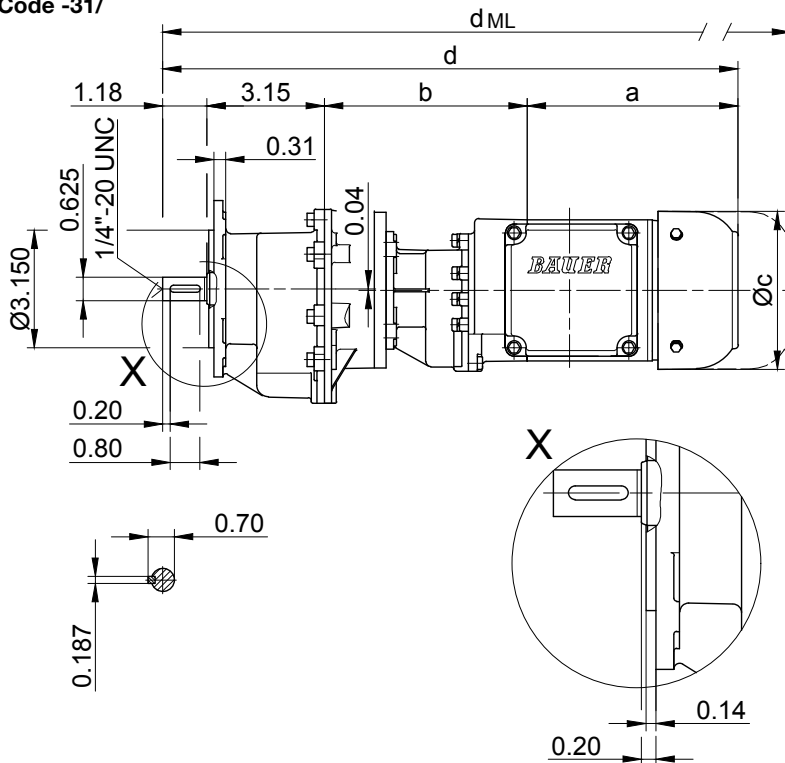
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BG06G04-../D04.A.	6,70	7,76	4.84	21,70	3.90	4.69	d _{ML} 23,35	d _{ML} 25,74	d _{ML} 27,21	-

Dimensions in inch

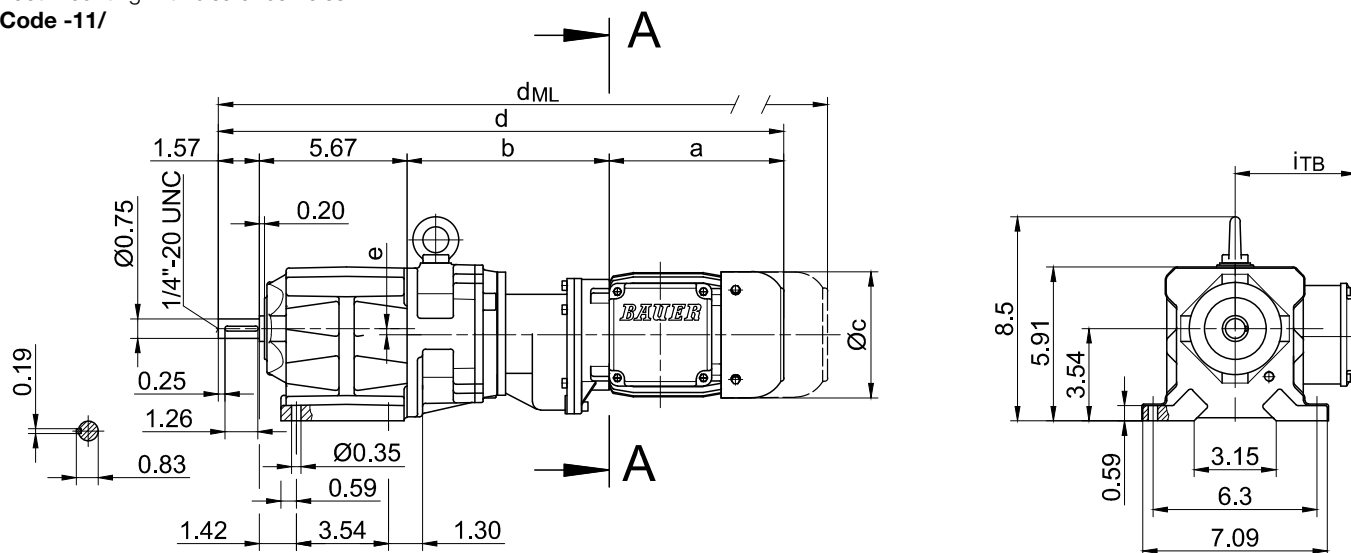
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension -Tandem Gearbox Imperial

BG10G06

Foot mounting with clearance holes

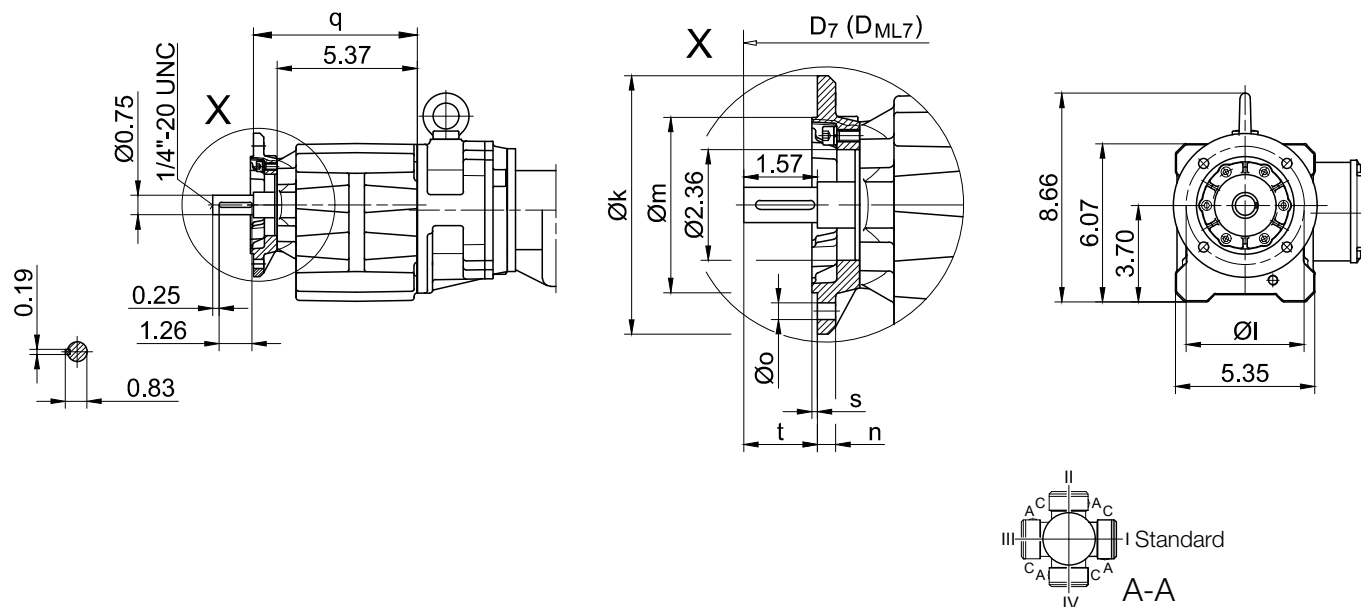
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG10..	Code -37V/	5,512	4,528	3,740	0,394	0,354	6,280	0,118	1,590	d+0,610	d _{ML} +0,610	
BG10..	Code -27V/	4,724	3,937	3,150	0,315	0,260	6,083	0,118	1,787	d+0,610	d _{ML} +0,610	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG10G06-../D04.A.	5.61	7.68	4.35	20.53	3.54	4.41	22.24	23.97	25.68	-
BG10G06-../D..05.A.	6.72	7.76	4.84	21.71	3.98	4.61	23.37	25.75	27.22	-
BG10G06-../D..06.A.	6.70	7.76	4.84	21.70	3.90	4.69	23.35	25.74	27.21	-
BG10G06-../D..07.A.	7.49	7.76	4.84	22.49	3.90	4.69	24.14	26.52	28.00	-
BG10G06-../D..08.A.	7.85	9.49	6.14	24.58	4.51	5.37	27.18	28.99	31.41	27.18
BG10G06-../D..08.B.	9.04	9.49	6.14	25.76	4.51	5.37	28.36	30.17	32.57	28.36

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

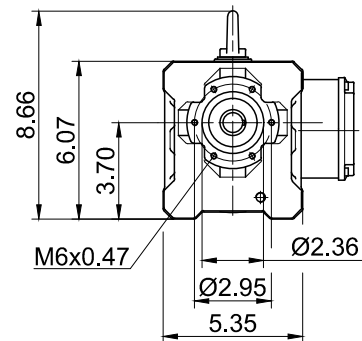
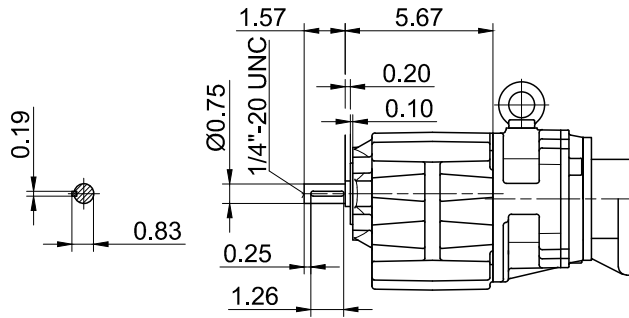
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG10G06

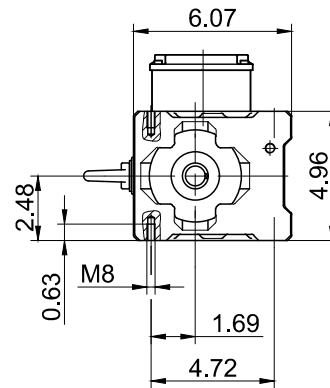
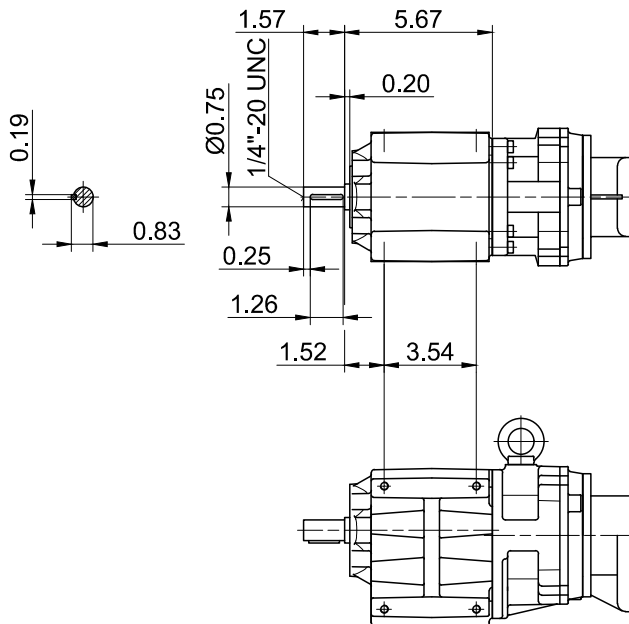
Flange with tapped holes

Code -71/



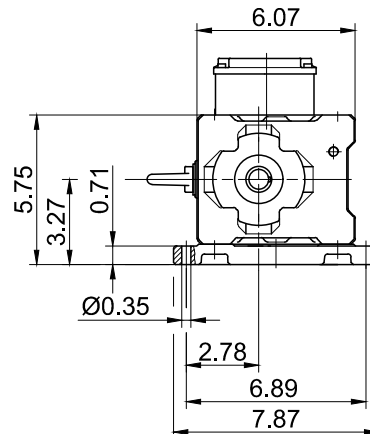
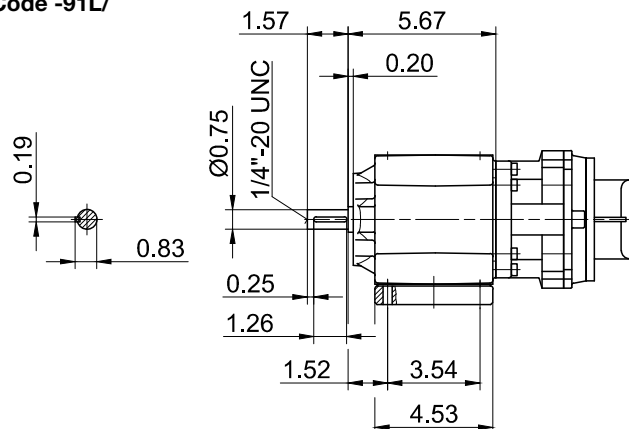
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

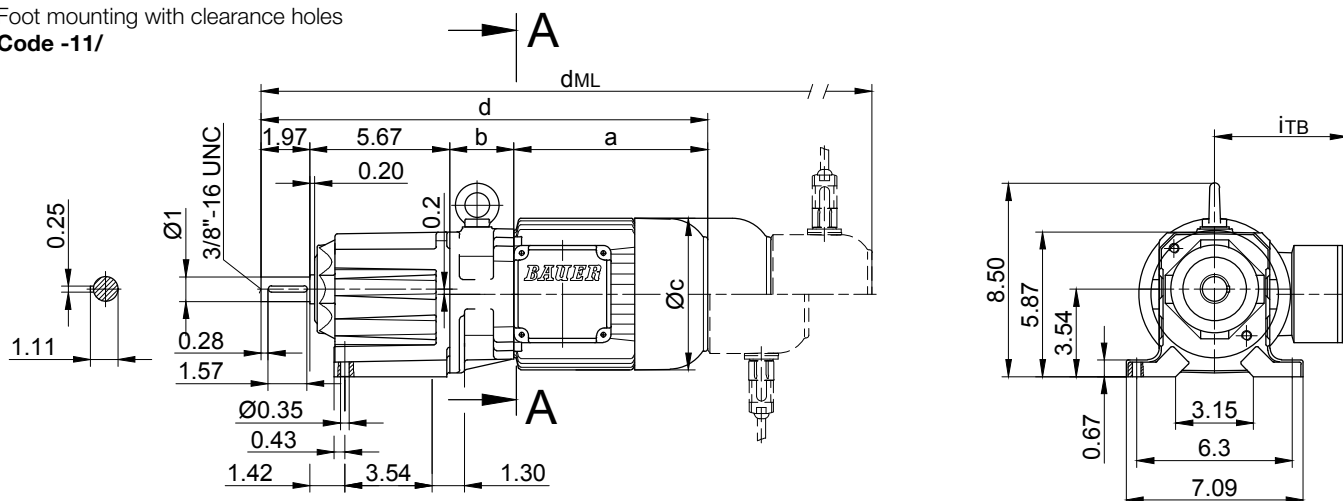
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG10XG06

Foot mounting with clearance holes

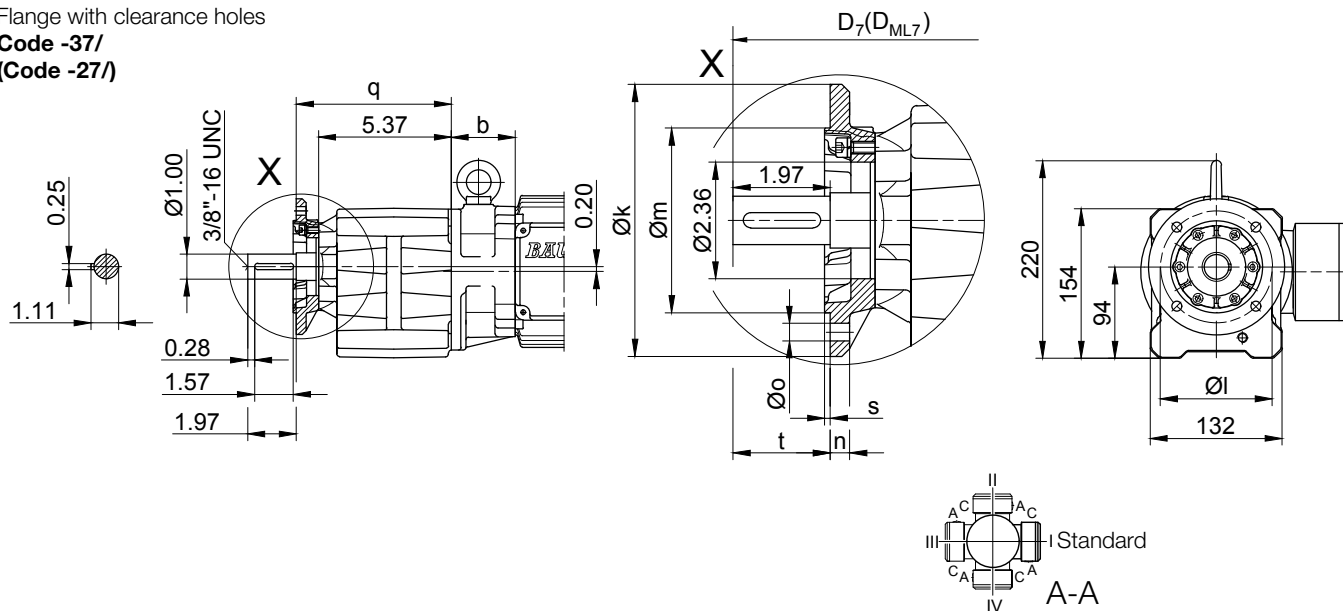
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG10X..	Code -37V/	5,512	4,528	3,740	0,394	0,354	6,280	0,118	1,990	d+0,610	d _{ML} +0,610	
BG10X..	Code -27V/	4,724	3,937	3,150	0,315	0,260	6,083	0,118	2,187	d+0,610	d _{ML} +0,610	

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG10XG06-../D04.A.	5.61	7.68	4.35	20.93	3.54	4.41	22.24	24.37	26.08	-
BG10XG06-../D..05.A.	6.72	7.76	4.84	22.11	3.98	4.61	23.77	26.15	27.62	-
BG10XG06-../D..06.A.	6.70	7.76	4.84	22.10	3.90	4.69	23.75	26.14	27.61	-
BG10XG06-../D..07.A.	7.49	7.76	4.84	22.89	3.90	4.69	24.54	26.92	28.40	-
BG10XG06-../D..08.A.	7.85	9.49	6.14	24.98	4.51	5.37	27.58	29.39	31.81	27.58
BG10XG06-../D..08.B.	9.04	9.49	6.14	26.16	4.51	5.37	28.76	30.57	32.97	28.76

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

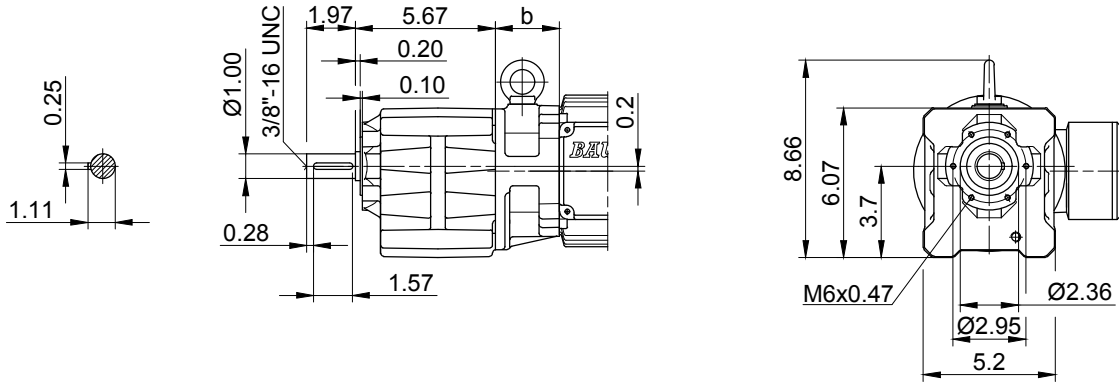
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG10XG06

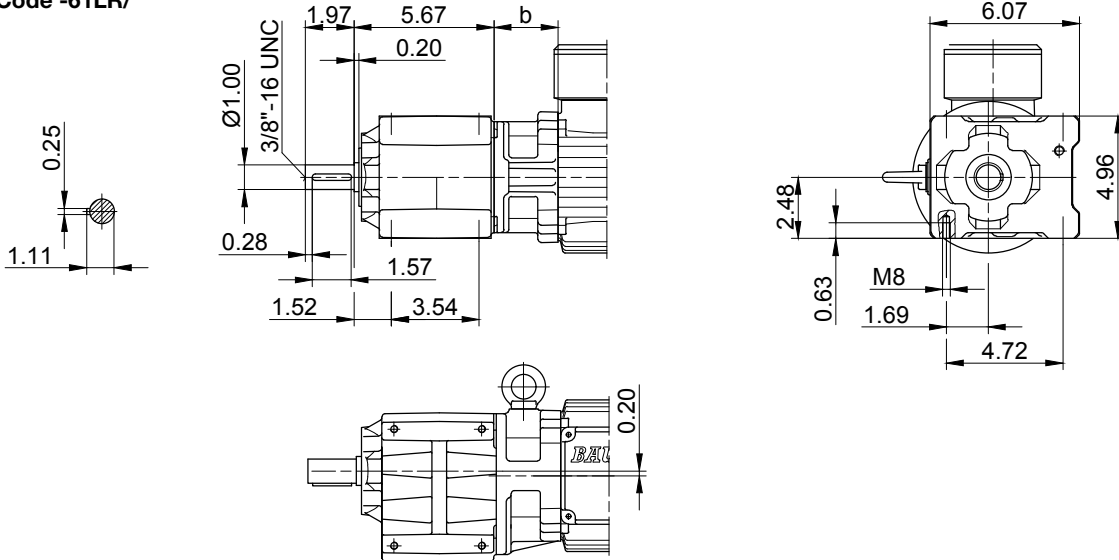
Flange with tapped holes

Code -71/



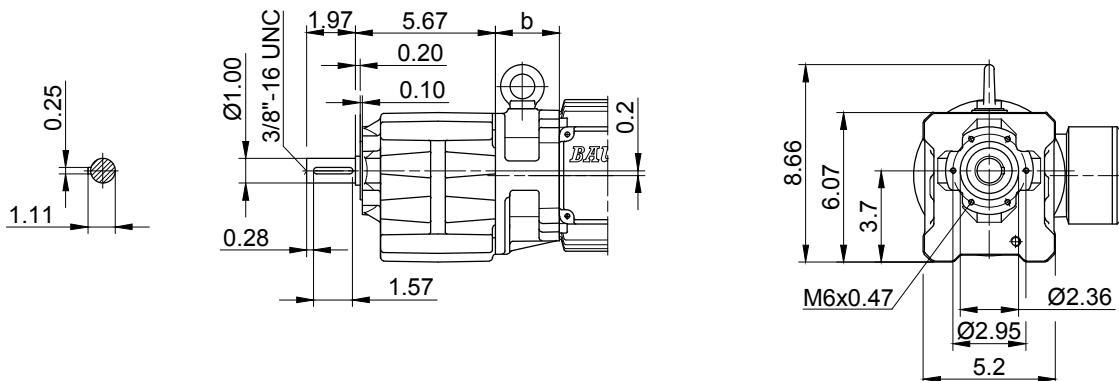
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

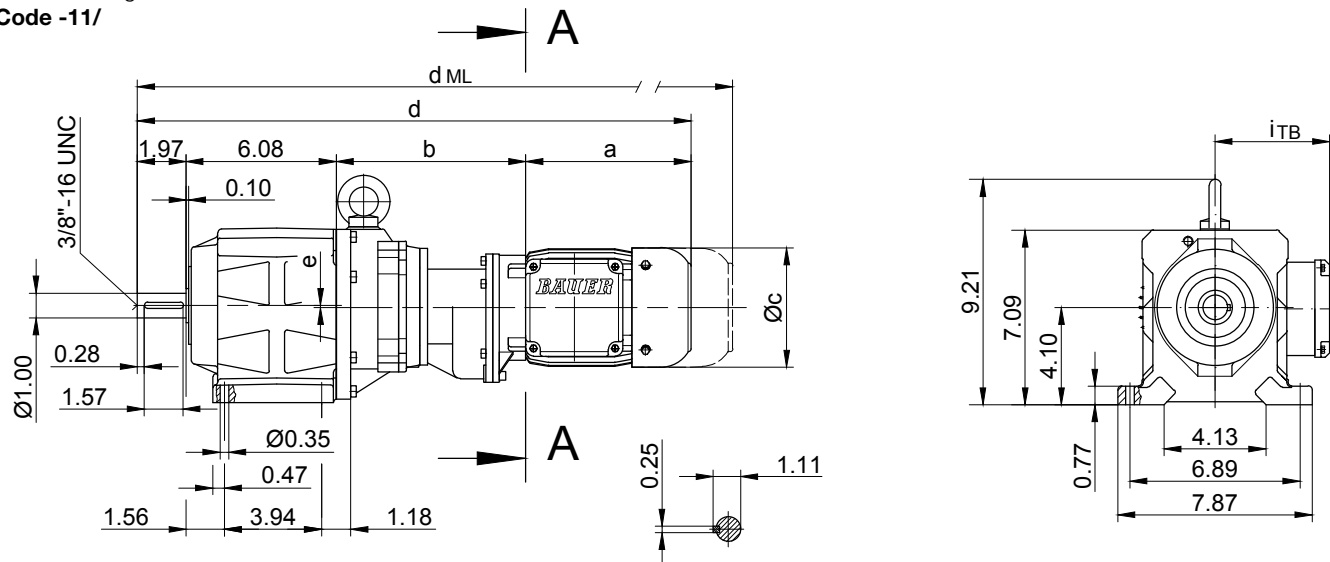
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG20G06

Foot mounting with clearance holes

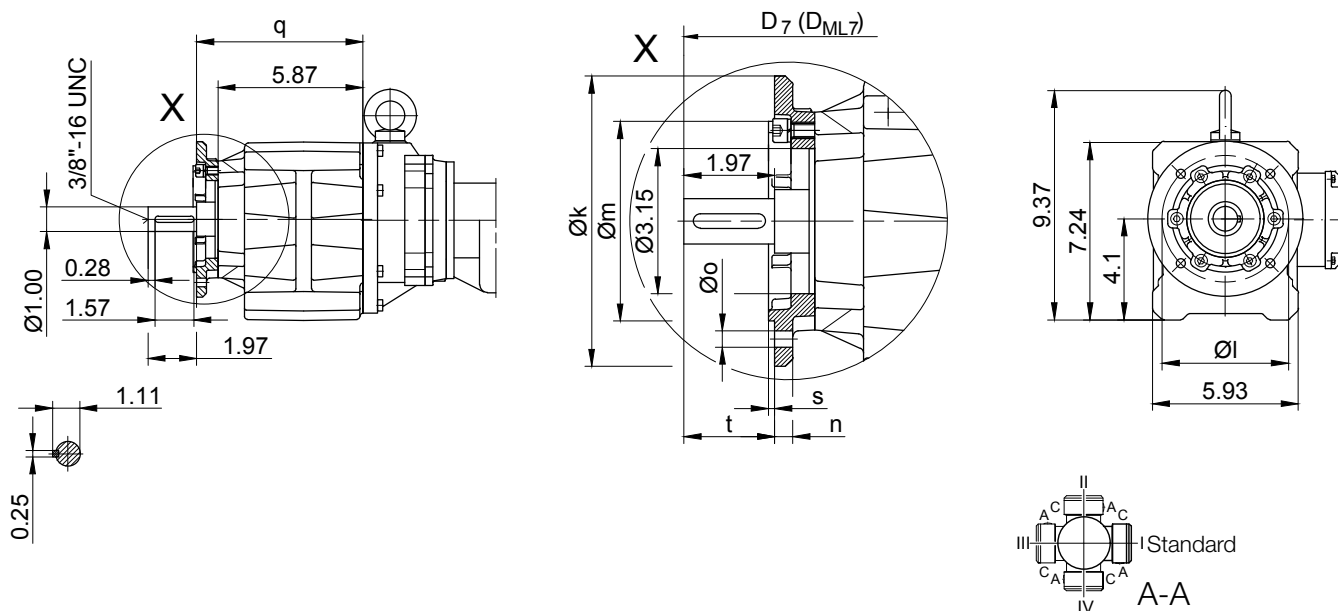
Code -11/



Flange with clearance holes

Code -37/

(Code -47/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG20..	Code -37V/	6,299	5,118	4,331	0,394	0,354	6,732	0,138	1,990	d+0,650	d _{ML} +0,650	
BG20..	Code -47V/	7,874	6,496	5,118	0,472	0,433	7,008	0,138	1,714	d+0,650	d _{ML} +0,650	

Dimensions in inch

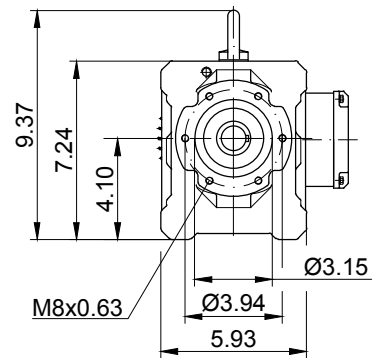
Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG20G06-.../D04.A.	5.61	7.60	4.35	21.26	3.54	4.41	22.97	24.70	26.41	-
BG20G06-.../D..05.A.	6.72	7.68	4.84	22.45	3.98	4.61	24.10	26.48	27.96	-
BG20G06-.../D..06.A.	6.70	7.68	4.84	22.43	3.90	4.69	24.09	26.47	27.95	-
BG20G06-.../D..07.A.	7.49	7.68	4.84	23.22	3.90	4.69	24.88	27.26	28.73	-
BG20G06-.../D..08.A.	7.85	9.41	6.14	25.32	4.51	5.37	27.91	29.73	32.15	27.91
BG20G06-.../D..08.B.	9.04	9.41	6.14	26.50	4.51	5.37	29.10	30.91	33.31	29.10

Dimensions in inch

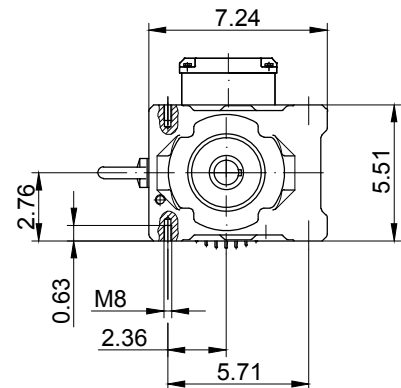
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension -Tandem Gearbox Imperial

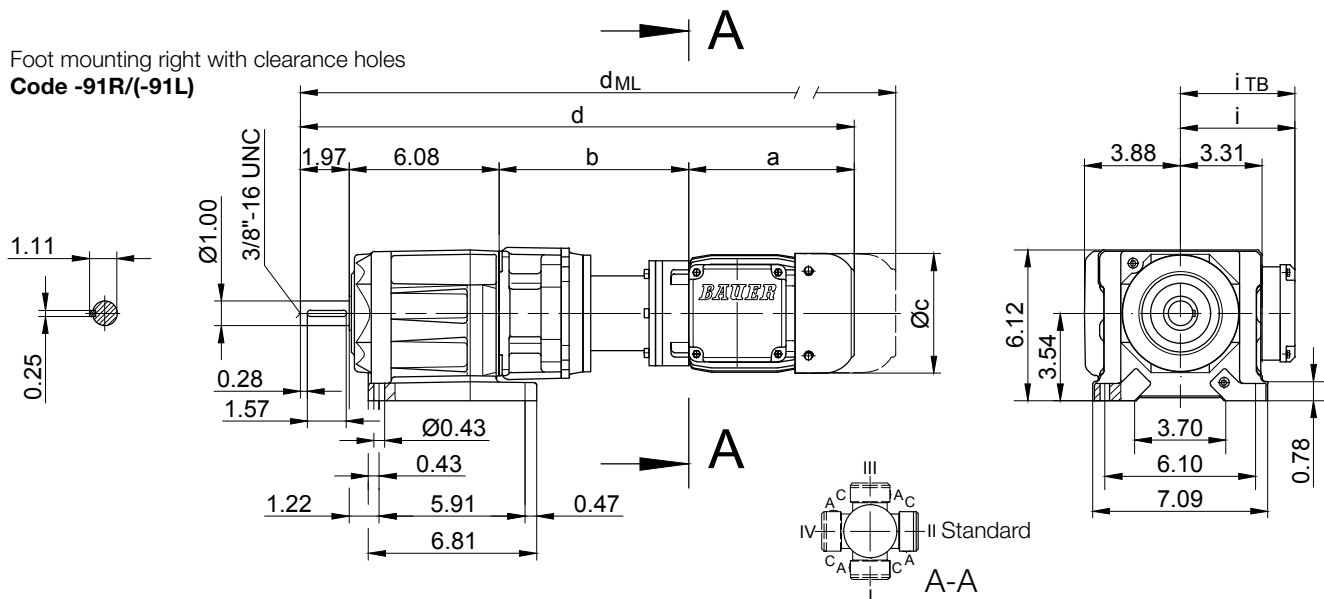
Code -71/



Code -61LR/



Code -91R/(-91L)



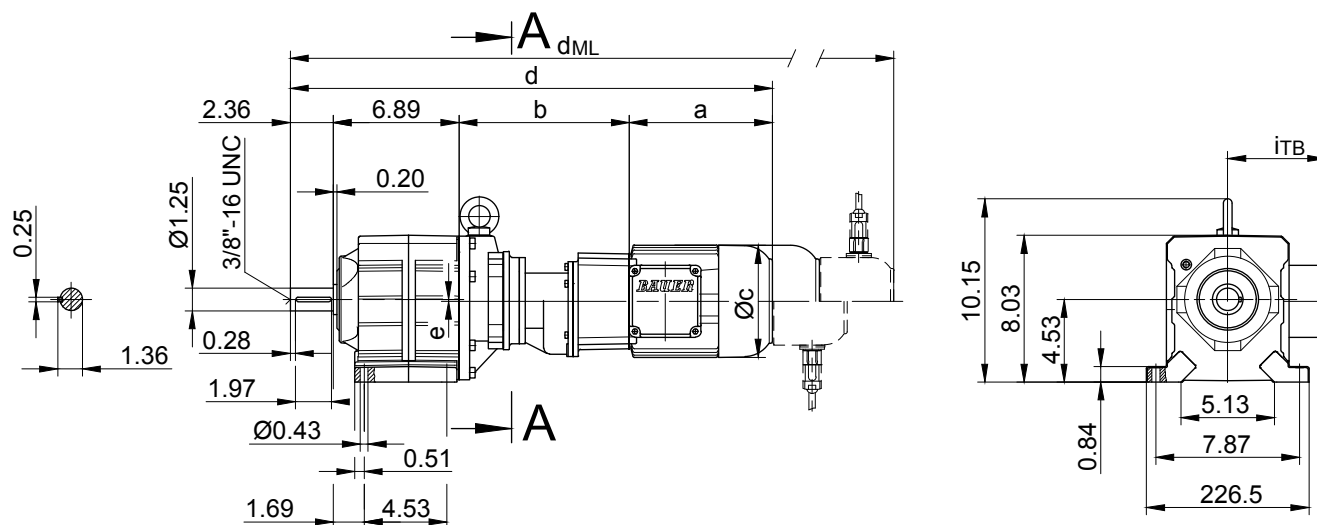
297

Dimension -Tandem Gearbox Imperial

BG30G06

Foot mounting with clearance holes

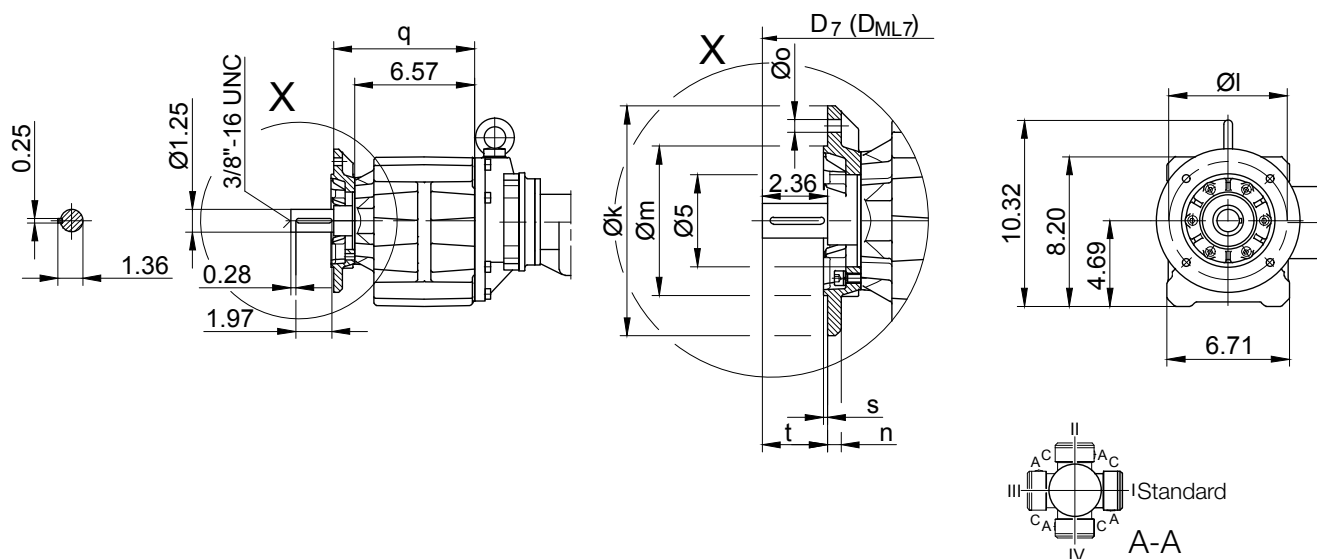
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG30..	Code -37/	7,874	6,496	5,118	0,472	0,433	7,717	0,138	2,380	d+0,827	d _{ML} +0,827	
BG30..	Code -27/	6,299	5,118	4,331	0,394	0,354	7,441	0,138	2,655	d+0,827	d _{ML} +0,827	
Dimensions in inch												

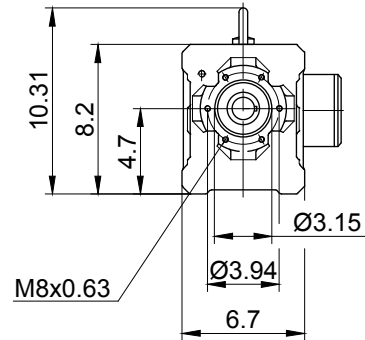
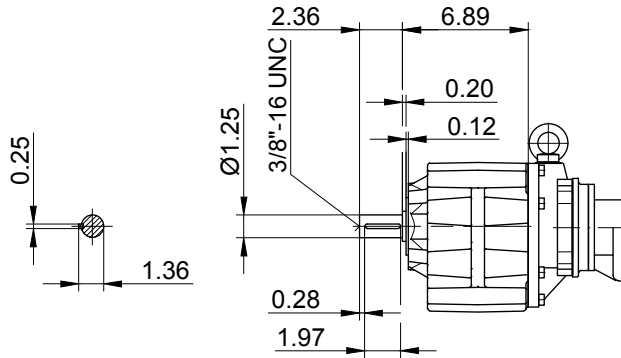
Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG30G06-../D04.A.	5.61	7.52	4.35	22.38	3.54	4.41	24.09	25.82	27.53	-
BG30G06-../D..05.A.	6.72	7.60	4.84	23.56	3.98	4.61	25.22	27.60	29.08	-
BG30G06-../D..06.A.	6.70	7.60	4.84	23.55	3.90	4.69	25.21	27.59	29.06	-
BG30G06-../D..07.A.	7.49	7.60	4.84	24.34	3.90	4.69	25.99	28.38	29.85	-
BG30G06-../D..08.A.	7.85	9.33	6.14	26.43	4.51	5.37	29.03	30.84	33.27	29.03
BG30G06-../D..08.B.	9.04	9.33	6.14	27.62	4.51	5.37	30.21	32.03	34.43	30.21

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG30G06

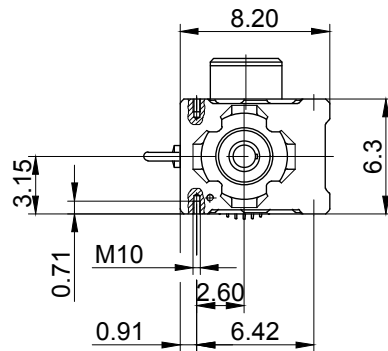
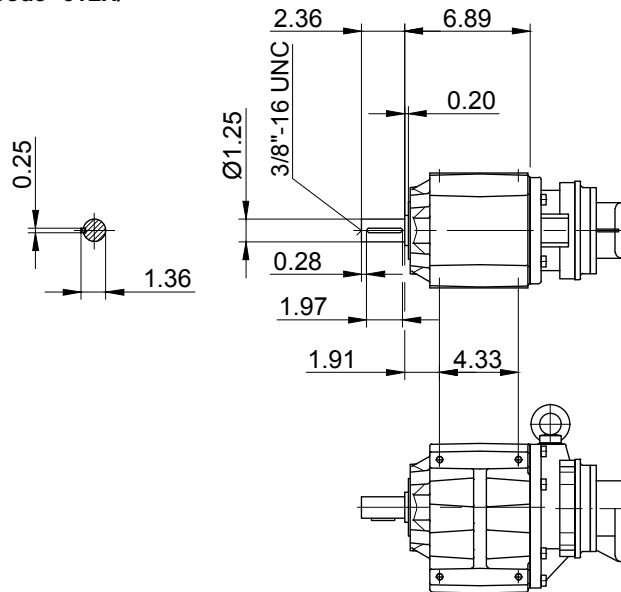
Flange with tapped holes

Code -71/



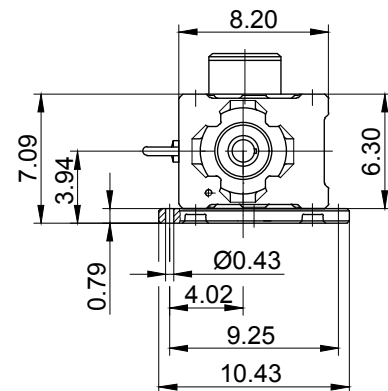
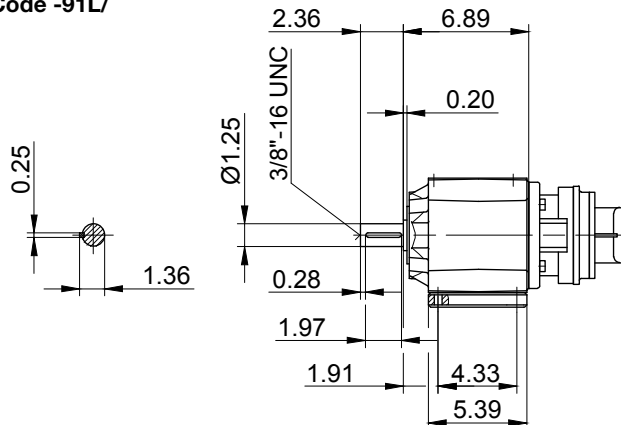
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

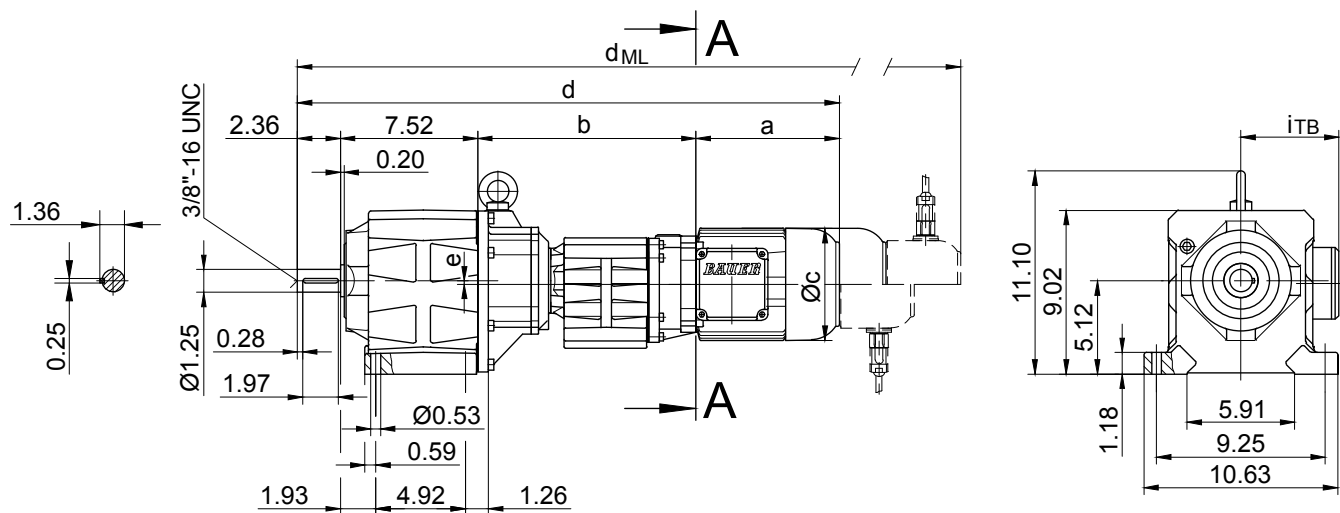
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG40G10

Foot mounting with clearance holes

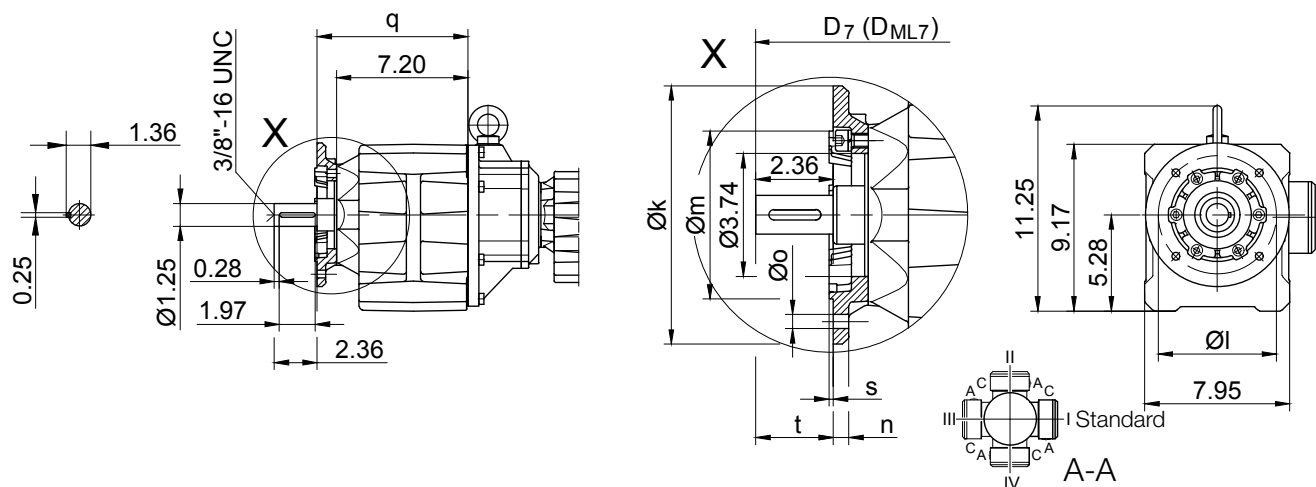
Code -11/



Flange with clearance holes

Code -37/

(Code -47/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in	
Type	Design	k	l	m	n	o	q	s	t	D ₇		D _{ML7}
BG40..	Code -37/	7,874	6,496	5,118	0,472	0,433	8,268	0,138	2,399	d+0,748		d _{ML} +0,748
BG40..	Code -47/	9,843	8,465	7,087	0,630	0,531	8,622	0,157	2,045	d+0,748		d _{ML} +0,748
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG40G10-.../D..05.A.	6.72	11.81	4.84	28.41	3.98	4.61	30.06	32.44	33.92	-
BG40G10-.../D..06.A.	6.70	11.81	4.84	28.40	3.90	4.69	30.05	32.43	33.91	-
BG40G10-.../D..07.A.	7.49	11.81	4.84	29.18	3.90	4.69	30.84	33.22	34.69	-
BG40G10-.../D..08.A.	7.85	11.97	6.14	29.70	4.51	5.37	32.30	34.11	36.53	32.30
BG40G10-.../D..08.B.	9.04	11.97	6.14	30.88	4.51	5.37	33.48	35.29	37.69	33.48
BG40G10-.../D..09.A.	9.86	12.54	6.93	32.28	4.88	6.18	35.94	36.52	40.04	35.94
BG40G10-.../D..09.B.	12.15	12.54	6.93	34.56	4.88	6.18	38.23	38.78	42.32	38.23
Dimensions in inch										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

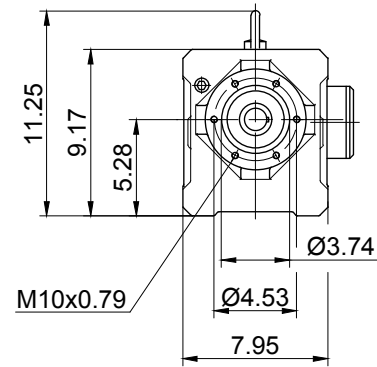
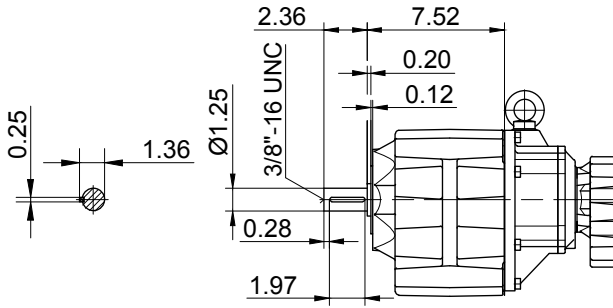
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG40G10

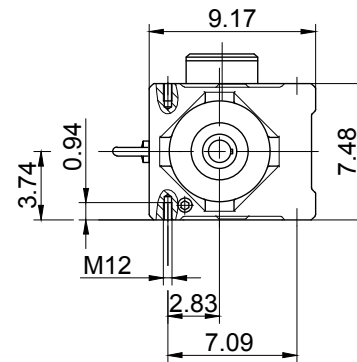
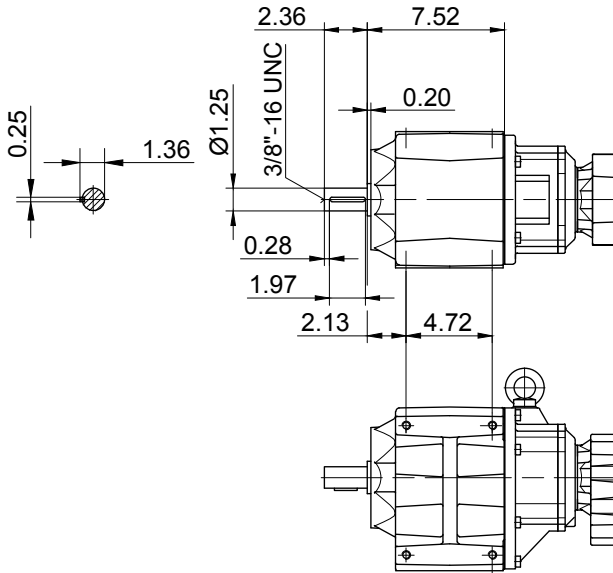
Flange with tapped holes

Code -71/



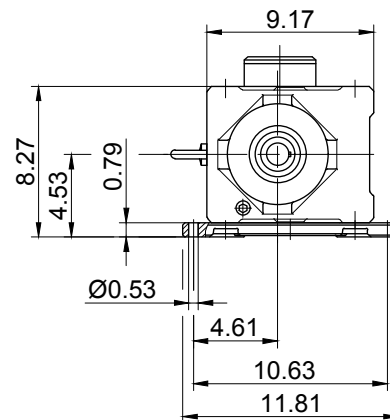
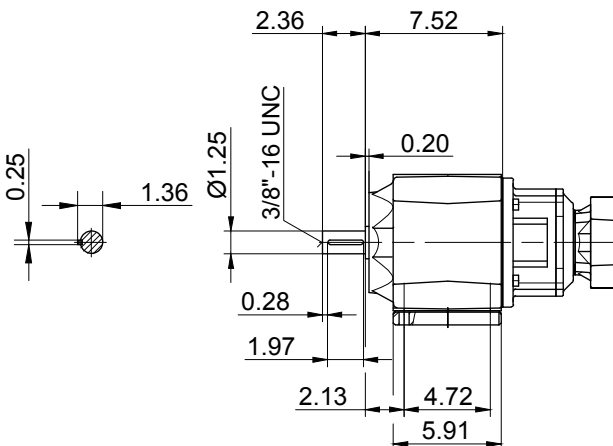
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

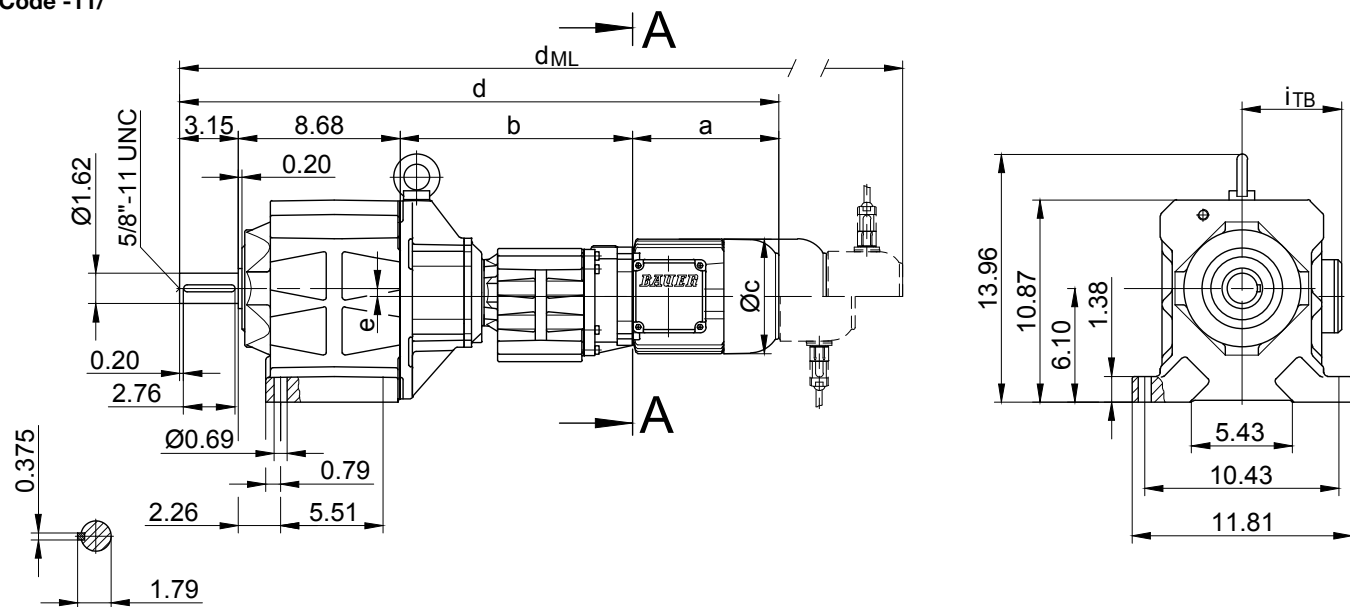
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG50G10

Foot mounting with clearance holes

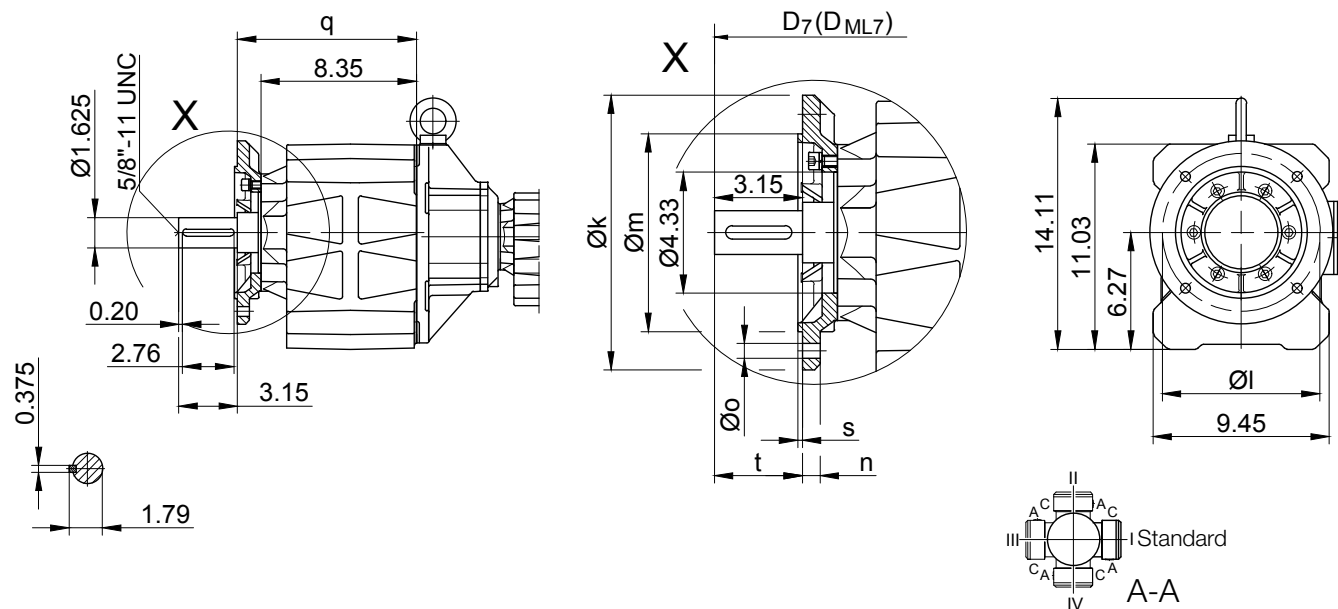
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	
BG50..	Code -37/	9,843	8,465	7,087	0,630	0,531	9,606	0,157	3,170	d+0,925	
BG50..	Code -27/	7,874	6,496	5,118	0,472	0,433	9,488	0,138	3,288	d+0,925	

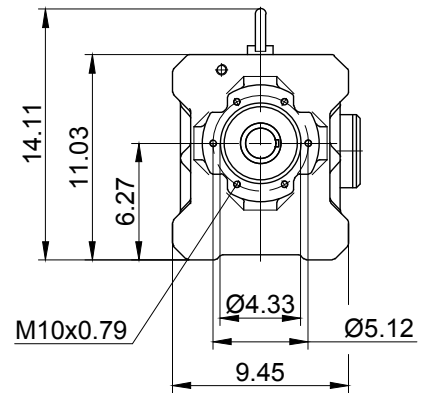
Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG50G10-.../D..05.A.	6.72	12.32	4.84	30.87	3.98	4.61	32.52	34.91	36.38	-
BG50G10-.../D..06.A.	6.70	12.32	4.84	30.86	3.90	4.69	32.51	34.89	36.37	-
BG50G10-.../D..07.A.	7.49	12.32	4.84	31.65	3.90	4.69	33.30	35.68	37.16	-
BG50G10-.../D..08.A.	7.85	12.48	6.14	32.17	4.51	5.37	34.76	36.58	39.00	34.76
BG50G10-.../D..08.B.	9.04	12.48	6.14	33.35	4.51	5.37	35.95	37.76	40.16	35.95
BG50G10-.../D..09.A.	9.86	13.05	6.93	34.74	4.88	6.18	38.41	38.98	42.50	38.41
BG50G10-.../D..09.B.	12.15	13.05	6.93	37.03	4.88	6.18	40.69	41.24	44.79	40.69

Dimensions in inch

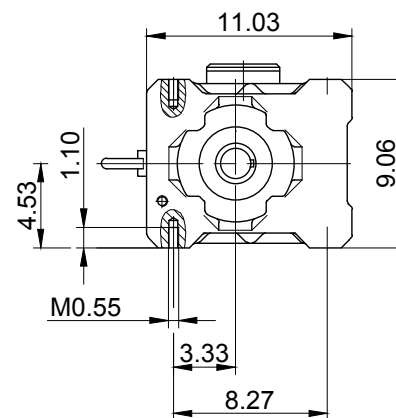
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension -Tandem Gearbox Imperial

Code -71/



Code -61LR/



303

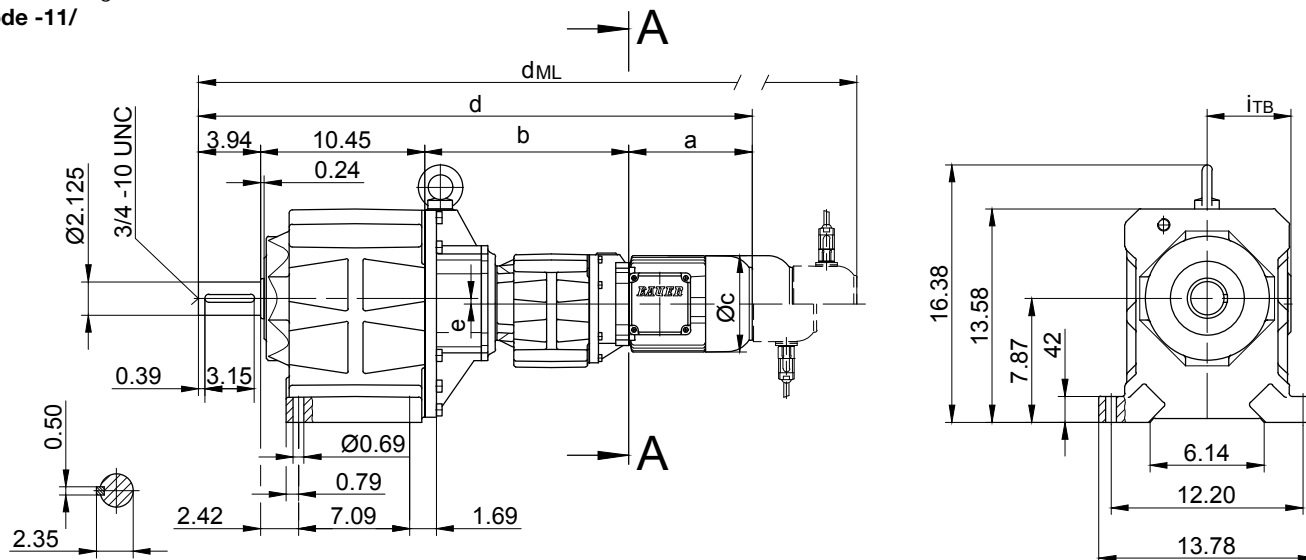
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG60G20

Foot mounting with clearance holes

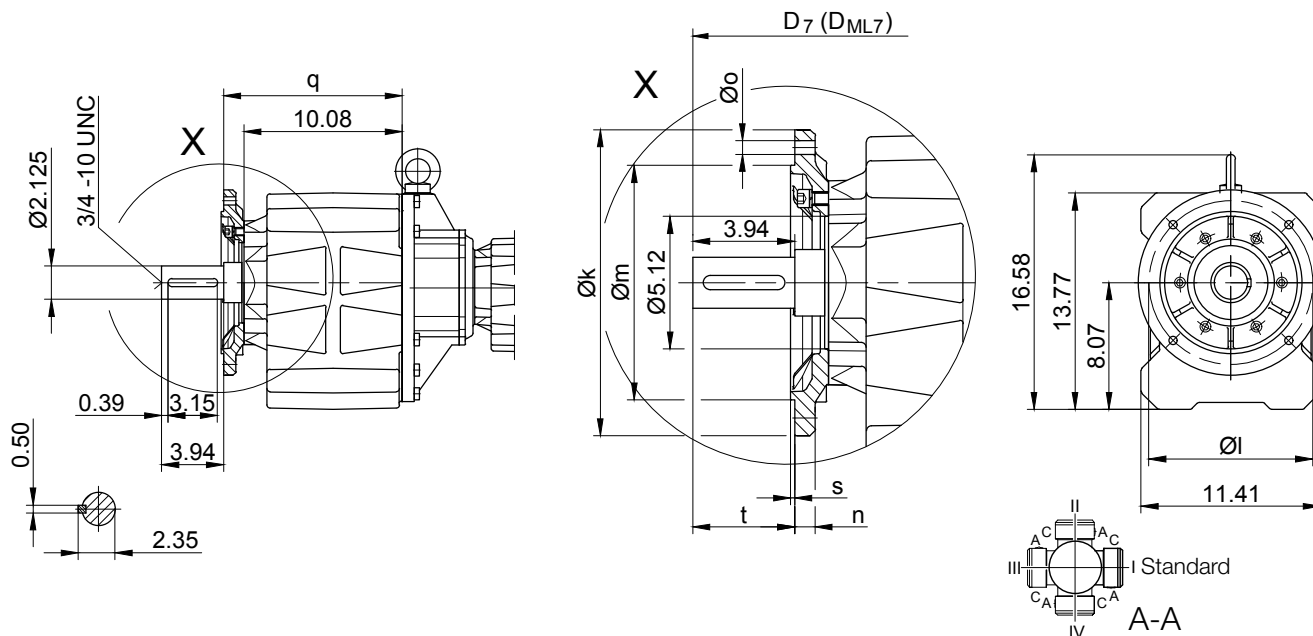
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	
BG60..	Code -37/	11,811	10,433	9,055	0,787	0,531	11,378	0,157	3,960	d+0,925	
BG60..	Code -27/	9,843	8,465	7,087	0,630	0,531	11,260	0,157	4,078	d _{ML} +0,925	

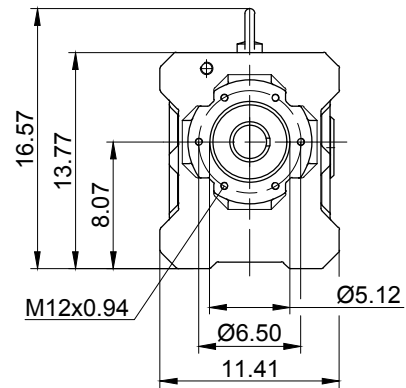
Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG60G20-.../D..05.A.	6.72	12.83	4.84	33.94	3.98	4.61	35.60	37.98	39.46	-
BG60G20-.../D..06.A.	6.70	12.83	4.84	33.93	3.90	4.69	35.59	37.97	39.44	-
BG60G20-.../D..07.A.	7.49	12.83	4.84	34.72	3.90	4.69	36.37	38.75	40.23	-
BG60G20-.../D..08.A.	7.85	12.99	6.14	35.24	4.51	5.37	37.84	39.65	42.07	37.84
BG60G20-.../D..08.B.	9.04	12.99	6.14	36.42	4.51	5.37	39.02	40.83	43.23	39.02
BG60G20-.../D..09.A.	9.86	13.56	6.93	37.82	4.88	6.18	41.48	42.05	45.58	41.48
BG60G20-.../D..09.B.	12.15	13.56	6.93	40.10	4.88	6.18	43.76	44.32	47.86	43.76

Dimensions in inch

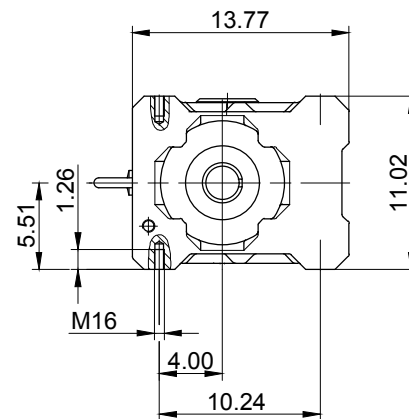
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension -Tandem Gearbox Imperial

Code -71/



Code -61LR/



305

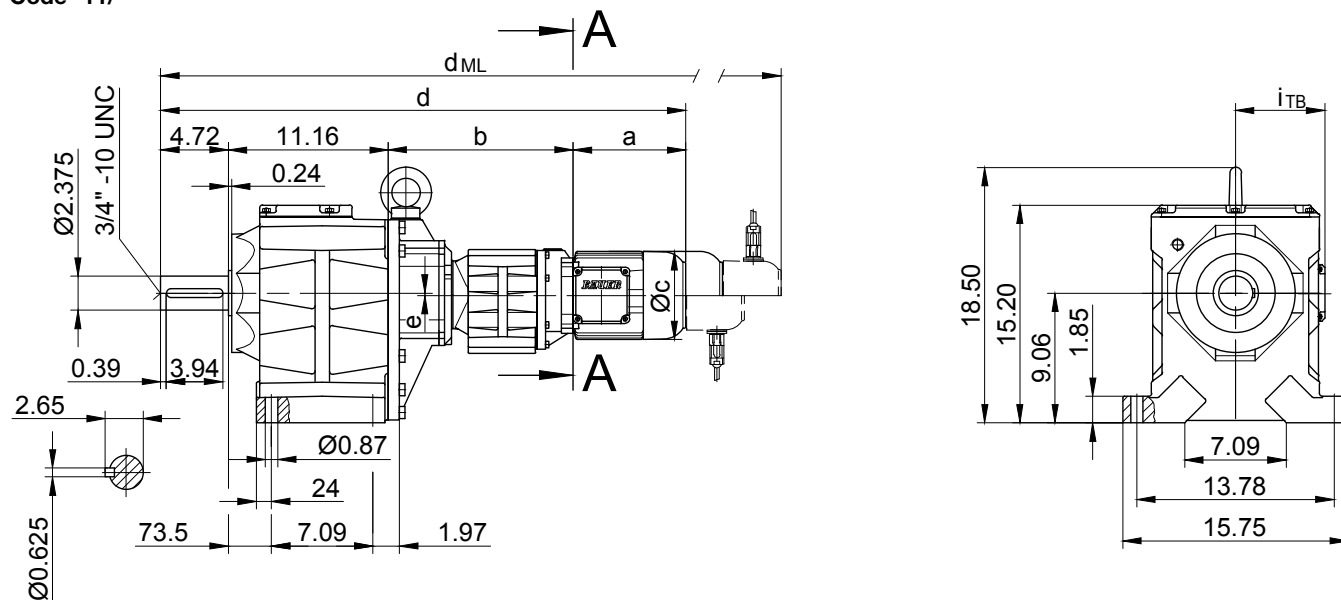
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG70G20

Foot mounting with clearance holes

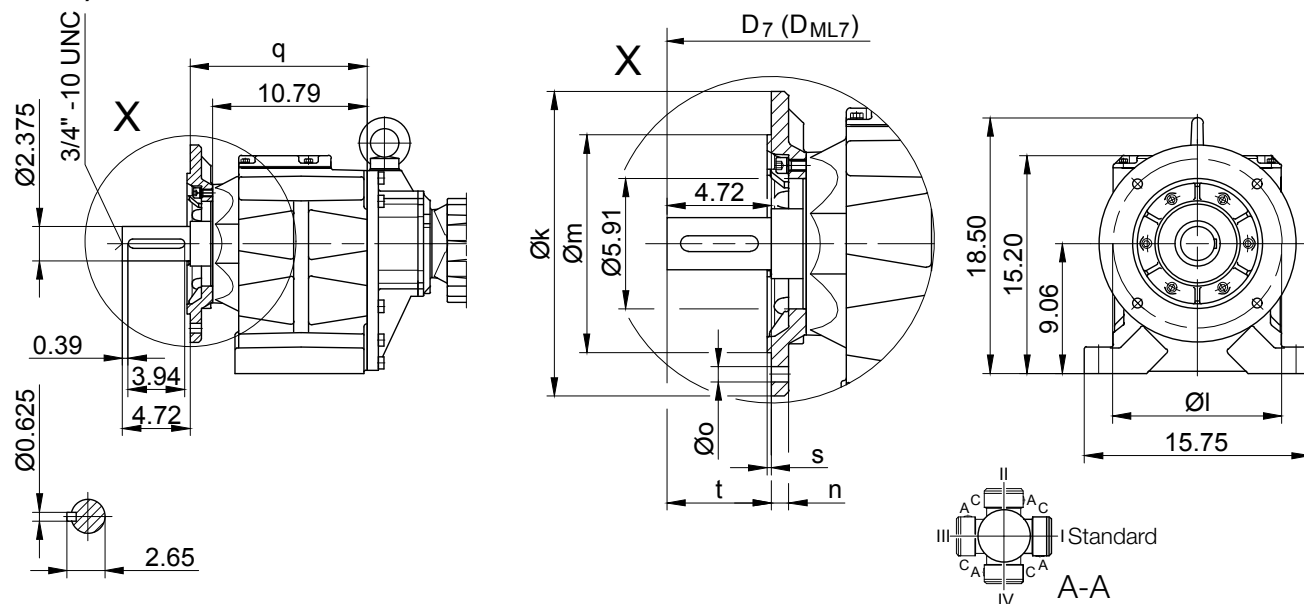
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	
BG70..	Code -37/	13,780	11,811	9,843	0,787	0,689	12,362	0,197	4,740	d+1,201	
BG70..	Code -27/	11,811	10,433	9,055	0,787	0,531	12,677	0,157	4,464	d _{ML} +1,201	

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG70G20-.../D...05.A.	6.72	12.76	4.84	35.35	3.98	4.61	37.01	39.39	40.87	-
BG70G20-.../D...06.A.	6.70	12.76	4.84	35.34	3.90	4.69	37.00	39.38	40.85	-
BG70G20-.../D...07.A.	7.49	12.76	4.84	36.13	3.90	4.69	37.78	40.16	41.64	-
BG70G20-.../D...08.A.	7.85	12.91	6.14	36.65	4.51	5.37	39.25	41.06	43.48	39.25
BG70G20-.../D...08.B.	9.04	12.91	6.14	37.83	4.51	5.37	40.43	42.24	44.64	40.43
BG70G20-.../D...09.A.	9.86	13.48	6.93	39.23	4.88	6.18	42.89	43.46	46.99	42.89
BG70G20-.../D...09.B.	12.15	13.48	6.93	41.51	4.88	6.18	45.17	45.73	49.27	45.17

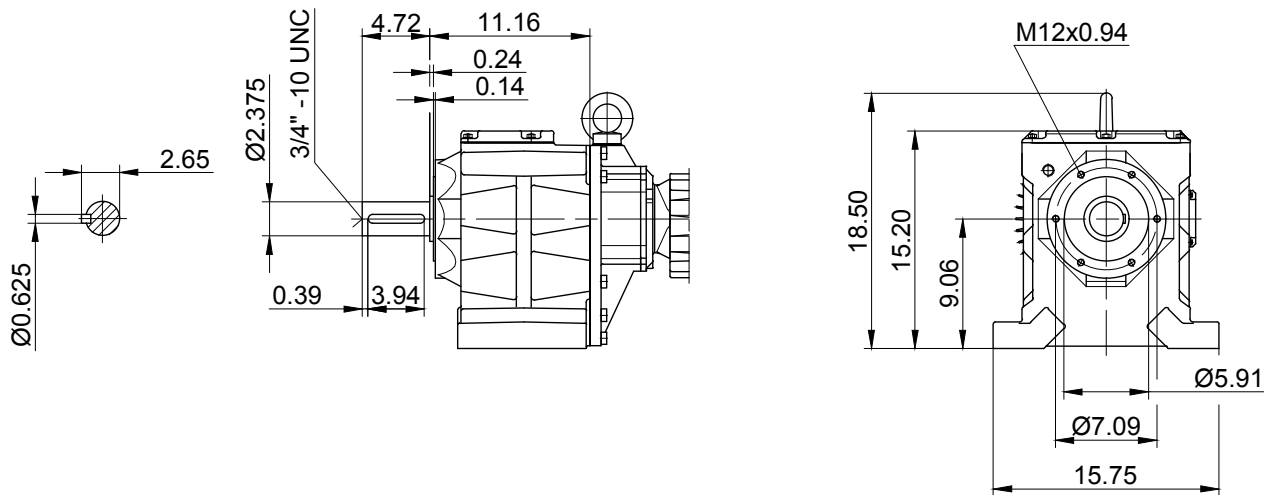
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG70G20

Flange with tapped holes

Code -71/



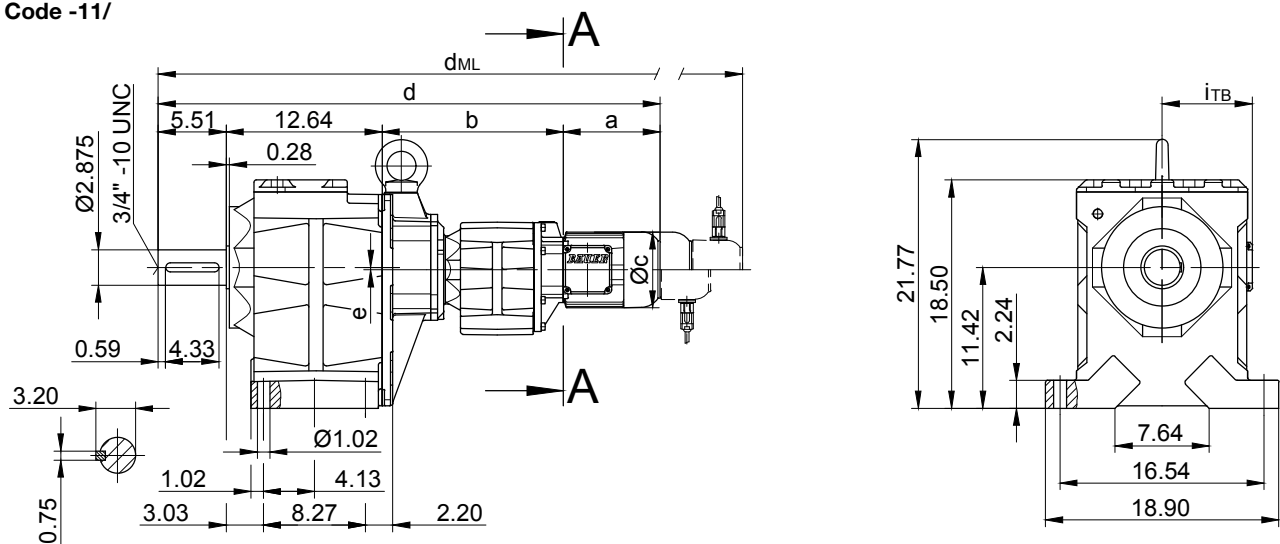
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG80G40

Foot mounting with clearance holes

Code -11/

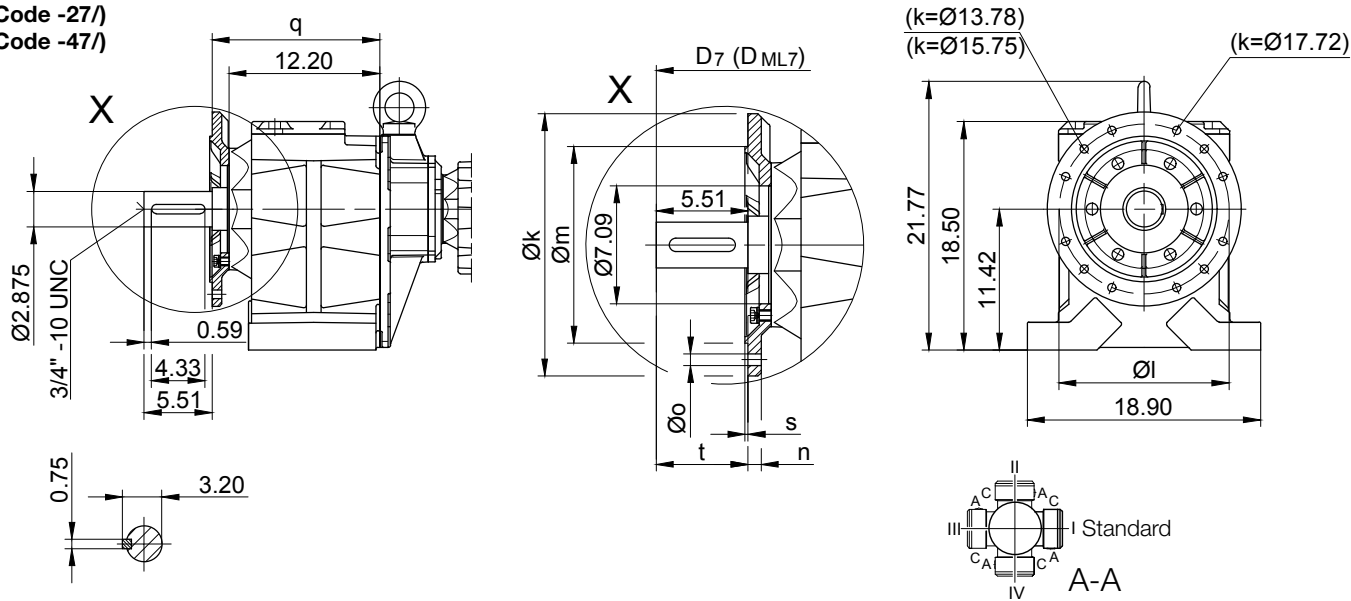


Flange with clearance holes

Code -37/

(Code -27/)

(Code -47/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG80..	Code -37/	15,748	13,780	11,811	0,787	4 x 0,689	13,583	0,197	5,549	$d+0,945$	$d_{ML}+0,945$
BG80..	Code -27/	13,780	11,811	9,843	0,787	4 x 0,689	13,583	0,197	5,549	$d+0,945$	$d_{ML}+0,945$
BG80..	Code -47/	17,717	15,748	13,780	0,866	8 x 0,689	13,976	0,197	5,156	$d+0,945$	$d_{ML}+0,945$

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG80G40-../D..08.A.	7.85	14.69	6.14	40.69	4.51	5.37	43.29	45.10	47.52	43.29
BG80G40-../D..08.B.	9.04	14.69	6.14	41.87	4.51	5.37	44.47	46.28	48.68	44.47
BG80G40-../D..09.A.	9.86	15.26	6.93	43.27	4.88	6.18	46.93	47.50	51.03	46.93
BG80G40-../D..09.B.	12.15	15.26	6.93	45.55	4.88	6.18	49.21	49.77	53.31	49.21
BG80G40-../D..11.A.	12.56	15.51	8.58	46.22	6.50	6.93	50.08	50.45	54.10	50.08
BG80G40-../D..11.B.	15.24	15.51	8.58	48.90	6.50	6.93	52.68	53.13	56.77	52.68

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension -Tandem Gearbox Imperial

Code -71/

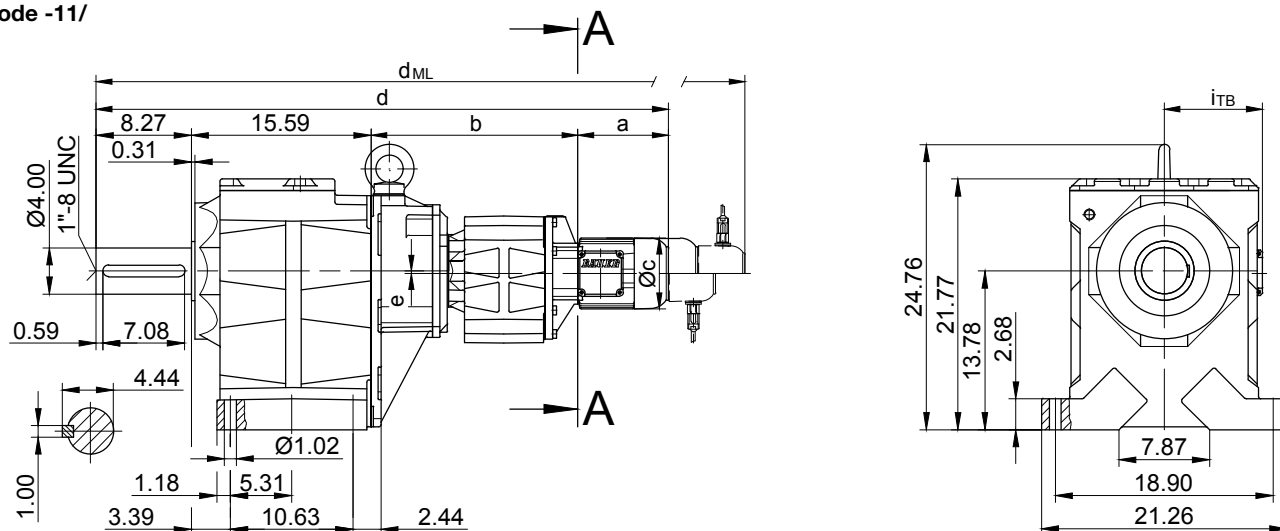
309

Dimension -Tandem Gearbox Imperial

BG90G50

Foot mounting with clearance holes

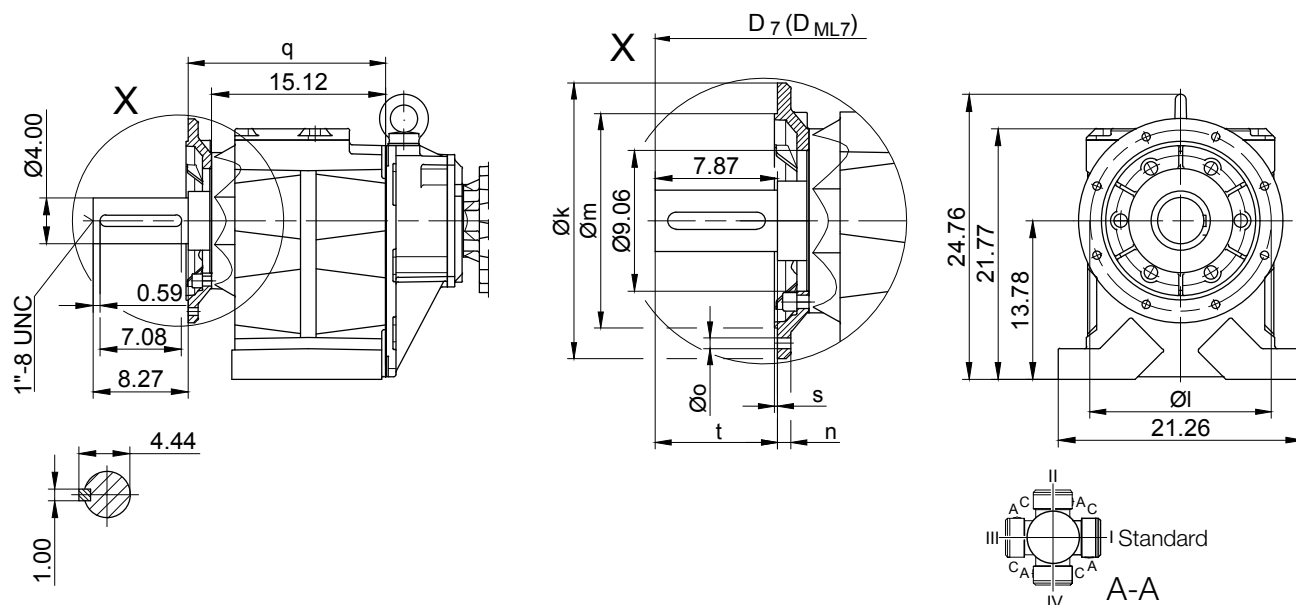
Code -11/



Flange with clearance holes

Code -37/

(Code -47/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG90..	Code -37/	17,717	15,748	13,780	0,866	0,689	17,283	0,197	8,309	d+1,693	d _{ML} +1,693	
BG90..	Code -47/	21,654	19,685	17,717	0,866	0,689	17,480	0,197	8,113	d+1,693	d _{ML} +1,693	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG90G50-../D..08.A.	7.85	17.95	6.14	49.67	4.51	5.37	52.27	54.08	56.50	52.27
BG90G50-../D..08.B.	9.04	17.95	6.14	50.85	4.51	5.37	53.45	55.26	57.66	53.45
BG90G50-../D..09.A.	9.86	18.52	6.93	52.25	4.88	6.18	55.91	56.48	60.01	55.91
BG90G50-../D..09.B.	12.15	18.52	6.93	54.53	4.88	6.18	58.19	58.75	62.29	58.19
BG90G50-../D..11.A.	12.56	18.78	8.58	55.20	6.50	6.93	59.06	59.44	63.08	59.06
BG90G50-../D..11.B.	15.24	18.78	8.58	57.88	6.50	6.93	61.66	62.11	65.75	61.66
BG90G50-../D..13.A.	15.47	19.29	10.16	58.62	8.54	8.54	62.99	62.84	66.97	62.88
BG90G50-../D..16.B.	17.89	19.84	12.20	61.60	9.57	9.57	67.25	65.81	71.33	67.25
BG90G50-../D..18.B.	21.34	20.71	13.70	65.91	11.34	11.34	71.79	70.07	75.87	71.79

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

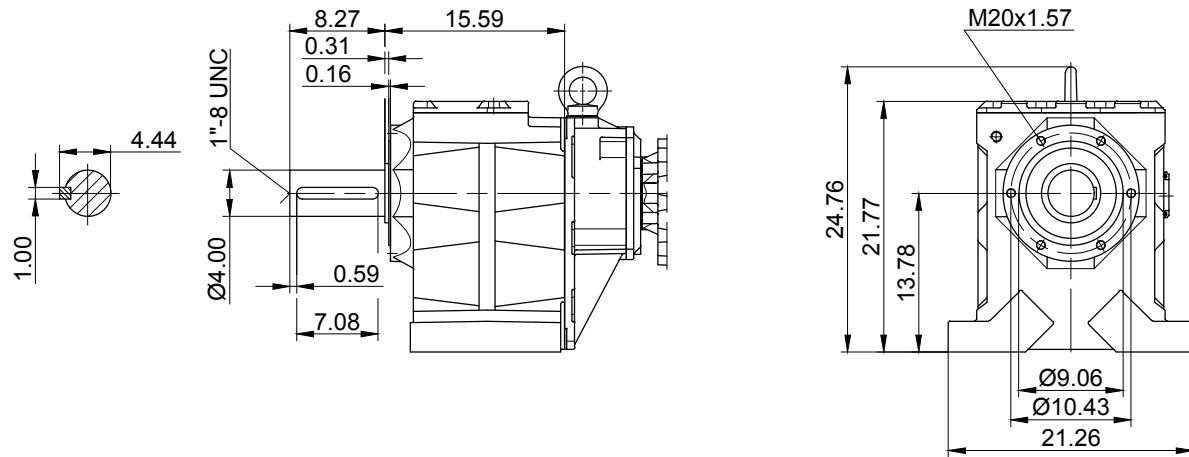
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG90G50

Flange with tapped holes

Code -71/

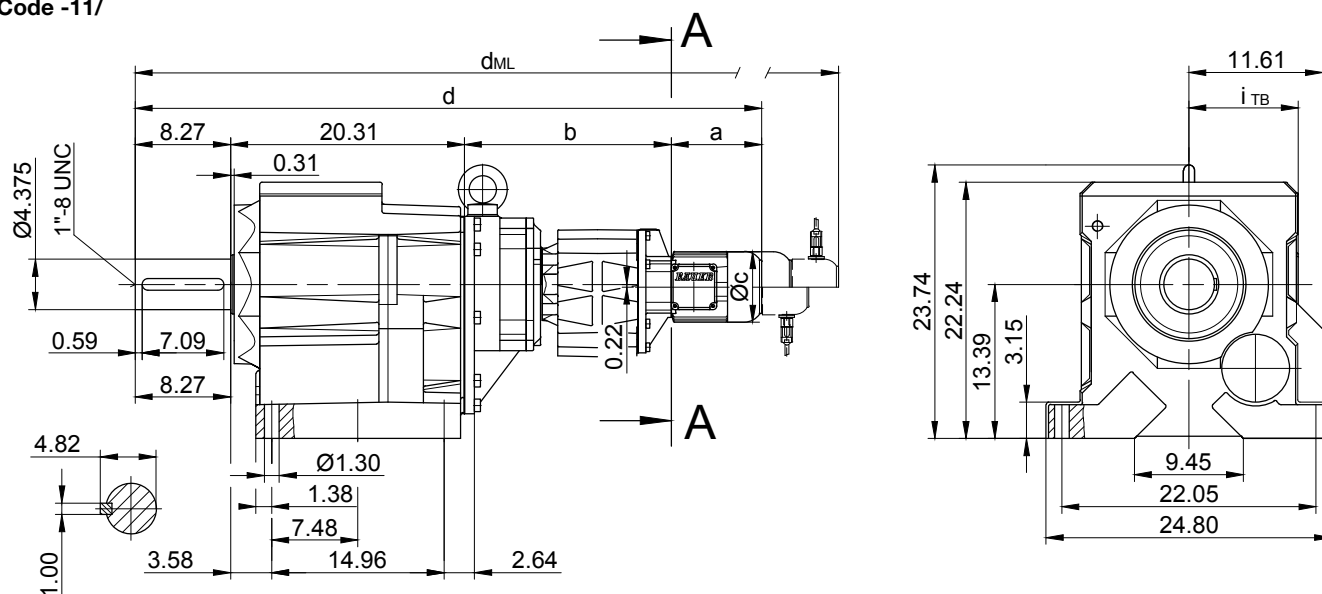


Dimension -Tandem Gearbox Imperial

BG100G50

Foot mounting with clearance holes

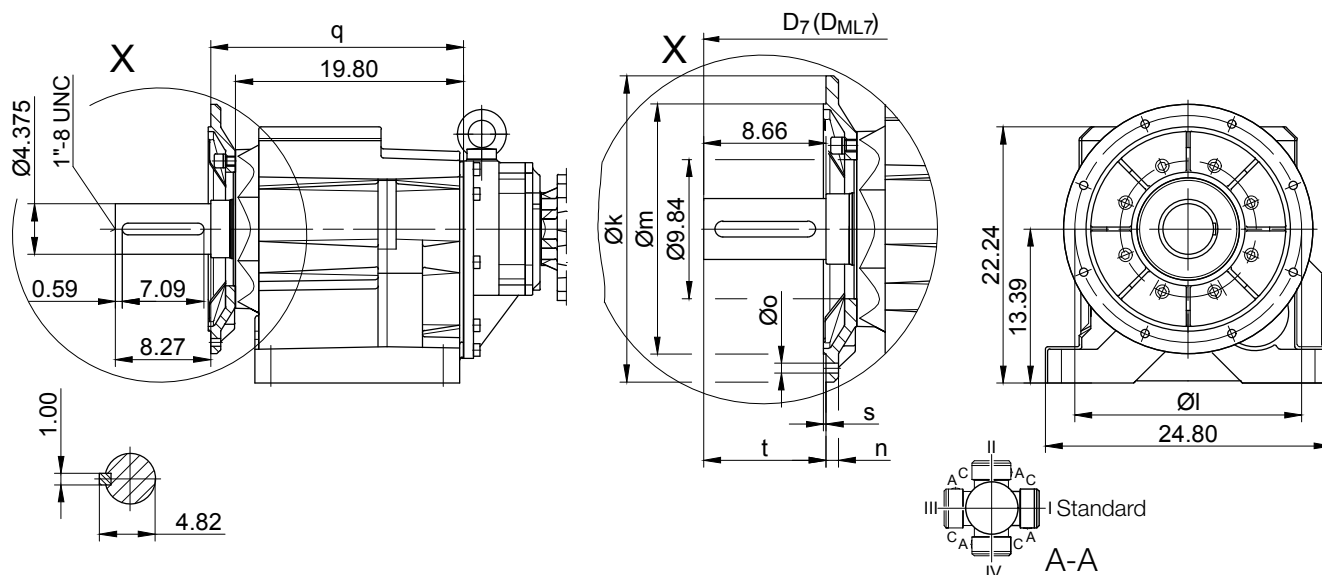
Code -11/



Flange with clearance holes

Code -37/

(Code -47/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}	
BG100..	Code -37/	21,654	19,685	17,717	0,866	0,689	21,969	0,197	8,270	d+1,653	d _{ML} +1,653	
BG100..	Code -47/	25,984	23,622	21,654	0,984	0,866	21,732	0,236	8,546	d+1,653	d _{ML} +1,653	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG100G50-../D..08.A.	7.85	17.95	6.14	54.39	4.51	5.37	56.99	58.80	61.22	56.99
BG100G50-../D..08.B.	9.04	17.95	6.14	55.57	4.51	5.37	58.17	59.98	62.38	58.17
BG100G50-../D..09.A.	9.86	18.52	6.93	56.97	4.88	6.18	60.63	61.21	64.73	60.63
BG100G50-../D..09.B.	12.15	18.52	6.93	59.25	4.88	6.18	62.92	63.47	67.01	62.92
BG100G50-../D..11.A.	12.56	18.78	8.58	59.92	6.50	6.93	63.78	64.16	67.80	63.78
BG100G50-../D..11.B.	15.24	18.78	8.58	62.60	6.50	6.93	66.38	66.84	70.48	66.38
BG100G50-../D..13.A.	15.47	19.29	10.16	63.35	8.54	8.54	67.72	67.57	71.70	67.60
BG100G50-../D..16.B.	17.89	19.84	12.20	66.32	9.57	9.57	71.97	70.54	76.05	71.97
BG100G50-../D..18.B.	21.34	20.71	13.70	70.63	11.34	11.34	76.52	74.79	80.60	76.52

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

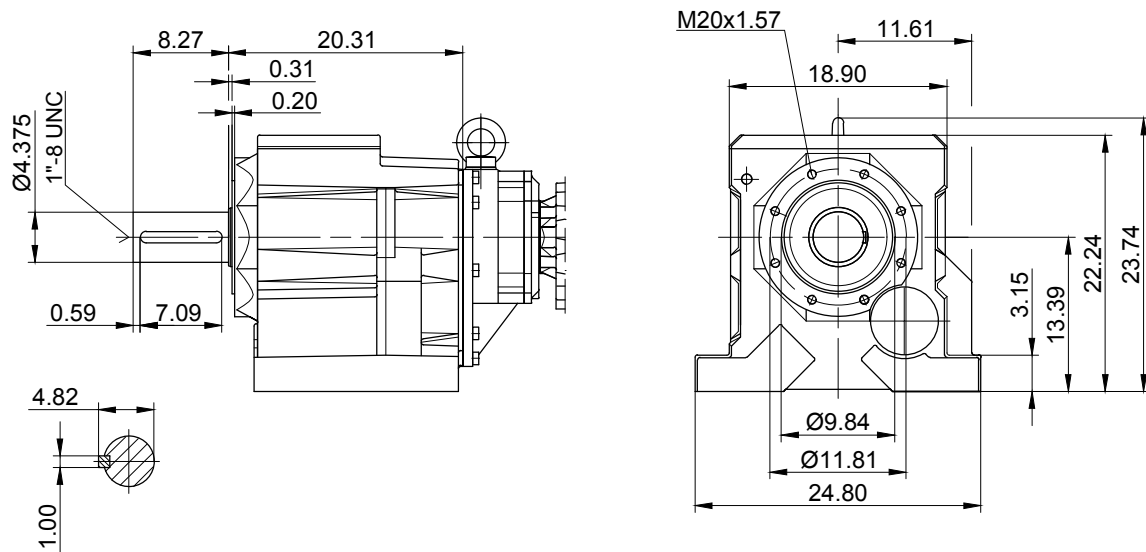
BG-series helical-geared motors

Dimension -Tandem Gearbox Imperial

BG100G50

Flange with tapped holes

Code -71/



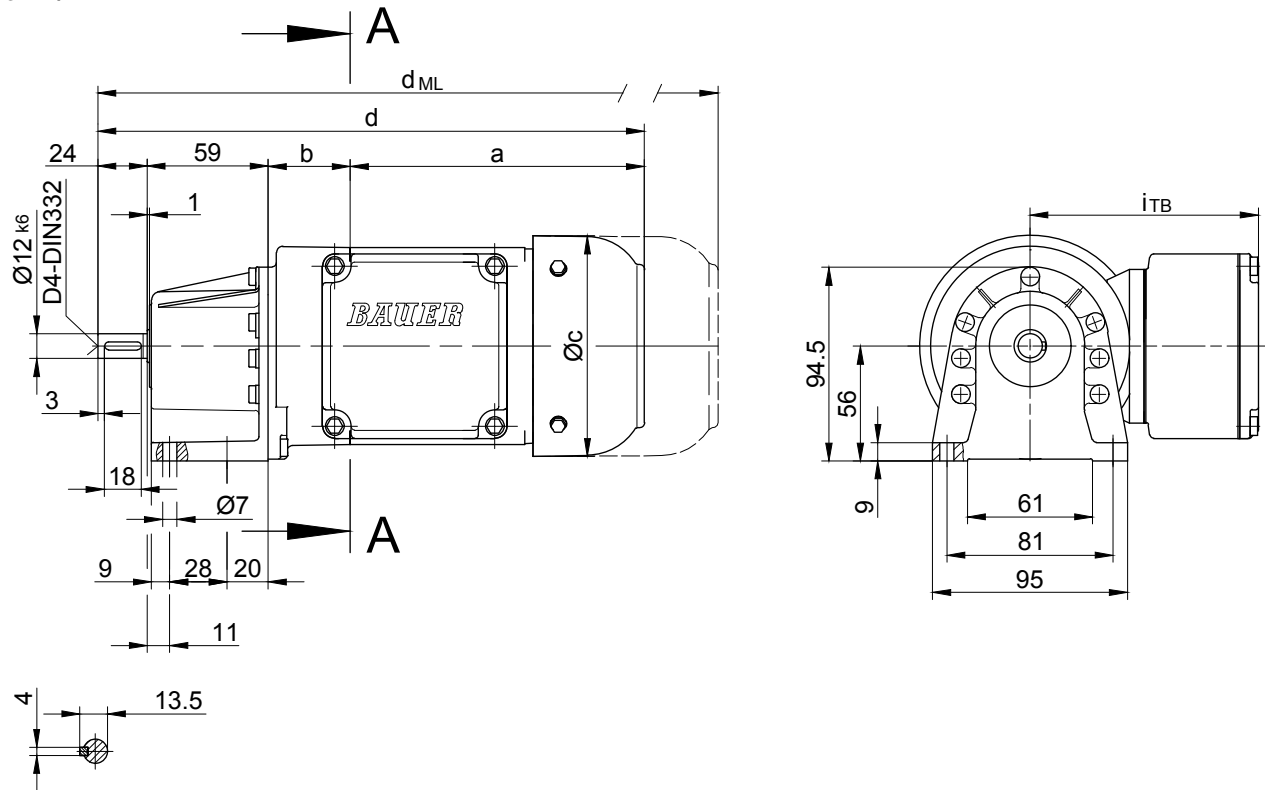
BG-series helical-geared motors

Dimension - Standard Metric

BG04

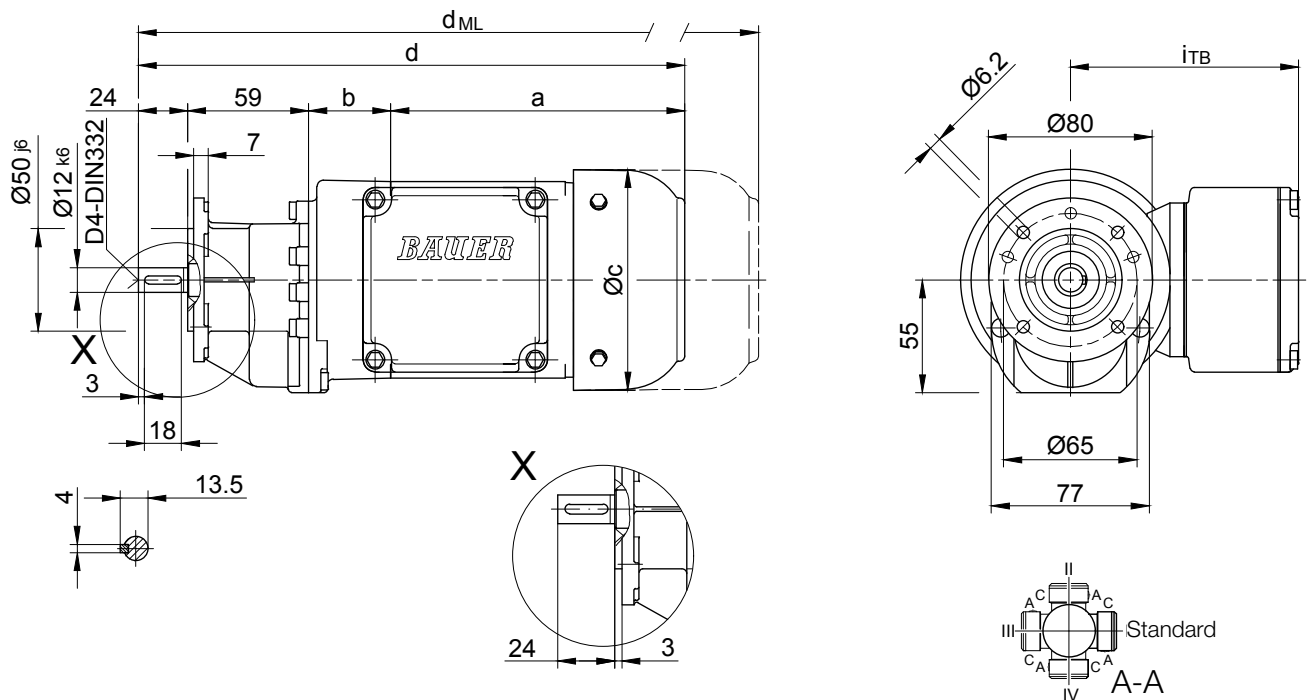
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG04-.../D04.A	142.5	40	110.5	265.5	90	112	309	353	396.5	-

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

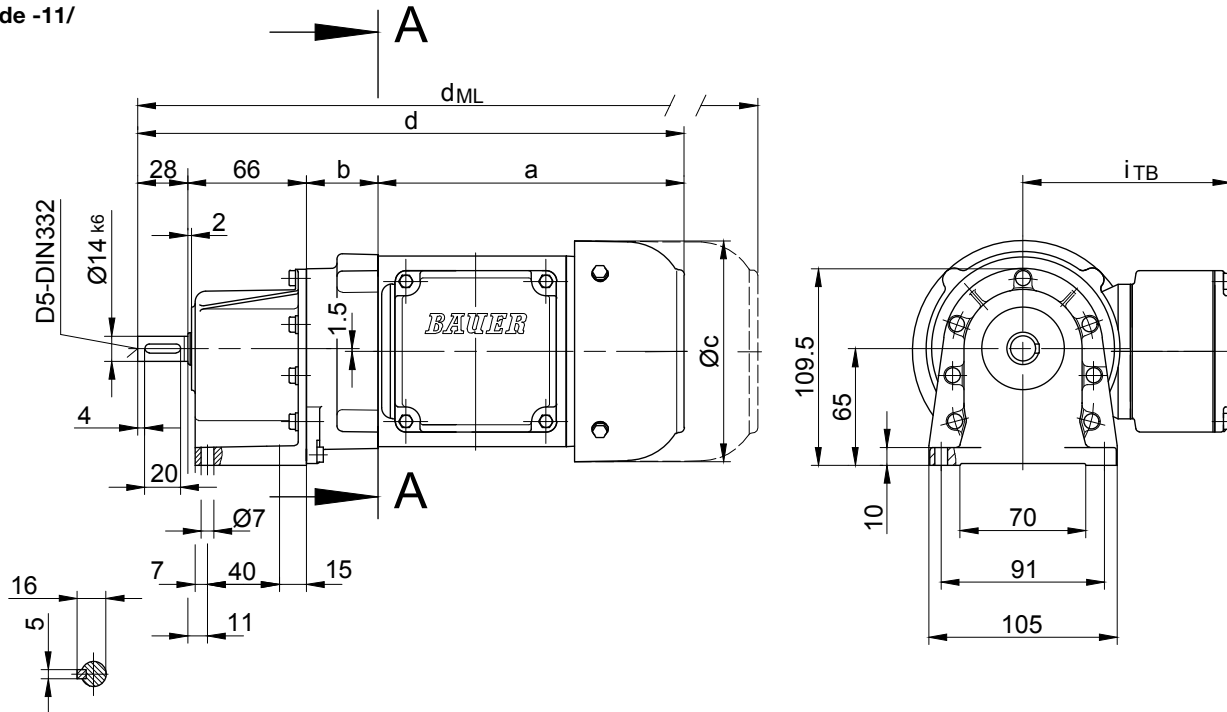
BG-series helical-geared motors

Dimension - Standard Metric

BG05

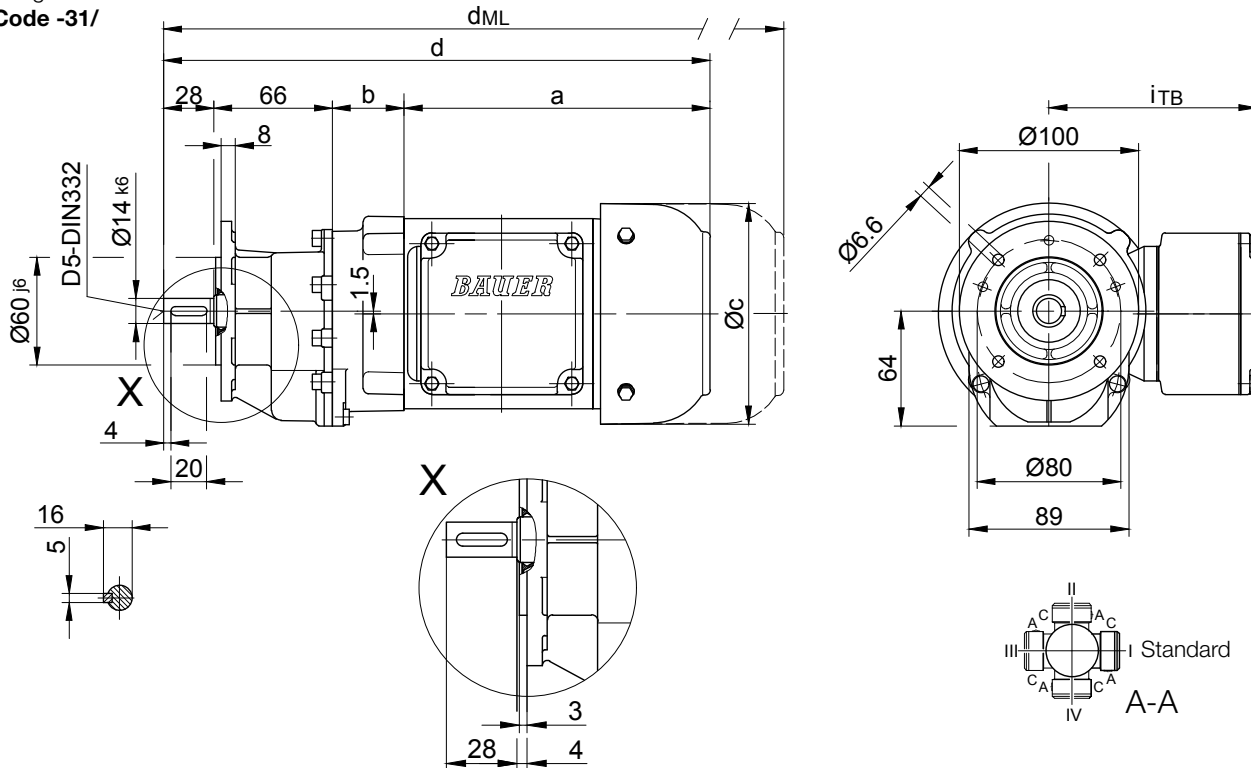
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG05-../D04.A.	142.5	38	110.5	274.5	90	112	318	362	405.5	-
BG05-../D..05.A.	170.5	40	123	304.5	101	117	346.5	407	444.5	-
BG05-../D..06.A.	170.5	40	123	304.5	99	119	346.5	407	444.5	-
BG05-../D..07.A.	190.5	40	123	324.5	99	119	366.5	427	464.5	-

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America

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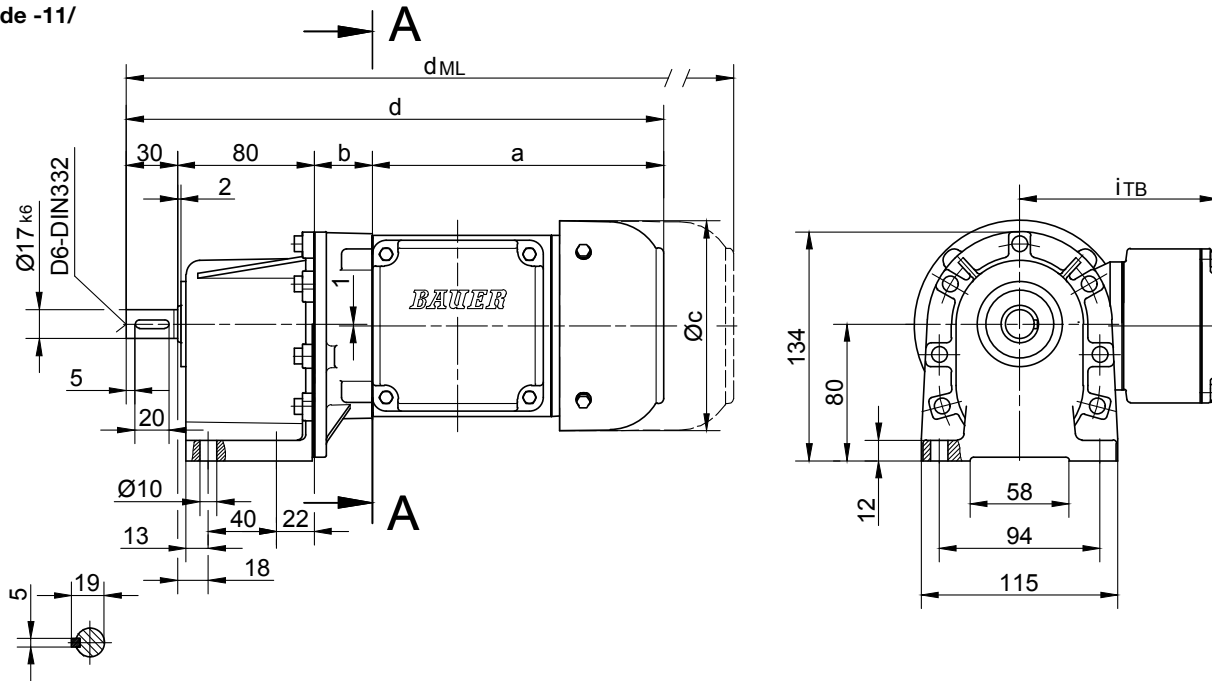
BG-series helical-geared motors

Dimension - Standard Metric

BG06

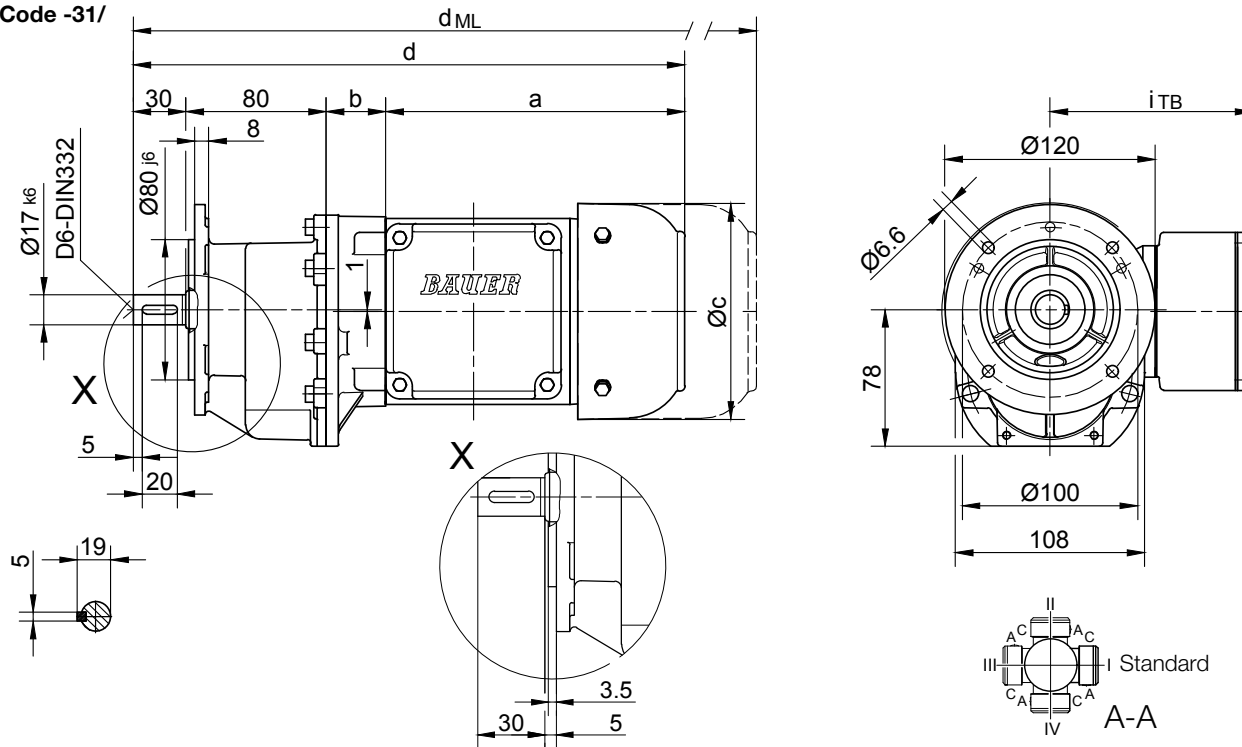
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG06-../D04.A.	142.5	32	110.5	284.5	90	112	328	372	415.5	-
BG06-../D..05.A.	170.5	34	123	314.5	101	117	356.5	417	454.5	-
BG06-../D..06.A.	170.5	34	123	314.5	99	119	356.5	417	454.5	-
BG06-../D..07.A.	190.5	34	123	334.5	99	119	376.5	437	474.5	-
BG06-../D..08.A.	199.5	78	156	387.5	114.5	136.5	453.5	499.5	561	453.5
BG06-../D..08.B.	229.5	78	156	417.5	114.5	136.5	483.5	529.5	590.5	483.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

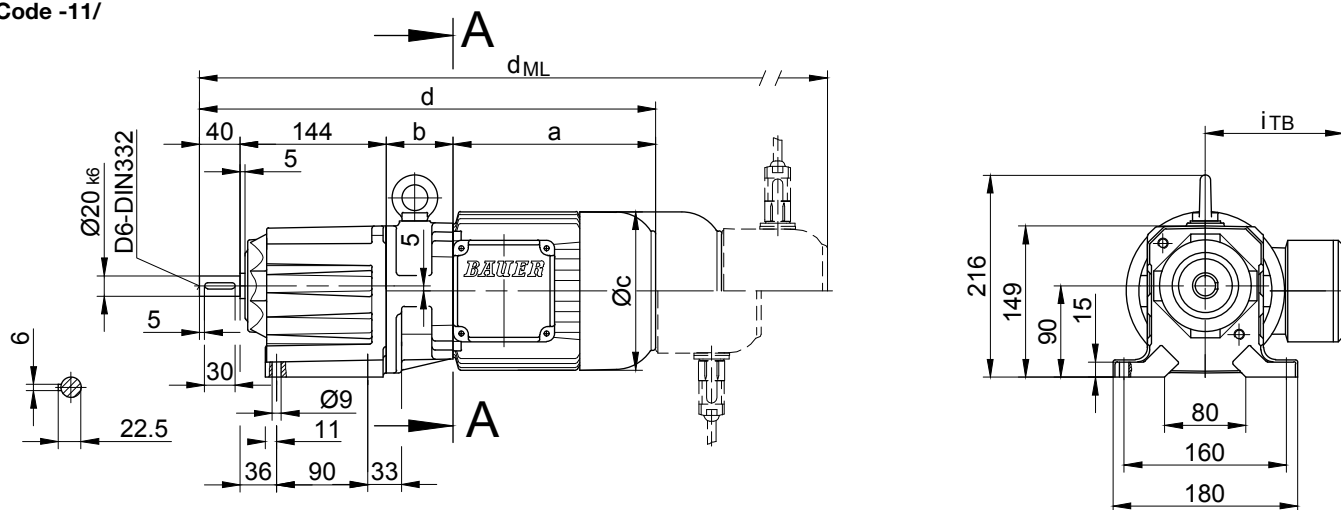
BG-series helical-geared motors

Dimension - Standard Metric

BG10 - BG10Z

Foot mounting with clearance holes

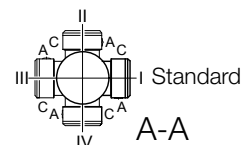
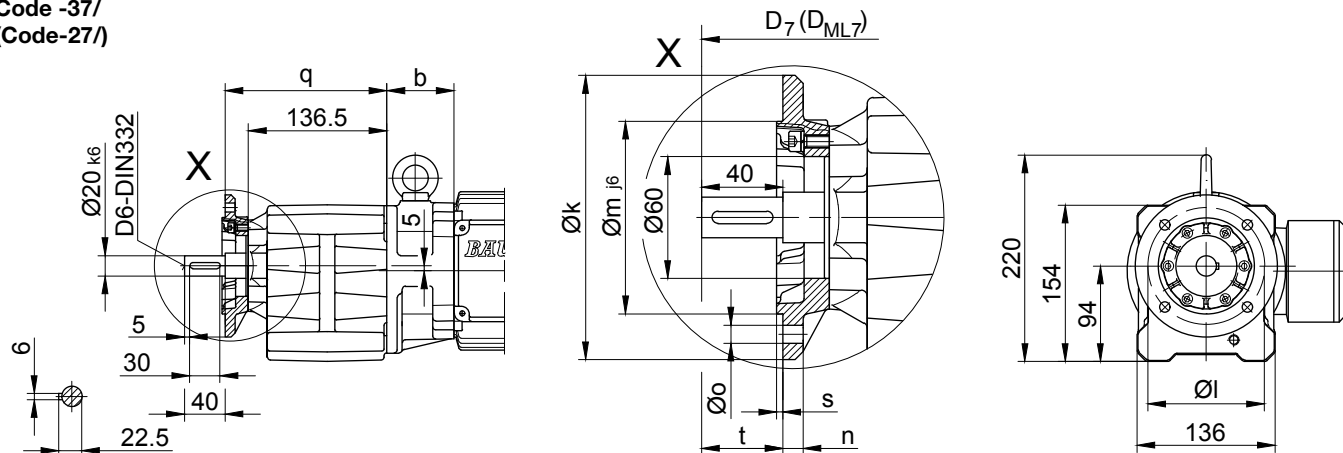
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG10..	Code -37V/	5,512	4,528	3,740	0,394	0,354	6,280	0,118	1,590	$d+0,610$	$d_{ML}+0,610$
BG10..	Code -27V/	4,724	3,937	3,150	0,315	0,260	6,083	0,118	1,787	$d+0,610$	$d_{ML}+0,610$

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG10Z-../D04.A.	142.5	86	110.5	412.5	90	112	456	500	543.5	-
BG10-../D..05.A.	170.5	62	123	416.5	101	117	458.5	519	556.5	-
BG10Z-../D..05.A.	170.5	88	123	442.5	101	117	484.5	545	582.5	-
BG10-../D..06.A.	170.5	62	123	416.5	99	119	458.5	519	556.5	-
BG10Z-../D..06.A.	170.5	88	123	442.5	99	119	484.5	545	582.5	-
BG10-../D..07.A.	190.5	62	123	436.5	99	119	478.5	539	576.5	-
BG10Z-../D..07.A.	190.5	88	123	462.5	99	119	504.5	565	602.5	-
BG10-../D..08.A.	199.5	66	156	449.5	114.5	136.5	515.5	561.5	623	515.5
BG10Z-../D..08.A.	199.5	132	156	515.5	114.5	136.5	581.5	627.5	689	581.5
BG10-../D..08.B.	229.5	66	156	479.5	114.5	136.5	545.5	591.5	652.5	545.5
BG10Z-../D..08.B.	229.5	132	156	545.5	114.5	136.5	611.5	657.5	718.5	611.5
BG10-../D..09.A.	250.5	80.5	176	515	124	157	608	622.5	712	608
BG10-../D..09.B.	308.5	80.5	176	573	124	157	666	680	770	666

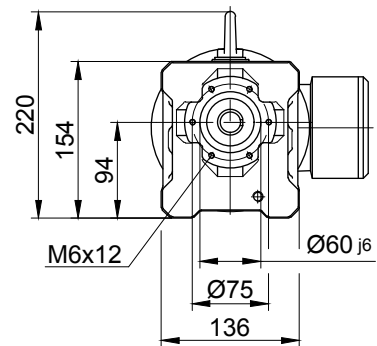
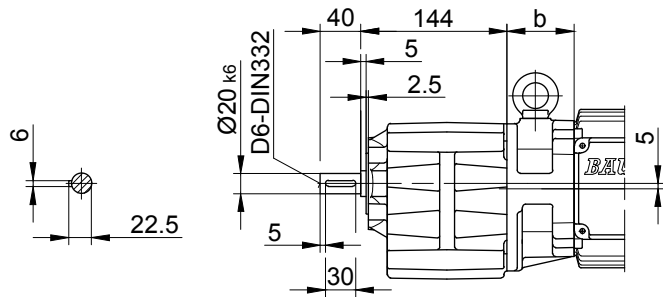
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10 - BG10Z

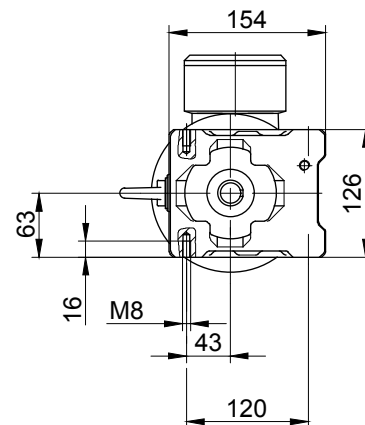
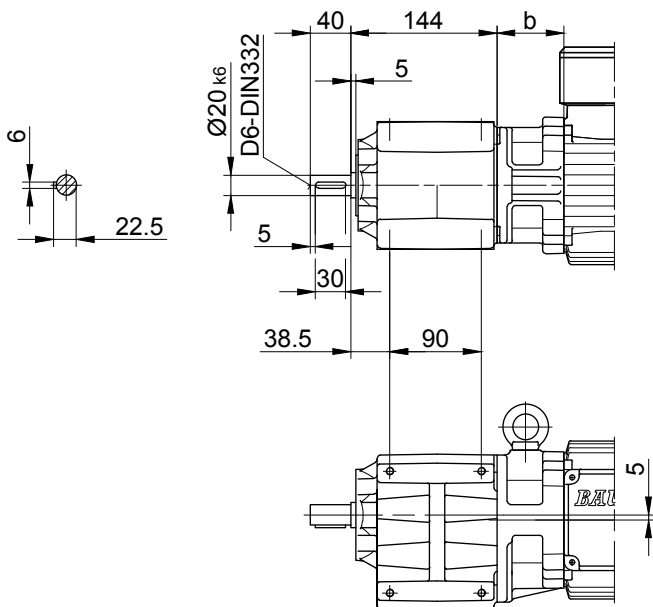
Flange with tapped holes

Code -71/



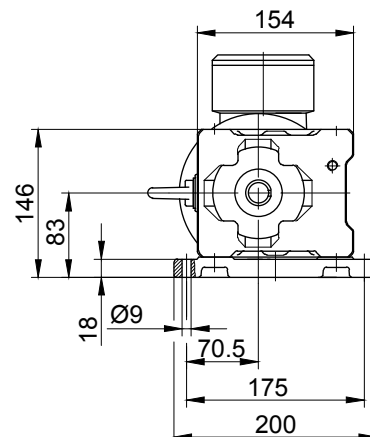
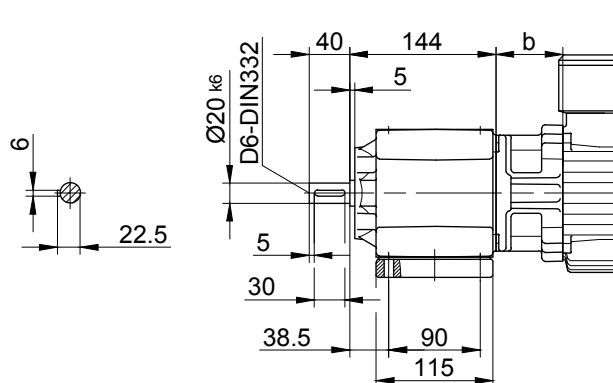
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



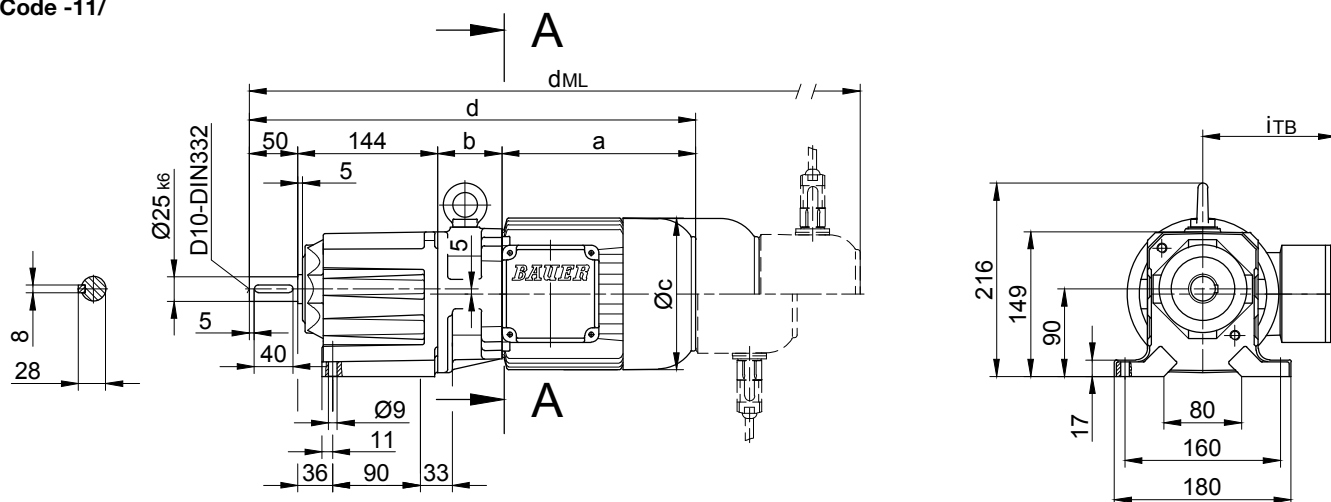
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

BG10X - BG10XZ

Foot mounting with clearance holes

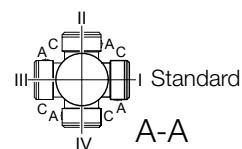
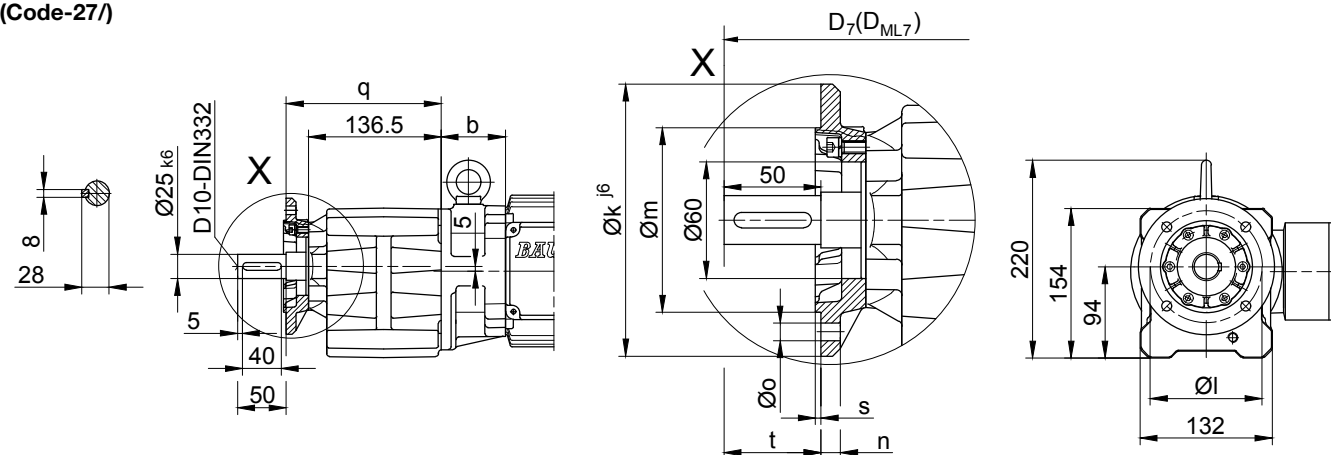
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG10X..	Code -37V/	5,512	4,528	3,740	0,394	0,354	6,280	0,118	1,990	d+0,610	d _{ML} +0,610
BG10X..	Code -27V/	4,724	3,937	3,150	0,315	0,260	6,083	0,118	2,187	d+0,610	d _{ML} +0,610

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG10XZ-../D04.A.	142.5	86	110.5	422.5	90	112	466	510	553.5	-
BG10X-../D..05.A.	170.5	62	123	426.5	101	117	468.5	529	566.5	-
BG10XZ-../D..05.A.	170.5	88	123	452.5	101	117	494.5	555	592.5	-
BG10X-../D..06.A.	170.5	62	123	426.5	99	119	468.5	529	566.5	-
BG10XZ-../D..06.A.	170.5	88	123	452.5	99	119	494.5	555	592.5	-
BG10X-../D..07.A.	190.5	62	123	446.5	99	119	488.5	549	586.5	-
BG10XZ-../D..07.A.	190.5	88	123	472.5	99	119	514.5	575	612.5	-
BG10X-../D..08.A.	199.5	66	156	459.5	114.5	136.5	525.5	571.5	633	525.5
BG10XZ-../D..08.A.	199.5	132	156	525.5	114.5	136.5	591.5	637.5	699	591.5
BG10X-../D..08.B.	229.5	66	156	489.5	114.5	136.5	555.5	601.5	662.5	555.5
BG10XZ-../D..08.B.	229.5	132	156	555.5	114.5	136.5	621.5	667.5	728.5	621.5
BG10X-../D..09.A.	250.5	80.5	176	525	124	157	618	632.5	722	618
BG10X-../D..09.B.	308.5	80.5	176	583	124	157	676	690	780	676

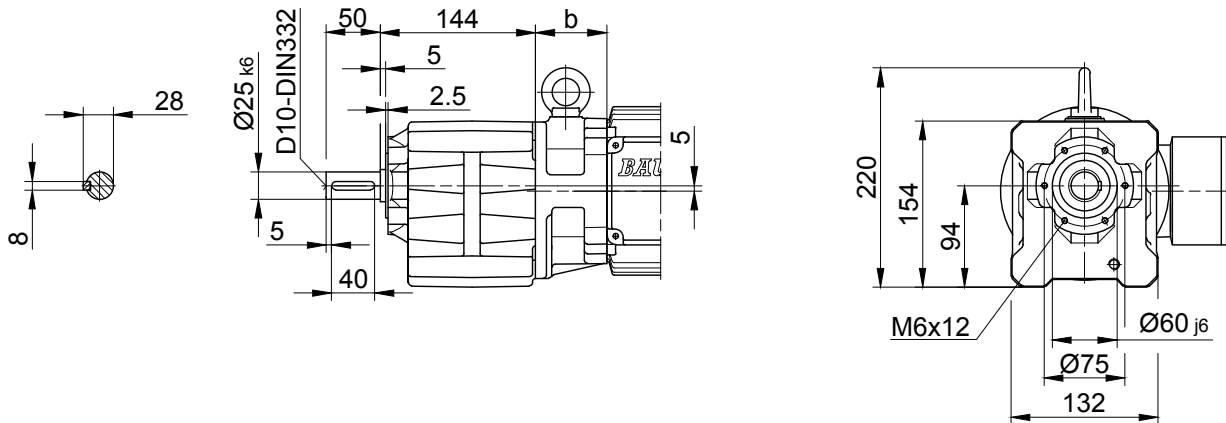
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10X - BG10XZ

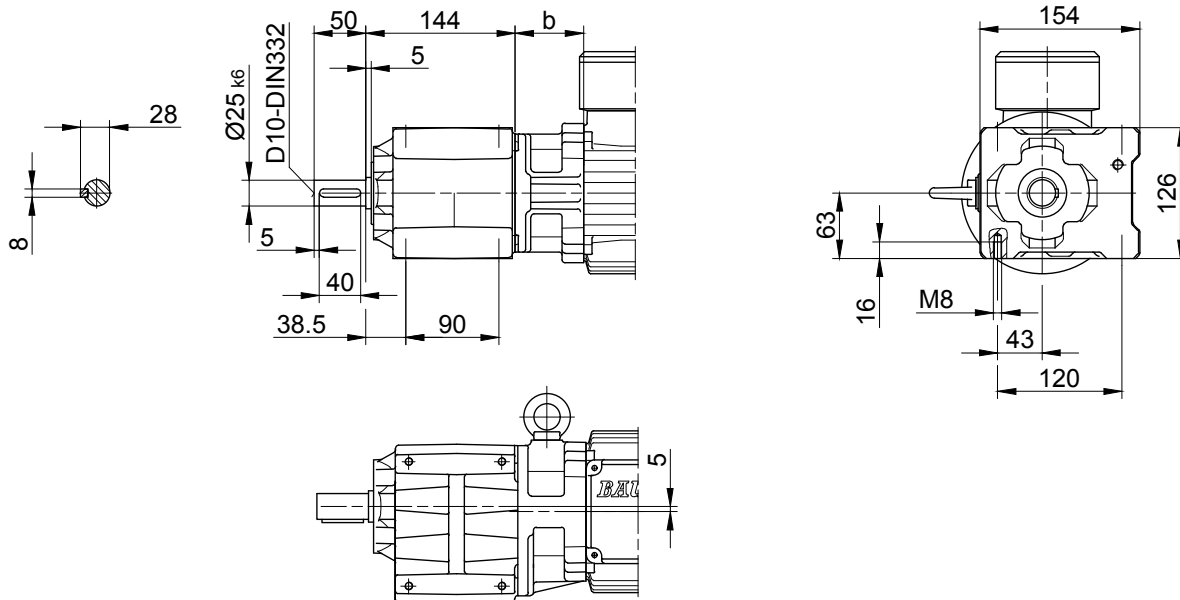
Flange with tapped holes

Code -71/



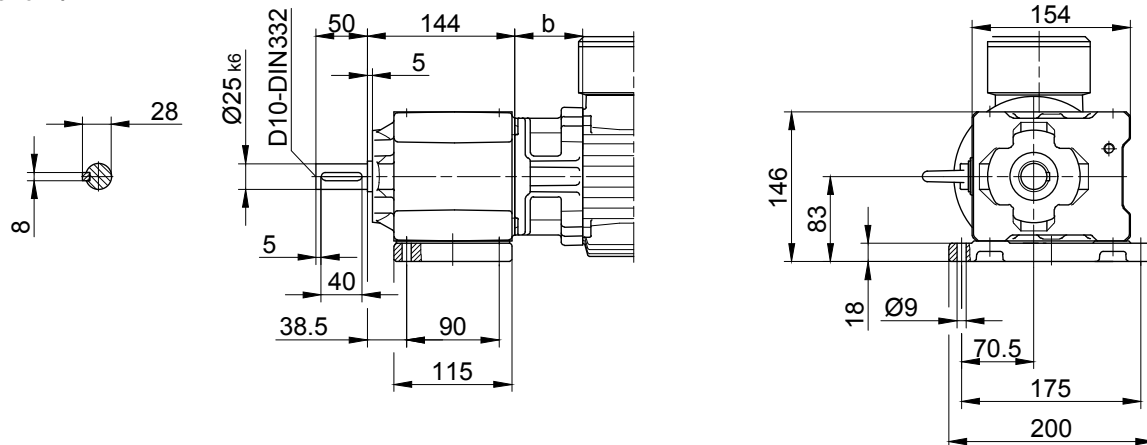
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America

10

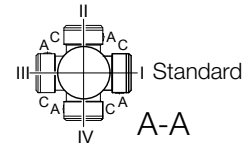
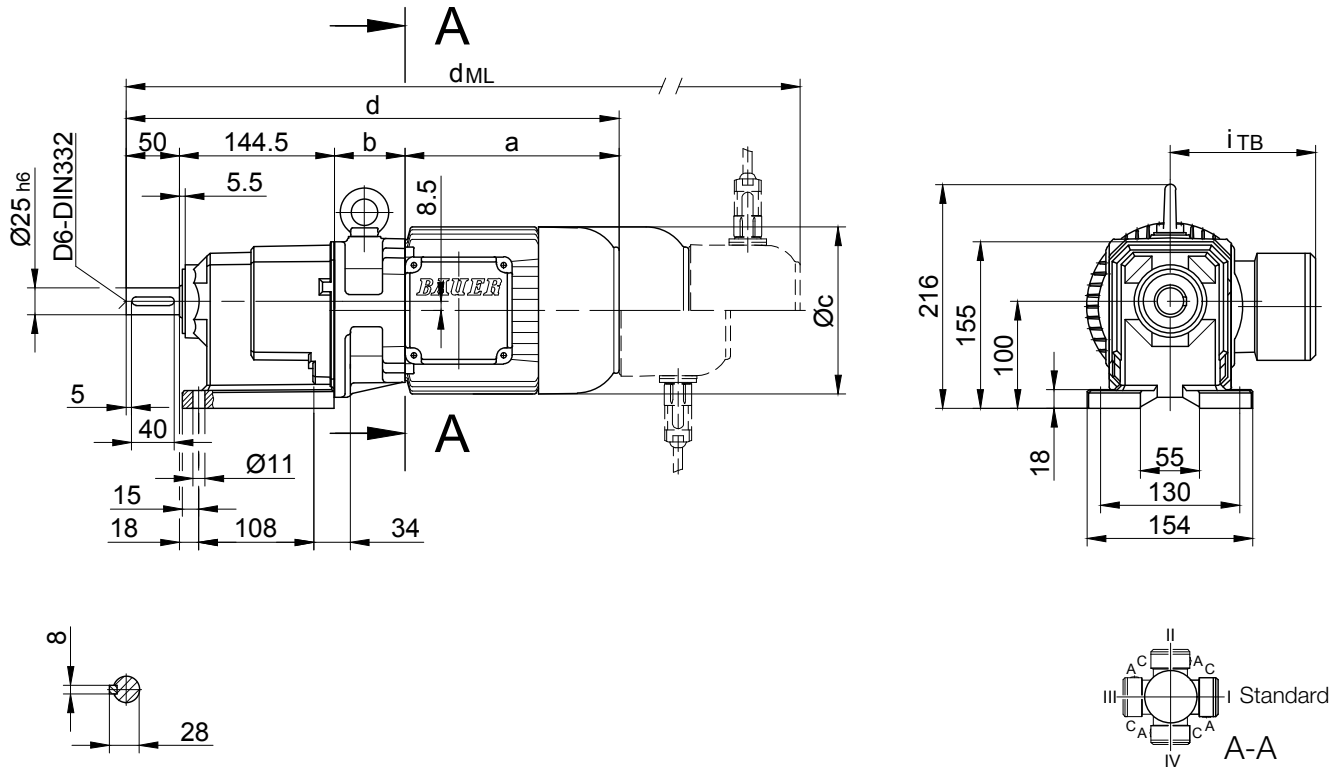
BG-series helical-geared motors

Dimension - Standard Metric

BG15

Foot mounting with clearance holes

Code -11/



10

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG15-.../D..05.A.	170.5	62	123	427	101	117	442.5	486.5	530	-
BG15-.../D..06.A.	170.5	62	123	427	99	119	469	529.5	567	-
BG15-.../D..07.A.	190.5	62	123	447	99	119	489	549.5	587	-
BG15-.../D..08.A.	199.5	66	156	460	114.5	136.5	526	572	633.5	331.5
BG15-.../D..08.B.	229.5	66	156	490	114.5	136.5	556	602	663	556
BG15-.../D..09.A.	250.5	80.5	176	525.5	124	157	618.5	633	722.5	618.5
BG15-.../D..09.B.	308.5	80.5	176	583.5	124	157	676.5	690.5	780.5	676.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

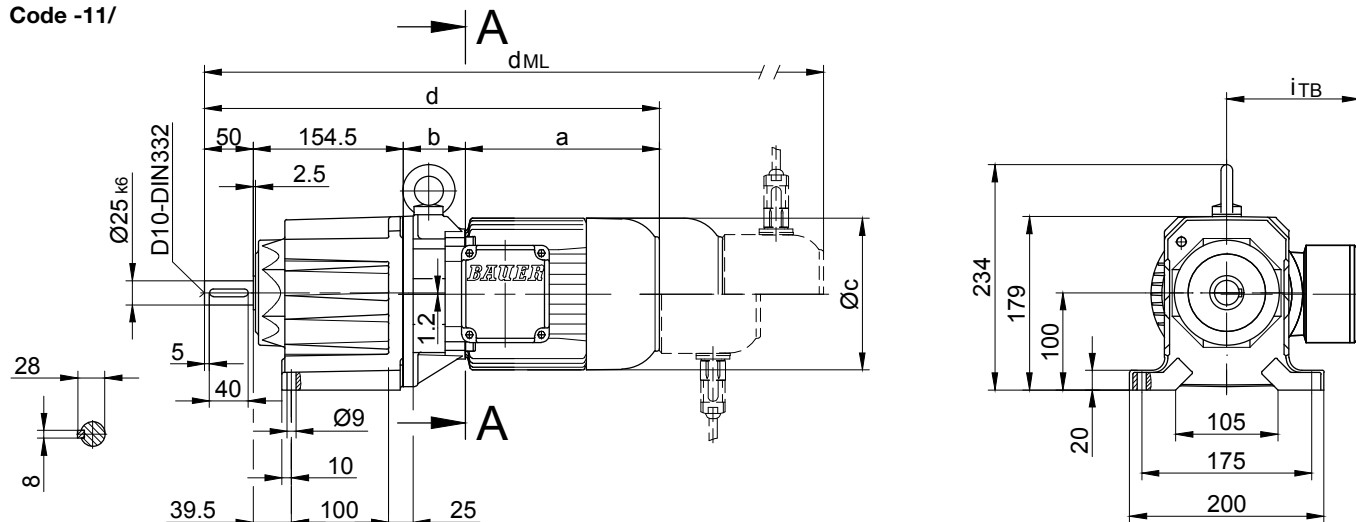
BG-series helical-geared motors

Dimension - Standard Metric

BG20 - BG20Z

Foot mounting with clearance holes

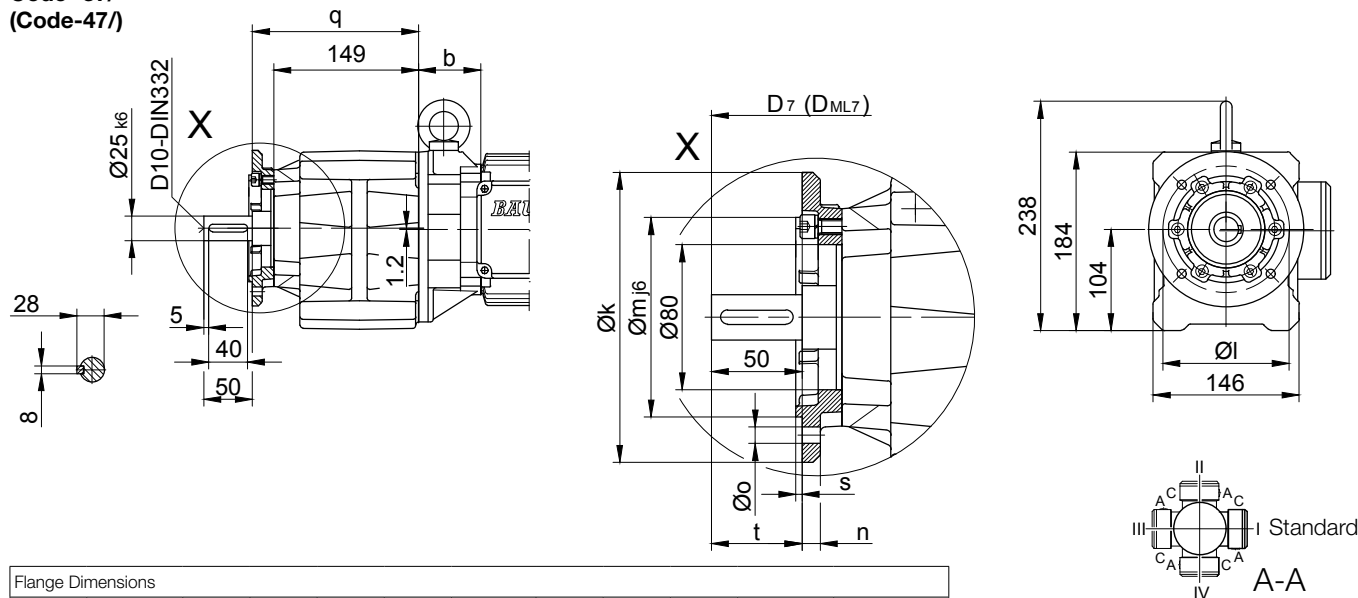
Code -11/



Flange with clearance holes

Code -37/

(Code-47/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG20..	Code -37V/	6,299	5,118	4,331	0,394	0,354	6,732	0,138	1,990	d+0,650	d _{ML} +0,650
BG20..	Code -47V/	7,874	6,496	5,118	0,472	0,433	7,008	0,138	1,714	d+0,650	d _{ML} +0,650

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG20Z-../D04.A.	142.5	100	110.5	447	90	112	490.5	534.5	578	-
BG20-../D..05.A.	170.5	60	123	435	101	117	477	537.5	575	-
BG20Z-../D..05.A.	170.5	102	123	477	101	117	519	579.5	617	-
BG20-../D..06.A.	170.5	60	123	435	99	119	477	537.5	575	-
BG20Z-../D..06.A.	170.5	102	123	477	99	119	519	579.5	617	-
BG20-../D..07.A.	190.5	60	123	455	99	119	497	557.5	595	-
BG20Z-../D..07.A.	190.5	102	123	497	99	119	539	599.5	637	-
BG20-../D..08.A.	199.5	64	156	468	114.5	136.5	534	580	641.5	534
BG20Z-../D..08.A.	199.5	146	156	550	114.5	136.5	616	662	723.5	616
BG20-../D..08.B.	229.5	64	156	498	114.5	136.5	564	610	671	564
BG20Z-../D..08.B.	229.5	146	156	580	114.5	136.5	646	692	753	646
BG20-../D..09.A.	250.5	78.5	176	533.5	124	157	626.5	641	730.5	626.5
BG20-../D..09.B.	308.5	78.5	176	591.5	124	157	684.5	698.5	788.5	684.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

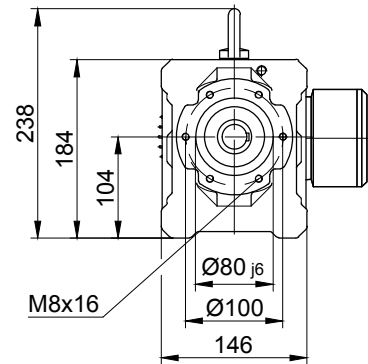
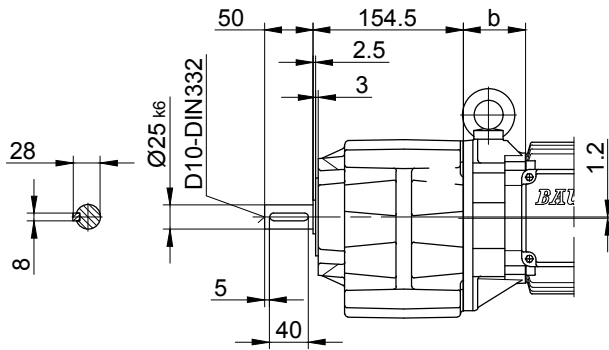
BG-series helical-geared motors

Dimension - Standard Metric

BG20 - BG20Z

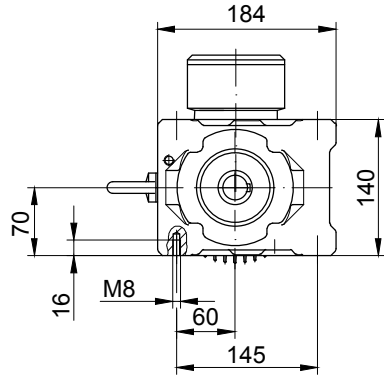
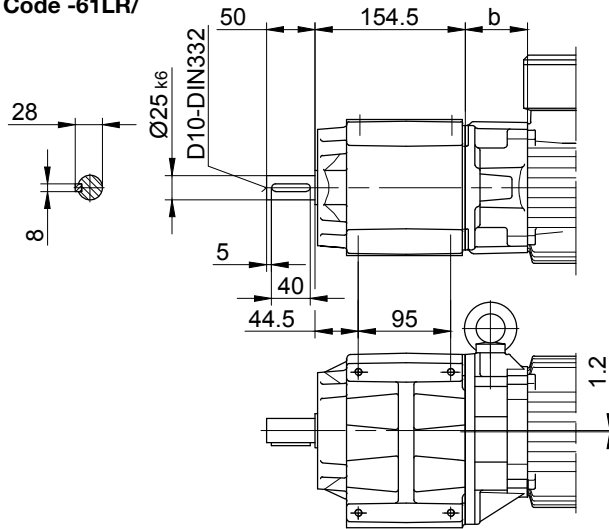
Flange with tapped holes

Code -71/



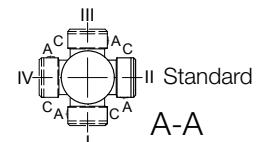
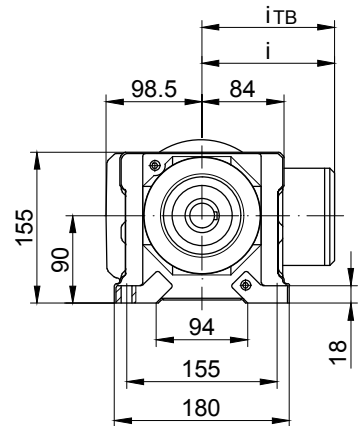
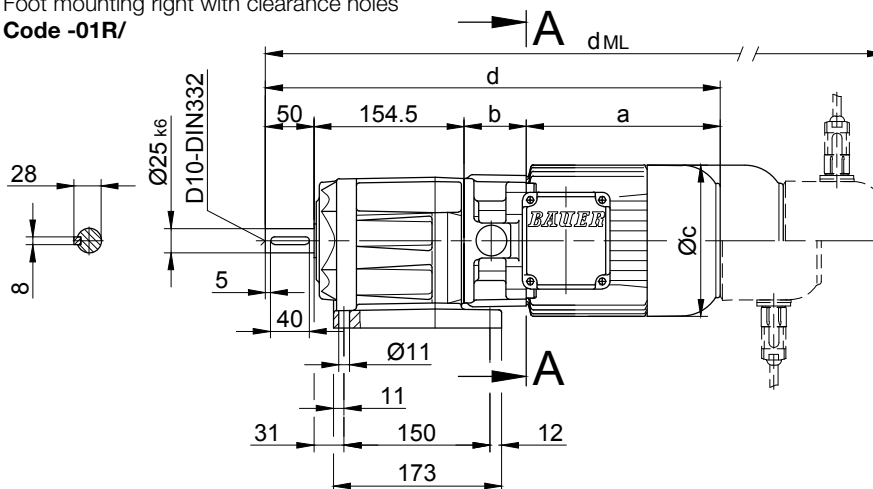
Foot with tapped holes left and right

Code -61LR/



Foot mounting right with clearance holes

Code -01R/



only for BG20-01R!

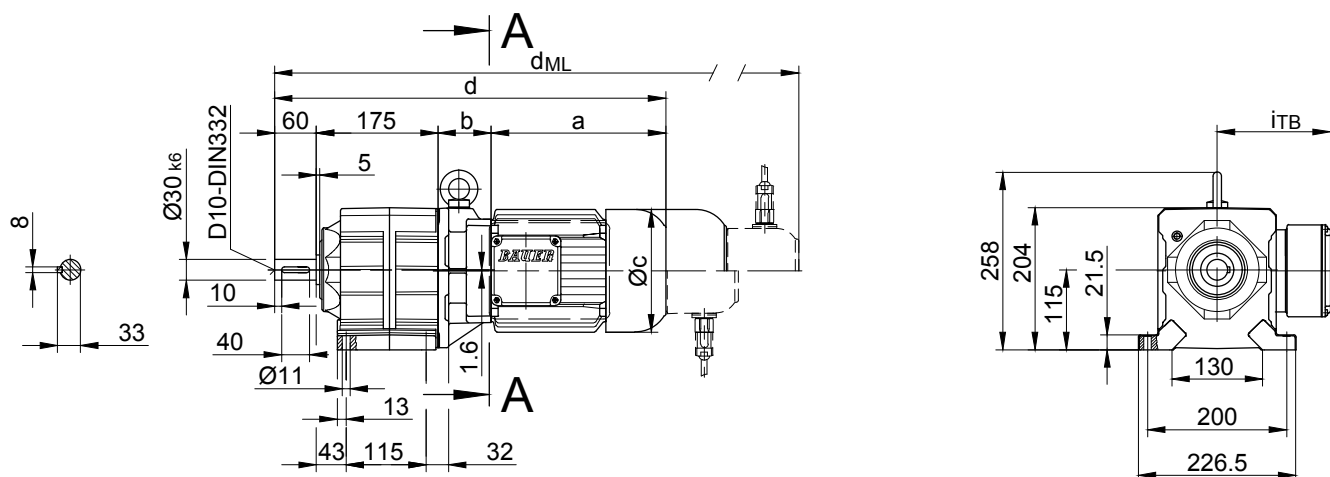
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

BG30 - BG30Z

Foot mounting with clearance holes

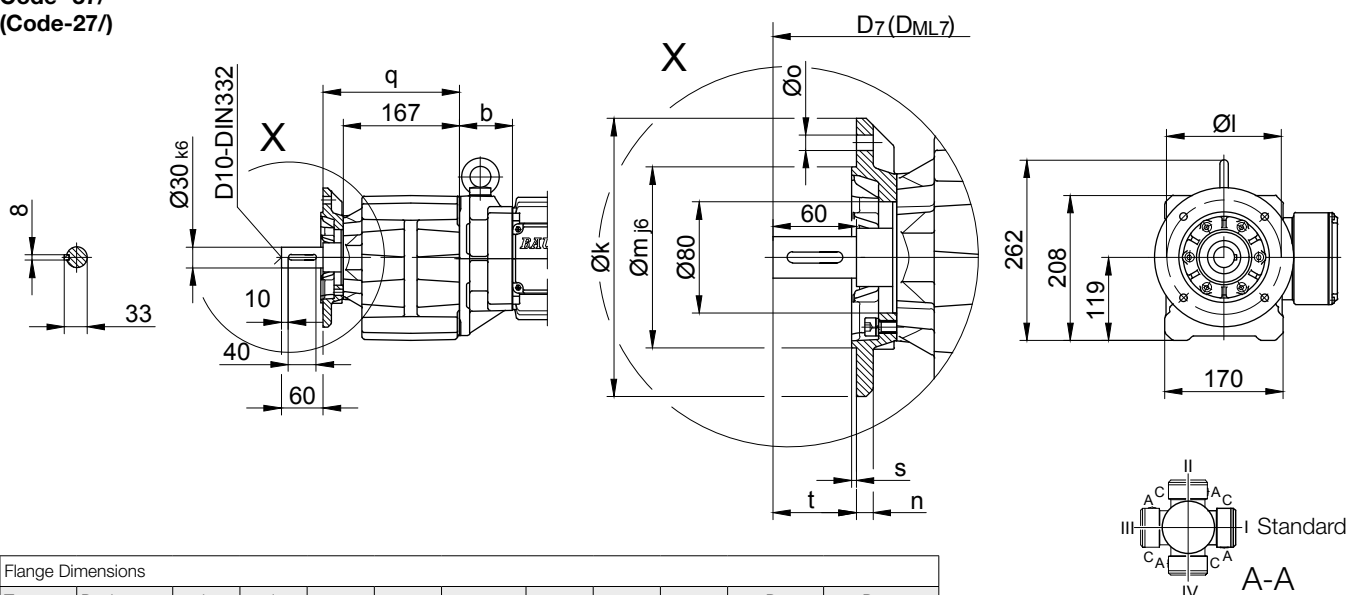
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG30..	Code -37/	7,874	6,496	5,118	0,472	0,433	7,717	0,138	2,380	d+0,827	d _{ML} +0,827
BG30..	Code -27/	6,299	5,118	4,331	0,394	0,354	7,441	0,138	2,655	d+0,827	d _{ML} +0,827

Dimensions in inch

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG30-../D..05.A.	170.5	58	123	463.5	101	117	505.5	566	603.5	-
BG30Z-../D..05.A.	170.5	133.5	123	539	101	117	581	641.5	679	-
BG30-../D..06.A.	170.5	58	123	463.5	99	119	505.5	566	603.5	-
BG30Z-../D..06.A.	170.5	133.5	123	539	99	119	581	641.5	679	-
BG30-../D..07.A.	190.5	58	123	483.5	99	119	525.5	586	623.5	-
BG30Z-../D..07.A.	190.5	133.5	123	559	99	119	601	661.5	699	-
BG30-../D..08.A.	199.5	62	156	496.5	114.5	136.5	562.5	608.5	670	562.5
BG30Z-../D..08.A.	199.5	137.5	156	572	114.5	136.5	638	684	745.5	638
BG30-../D..08.B.	229.5	62	156	526.5	114.5	136.5	592.5	638.5	699.5	592.5
BG30Z-../D..08.B.	229.5	137.5	156	602	114.5	136.5	668	714	775	668
BG30-../D..09.A.	250.5	76.5	176	562	124	157	655	727	759	655
BG30Z-../D..09.A.	250.5	152	176	637.5	124	157	730.5	802.5	834.5	730.5
BG30-../D..09.B.	308.5	76.5	176	620	124	157	713	727	817	713
BG30Z-../D..09.B.	308.5	152	176	695.5	124	157	788.5	802.5	892.5	788.5
BG30-../D..11.A.	319	83	218	637	165	176	735	744.5	837	735
BG30-../D..11.B.	387	83	218	705	165	176	801	812.5	905	801

Dimensions in millimetres (mm)

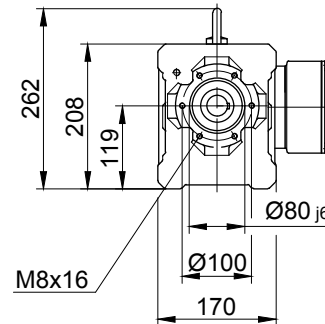
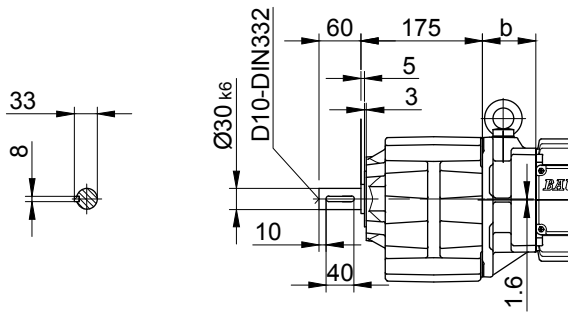
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG30 - BG30Z

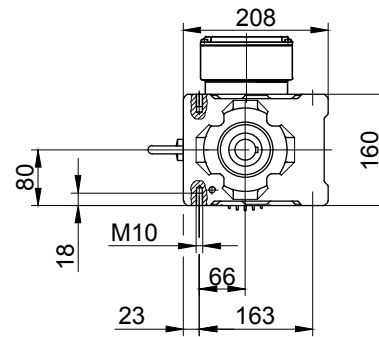
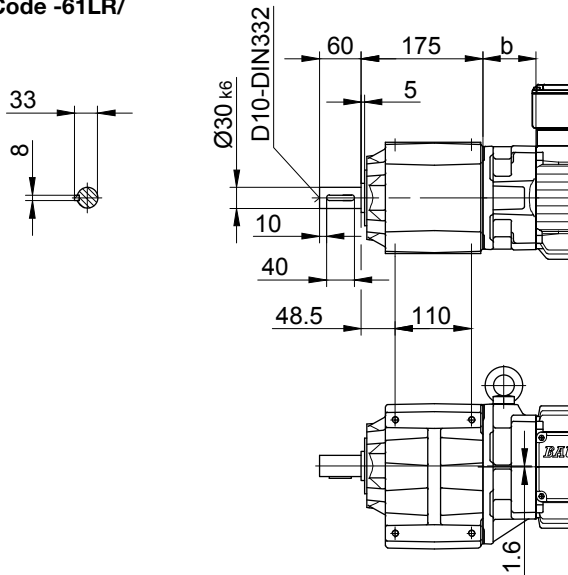
Flange with tapped holes

Code -71/



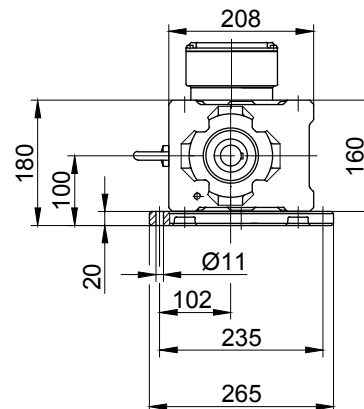
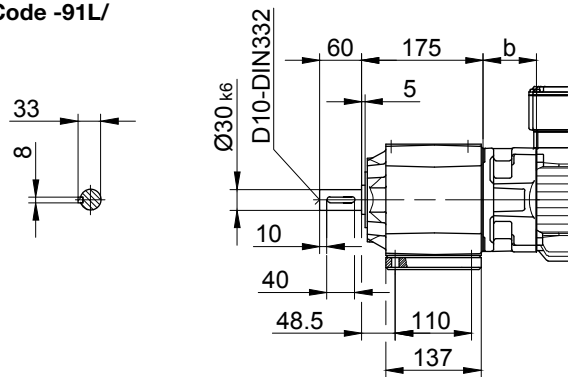
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



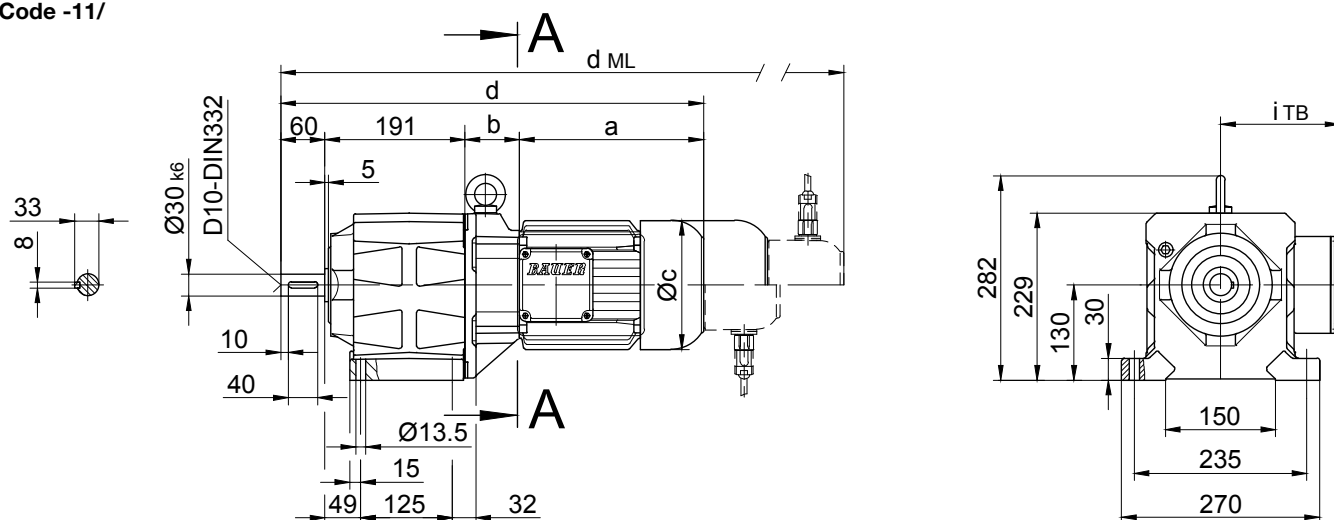
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

BG40 - BG40Z

Foot mounting with clearance holes

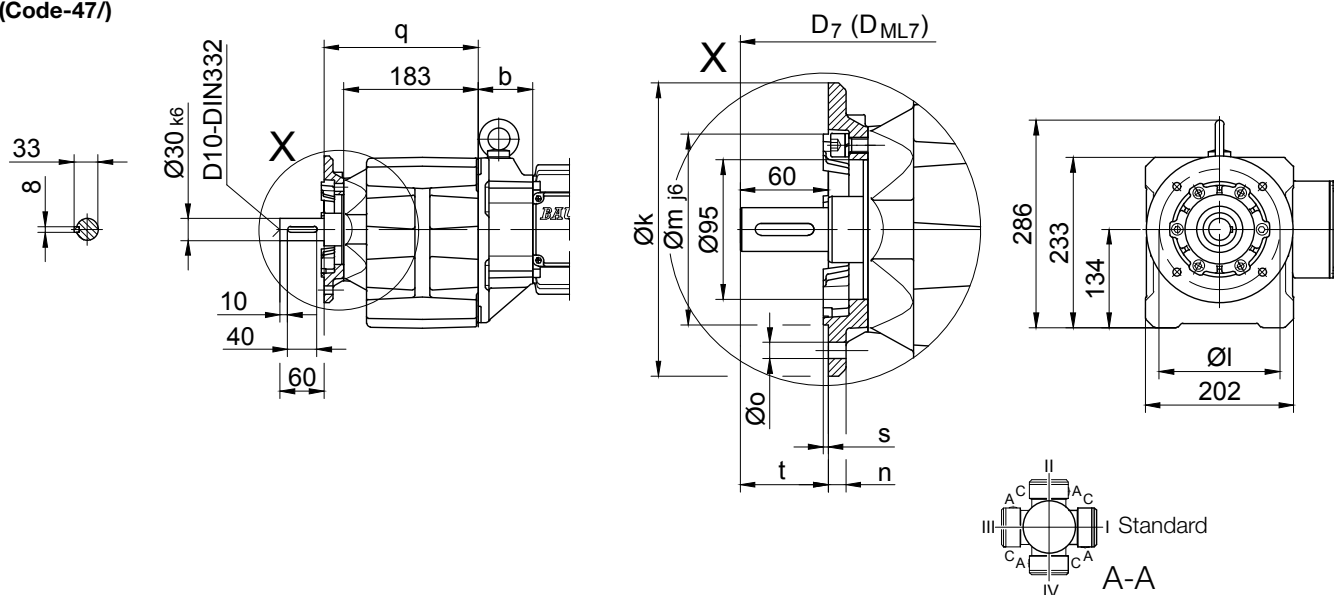
Code -11/



Flange with clearance holes

Code -37/

(Code-47/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG40..	Code -37/	7,874	6,496	5,118	0,472	0,433	8,268	0,138	2,399	d+0,748	d _{ML} +0,748
BG40..	Code -47/	9,843	8,465	7,087	0,630	0,531	8,622	0,157	2,045	d+0,748	d _{ML} +0,748

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG40Z-../D..05.A.	170.5	138.5	123	560	101	117	602	662.5	700	-
BG40Z-../D..06.A.	170.5	138.5	123	560	99	119	602	662.5	700	-
BG40Z-../D..07.A.	190.5	138.5	123	580	99	119	622	682.5	720	-
BG40-../D..08.A.	199.5	60	156	510.5	114.5	136.5	576.5	622.5	684	576.5
BG40Z-../D..08.A.	199.5	142.5	156	593	114.5	136.5	659	705	766.5	659
BG40-../D..08.B.	229.5	60	156	540.5	114.5	136.5	606.5	652.5	713.5	606.5
BG40Z-../D..08.B.	229.5	142.5	156	623	114.5	136.5	689	735	796	689
BG40-../D..09.A.	250.5	74.5	176	576	124	157	669	683.5	773	669
BG40Z-../D..09.A.	250.5	157	176	658.5	124	157	751.5	766	855.5	751.5
BG40-../D..09.B.	308.5	74.5	176	634	124	157	727	741	831	727
BG40Z-../D..09.B.	308.5	157	176	716.5	124	157	809.5	823.5	913.5	809.5
BG40-../D..11.A.	319	81	218	651	165	176	749	758.5	851	749
BG40-../D..11.B.	387	81	218	719	165	176	815	826.5	919	815

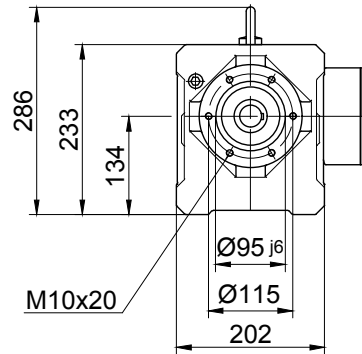
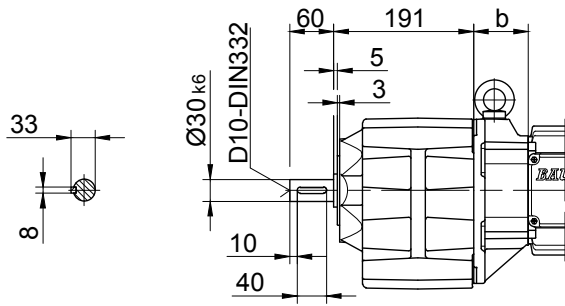
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG40 - BG40Z

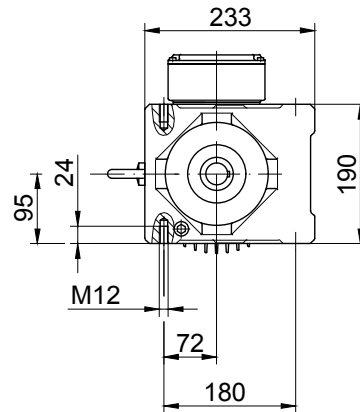
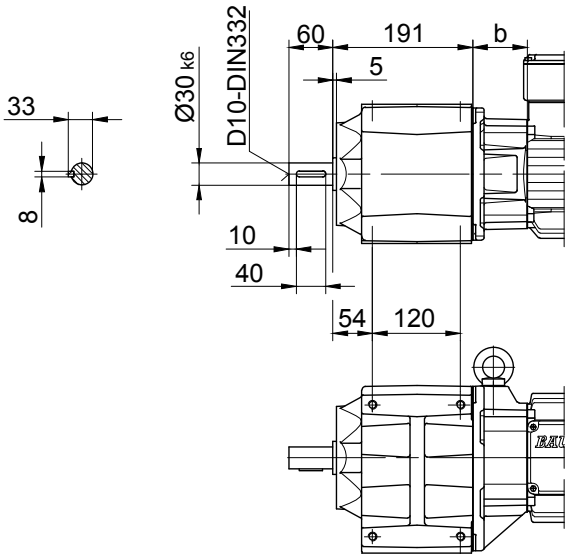
Flange with tapped holes

Code -71/



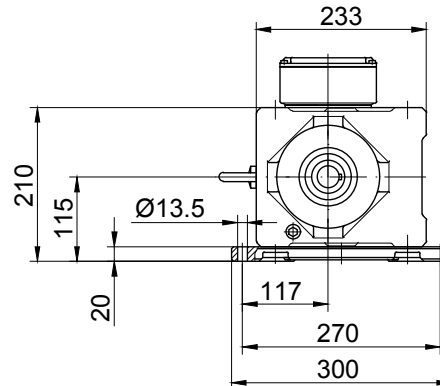
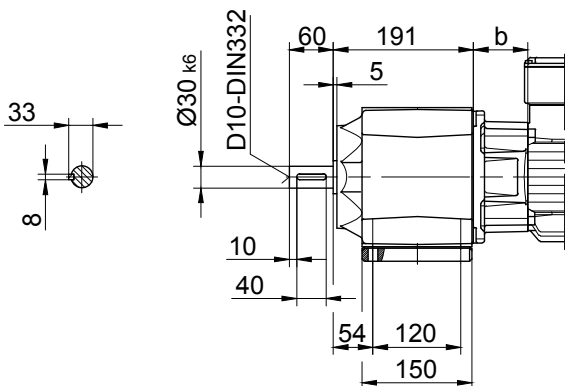
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



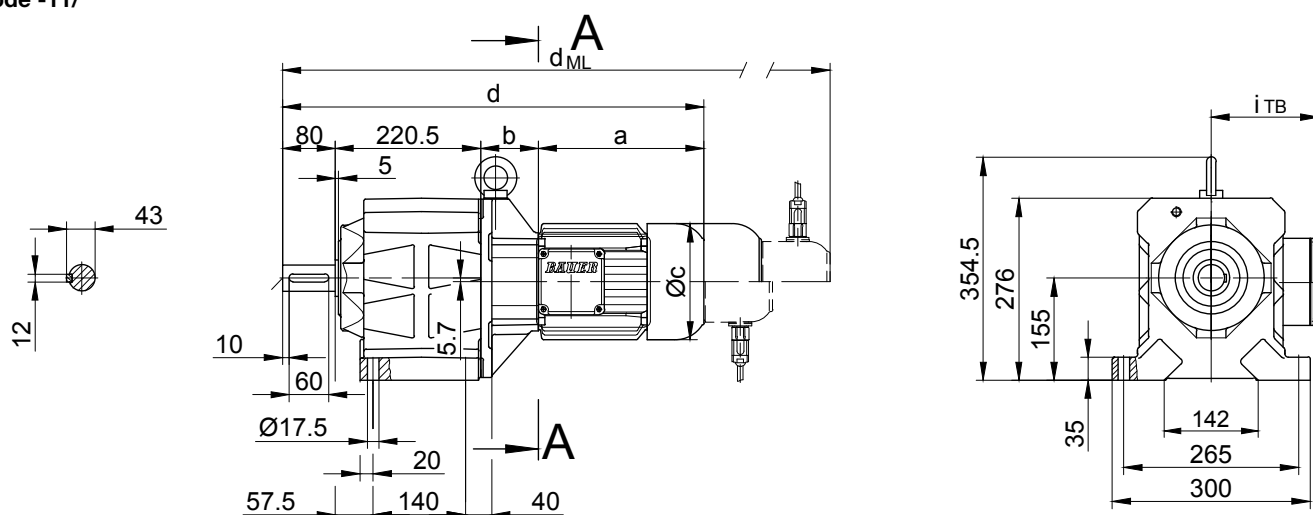
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

BG50 - BG50Z

Foot mounting with clearance holes

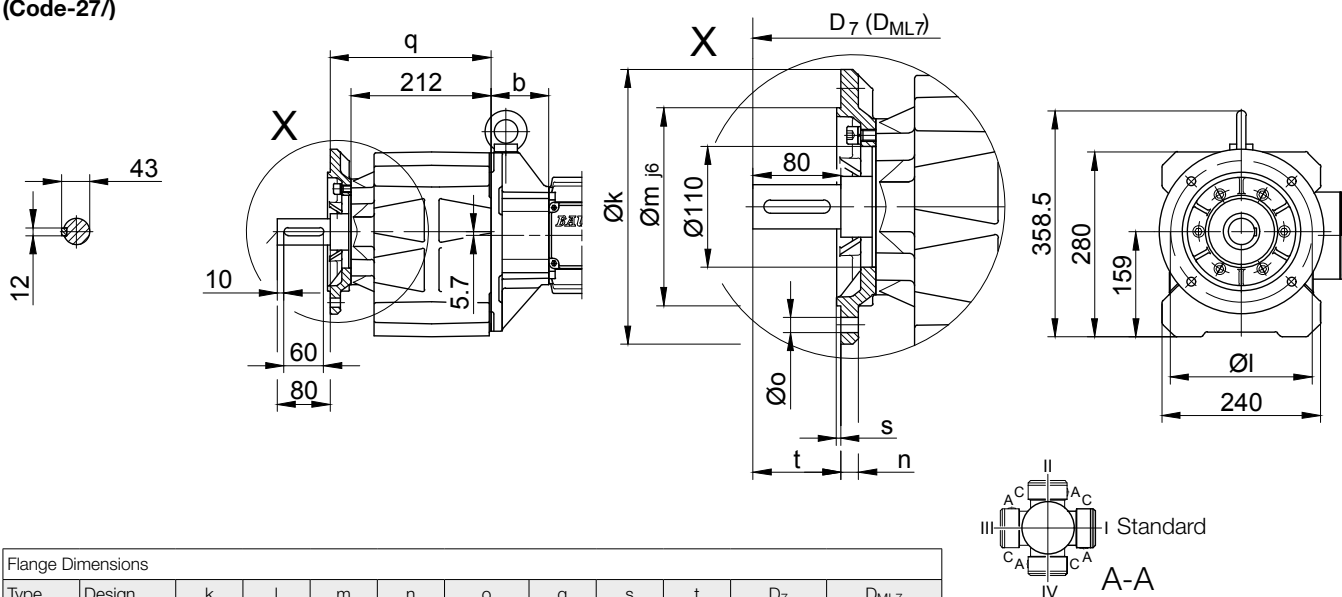
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG50..	Code -37/	9,843	8,465	7,087	0,630	0,531	9,606	0,157	3,170	d+0,925	d _{ML} +0,925
BG50..	Code -27/	7,874	6,496	5,118	0,472	0,433	9,488	0,138	3,288	d+0,925	d _{ML} +0,925

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG50Z-../D..05.A.	170.5	155	123	626	101	117	668	728.5	766	-
BG50Z-../D..06.A.	170.5	155	123	626	99	119	668	728.5	766	-
BG50Z-../D..07.A.	190.5	155	123	646	99	119	688	748.5	786	-
BG50-../D..08.A.	199.5	73	156	573	114.5	136.5	639	685	746.5	639
BG50Z-../D..08.A.	199.5	159	156	659	114.5	136.5	725	771	832.5	725
BG50-../D..08.B.	229.5	73	156	603	114.5	136.5	669	715	776	669
BG50Z-../D..08.B.	229.5	159	156	689	114.5	136.5	755	801	862	755
BG50-../D..09.A.	250.5	87.5	176	638.5	124	157	731.5	746	835.5	731.5
BG50Z-../D..09.A.	250.5	173.5	176	724.5	124	157	817.5	832	921.5	817.5
BG50-../D..09.B.	308.5	87.5	176	696.5	124	157	789.5	803.5	893.5	789.5
BG50Z-../D..09.B.	308.5	173.5	176	782.5	124	157	875.5	889.5	979.5	875.5
BG50-../D..11.A.	319	94	218	713.5	165	176	811.5	821	913.5	811.5
BG50-../D..11.B.	387	94	218	781.5	165	176	877.5	889	981.5	877.5
BG50-../D..13.A.	393	107	258	800.5	217	217	911.5	907.5	1012.5	908.5
BG50-../D..16.B.	454.5	121	310	876	243	243	1019.5	983	1123	1019.5
BG50-../D..18.B.	542	143	348	985.5	288	288	1135	1091	1238.5	1135

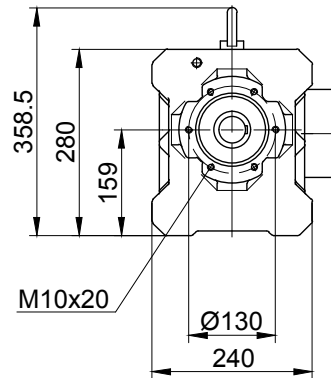
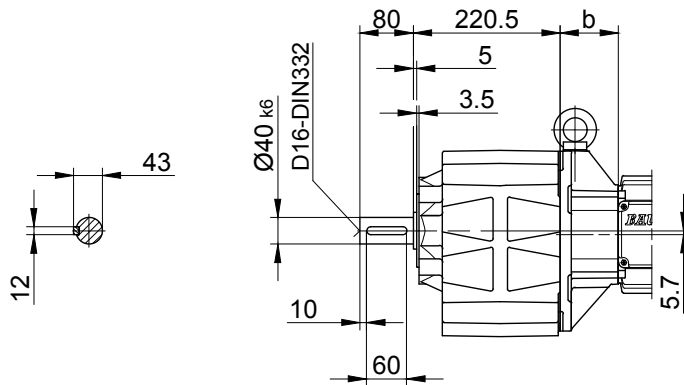
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG50 - BG50Z

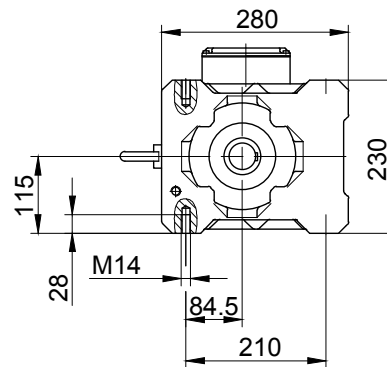
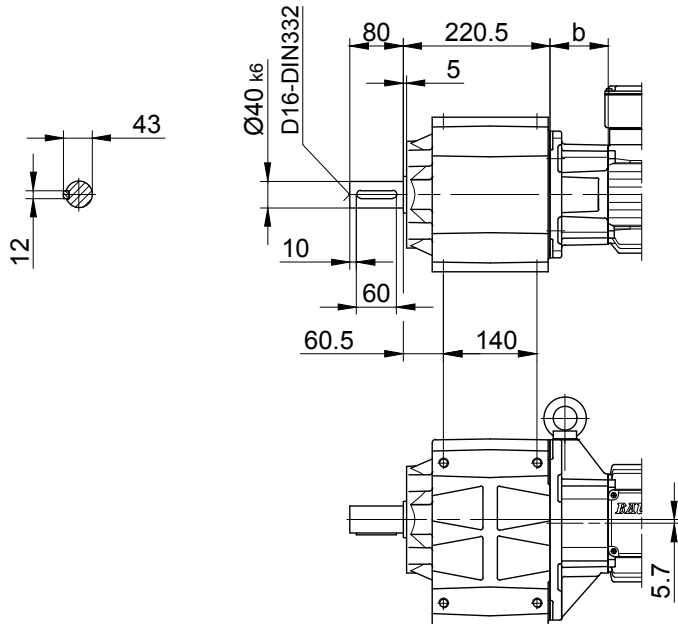
Flange with tapped holes

Code -71/



Foot with tapped holes left and right

Code -61LR/

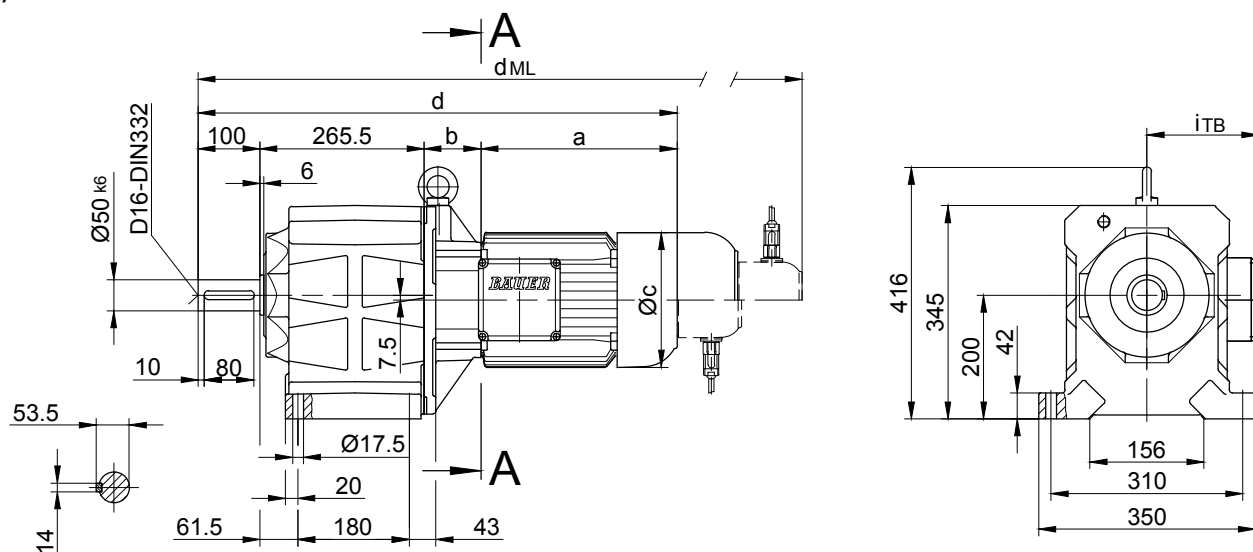


Dimension - Standard Metric

BG60 - BG60Z

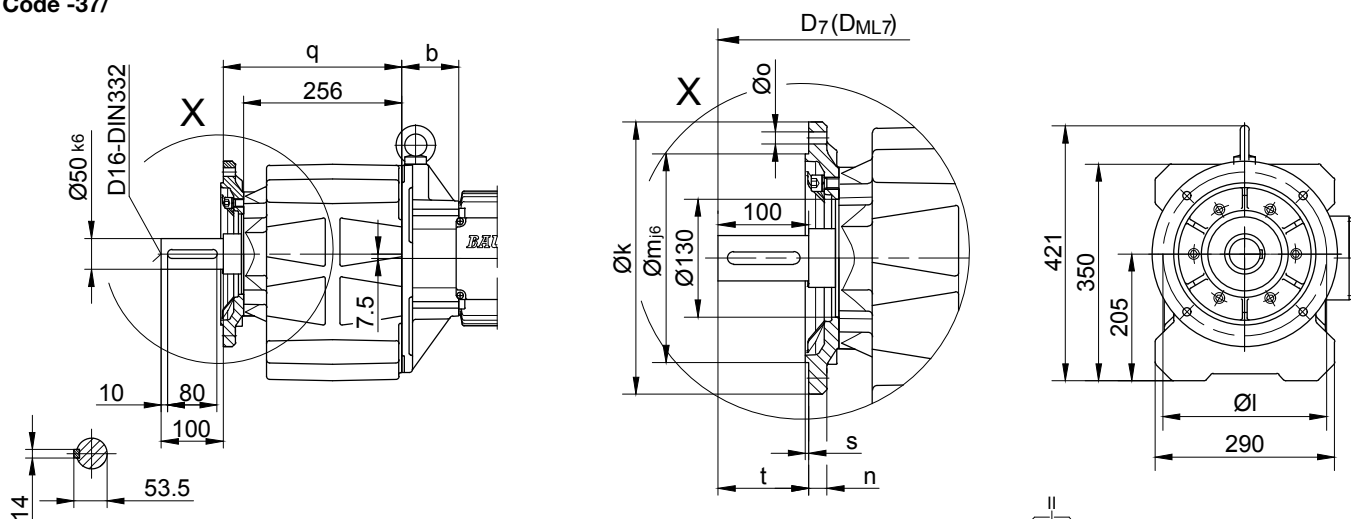
Foot mounting with clearance holes

Code -11/



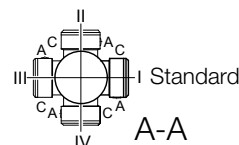
Flange with clearance holes

Code -37/



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG60...	Code -37/	11,811	10,433	9,055	0,787	0,531	11,378	0,157	3,960	d+0,925	d _{ML} +0,925
BG60..	Code -27/	9,843	8,465	7,087	0,630	0,531	11,260	0,157	4,078	d+0,925	d _{ML} +0,925

Dimensions in inch



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG60Z-../D..08.A.	199.5	181	156	746	114.5	136.5	812	858	919.5	812
BG60Z-../D..08.B.	229.5	181	156	776	114.5	136.5	842	888	949	842
BG60-../D..09.A.	250.5	85.5	176	701.5	124	157	794.5	809	898.5	794.5
BG60Z-../D..09.A.	250.5	195.5	176	811.5	124	157	904.5	919	1008.5	904.5
BG60-../D..09.B.	308.5	85.5	176	759.5	124	157	852.5	866.5	956.5	852.5
BG60Z-../D..09.B.	308.5	195.5	176	869.5	124	157	962.5	976.5	1066.5	962.5
BG60-../D..11.A.	319	92	218	776.5	165	176	874.5	884	976.5	874.5
BG60Z-../D..11.A.	319	202	218	886.5	165	176	984.5	994	1086.5	984.5
BG60-../D..11.B.	387	92	218	844.5	165	176	940.5	952	1044.5	940.5
BG60Z-../D..11.B.	387	202	218	954.5	165	176	1050.5	1062	1154.5	1050.5
BG60-../D..13.A.	393	105	258	863.5	217	217	974.5	970.5	1075.5	971.5
BG60-../D..16.B.	454.5	119	310	939	243	243	1082.5	1046	1186	1082.5
BG60-../D..18.B.	542	141	348	1048.5	288	288	1198	1154	1301.5	1198

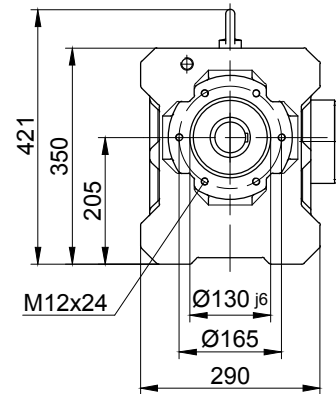
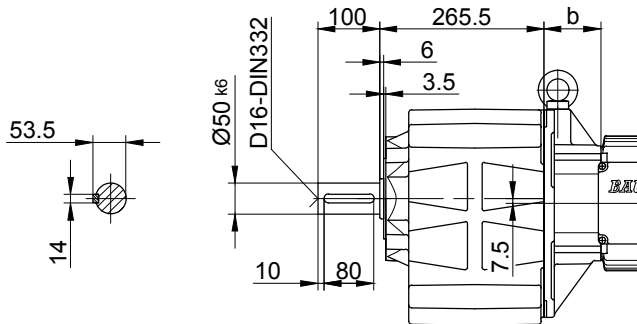
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG60 - BG60Z

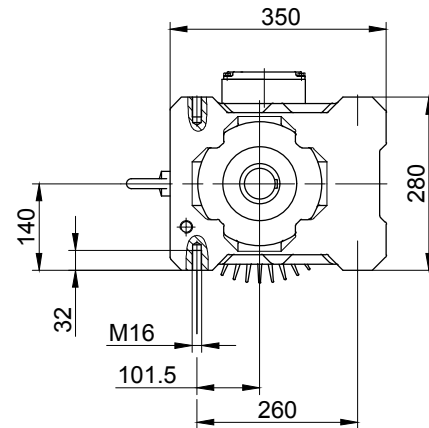
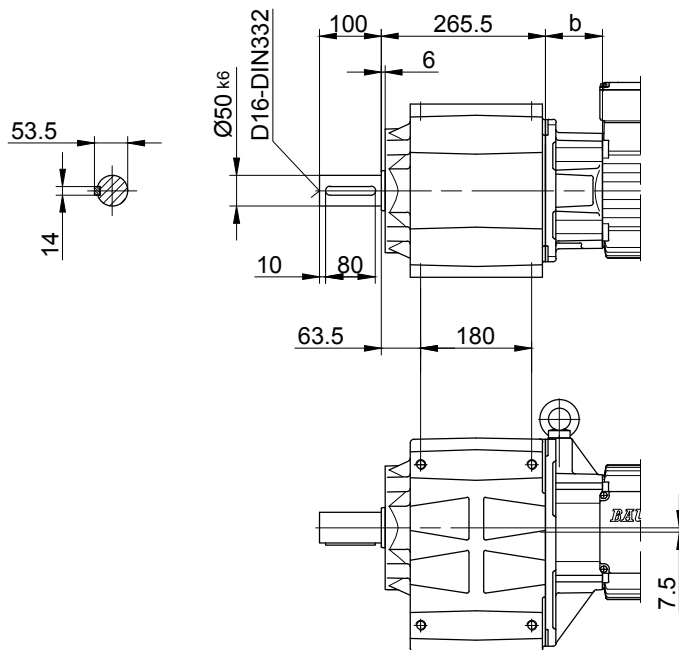
Flange with tapped holes

Code -71/



Foot with tapped holes left and right

Code -61LR/



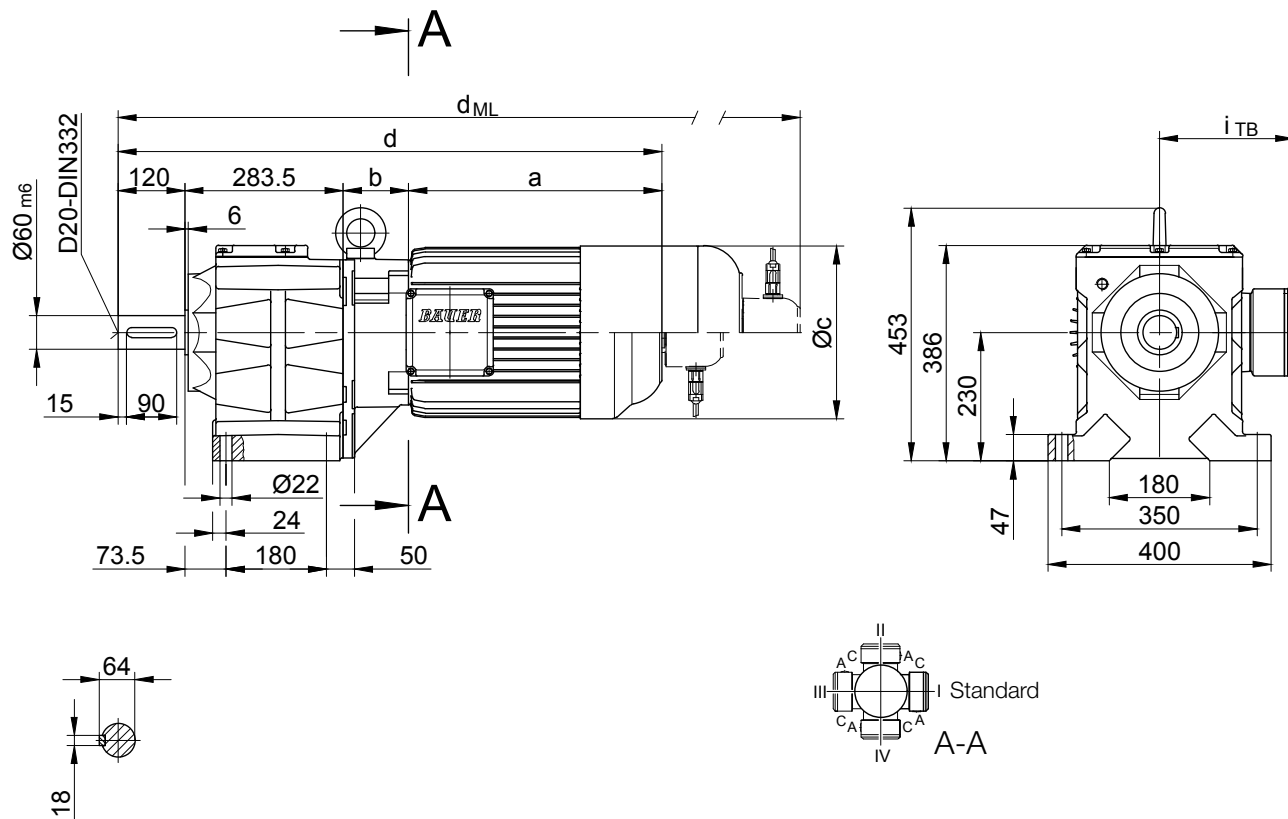
BG-series helical-geared motors

Dimension - Standard Metric

BG70 - BG70Z

Foot mounting with clearance holes

Code -11/



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG70..	Code -37/	13,780	11,811	9,843	0,787	0,689	12,362	0,197	4,740	d+1,201	d _{ML} +1,201
BG70..	Code -27/	11,811	10,433	9,055	0,787	0,531	12,677	0,157	4,464	d+1,201	d _{ML} +1,201

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG70Z-../D..08.A.	199.5	202	156	805	114.5	136.5	d _{ML} 871	d _{ML} 917	d _{ML} 978.5	d _{ML} 871
BG70Z-../D..08.B.	229.5	202	156	835	114.5	136.5	901	947	1008	901
BG70-../D..09.A.	250.5	83.5	176	737.5	124	157	830.5	845	934.5	830.5
BG70Z-../D..09.A.	250.5	216.5	176	870.5	124	157	963.5	978	1067.5	963.5
BG70-../D..09.B.	308.5	83.5	176	795.5	124	157	888.5	902.5	992.5	888.5
BG70Z-../D..09.B.	308.5	216.5	176	928.5	124	157	1021.5	1035.5	1125.5	1021.5
BG70-../D..11.A.	319	90	218	812.5	165	176	910.5	920	1012.5	910.5
BG70Z-../D..11.A.	319	223	218	945.5	165	176	1043.5	1053	1145.5	1043.5
BG70-../D..11.B.	387	90	218	880.5	165	176	976.5	988	1080.5	976.5
BG70Z-../D..11.B.	387	223	218	1013.5	165	176	1109.5	1121	1213.5	1109.5
BG70-../D..13.A.	393	103	258	899.5	217	217	1010.5	1006.5	1111.5	1007.5
BG70Z-../D..13.A.	393	236	258	1032.5	217	217	1143.5	1139.5	1244.5	1140.5
BG70-../D..16.B.	454.5	117	310	975	243	243	1118.5	1082	1222	1118.5
BG70Z-../D..16.B.	454.5	250	310	1108	243	243	1251.5	653.5	1355	1251.5
BG70-../D..18.B.	542	139	348	1084.5	288	288	1234	1190	1337.5	1234
BG70Z-../D..18.B.	542	272	348	1217.5	288	288	1367	1323	1470.5	1367
BG70-../D..20.A.	703.5	156	363	1263	280	280	1390.5	1368.5	1496	1263
BG70-../D..22.A.	703.5	156	363	1263	280	280	1390.5	1368.5	1496	1263

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

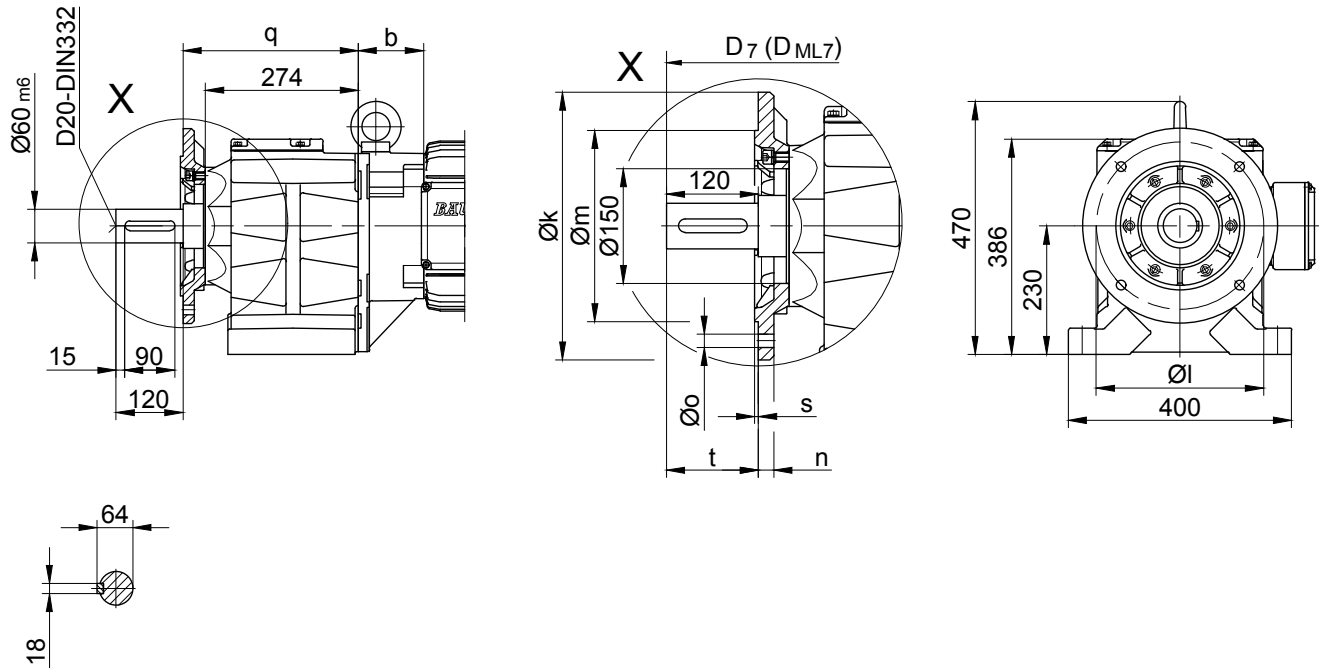
Dimension - Standard Metric

BG70 - BG70Z

Flange with clearance holes

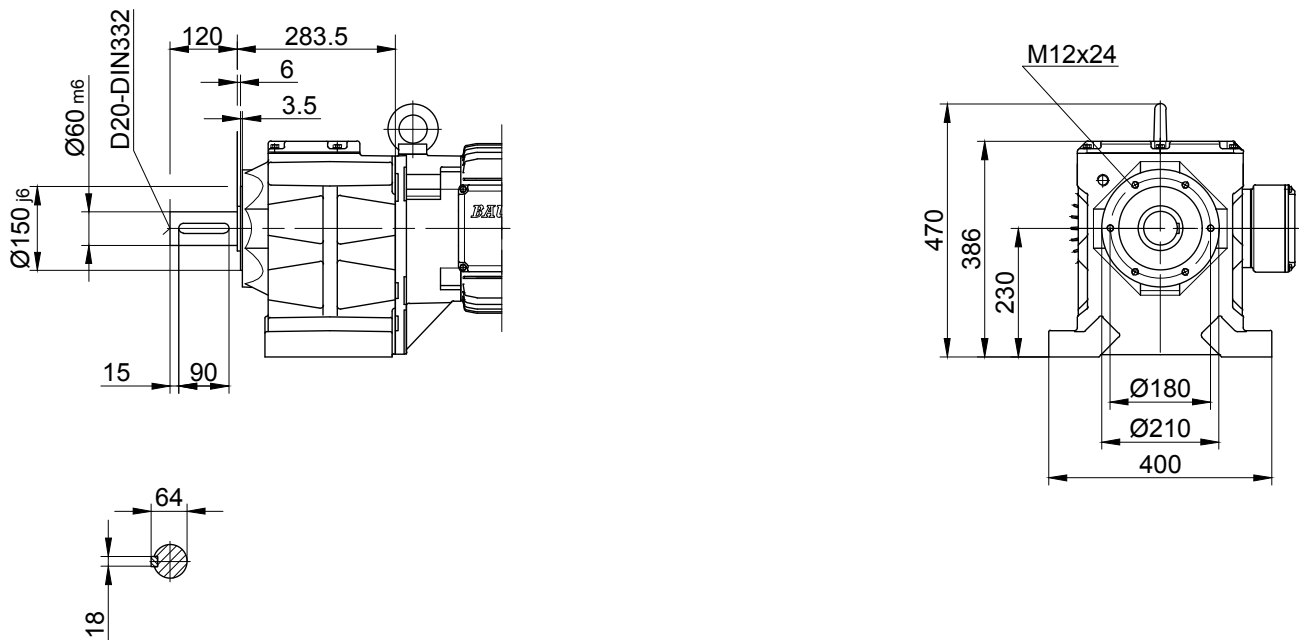
Code -37/

(Code -27/)



Flange with clearance holes

Code -71/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

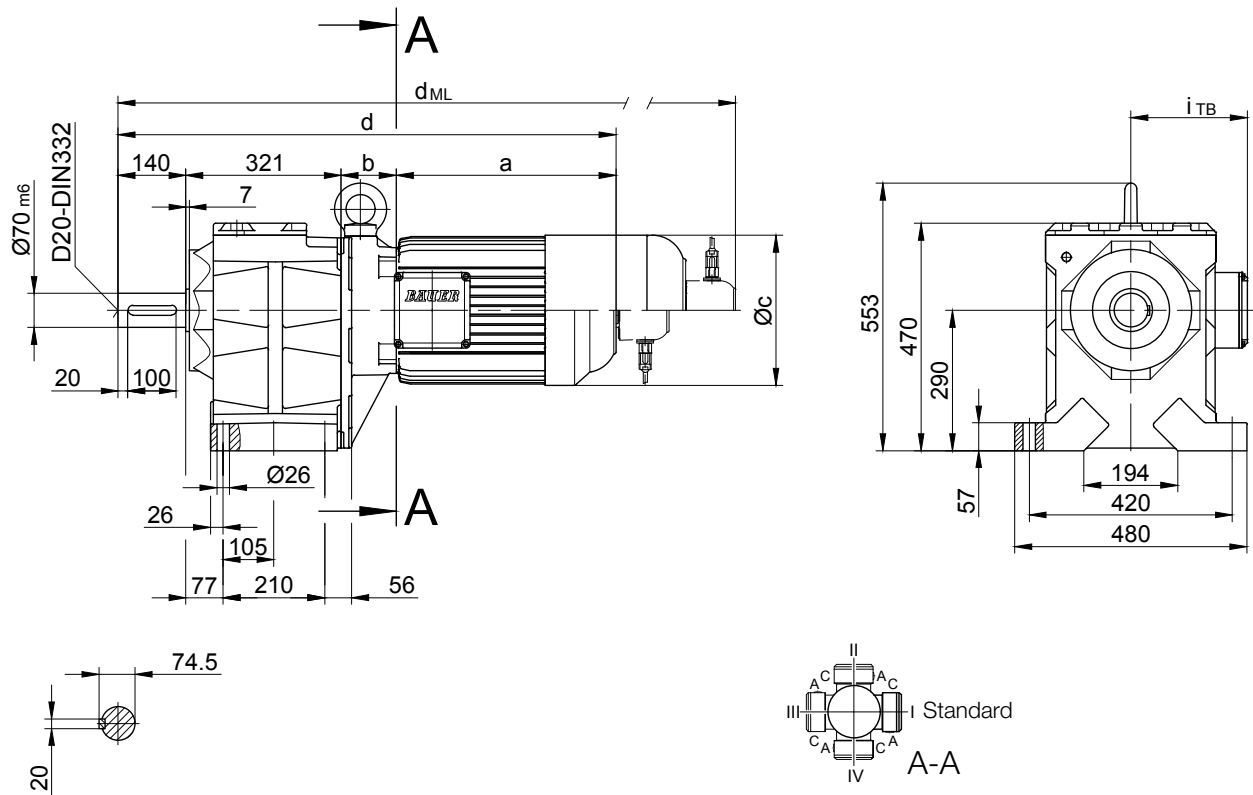
BG-series helical-geared motors

Dimension - Standard Metric

BG80 - BG80Z

Foot mounting with clearance holes

Code -11/



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG80..	Code -37/	15,748	13,780	11,811	0,787	4 x 0,689	13,583	0,197	5,549	d+0,945	d _{ML} +0,945
BG80..	Code -27/	13,780	11,811	9,843	0,787	4 x 0,689	13,583	0,197	5,549	d+0,945	d _{ML} +0,945

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG80Z-../D..09.A.	250.5	252.5	176	964	124	157	1057	1071.5	1161	1057
BG80Z-../D..09.B.	308.5	252.5	176	1022	124	157	1115	1129	1219	1115
BG80-../D..11.A.	319	87	218	867	165	176	965	974.5	1067	965
BG80Z-../D..11.A.	319	259	218	1039	165	176	1137	1146.5	1067	965
BG80-../D..11.B.	387	87	218	935	165	176	1031	1042.5	1135	1031
BG80Z-../D..11.B.	387	259	218	1107	165	176	1203	1214.5	1307	1203
BG80-../D..13.A.	393	100	258	954	217	217	1065	1061	1166	1062
BG80Z-../D..13.A.	393	272	258	1126	217	217	1237	1233	1338	1234
BG80-../D..16.B.	454.5	114	310	1029.5	243	243	1173	1136.5	1276.5	1173
BG80Z-../D..16.B.	454.5	286	310	1201.5	243	243	1345	1308.5	1448.5	1345
BG80-../D..18.B.	542	136	348	1139	288	288	1195	1158.5	1298.5	1195
BG80Z-../D..18.B.	542	308	348	1311	288	288	1367	1330.5	1470.5	1367
BG80-../D..20.A.	703.5	153	363	1317.5	280	280	1445	1423	1550.5	1317.5
BG80-../D..22.A.	703.5	153	363	1317.5	280	280	1445	1423	1550.5	1317.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

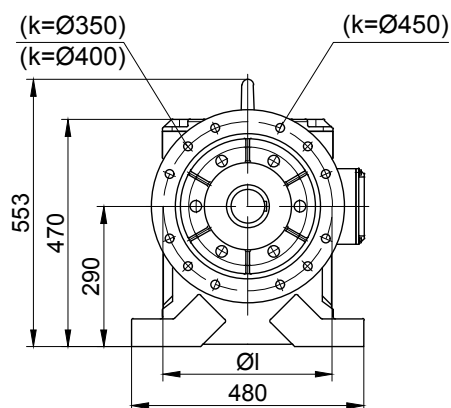
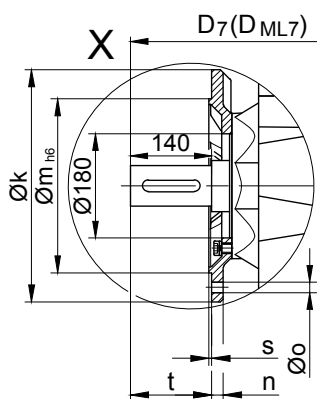
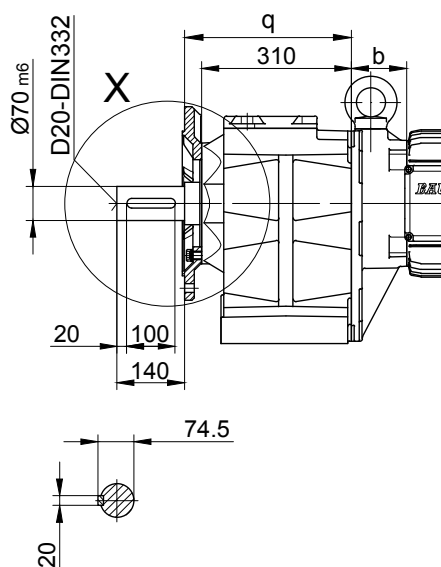
BG80 - BG80Z

Flange with clearance holes

Code -37/

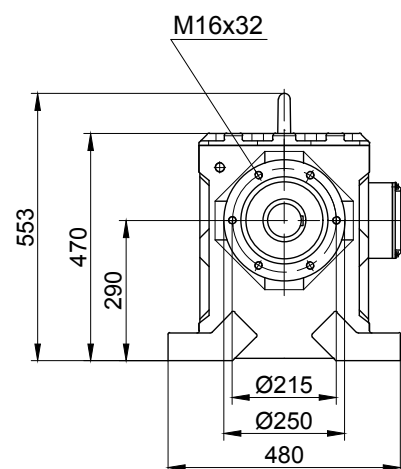
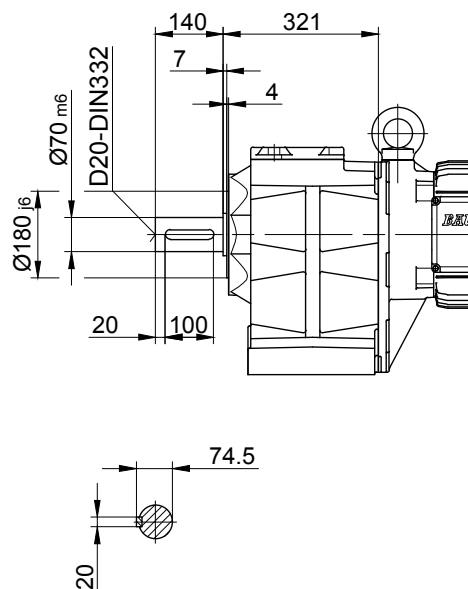
(Code -27/)

(Code -47/)



Flange with tapped holes

Code -71/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

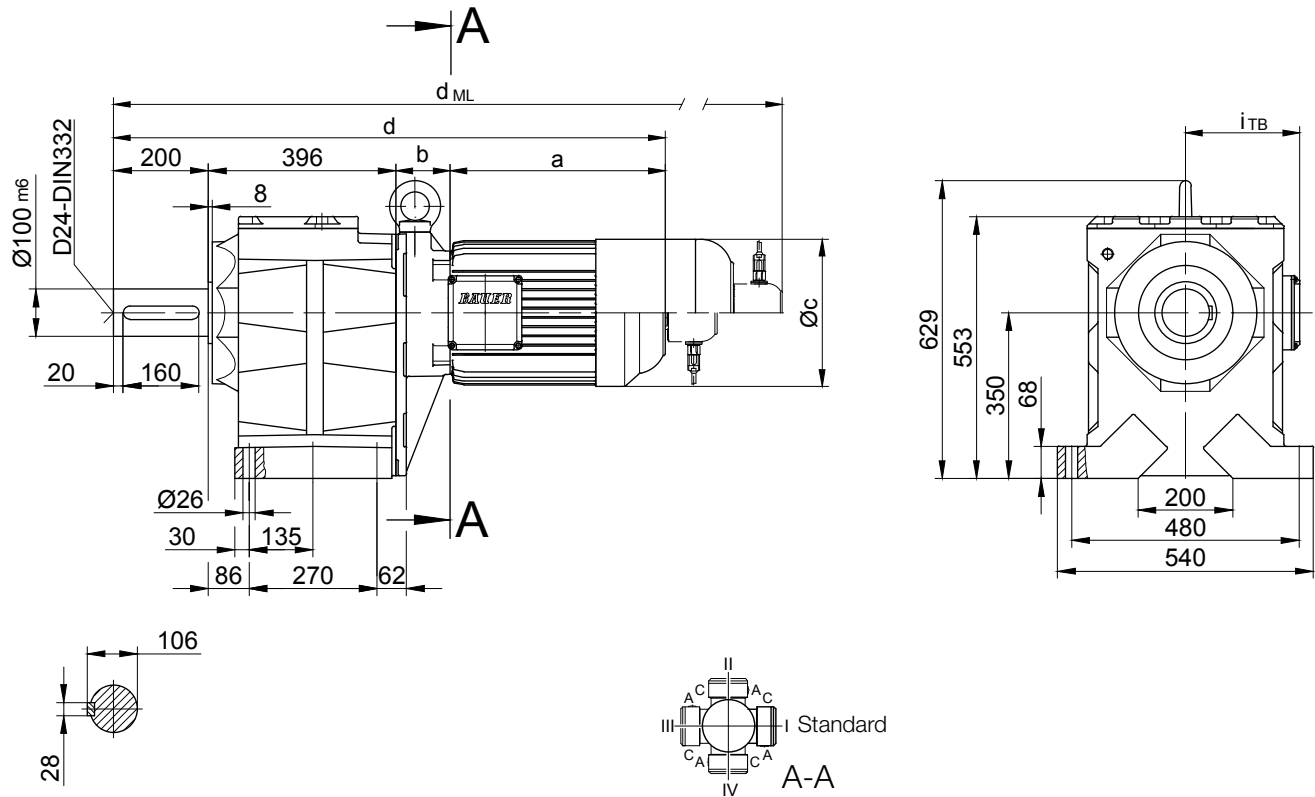
BG-series helical-geared motors

Dimension - Standard Metric

BG90 - BG90Z

Foot mounting with clearance holes

Code -11/



Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG80..	Code -47/	17,717	15,748	13,780	0,866	8 x 0,689	13,976	0,197	5,156	$d+0,945$	$d_{ML}+0,945$
BG90..	Code -37/	17,717	15,748	13,780	0,866	0,689	17,283	0,197	8,309	$d+1,693$	$d_{ML}+1,693$
BG90..	Code -47/	21,654	19,685	17,717	0,866	0,689	17,480	0,197	8,113	$d+1,693$	$d_{ML}+1,693$

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG90Z-../D..09.A.	250.5	267	176	1113.5	124	157	1206.5	1221	1310.5	1206.5
BG90Z-../D..09.B.	308.5	267	176	1171.5	124	157	1264.5	1278.5	1368.5	1264.5
BG90Z-../D..11.A.	319	273.5	218	1188.5	165	176	1286.5	1296	1388.5	1286.5
BG90Z-../D..11.B.	387	273.5	218	1256.5	165	176	1352.5	1364	1456.5	1352.5
BG90-../D..13.A.	393	100	258	1089	217	217	1200	1196	1301	1197
BG90Z-../D..13.A.	393	286.5	258	1275.5	217	217	1386.5	1382.5	1487.5	1383.5
BG90-../D..16.B.	454.5	114	310	1164.5	243	243	1308	1271.5	1411.5	1308
BG90Z-../D..16.B.	454.5	300.5	310	1351	243	243	1494.5	1458	1598	1494.5
BG90-../D..18.B.	542	136	348	1274	288	288	1423.5	1379.5	1527	1423.5
BG90Z-../D..18.B.	542	322.5	348	1460.5	288	288	1610	1566	1713.5	1610
BG90-../D..20.A.	703.5	153	363	1452.5	280	280	1580	1498	1685.5	1452.5
BG90-../D..22.A.	703.5	153	363	1452.5	280	280	1580	1558	1685.5	1452.5

Dimensions in millimetres (mm)

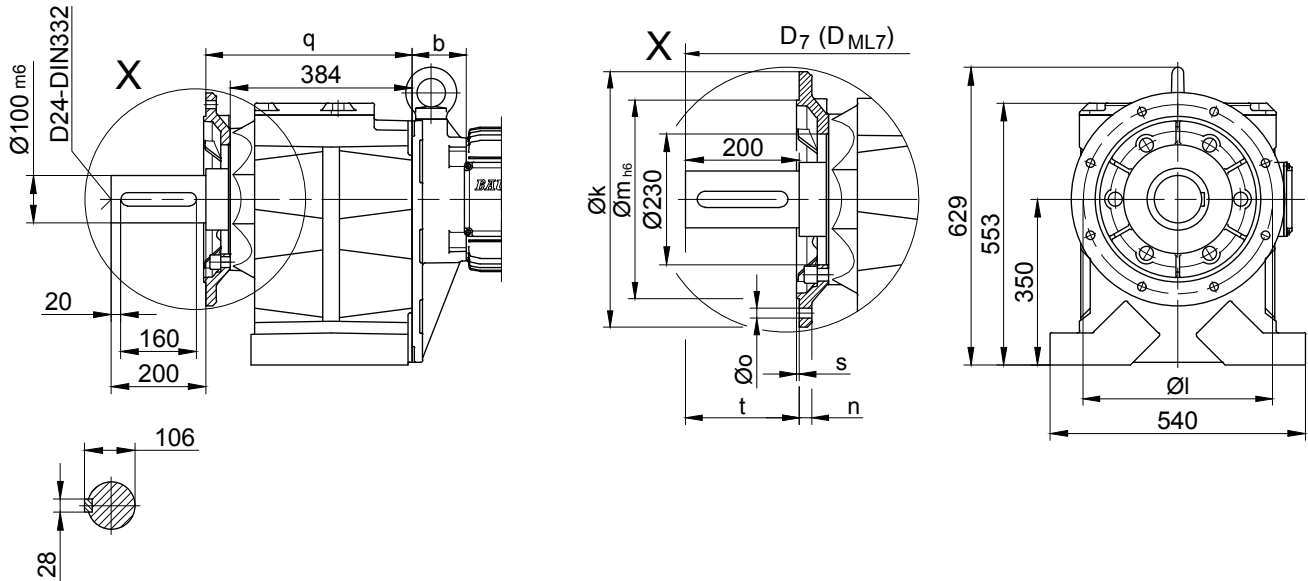
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG90 - BG90Z

Flange with clearance holes

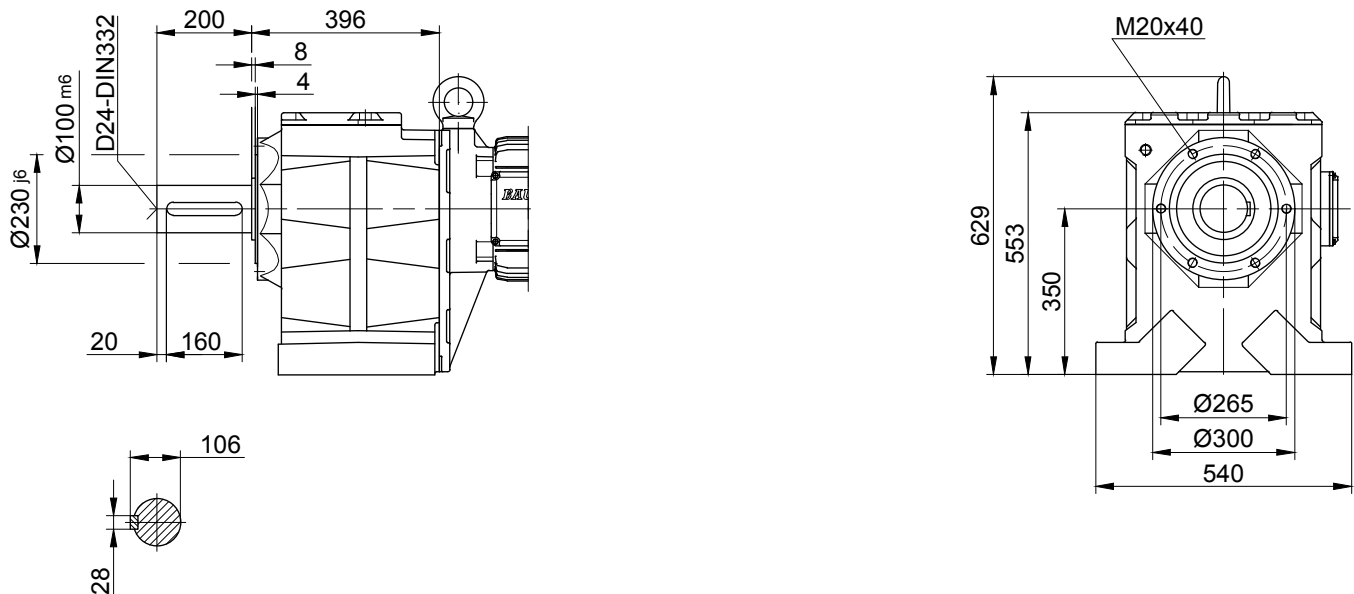
Code -37/

(Code -47/)



Flange with tapped holes

Code -71/



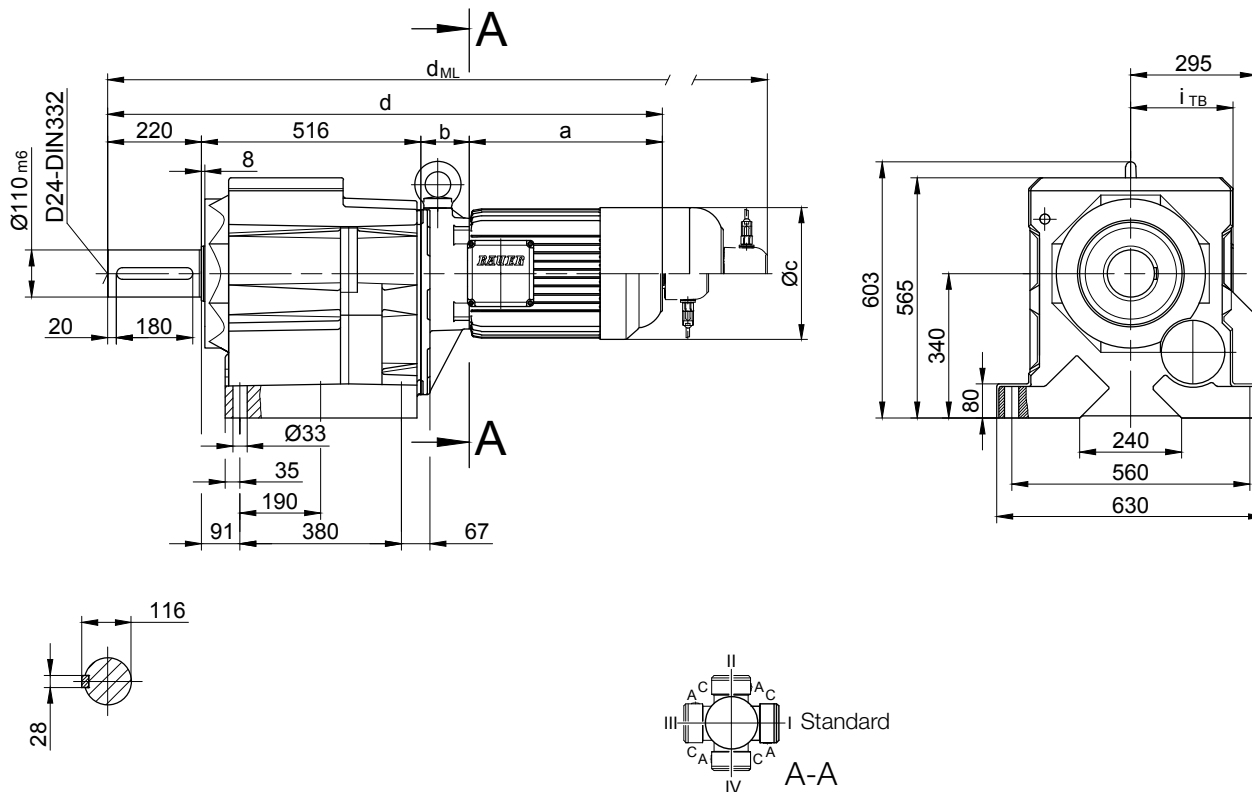
BG-series helical-geared motors

Dimension - Standard Metric

BG100 - BG100Z

Foot mounting with clearance holes

Code -11/



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG100..	Code -37/	21,654	19,685	17,717	0,866	0,689	21,969	0,197	8,270	d+1,653	d _{ML} +1,653
BG100..	Code -47/	25,984	23,622	21,654	0,984	0,866	21,732	0,236	8,546	d+1,653	d _{ML} +1,653

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG100Z-../D..09.A.	250.5	252.5	176	1239	124	157	1332	1346.5	1436	1332
BG100Z-../D..09.B.	308.5	252.5	176	1297	124	157	1390	1404	1494	1390
BG100Z-../D..11.A.	319	87	218	1142	165	176	1240	1249.5	1342	1240
BG100Z-../D..11.A.	319	259	218	1314	165	176	1412	1421.5	1514	1412
BG100-../D..11.B.	387	87	218	1210	165	176	1306	1317.5	1410	1306
BG100Z-../D..11.B.	387	259	218	1382	165	176	1478	1489.5	1582	1478
BG100-../D..13.A.	393	100	258	1229	217	217	1340	1336	1441	1337
BG100Z-../D..13.A.	393	272	258	1401	217	217	1512	1508	1613	1509
BG100-../D..16.B.	454.5	114	310	1304.5	243	243	1448	1411.5	1551.5	1448
BG100Z-../D..16.B.	454.5	286	310	1476.5	243	243	1620	1583.5	1723.5	1620
BG100-../D..18.B.	542	136	348	1414	288	288	1470	1519.5	1573.5	1470
BG100Z-../D..18.B.	542	308	348	1586	288	288	1735.5	1691.5	1839	1735.5
BG100-../D..20.A.	703.5	153	363	1592.5	280	280	1720	1698	1825.5	1592.5
BG100-../D..22.A.	703.5	153	363	1592.5	280	280	1720	1698	1825.5	1592.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

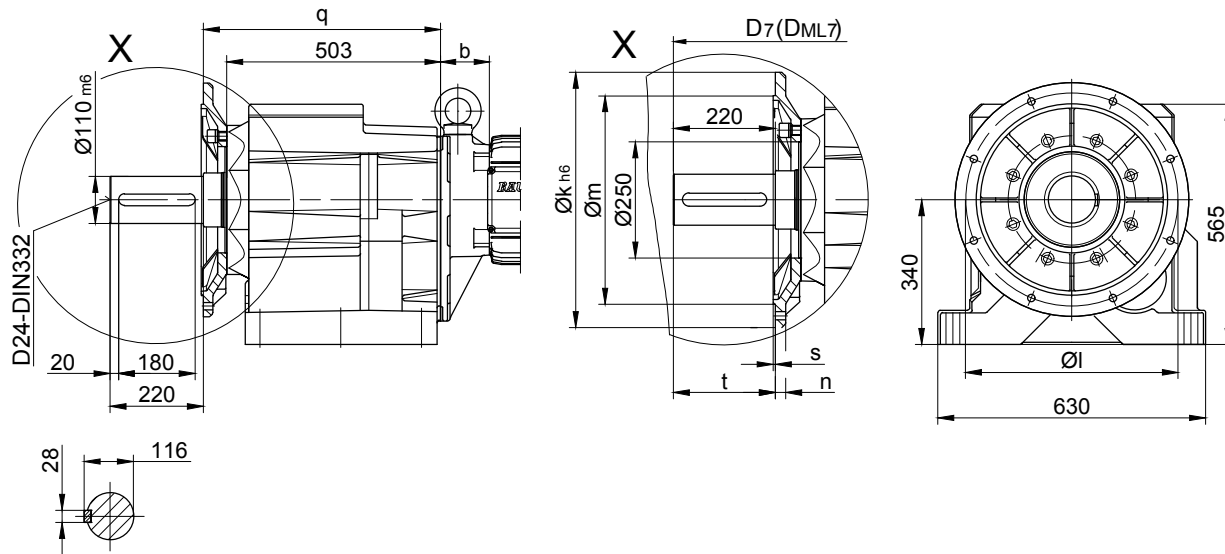
Dimension - Standard Metric

BG100 - BG100Z

Flange with clearance holes

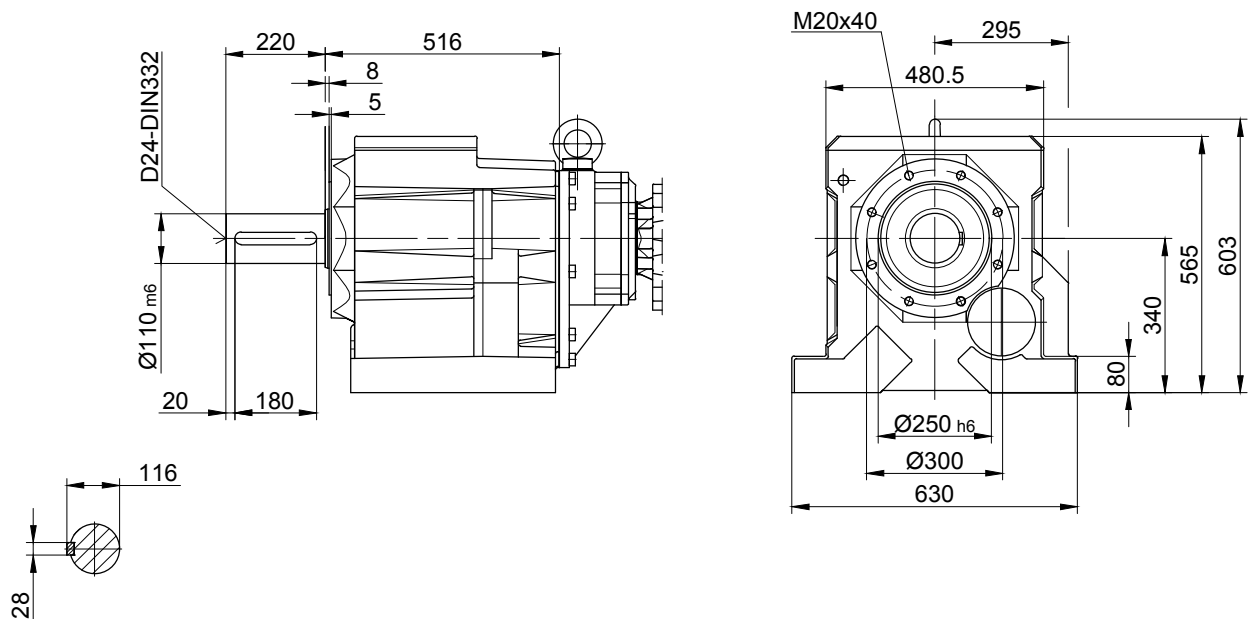
Code -37/

(Code -47/)



Flange with tapped holes

Code -71/



10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America

10

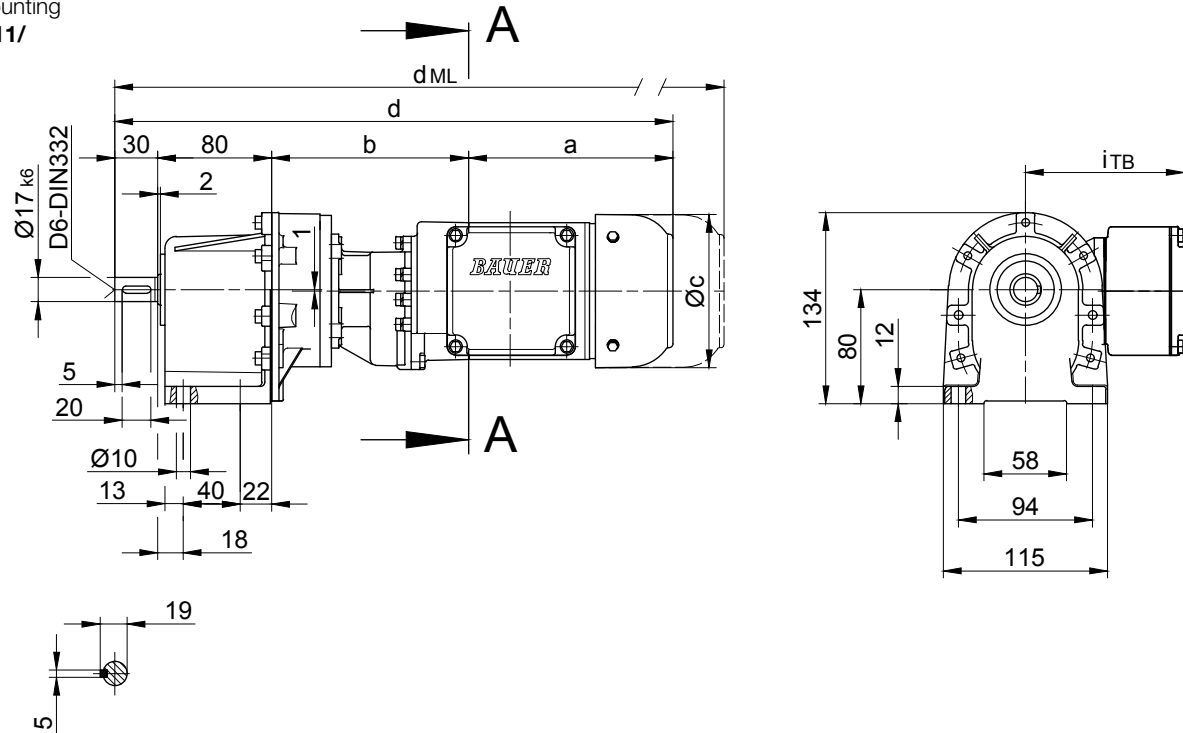
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG06G04

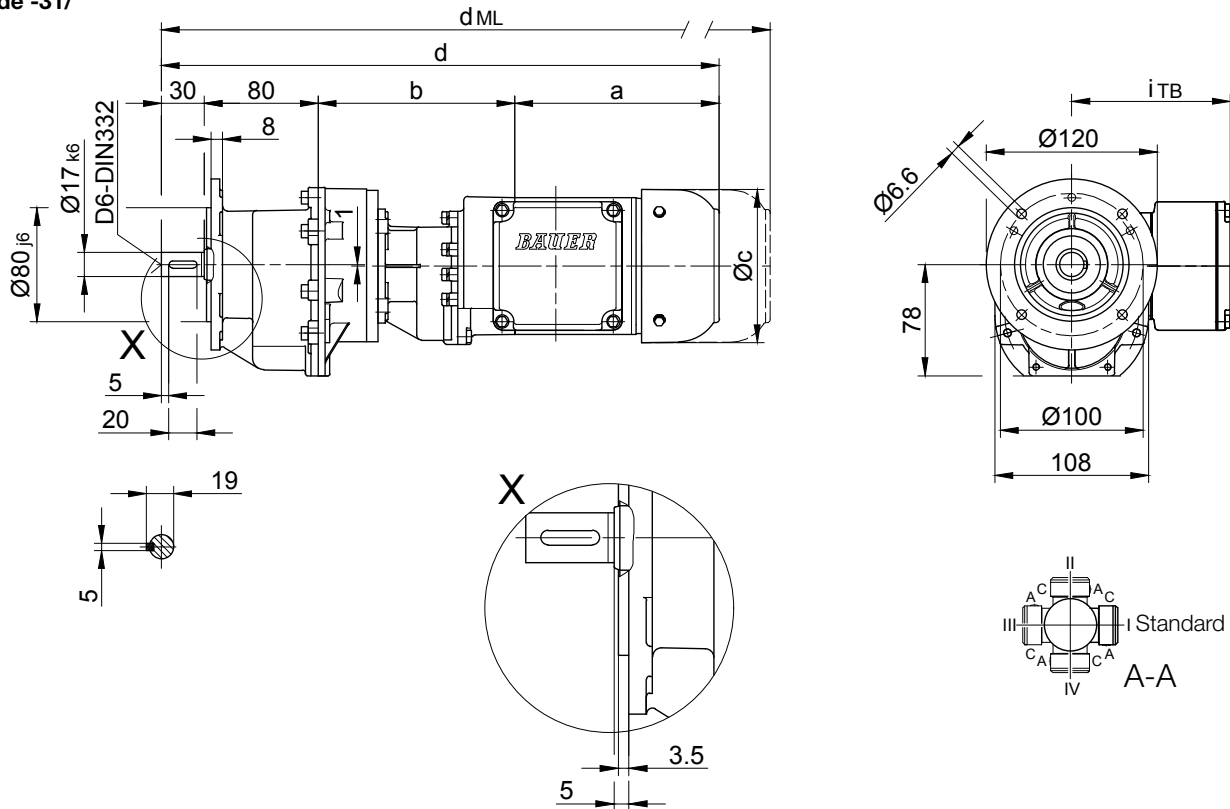
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



10

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BG06G04-../D04.A.	142.5	134	110.5	386.5	90	112	d _{ML}	d _{ML}	d _{ML}	d _{ML}
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

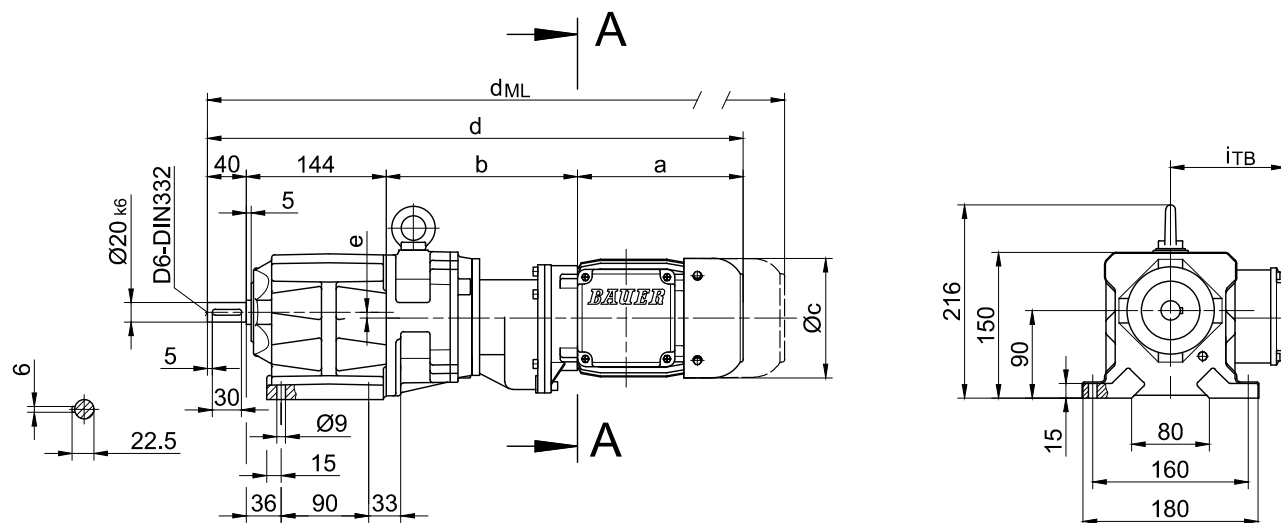
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG10G06

Foot mounting with clearance holes

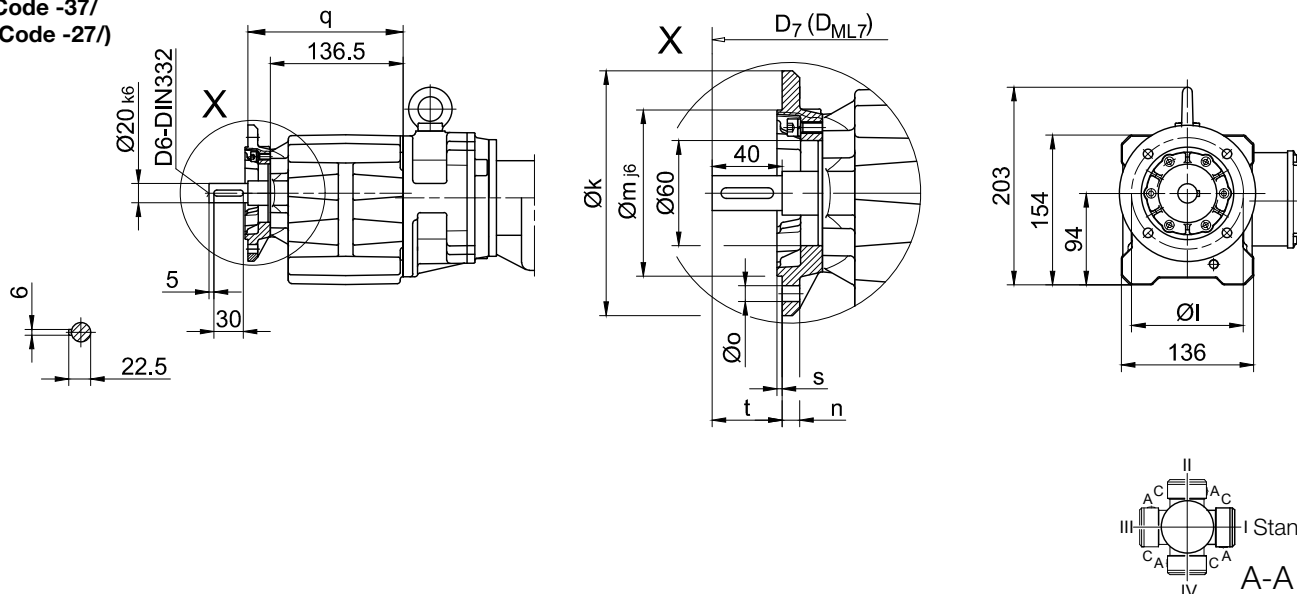
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG10..	Code -37V/	140	115	95	10	9	159.5	3	40.5	d+15,5	d _{ML} +15,5
BG10..	Code -27V/	120	100	80	8	6.6	154.5	3	45.5	d+15,5	d _{ML} +15,5

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions			
						i _{TB}	Brake	Encoder	Brake with Encoder
BG10G06-.../D04.A.	142.5	195	110.5	521.5	90	112	565	609	652.5
BG10G06-.../D..05.A.	170.5	197	123	551.5	101	117	593.5	654	691.5
BG10G06-.../D..06.A.	170.5	197	123	551.5	99	119	593.5	654	691.5
BG10G06-.../D..07.A.	190.5	197	123	571.5	99	119	613.5	674	711.5
BG10G06-.../D..08.A.	199.5	241	156	624.5	114.5	136.5	690.5	736.5	798
BG10G06-.../D..08.B.	229.5	241	156	654.5	114.5	136.5	720.5	766.5	827.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

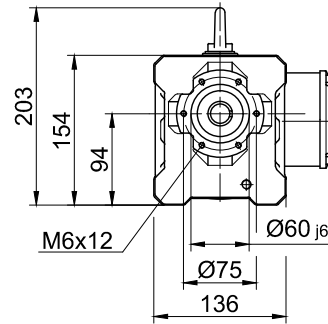
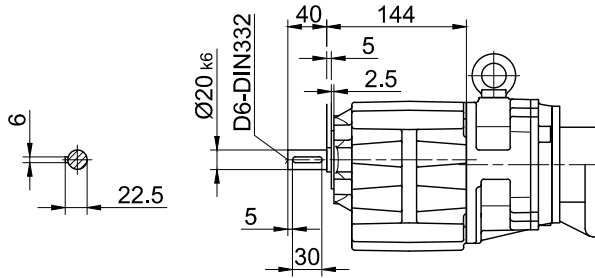
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG10G06

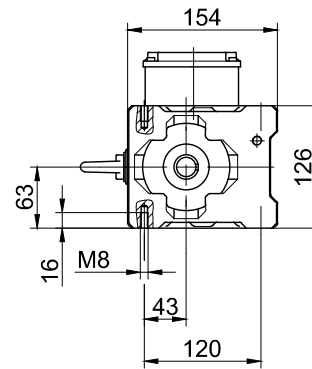
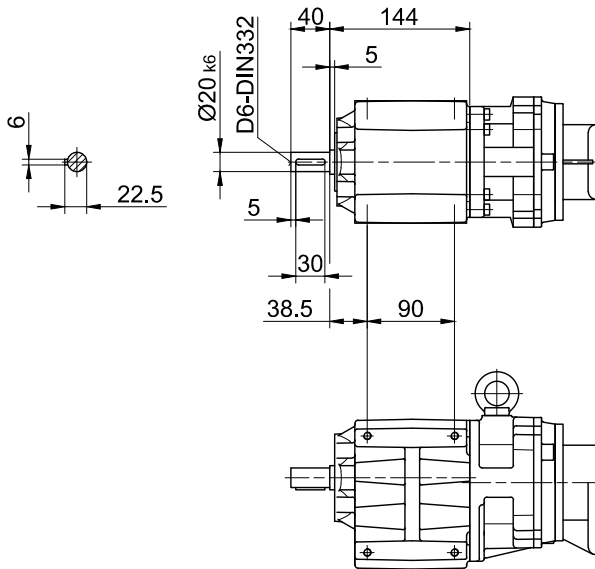
Flange with tapped holes

Code -71/



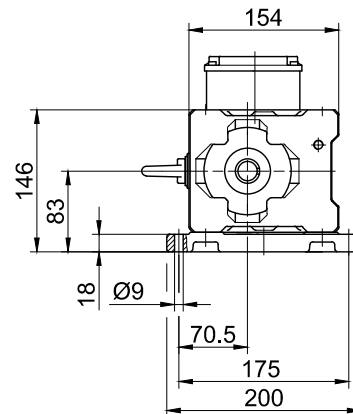
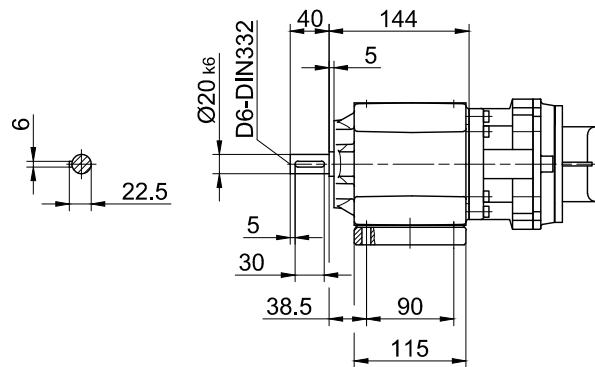
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



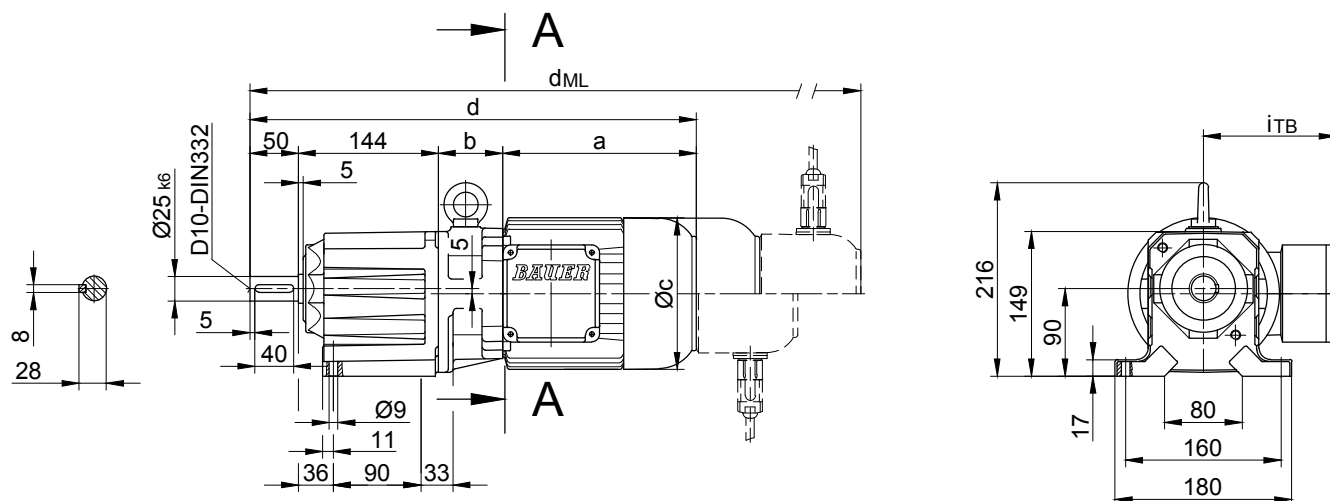
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Tandem Gearbox Metric

BG10XG06

Foot mounting with clearance holes

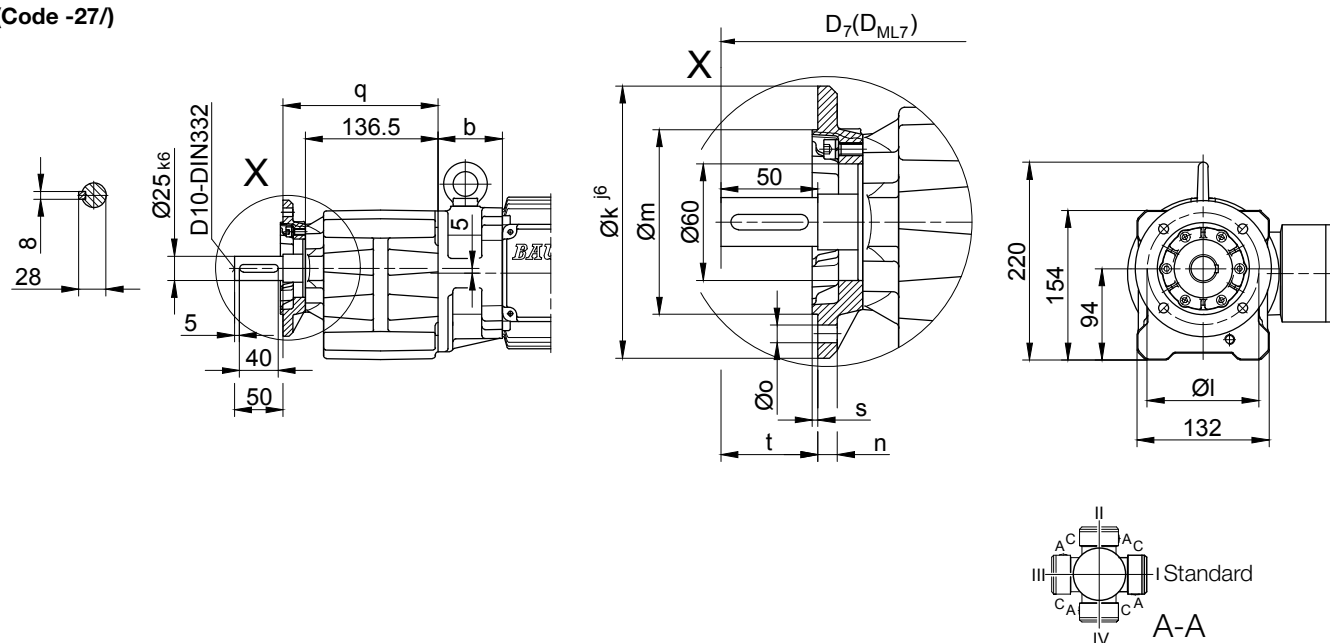
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG10X..	Code -37V/	140	115	95	10	9	159.5	3	50.5	d+15,5	d _{ML} +15,5
BG10X..	Code -27V/	120	100	80	8	6.6	154.5	3	55.5	d+15,5	d _{ML} +15,5

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG10XG06-../D04.A.	142.5	195	110.5	531.5	90	112	575	619	662.5	-
BG10XG06-../D..05.A.	170.5	197	123	561.5	101	117	603.5	664	701.5	-
BG10XG06-../D..06.A.	170.5	197	123	561.5	99	119	603.5	664	701.5	-
BG10XG06-../D..07.A.	190.5	197	123	581.5	99	119	623.5	684	721.5	-
BG10XG06-../D..08.A.	199.5	241	156	634.5	114.5	136.5	700.5	746.5	808	700.5
BG10XG06-../D..08.B.	229.5	241	156	664.5	114.5	136.5	730.5	776.5	837.5	730.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

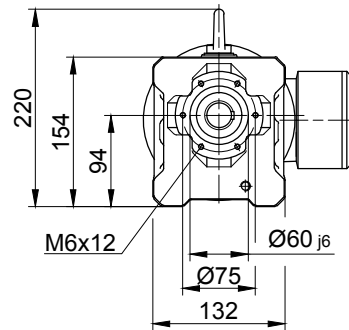
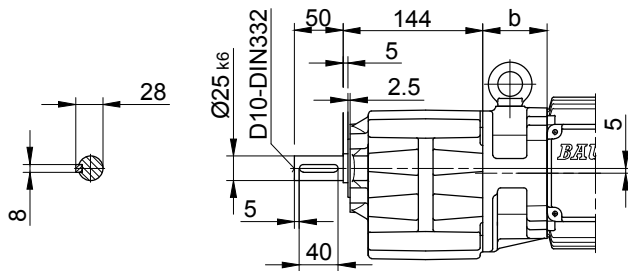
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG10XG06

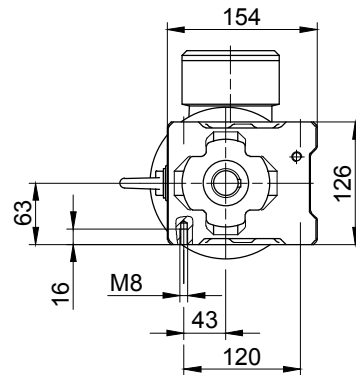
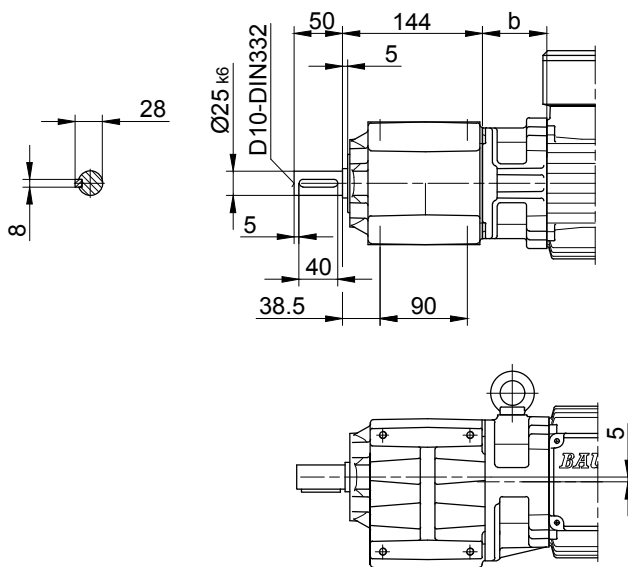
Flange with tapped holes

Code -71/



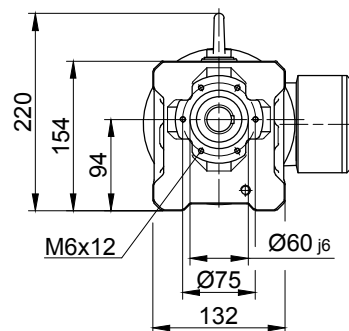
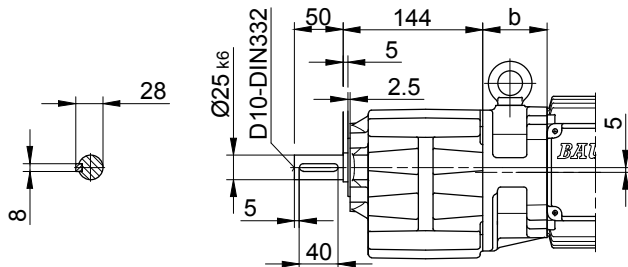
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

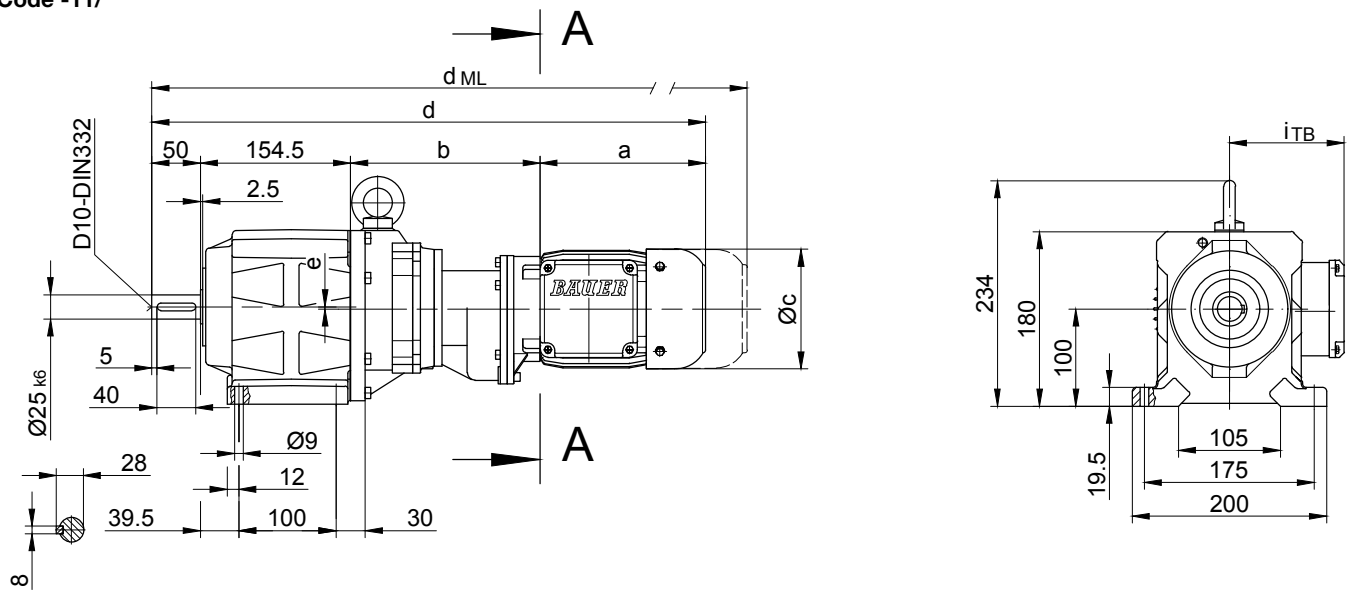
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG20G06

Foot mounting with clearance holes

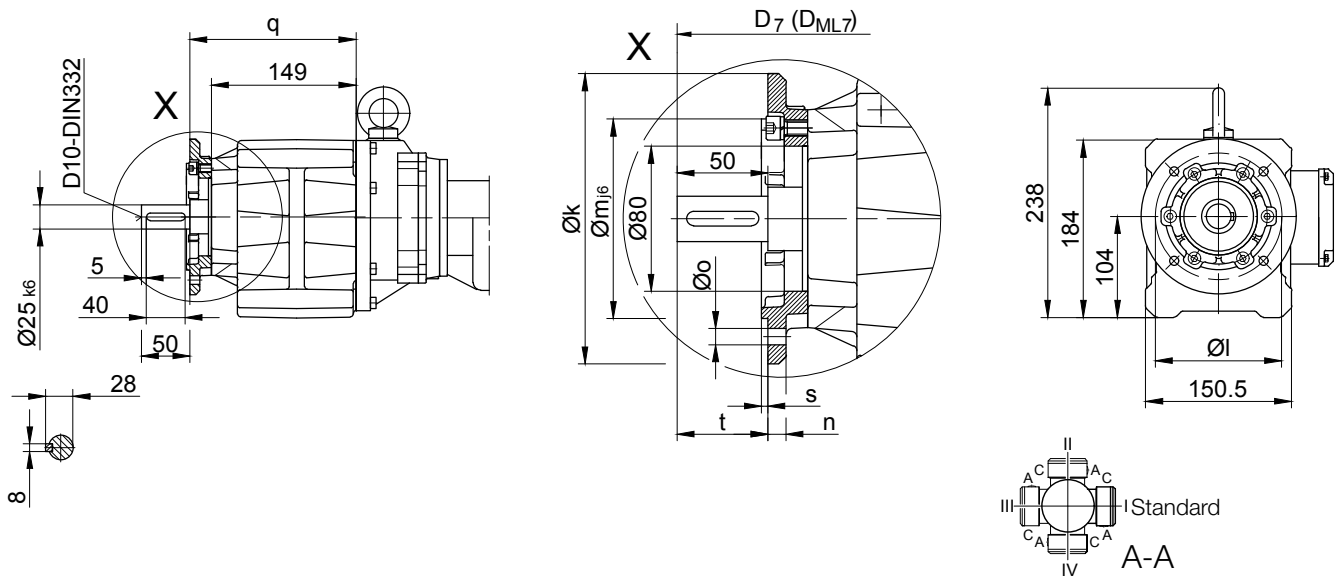
Code -11/



Flange with clearance holes

Code -37/

(Code -47/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG20..	Code -37V/	160	130	110	10	9	171	3.5	50.5	$d+16,5$	$d_{ML}+16,5$
BG20..	Code -47V/	200	165	130	12	11	178	3.5	43.5	$d+16,5$	$d_{ML}+16,5$

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG20G06-.../D04.A.	142.5	193	110.5	540	90	112	d_{ML} 583.5	d_{ML} 627.5	d_{ML} 671	-
BG20G06-.../D..05.A.	170.5	195	123	570	101	117	612	672.5	710	-
BG20G06-.../D..06.A.	170.5	195	123	570	99	119	612	672.5	710	-
BG20G06-.../D..07.A.	190.5	195	123	590	99	119	632	692.5	730	-
BG20G06-.../D..08.A.	199.5	239	156	643	114.5	136.5	709	755	816.5	709
BG20G06-.../D..08.B.	229.5	239	156	673	114.5	136.5	739	785	846	739

Dimensions in millimetres (mm)

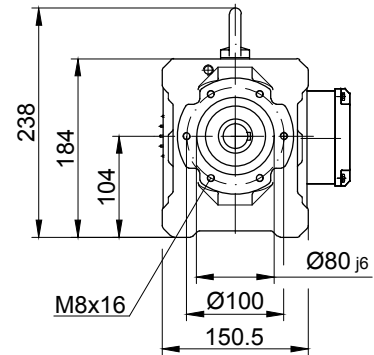
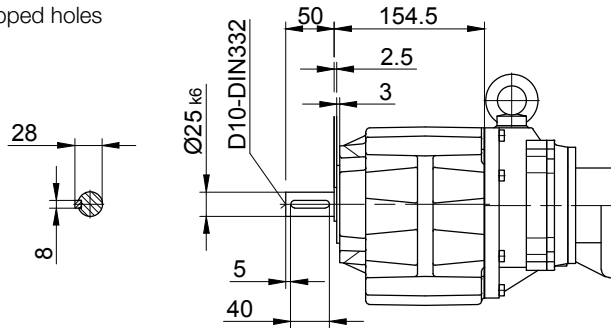
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Tandem Gearbox Metric

BG20G06

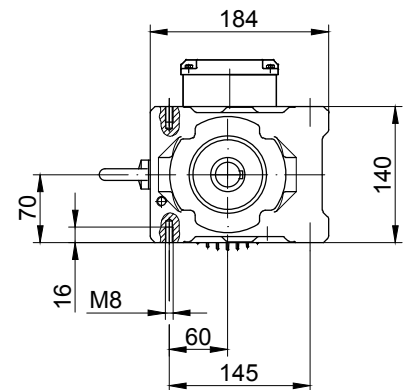
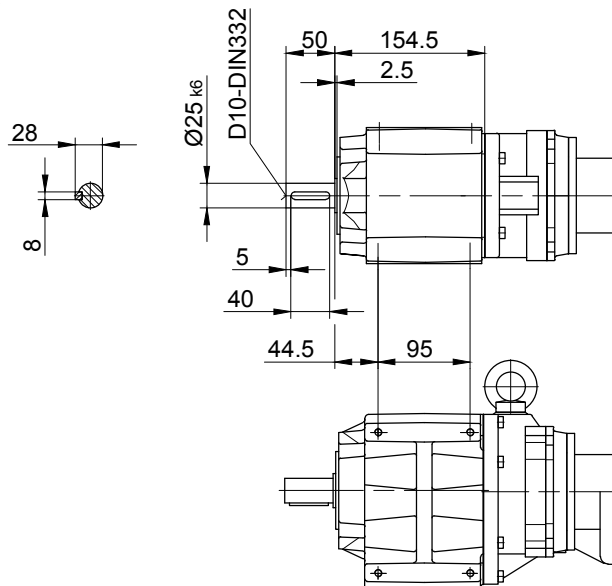
Flange with tapped holes

Code -71/



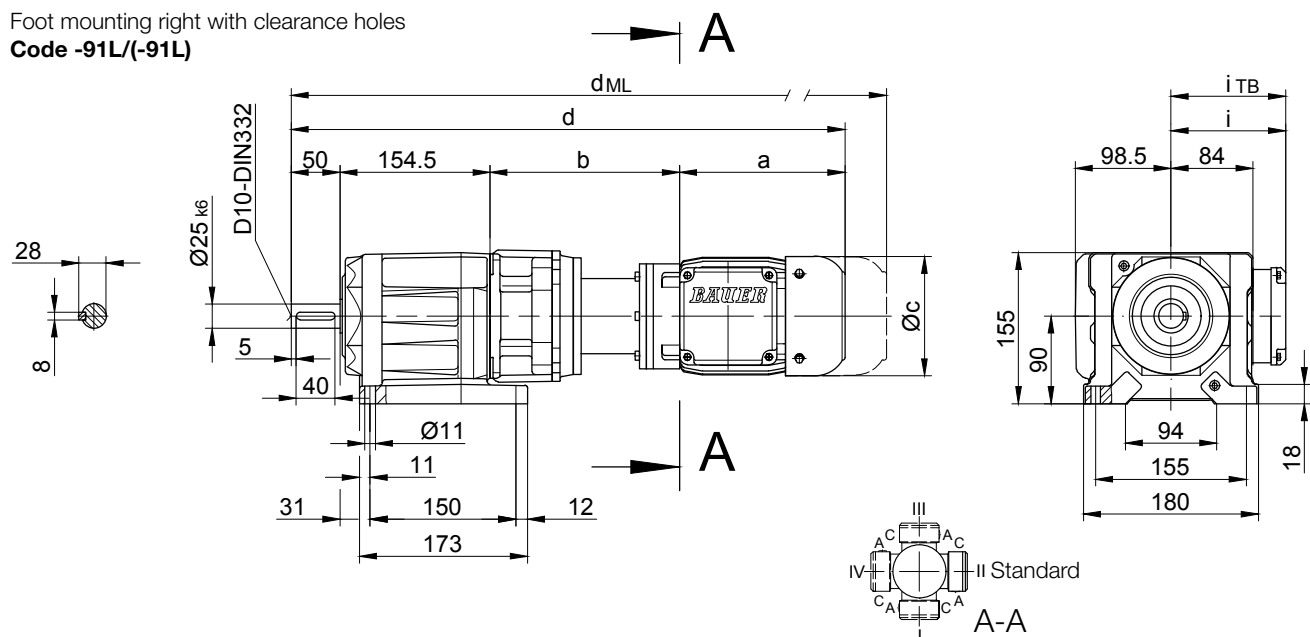
Foot with tapped holes left and right

Code -61LR/



Foot mounting right with clearance holes

Code -91L/(-91L)



only for BG20-01R!

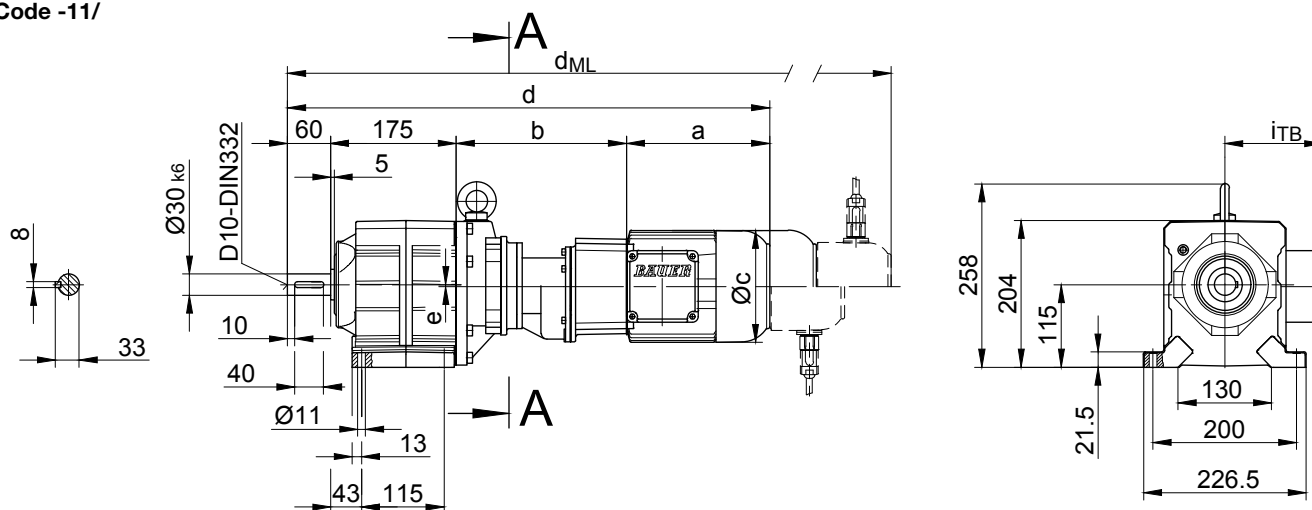
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Tandem Gearbox Metric

BG30G06

Foot mounting with clearance holes

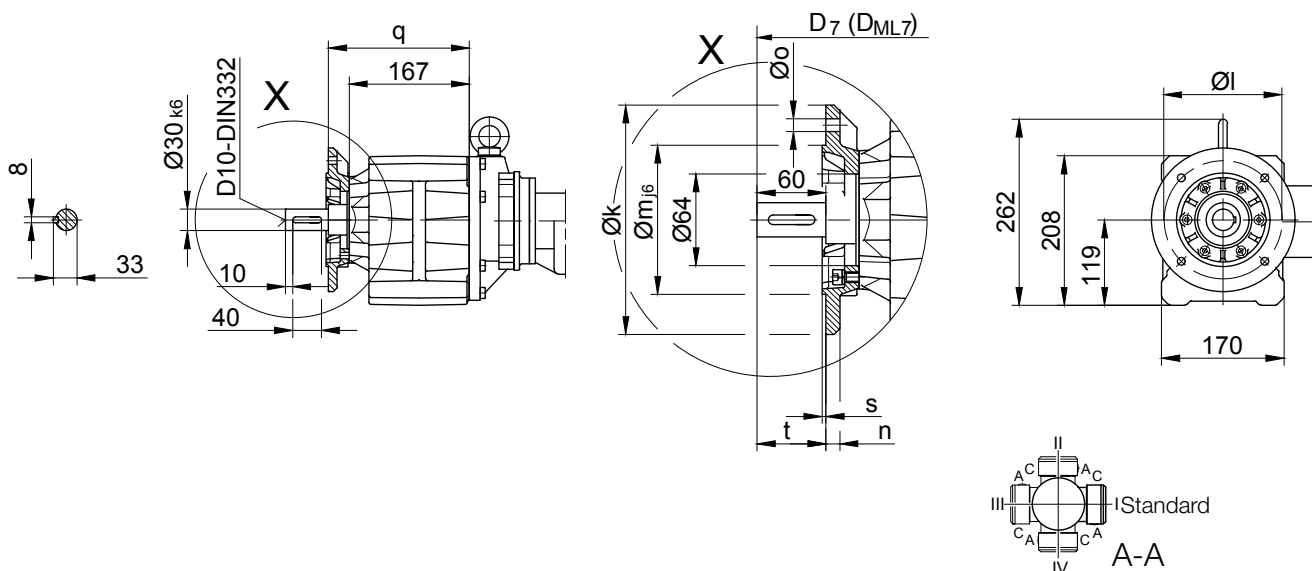
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG30..	Code -37/	200	165	130	12	11	196	3.5	60.5	d+21	d _{ML} +21
BG30..	Code -27/	160	130	110	10	9	189	3.5	67.5	d+21	d _{ML} +21

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BG30G06-../D04.A.	142.5	191	110.5	568.5	90	112	612	656	699.5	-
BG30G06-../D..05.A.	170.5	193	123	598.5	101	117	640.5	701	738.5	-
BG30G06-../D..06.A.	170.5	193	123	598.5	99	119	640.5	701	738.5	-
BG30G06-../D..07.A.	190.5	193	123	618.5	99	119	660.5	721	758.5	-
BG30G06-../D..08.A.	199.5	237	156	671.5	114.5	136.5	737.5	783.5	845	737.5
BG30G06-../D..08.B.	229.5	237	156	701.5	114.5	136.5	767.5	813.5	874.5	767.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

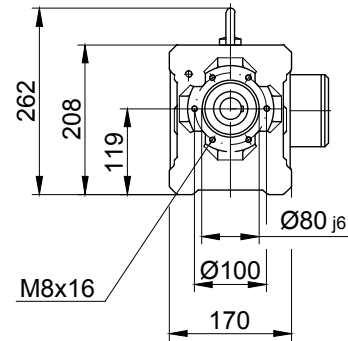
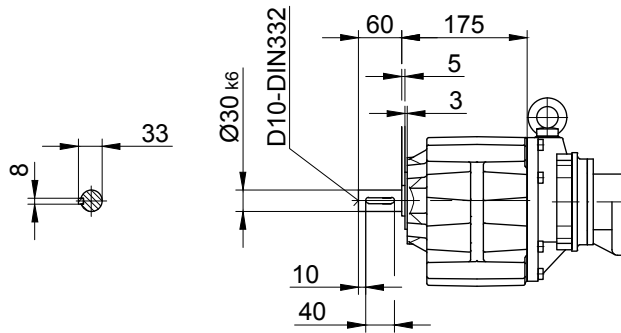
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG30G06

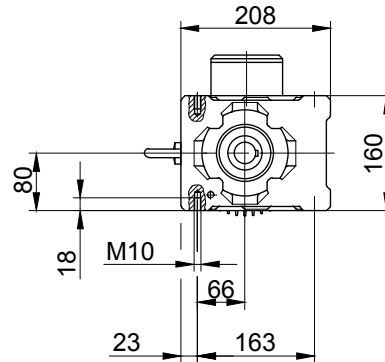
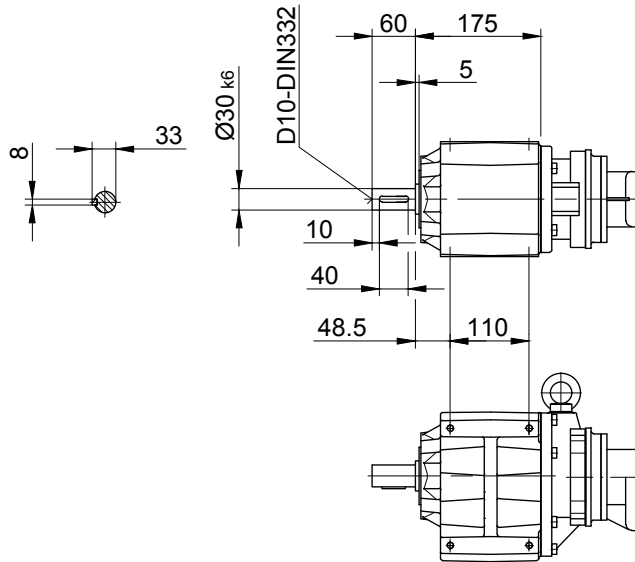
Flange with tapped holes

Code -71/



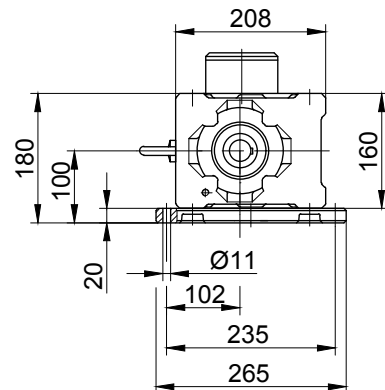
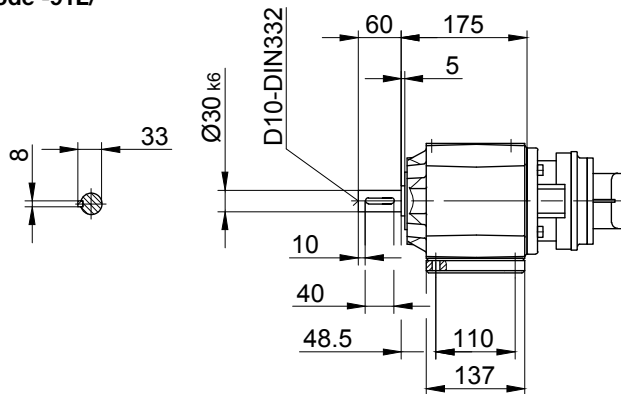
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

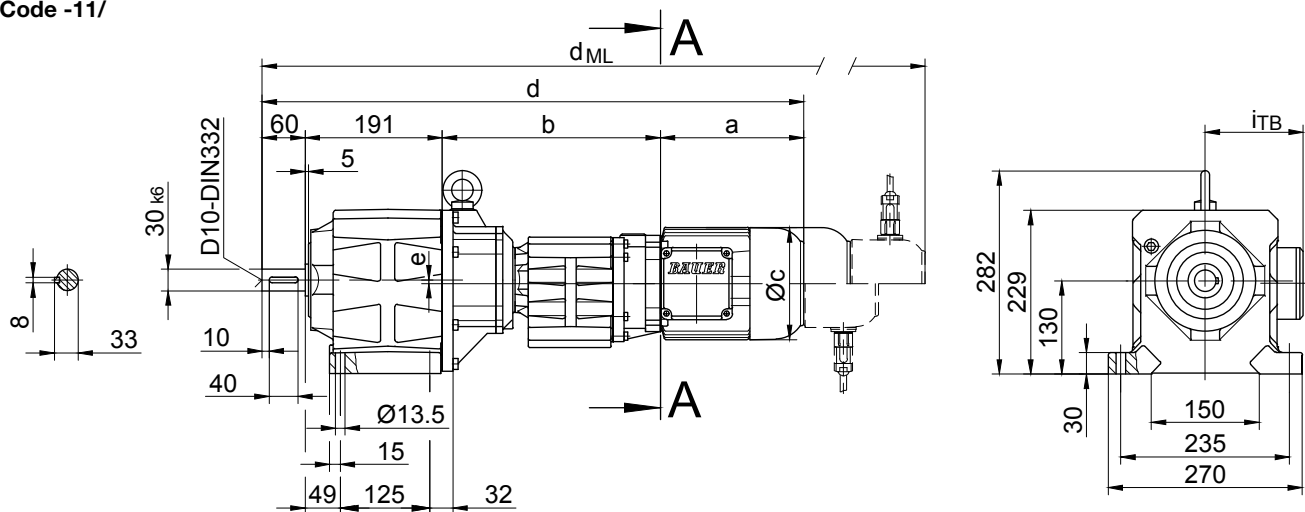
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG40G10

Foot mounting with clearance holes

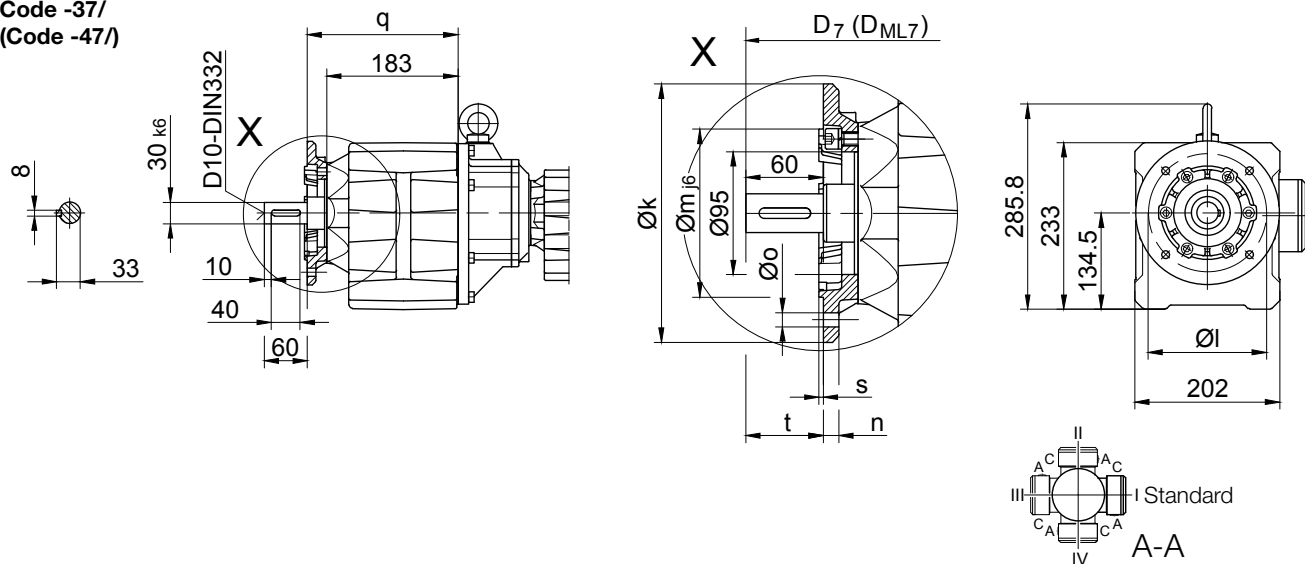
Code -11/



Flange with clearance holes

Code -37/

(Code -47/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG40..	Code -37/	200	165	130	12	11	210	3.5	61	d+19	d _{ML} +19
BG40..	Code -47/	250	215	180	16	13.5	219	4	52	d+19	d _{ML} +19

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BG40G10-.../D..05.A.	170.5	300	123	721.5	101	117	763.5	824	861.5	-
BG40G10-.../D..06.A.	170.5	300	123	721.5	99	119	763.5	824	861.5	-
BG40G10-.../D..07.A.	190.5	300	123	741.5	99	119	783.5	844	881.5	-
BG40G10-.../D..08.A.	199.5	304	156	754.5	114.5	136.5	820.5	866.5	928	820.5
BG40G10-.../D..08.B.	229.5	304	156	784.5	114.5	136.5	850.5	896.5	957.5	850.5
BG40G10-.../D..09.A.	250.5	318.5	176	820	124	157	913	927.5	1017	913
BG40G10-.../D..09.B.	308.5	318.5	176	878	124	157	971	985	1075	971

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

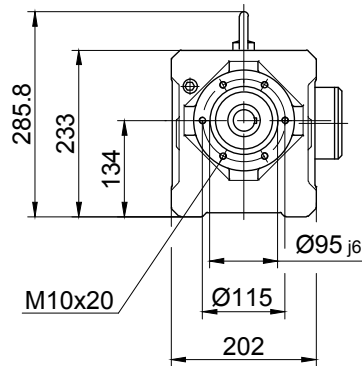
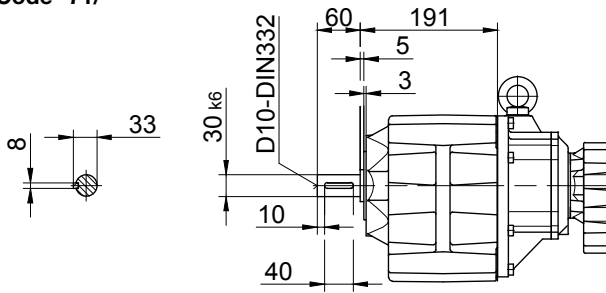
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG40G10

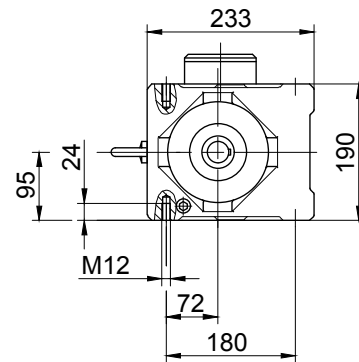
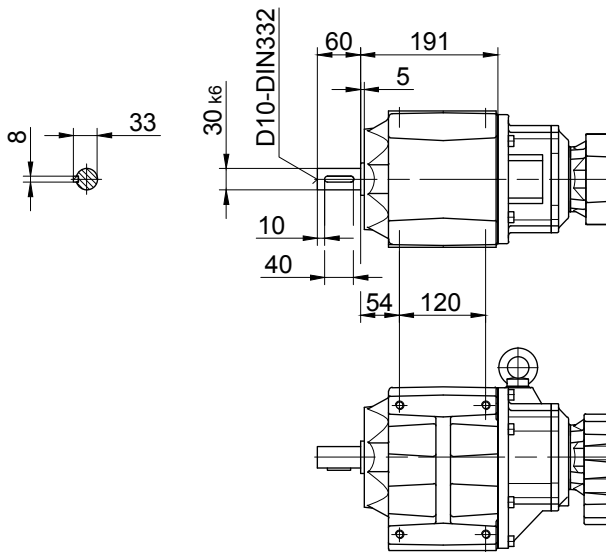
Flange with tapped holes

Code -71/



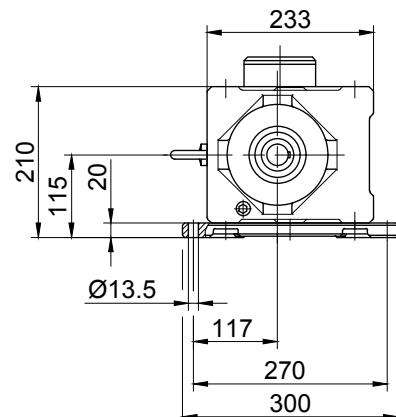
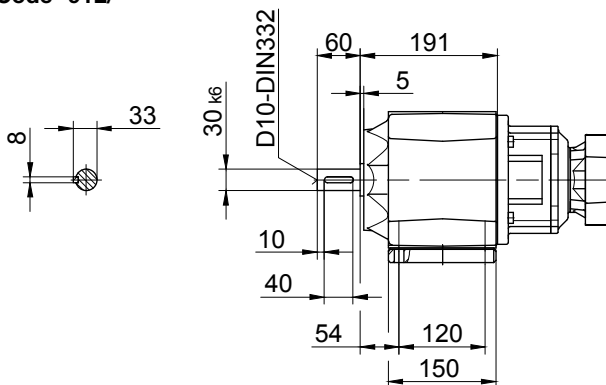
Foot with tapped holes left and right

Code -61LR/



Foot plate left

Code -91L/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

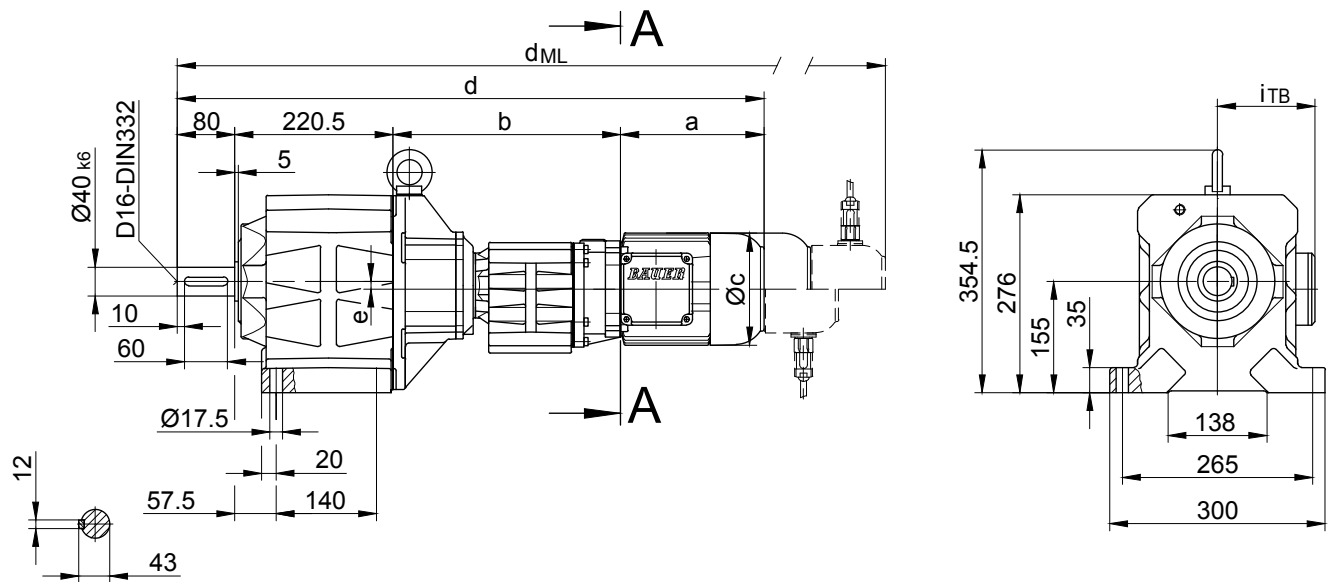
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG50G10

Foot mounting with clearance holes

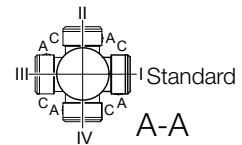
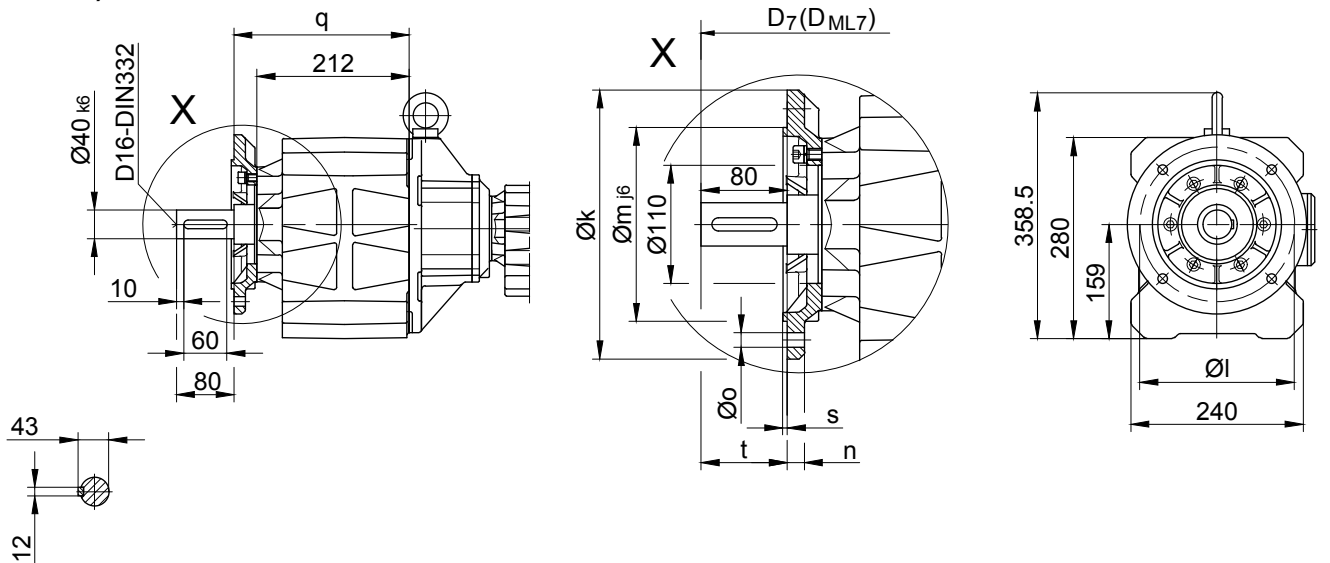
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG50...	Code -37/	250	215	180	16	13.5	244	4	80.5	d+23,5	d _{ML} +23,5
BG50...	Code -27/	200	165	130	12	11	241	3.5	83.5	d+23,5	d _{ML} +23,5

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG50G10-.../D..05.A.	170.5	313	123	784	101	117	826	886.5	924	-
BG50G10-.../D..06.A.	170.5	313	123	784	99	119	826	886.5	924	-
BG50G10-.../D..07.A.	190.5	313	123	804	99	119	846	906.5	944	-
BG50G10-.../D..08.A.	199.5	317	156	817	114.5	136.5	883	929	990.5	883
BG50G10-.../D..08.B.	229.5	317	156	847	114.5	136.5	913	959	1020	913
BG50G10-.../D..09.A.	250.5	331.5	176	882.5	124	157	975.5	990	1079.5	975.5
BG50G10-.../D..09.B.	308.5	331.5	176	940.5	124	157	1033.5	1047.5	1137.5	1033.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

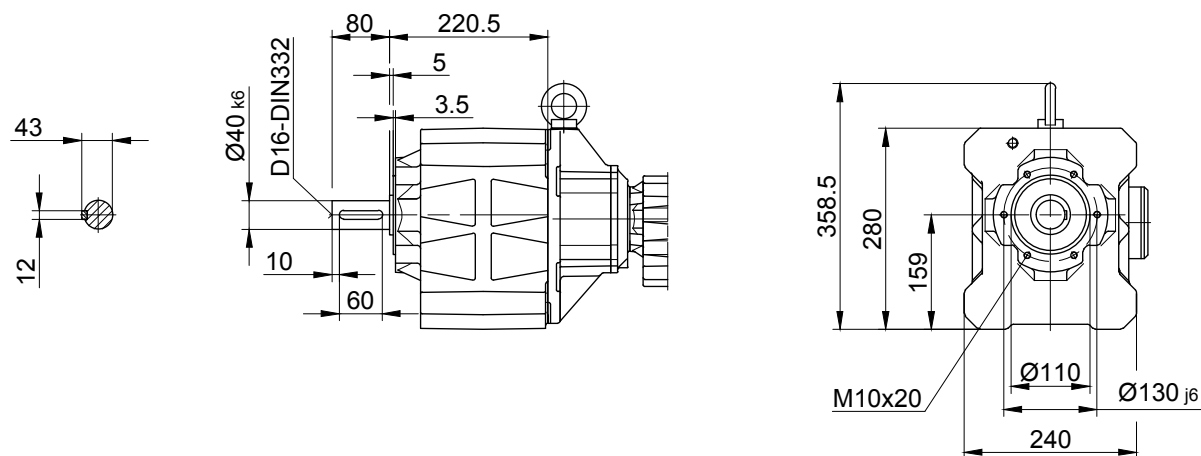
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG50G10

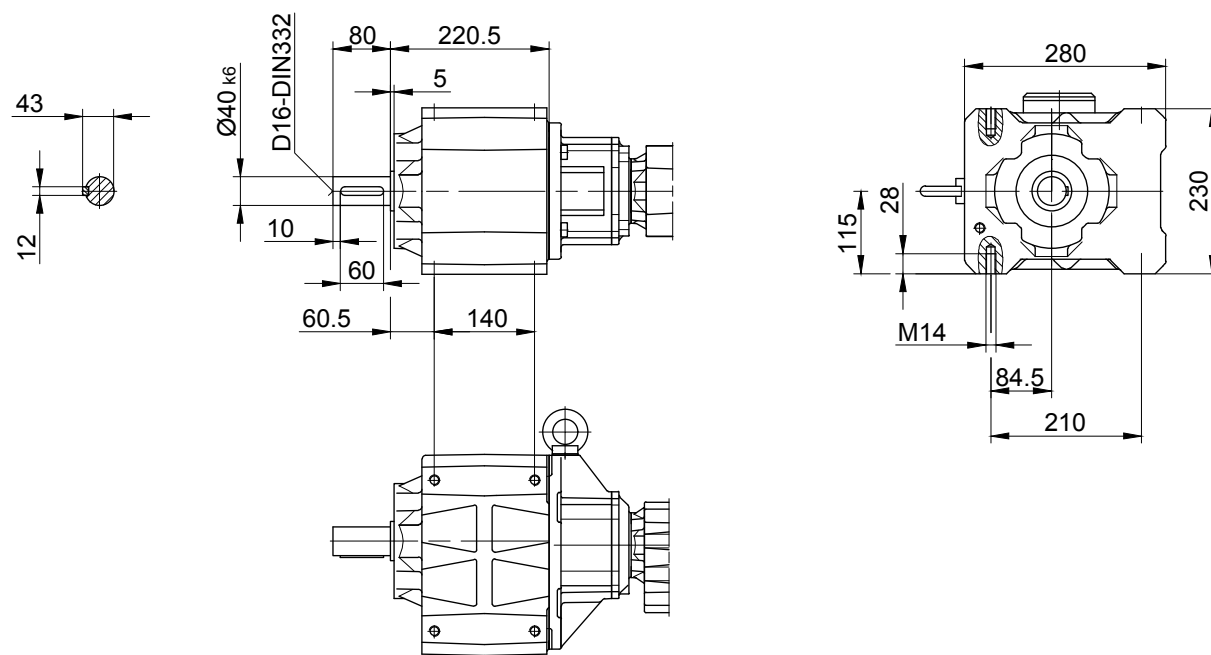
Flange with tapped holes

Code -71/



Foot with tapped holes left and right

Code -61LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

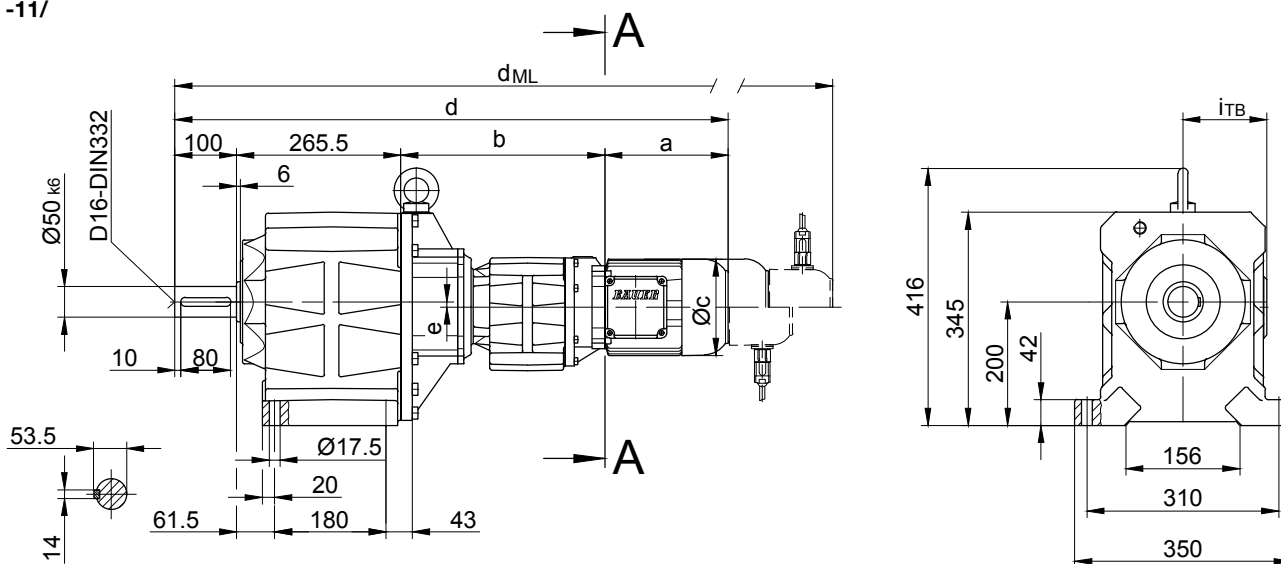
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG60G20

Foot mounting with clearance holes

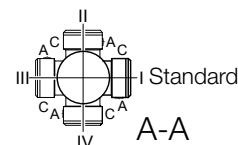
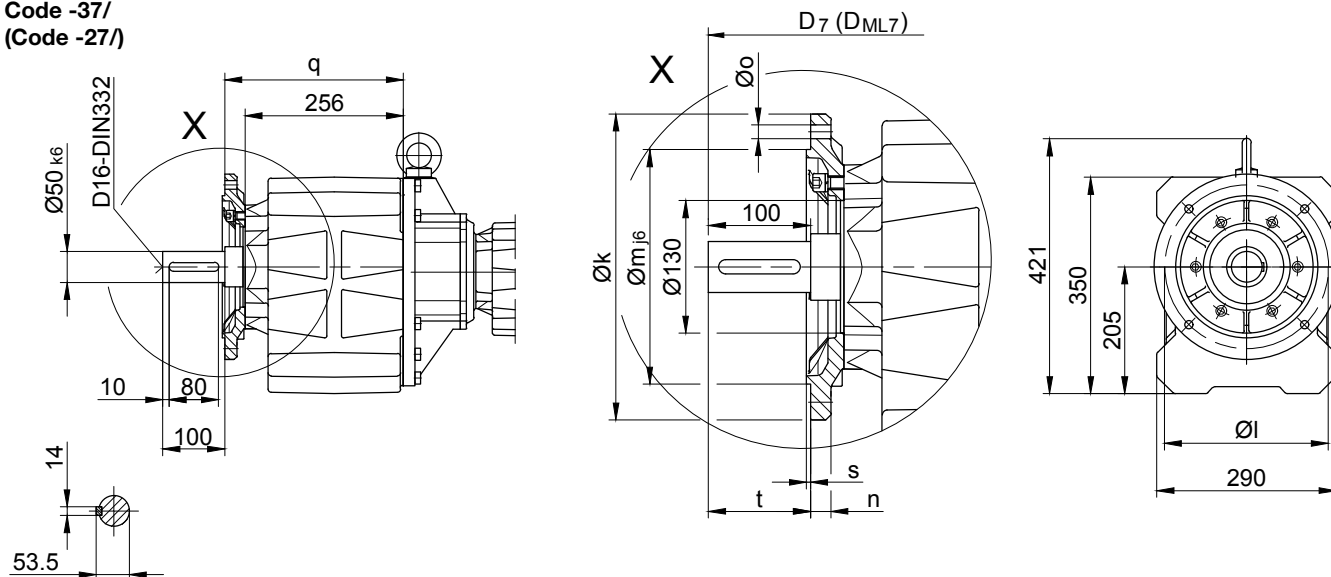
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG60..	Code -37/	300	265	230	20	13.5	289	4	100.5	$d+23.5$	$d_{ML}+23.5$
BG60..	Code -27/	250	215	180	16	13.5	286	4	103.5	$d+23.5$	$d_{ML}+23.5$

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BG60G20-.../D..05.A.	170.5	326	123	862	101	117	904	964.5	1002	-
BG60G20-.../D..06.A.	170.5	326	123	862	99	119	904	964.5	1002	-
BG60G20-.../D..07.A.	190.5	326	123	882	99	119	924	984.5	1022	-
BG60G20-.../D..08.A.	199.5	330	156	895	114.5	136.5	961	1007	1068.5	961
BG60G20-.../D..08.B.	229.5	330	156	925	114.5	136.5	991	1037	1098	991
BG60G20-.../D..09.A.	250.5	344.5	176	960.5	124	157	1053.5	1068	1157.5	1053.5
BG60G20-.../D..09.B.	308.5	344.5	176	1018.5	124	157	1111.5	1125.5	1215.5	1111.5

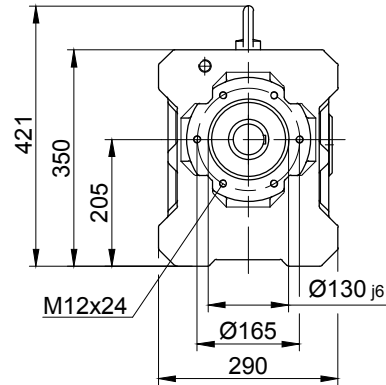
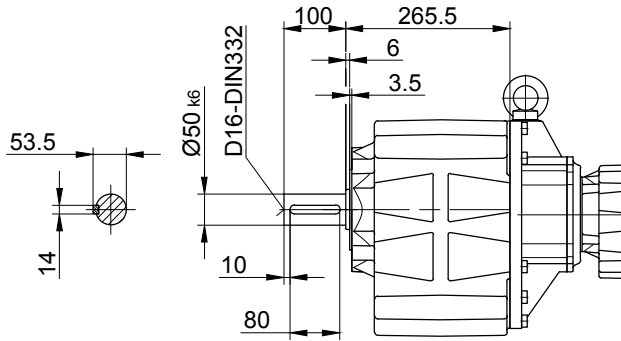
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG60G20

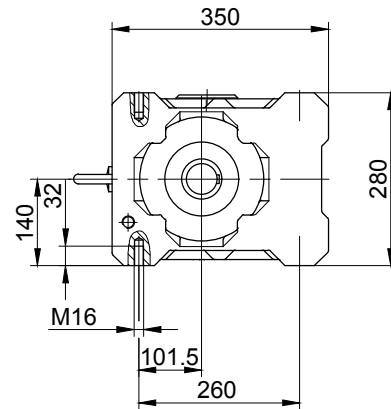
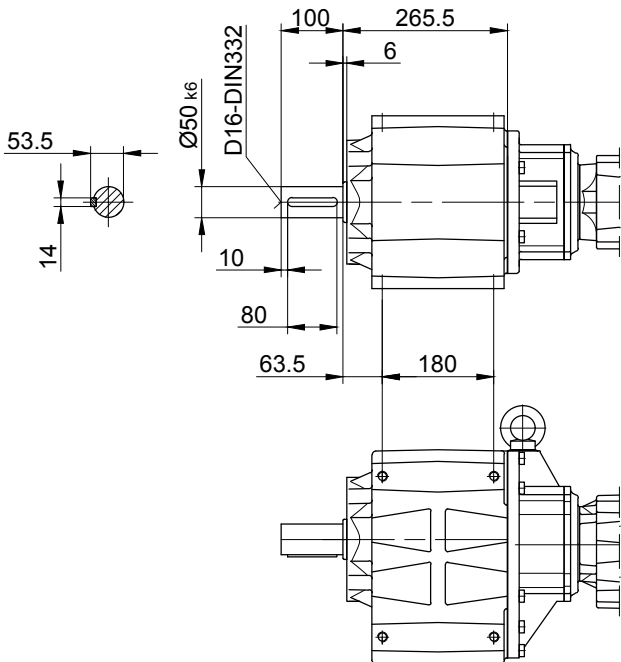
Flange with tapped holes

Code -71/



Foot with tapped holes left and right

Code -61LR/



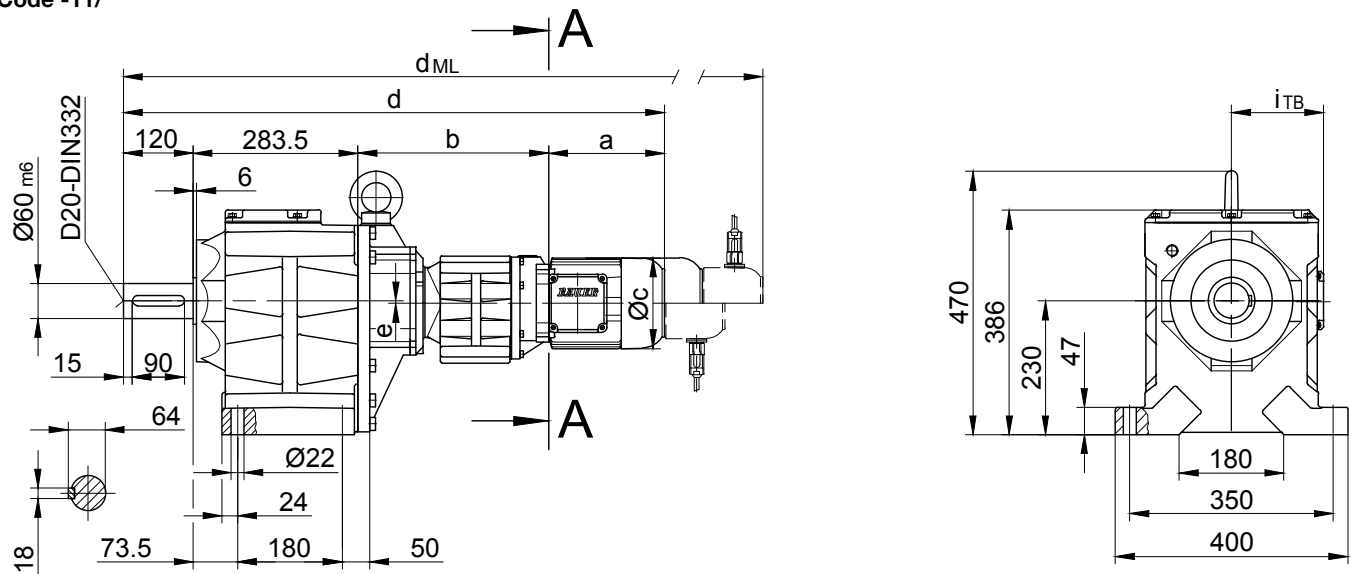
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG70G20

Foot mounting with clearance holes

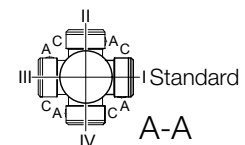
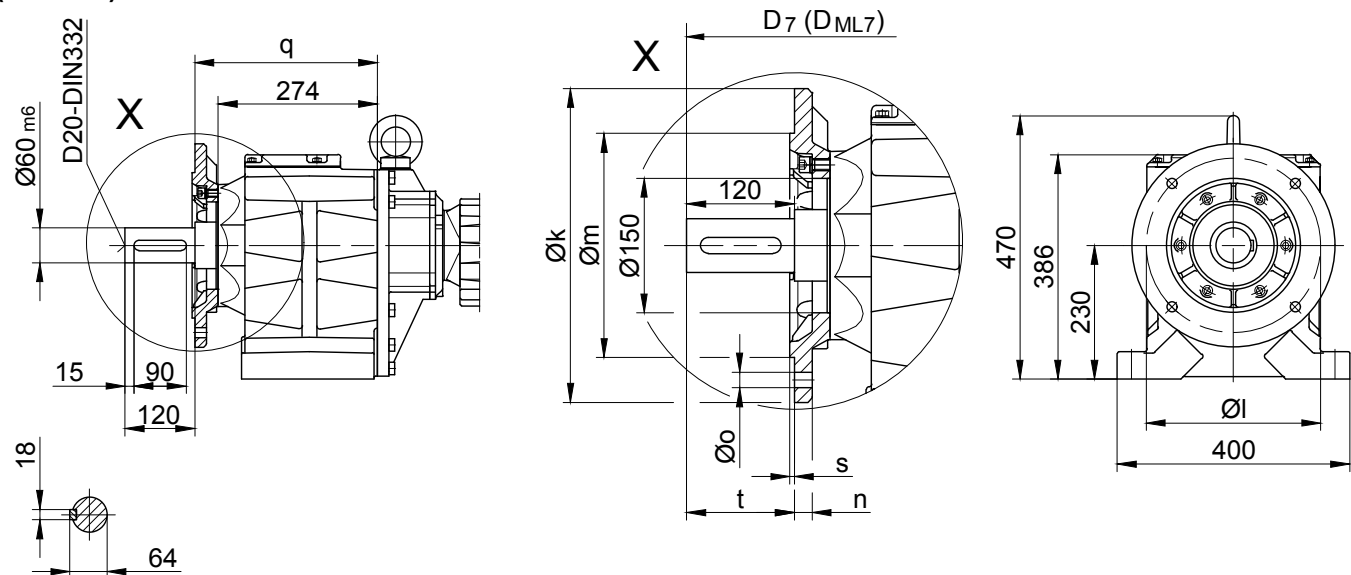
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG70..	Code -37/	350	300	250	20	17.5	314	5	120.5	d+30,5	d _{ML} +30,5
BG70..	Code -27/	300	265	230	20	13.5	322	4	113.5	d+30,5	d _{ML} +30,5
Dimensions in millimetres (mm)											

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG70G20-.../D..05.A.	170.5	324	123	898	101	117	940	1000.5	1038	-
BG70G20-.../D..06.A.	170.5	324	123	898	99	119	940	1000.5	1038	-
BG70G20-.../D..07.A.	190.5	324	123	918	99	119	960	1020.5	1058	-
BG70G20-.../D..08.A.	199.5	328	156	931	114.5	136.5	997	1043	1104.5	997
BG70G20-.../D..08.B.	229.5	328	156	961	114.5	136.5	1027	1073	1134	1027
BG70G20-.../D..09.A.	250.5	342.5	176	996.5	124	157	1089.5	1104	1193.5	1089.5
BG70G20-.../D..09.B.	308.5	342.5	176	1054.5	124	157	1147.5	1161.5	1251.5	1147.5

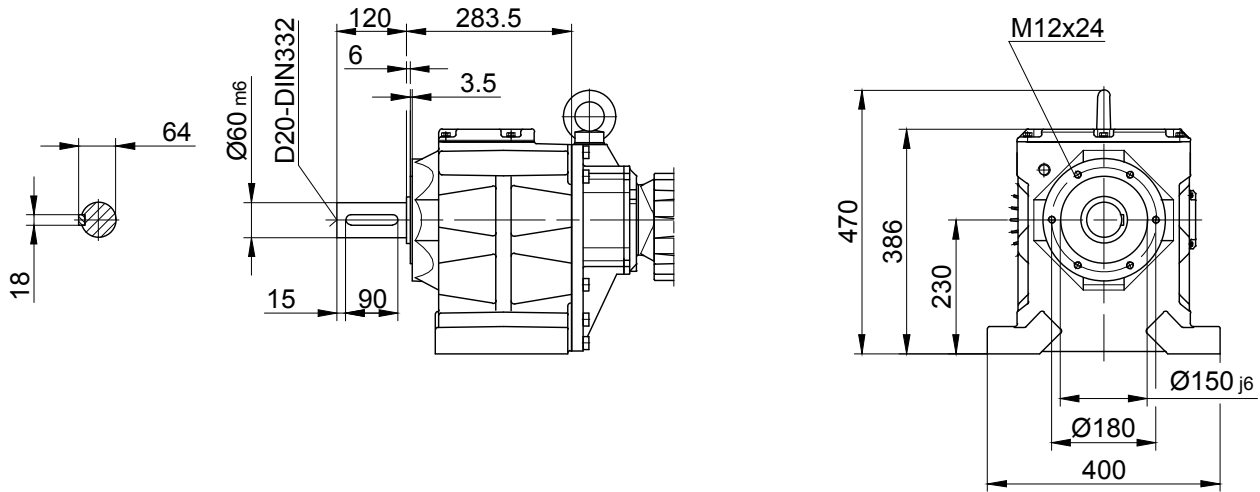
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG70G20

Flange with tapped holes

Code -71/



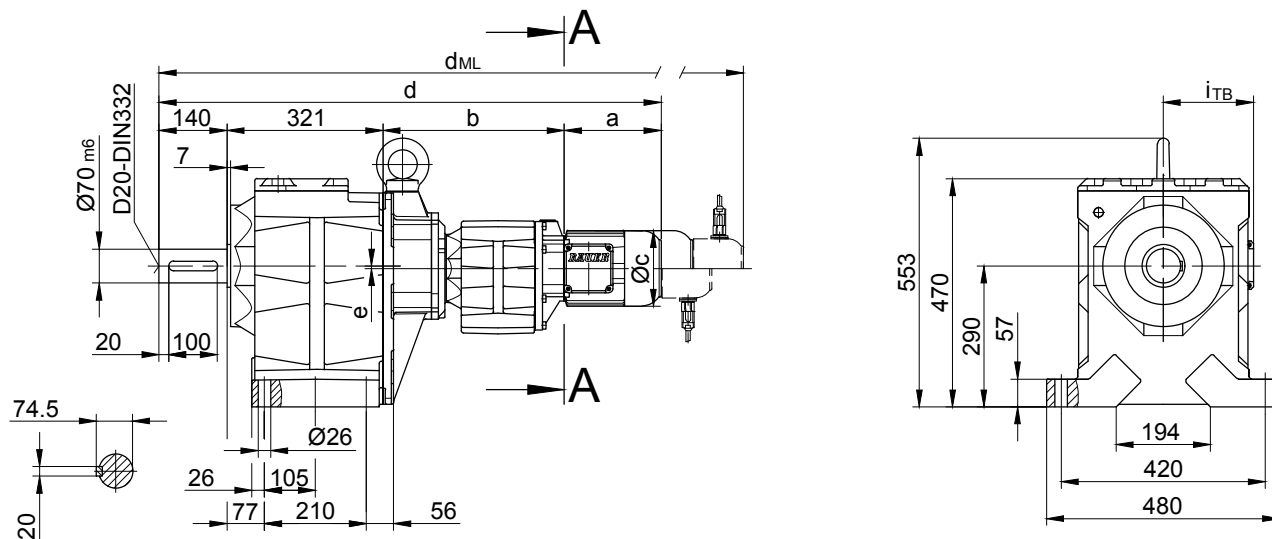
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG80G40

Foot mounting with clearance holes

Code -11/

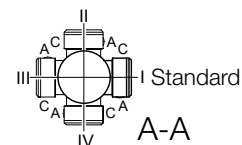
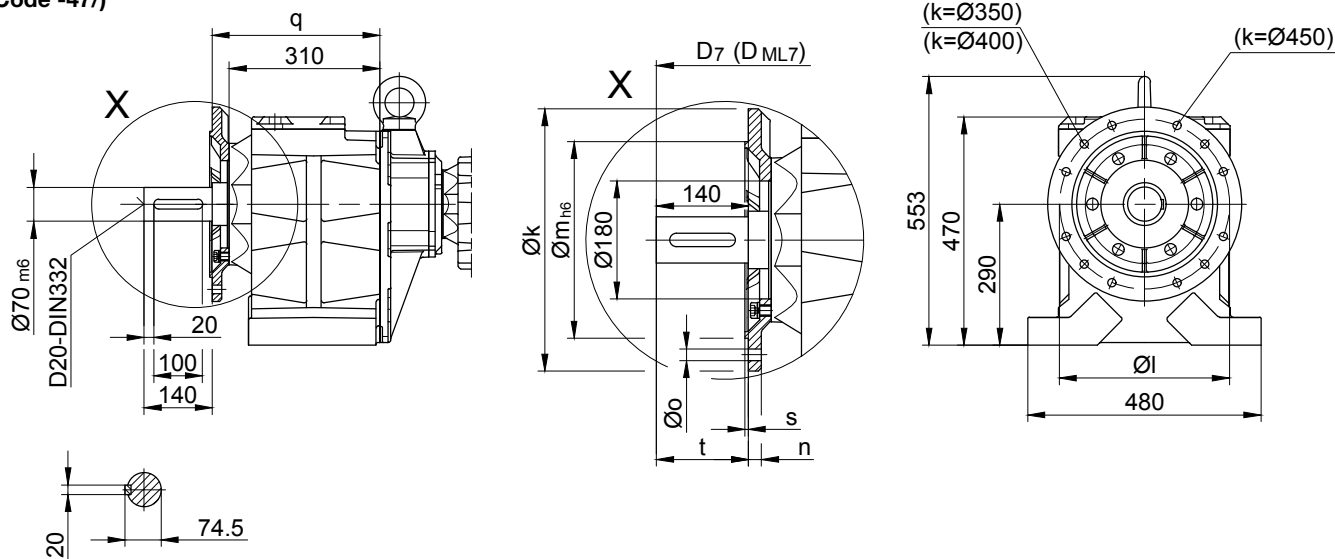


Flange with clearance holes

Code -37/

(Code -27/)

(Code -47/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D ₇	D _{ML7}
BG80..	Code -37/	400	350	300	20	4 x 17,5	345	5	141	d+24	d _{ML} +24
BG80..	Code -27/	350	300	250	20	4 x 17,5	345	5	141	d+24	d _{ML} +24
BG80..	Code -47/	450	400	350	22	8 x 17,5	355	5	131	d+24	d _{ML} +24

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG80G40-.../D..08.A.	199.5	373	156	1033.5	114.5	136.5	1099.5	1145.5	1207	1099.5
BG80G40-.../D..08.B.	229.5	373	156	1063.5	114.5	136.5	1129.5	1175.5	1236.5	1129.5
BG80G40-.../D..09.A.	250.5	387.5	176	1099	124	157	1192	1206.5	1296	1192
BG80G40-.../D..09.B.	308.5	387.5	176	1157	124	157	1250	1264	1354	1250
BG80G40-.../D..11.A.	319	394	218	1174	165	176	1272	1281.5	1374	1272
BG80G40-.../D..11.B.	387	394	218	1242	165	176	1338	1349.5	1442	1338

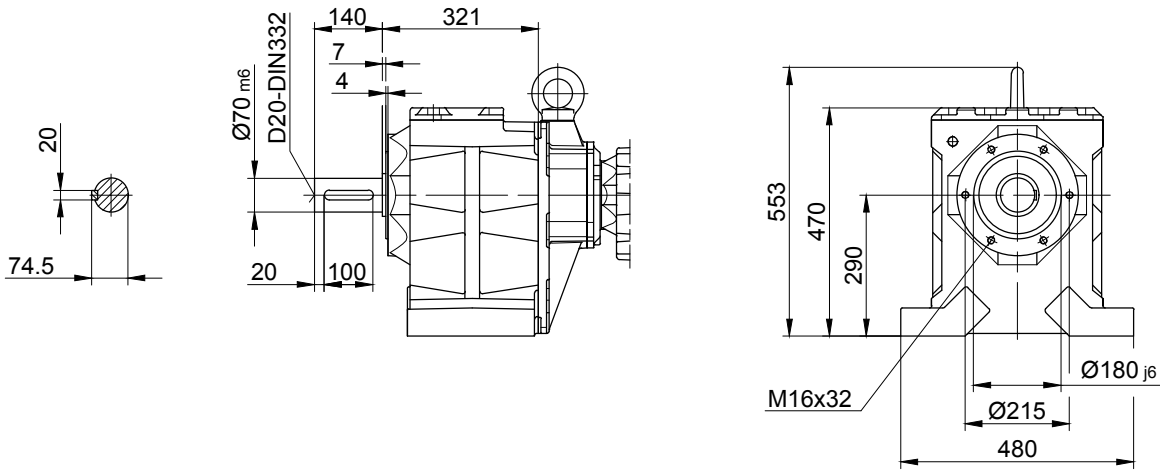
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG80G40

Flange with tapped holes

Code -71/



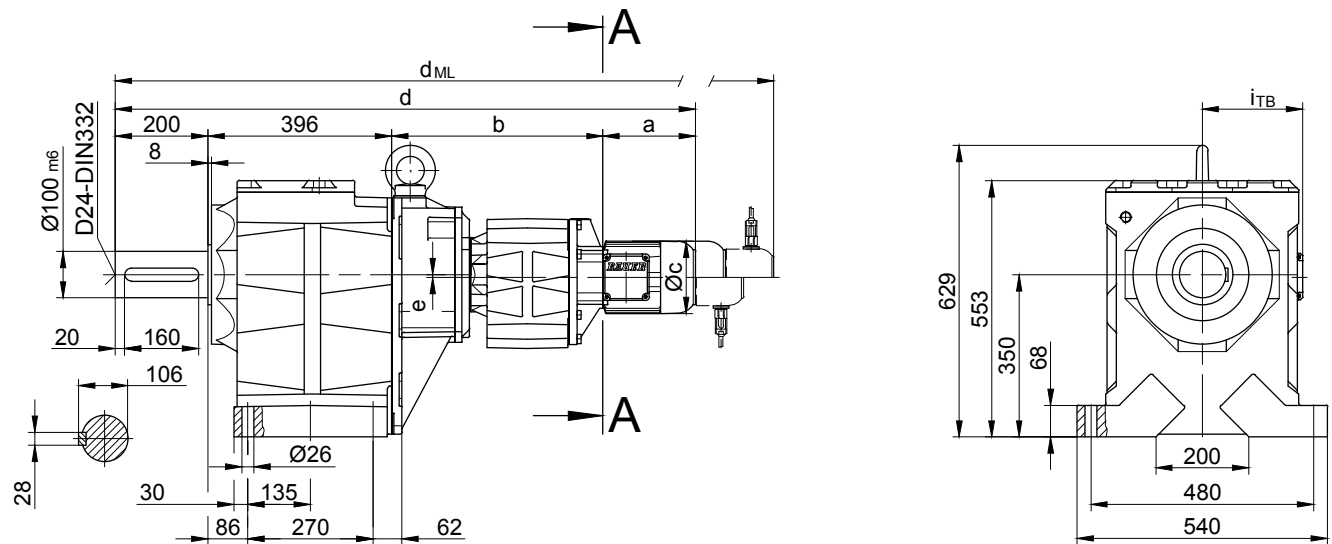
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG90G50

Foot mounting with clearance holes

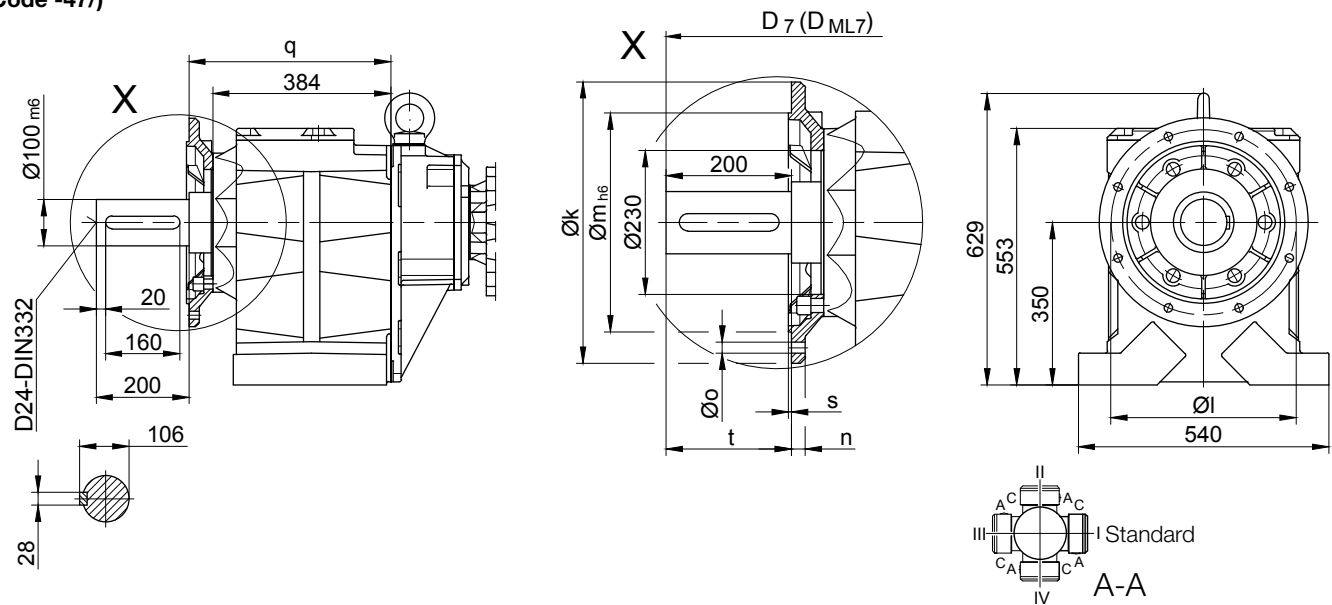
Code -11/



Flange with clearance holes

Code -37/

(Code -47/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG90..	Code -37/	450	400	350	22	17.5	439	5	201	$d+43$	$d_{ML}+43$
BG90..	Code -47/	550	500	450	22	17.5	444	5	196	$d+43$	$d_{ML}+43$

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG90G50-.../D..08.A.	199.5	456	156	1251.5	114.5	136.5	d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG90G50-.../D..08.B.	229.5	456	156	1281.5	114.5	136.5	1317.5	1363.5	1425	1317.5
BG90G50-.../D..09.A.	250.5	470.5	176	1317	124	157	1410	1424.5	1514	1410
BG90G50-.../D..09.B.	308.5	470.5	176	1375	124	157	1468	1482	1572	1468
BG90G50-.../D..11.A.	319	477	218	1392	165	176	1490	1499.5	1592	1490
BG90G50-.../D..11.B.	387	477	218	1460	165	176	1556	1567.5	1660	1556
BG90G50-.../D..13.A.	393	490	258	1479	217	217	1590	1586	1691	1587
BG90G50-.../D..16.B.	454.5	504	310	1554.5	243	243	1698	1661.5	1801.5	1698
BG90G50-.../D..18.B.	542	526	348	1664	288	288	1813.5	1769.5	1917	1813.5

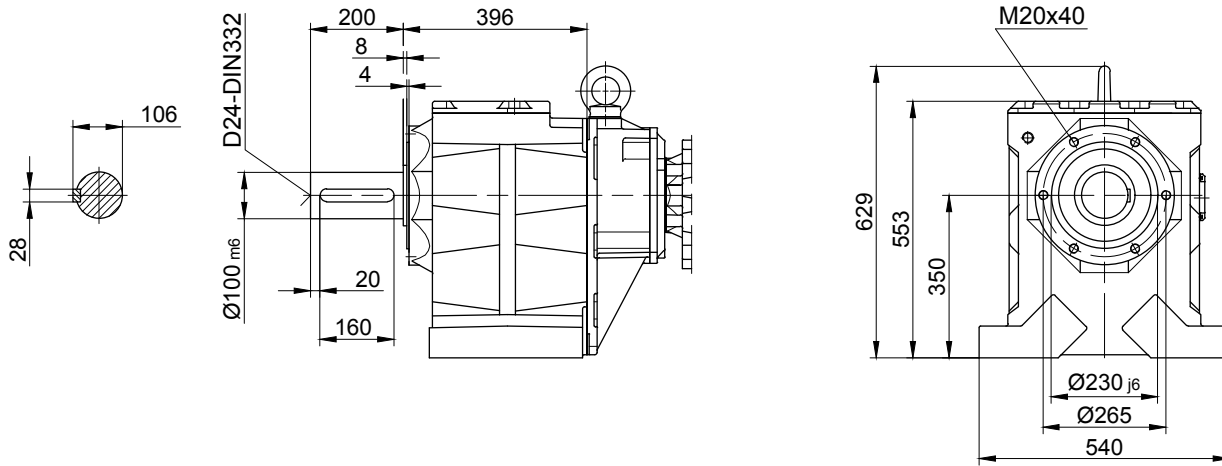
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG90G50

Flange with tapped holes

Code -71/



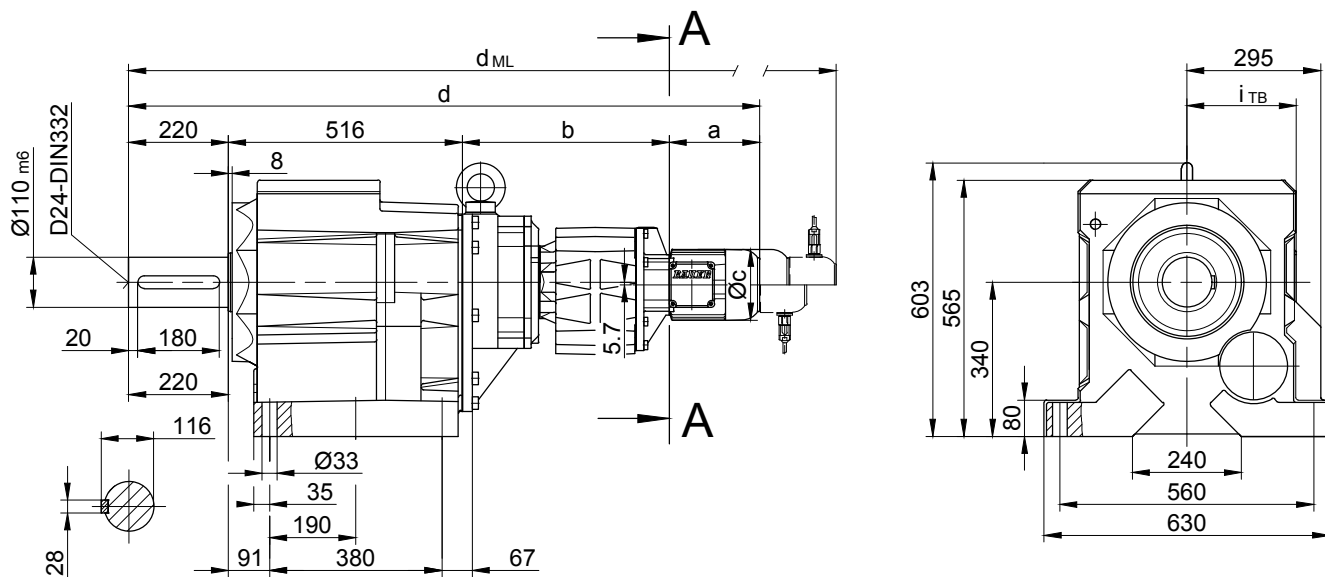
BG-series helical-geared motors

Dimension - Tandem Gearbox Metric

BG100G50

Foot mounting with clearance holes

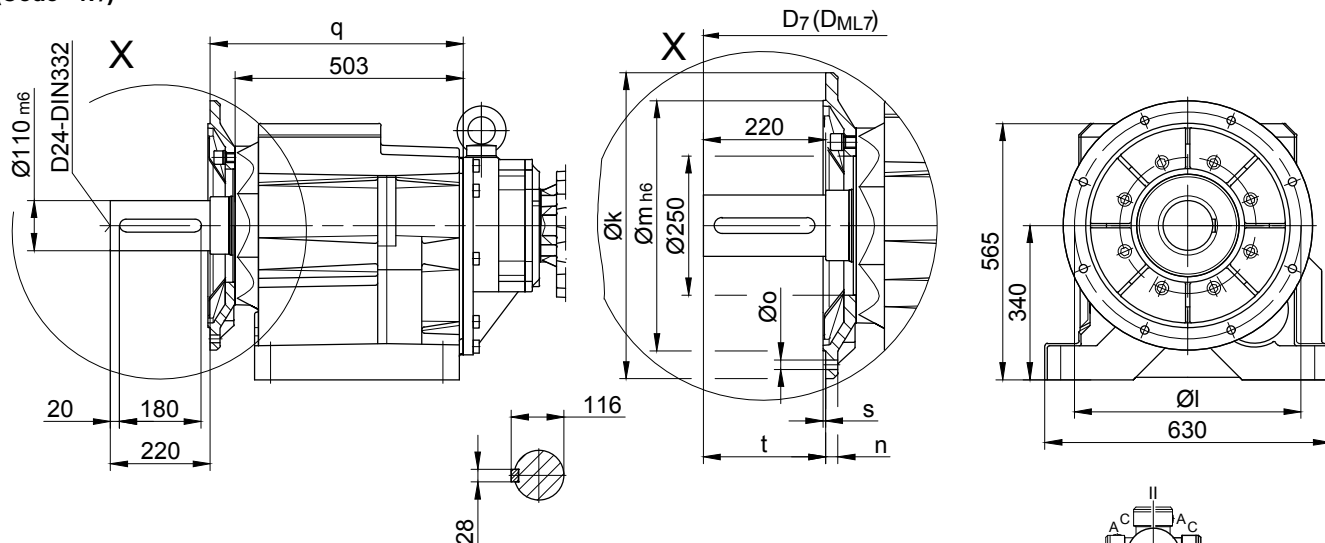
Code -11/



Flange with clearance holes

Code -37/

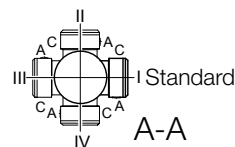
(Code -47/)



Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG100..	Code -37/	550	500	450	22	17.5	558	5	220	$d+42$	$d_{ML}+42$
BG100..	Code -47/	660	600	550	25	22	552	6	227	$d+42$	$d_{ML}+42$

Dimensions in millimetres (mm)



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BG100G50-../D..08.A.	199.5	456	156	1391.5	114.5	136.5	1457.5	1503.5	1565	1457.5
BG100G50-../D..08.B.	229.5	456	156	1421.5	114.5	136.5	1487.5	1533.5	1594.5	1487.5
BG100G50-../D..09.A.	250.5	470.5	176	1457	124	157	1550	1564.5	1654	1550
BG100G50-../D..09.B.	308.5	470.5	176	1515	124	157	1608	1622	1712	1608
BG100G50-../D..11.A.	319	477	218	1532	165	176	1630	1639.5	1732	1630
BG100G50-../D..11.B.	387	477	218	1600	165	176	1696	1707.5	1800	1696
BG100G50-../D..13.A.	393	490	258	1619	217	217	1730	1726	1831	1727
BG100G50-../D..16.B.	454.5	504	310	1694.5	243	243	1838	1801.5	1941.5	1838
BG100G50-../D..18.B.	542	526	348	1804	288	288	1953.5	1909.5	2057	1953.5

Dimensions in millimetres (mm)

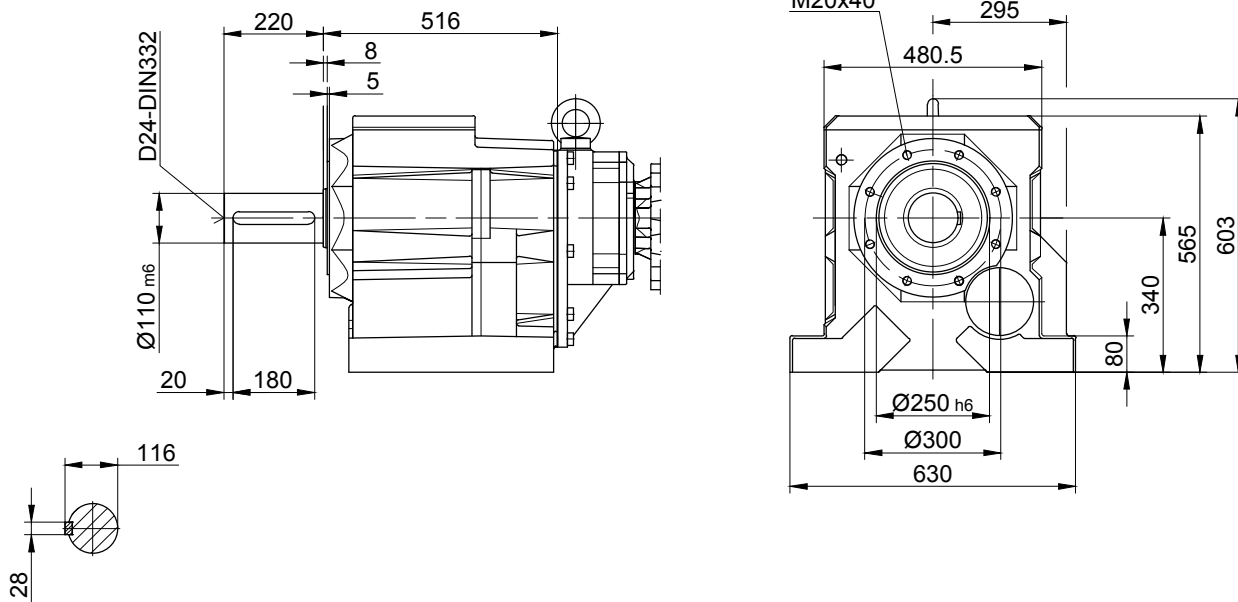
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Tandem Gearbox Metric

BG100G50

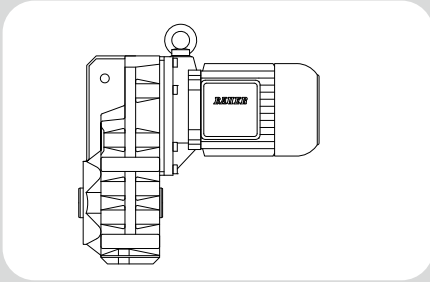
Flange with tapped holes

Code -71/



Energy Efficient Geared Motors

AC Line Operated / North America



11

BF-series shaft-mounted geared motors - Dimensions

Dimension - Standard Imperial	370
BF06	370
BF10 - BF10Z	372
BF20 - BF20Z	374
BF30 - BF30Z	376
BF40 - BF40Z	378
BF50 - BF50Z	380
BF60 - BF60Z	382
BF70 - BF70Z	384
BF80 - BF80Z	386
BF90 - BF90Z	388
Dimension - Tandem Gearbox Imperial	390
BF10G06	390
BF20G06	392
BF30G06	394
BF40G10	396
BF50G10	398
BF60G20	400
BF70G20	402
BF80G40	404
BF90G50	406
Additional Dimension Sheet Imperial	408
Shrink disc coupling (SSV)	408
Shrink disc coupling with (SSV) cover	409
Tapped holes side (H) → shaft cover	410
Rubber buffer for torque restraint	411
Assembly tools for hollow shaft and keyway	412
Sealing cap (VK)	414
Sealing cover (VD)	415
Dimension - Standard Metric	416
BF06	416
BF10 - BF10Z	418
BF20 - BF20Z	420
BF30 - BF30Z	422
BF40 - BF40Z	424
BF50 - BF50Z	426
BF60 - BF60Z	428
BF70 - BF70Z	430
BF80 - BF80Z	432
BF90 - BF90Z	434
Dimension - Tandem Gearbox Metric	436
BF10G06	436
BF20G06	438
BF30G06	440
BF40G10	442

Energy Efficient Geared Motors

AC Line Operated / North America

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◀ BF50G10	444
BF60G20	446
BF70G20	448
BF80G40	450
BF90G50	452
Additional Dimension Sheet Metric	455
Splined shaft BF	455
Shrink disc coupling (SSV)	456
Shrink disc coupling with (SSV) cover	457
Tapped holes side (H) → shaft cover	458
Rubber buffer for torque restraint.....	459
Assembly tools for hollow shaft and keyway	460
Assembly tool for shaft mounted gears with splined shaft	462
Shaft cap (VK)	464
Shaft cover (VD)	465

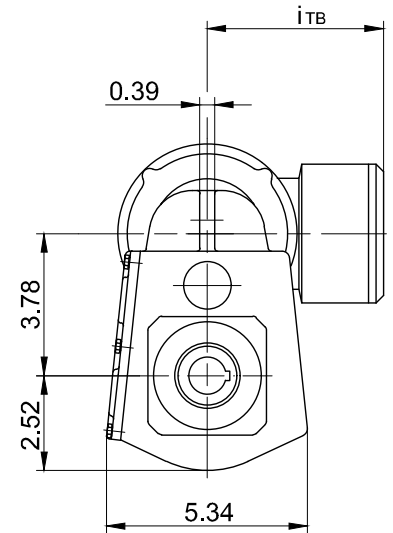
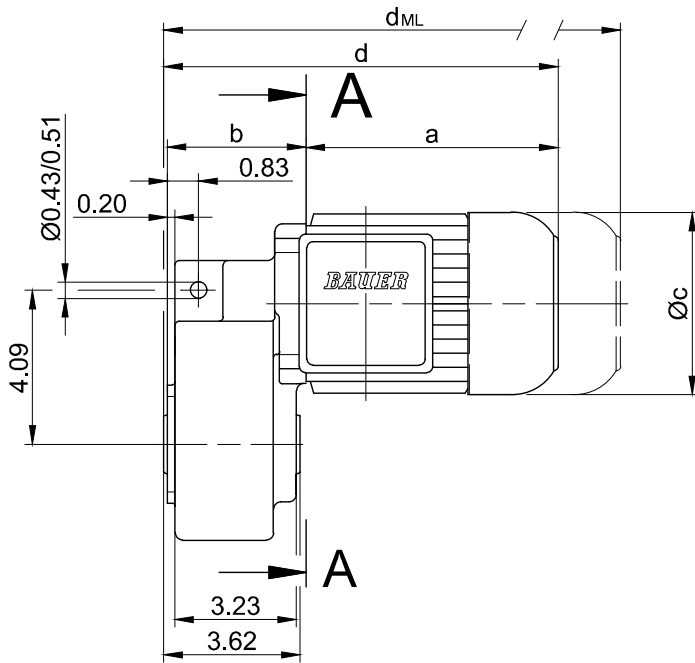
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

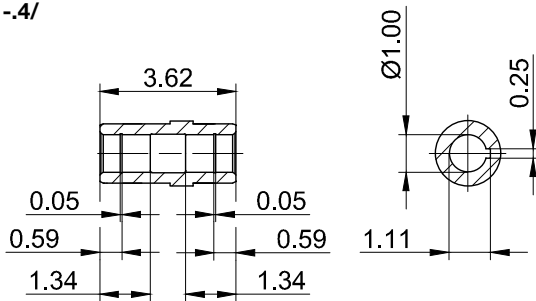
BF06

with torque arm

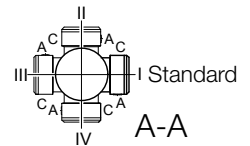
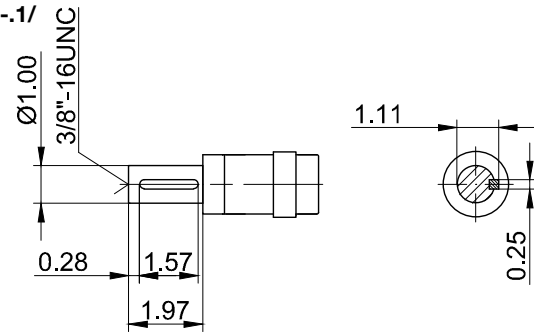
Code -0./



Code -4/



Code -1./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF06-../D..05.A.	6.72	3.68	4.84	10.40	3.98	4.61	12.05	14.43	15.91	-
BF06-../D..06.A.	6.70	3.68	4.84	10.39	3.90	4.69	12.04	14.42	15.90	-
BF06-../D..07.A.	7.49	3.68	4.84	11.17	3.90	4.69	12.83	15.21	16.69	-
BF06-../D..08.A.	7.85	5.57	6.14	13.43	4.51	5.37	16.02	17.83	20.26	16.02
BF06-../D..08.B.	9.04	5.57	6.14	14.61	4.51	5.37	17.20	19.02	21.42	17.20

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

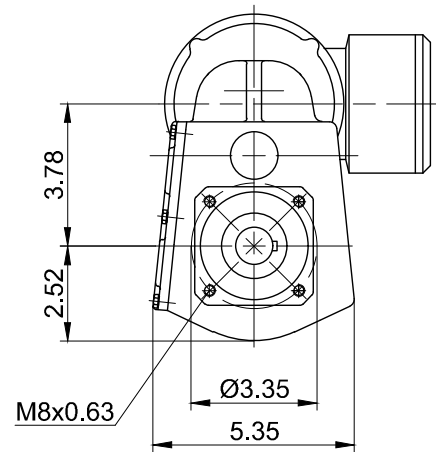
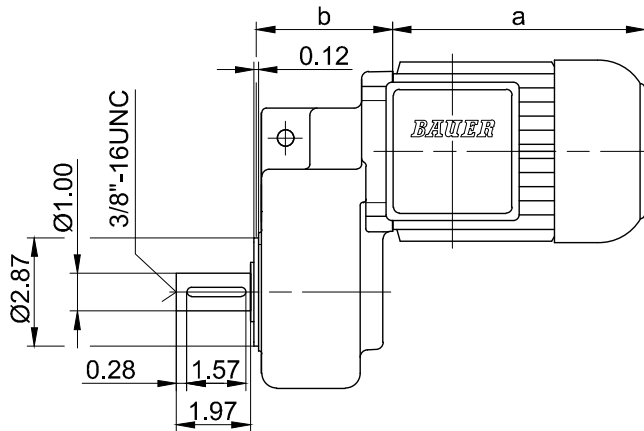
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF06

Flange with tapped holes

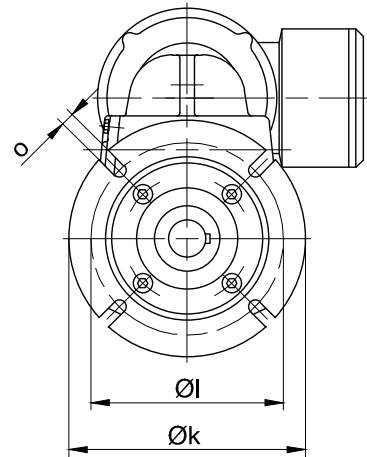
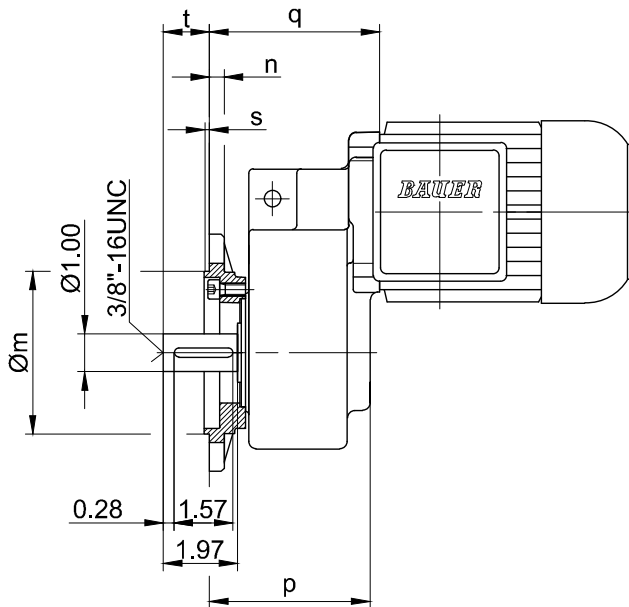
Code -7./



Flange with clearance holes

Code -3.V/

(Code -4.V/)



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in	
Type	Design	k	l	m	n	o	p	q ¹⁾	q ²⁾	s		t
BF06	Code -3./	5.512	4.528	3.740	0.394	0.354	4.272	4.528	6.417	0.118		1.222
BF06	Code -4./	6.299	5.118	4.331	0.394	0.354	4.272	4.528	6.417	0.138		1.222
¹⁾ only for motor sizes D05; D06; D07 ²⁾ only for motor size D08..												
Dimensions in inch												

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

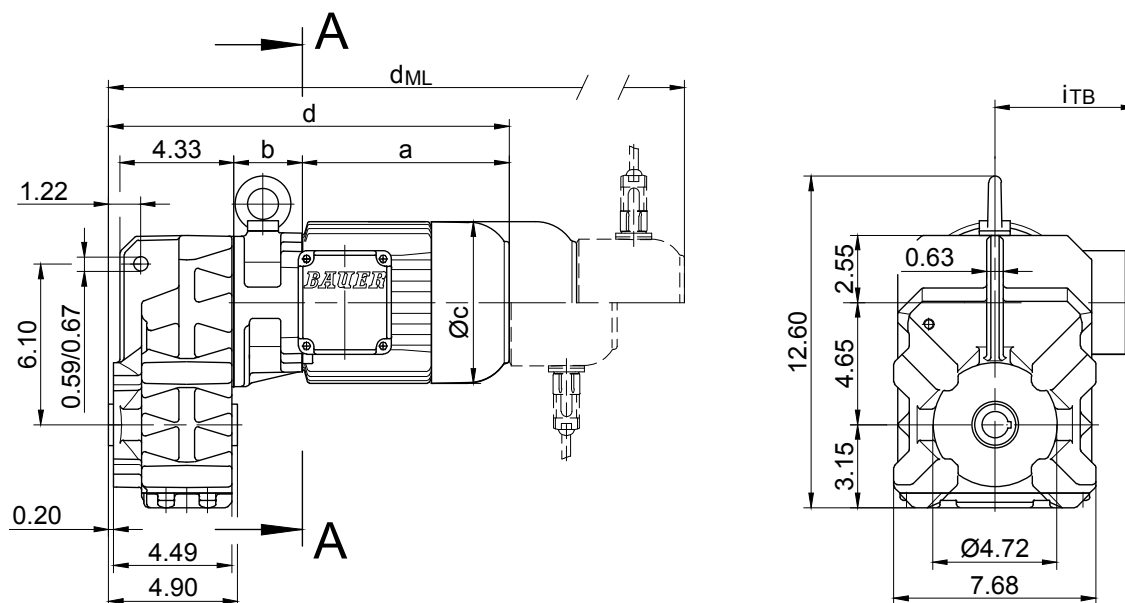
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

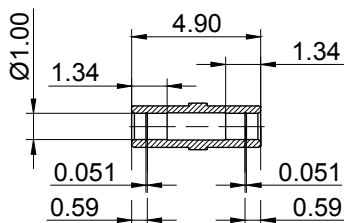
BF10 - BF10Z

with torque arm

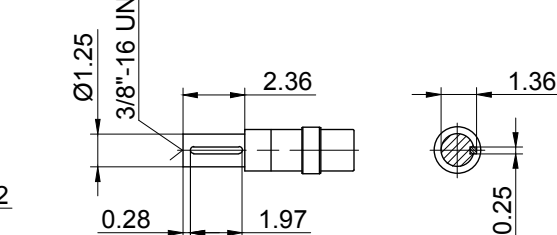
Code -0./



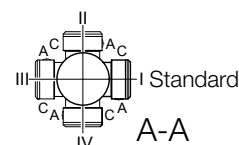
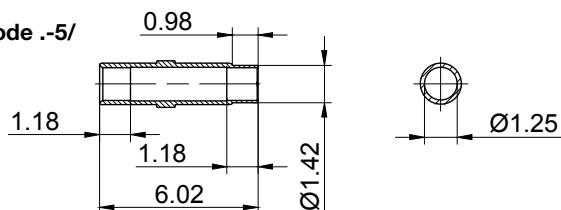
Code -4/



Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BF10Z-../D04.A.	5.61	3.39	4.35	13.56	3.54	4.41	15.28	17.00	18.72	-
BF10-../D..05.A.	6.72	2.44	4.84	13.72	3.98	4.61	15.38	17.76	19.24	-
BF10Z-../D..05.A.	6.72	3.46	4.84	14.75	3.98	4.61	16.40	18.78	20.26	-
BF10-../D..06.A.	6.70	2.44	4.84	13.71	3.90	4.69	15.37	17.75	19.22	-
BF10Z-../D..06.A.	6.70	3.46	4.84	14.74	3.90	4.69	16.39	18.77	20.25	-
BF10-../D..07.A.	7.49	2.44	4.84	14.50	3.90	4.69	16.15	18.54	20.01	-
BF10Z-../D..07.A.	7.49	3.46	4.84	15.52	3.90	4.69	17.18	19.56	21.04	-
BF10-../D..08.A.	7.85	2.60	6.14	15.02	4.51	5.37	17.62	19.43	21.85	17.62
BF10Z-../D..08.A.	7.85	5.20	6.14	17.62	4.51	5.37	20.22	22.03	24.45	20.22
BF10-../D..08.B.	9.04	2.60	6.14	16.20	4.51	5.37	18.80	20.61	23.01	18.80
BF10Z-../D..08.B.	9.04	5.20	6.14	18.80	4.51	5.37	21.40	23.21	25.61	21.40
BF10-../D..09.A.	9.86	3.17	6.93	17.60	4.88	6.18	21.26	21.83	25.36	21.26
BF10Z-../D..09.B.	12.15	3.17	6.93	19.88	4.88	6.18	23.54	24.10	27.64	23.54

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

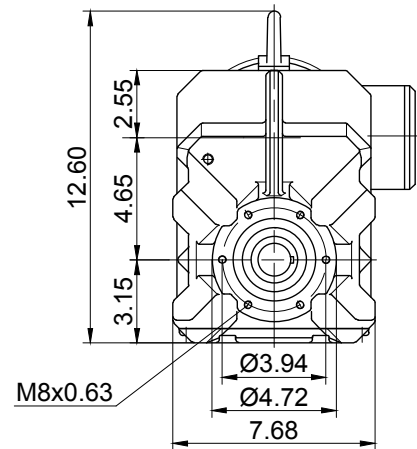
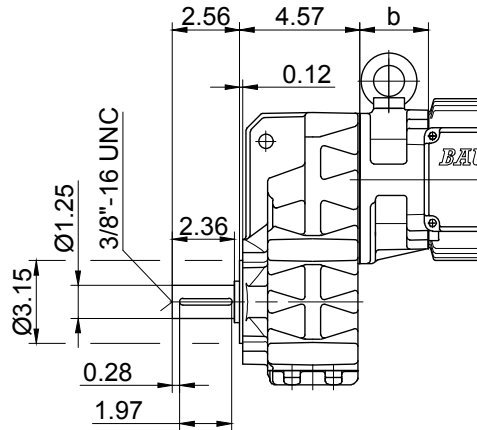
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF10 - BF10Z

Flange with tapped holes

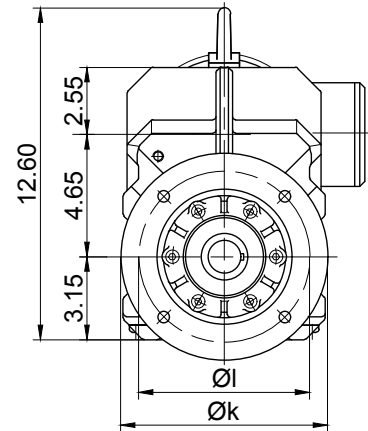
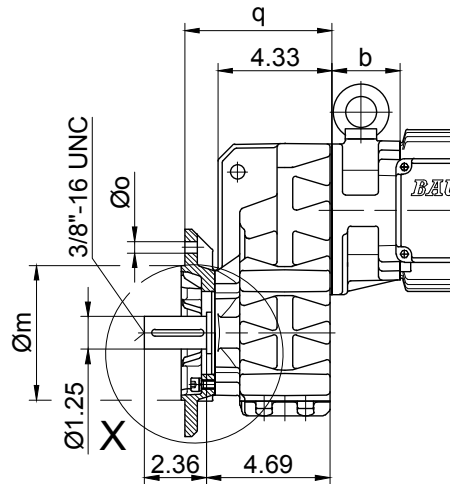
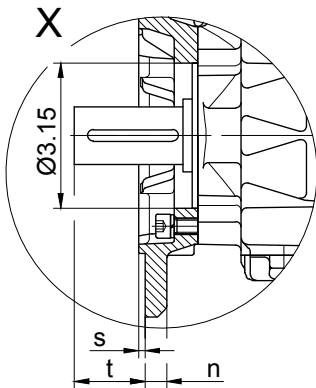
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

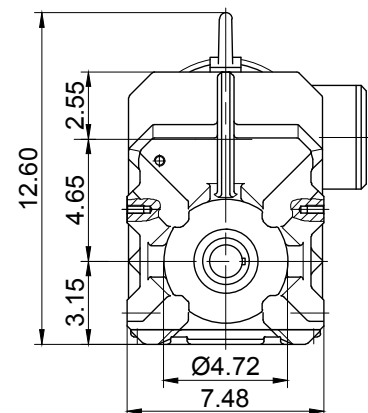
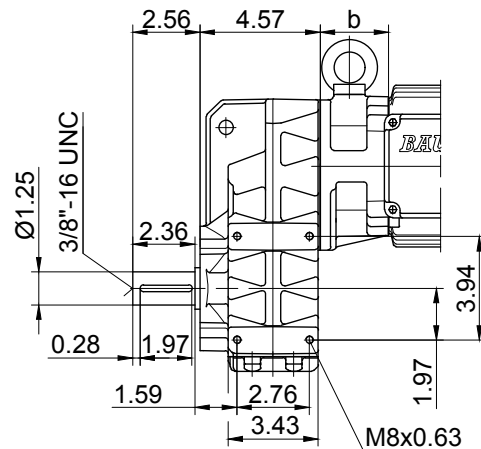


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF10..	Code -3./	7.874	6.496	5.118	0.472	0.433	5.591	0.138	1.533	
BF10..	Code -2./	6.299	5.118	4.331	0.394	0.354	5.315	0.138	1.809	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

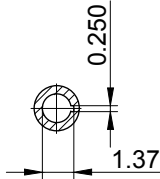
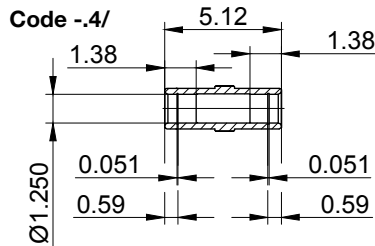
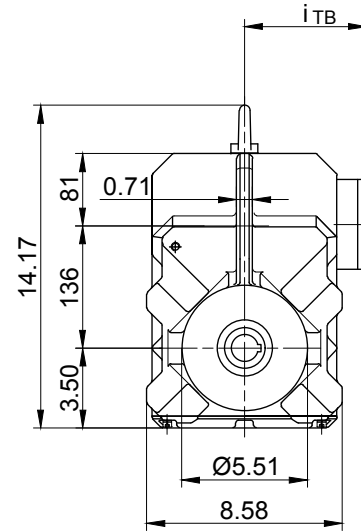
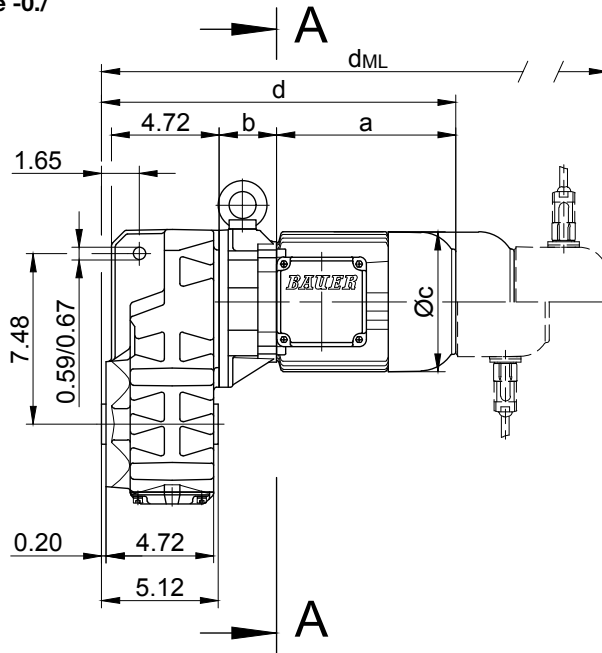
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

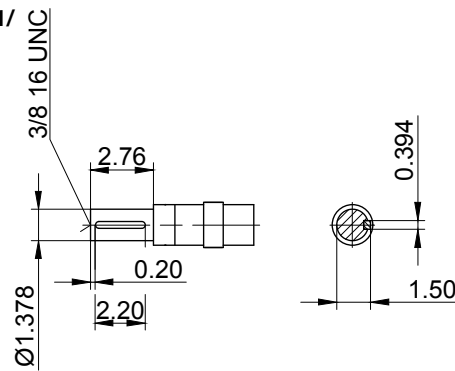
BF20 - BF20Z

with torque arm

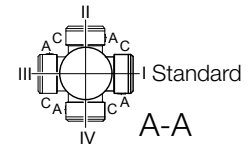
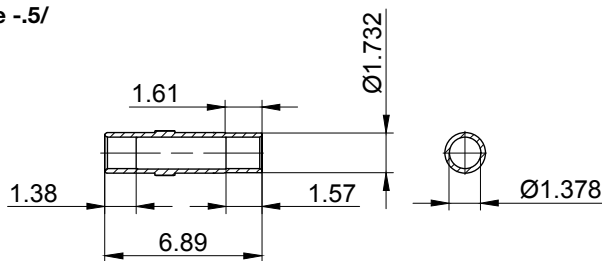
Code -0./



Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF20Z-../D04.A.	5.61	3.94	4.35	14.51	3.54	4.41	16.22	17.95	19.66	-
BF20-../D..05.A.	6.72	2.36	4.84	14.04	3.98	4.61	15.69	18.07	19.55	-
BF20Z-../D..05.A.	6.72	4.02	4.84	15.69	3.98	4.61	17.35	19.73	21.20	-
BF20-../D..06.A.	6.70	2.36	4.84	14.03	3.90	4.69	15.68	18.06	19.54	-
BF20Z-../D..06.A.	6.70	4.02	4.84	15.68	3.90	4.69	17.33	19.72	21.19	-
BF20-../D..07.A.	7.49	2.36	4.84	14.81	3.90	4.69	16.47	18.85	20.33	-
BF20Z-../D..07.A.	7.49	4.02	4.84	16.47	3.90	4.69	18.12	20.50	21.98	-
BF20-../D..08.A.	7.85	2.52	6.14	15.33	4.51	5.37	17.93	19.74	22.17	17.93
BF20Z-../D..08.A.	7.85	5.75	6.14	18.56	4.51	5.37	21.16	22.97	25.39	21.16
BF20-../D..08.B.	9.04	2.52	6.14	16.52	4.51	5.37	19.11	20.93	23.33	19.11
BF20Z-../D..08.B.	9.04	5.75	6.14	19.74	4.51	5.37	22.34	24.15	26.56	22.34
BF20-../D..09.A.	9.86	3.09	6.93	17.91	4.88	6.18	21.57	22.15	25.67	21.57
BF20Z-../D..09.B.	12.15	3.09	6.93	20.20	4.88	6.18	23.86	24.41	27.96	23.86

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

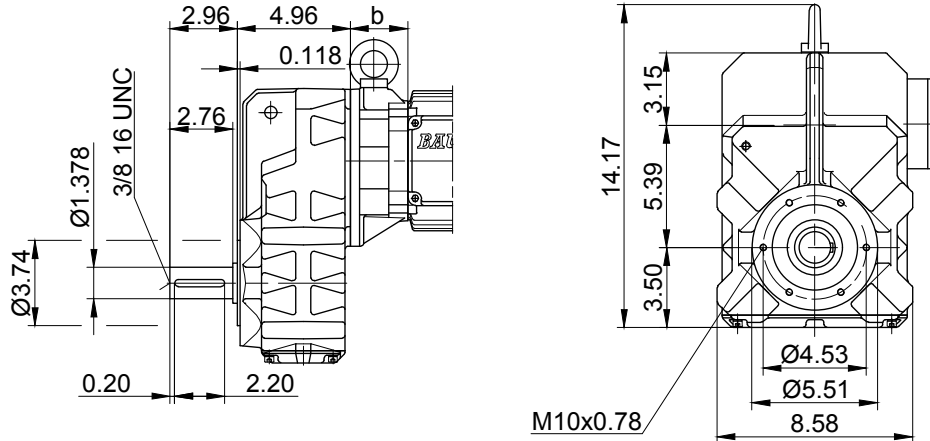
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF20 - BF20Z

Flange with tapped holes

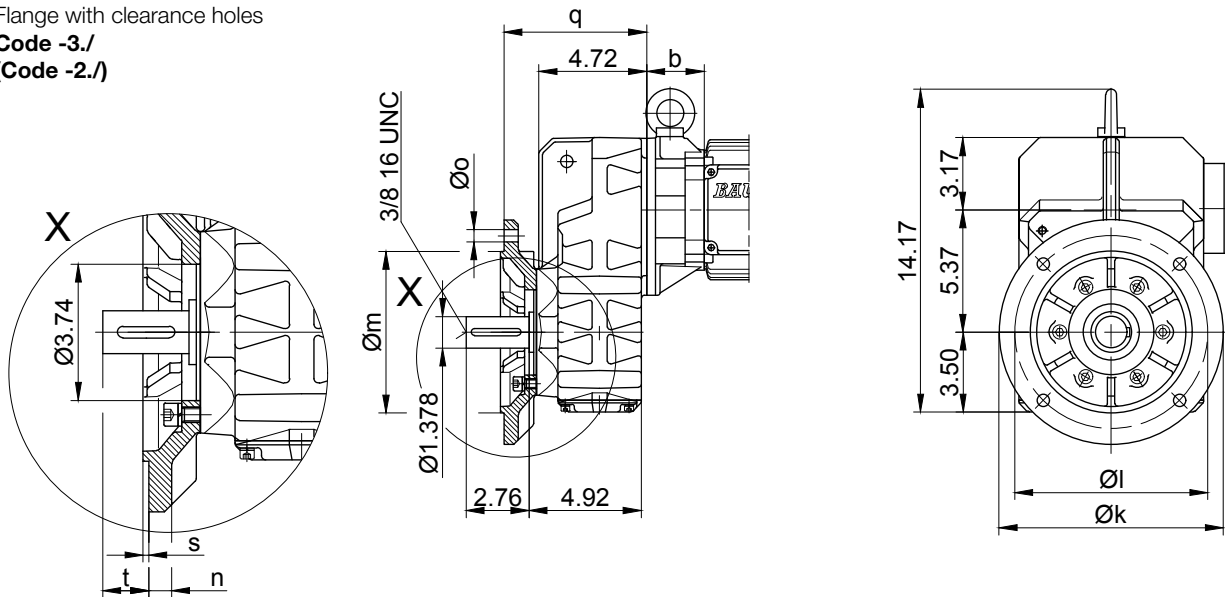
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

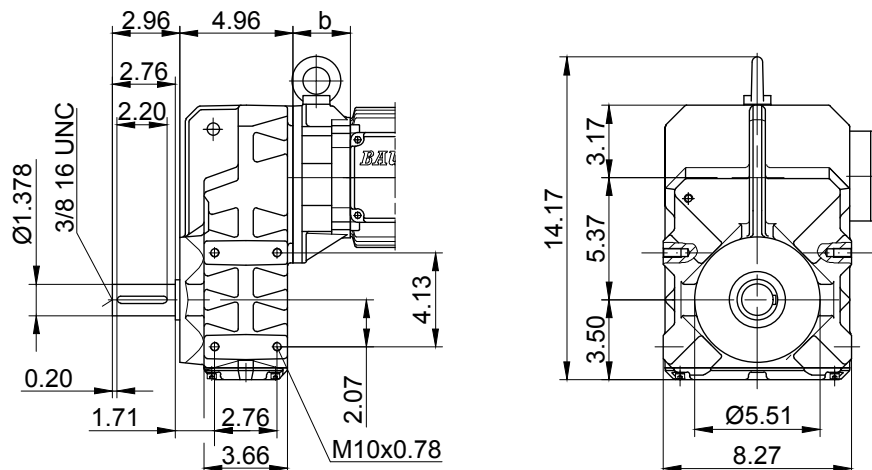


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF20..	Code -3./	9.843	8.465	7.087	0.630	0.531	6.260	0.157	1.658	
BF20..	Code -2./	7.874	6.496	5.118	0.472	0.433	5.906	0.138	2.012	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

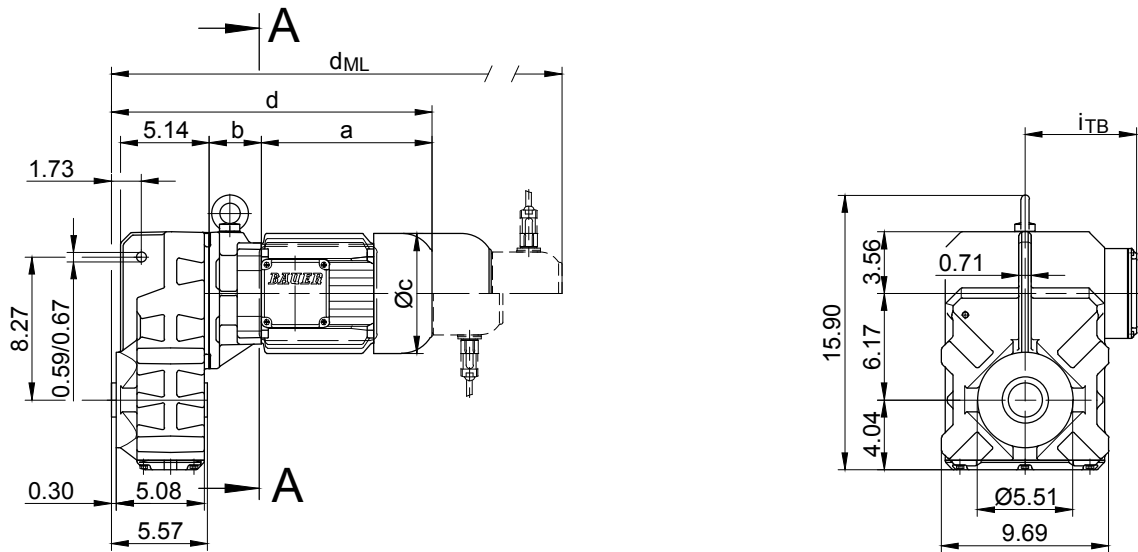
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

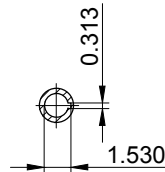
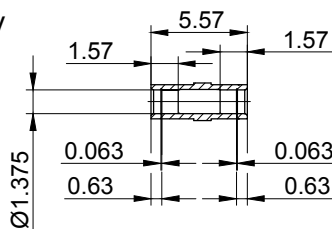
BF30 - BF30Z

with torque arm

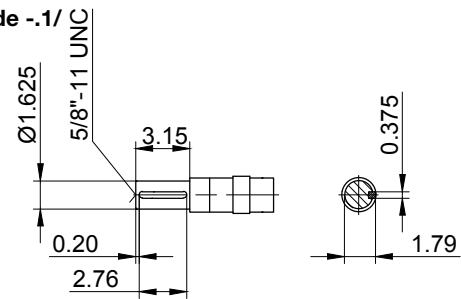
Code -0./



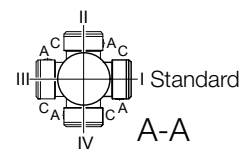
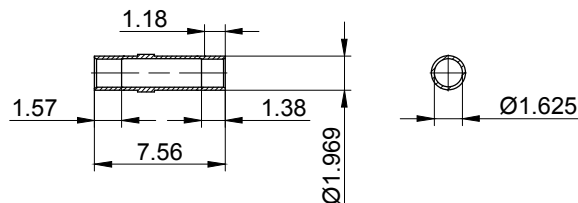
Code -4./



Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF30-../D..05.A.	6.72	2.28	4.84	14.37	3.98	4.61	16.03	18.41	19.89	-
BF30Z-../D..05.A.	6.72	5.26	4.84	17.35	3.98	4.61	19.00	21.38	22.86	-
BF30-../D..06.A.	6.70	2.28	4.84	14.36	3.90	4.69	16.02	18.40	19.87	-
BF30Z-../D..06.A.	6.70	5.26	4.84	17.33	3.90	4.69	18.99	21.37	22.85	-
BF30-../D..07.A.	7.49	2.28	4.84	15.15	3.90	4.69	16.80	19.19	20.66	-
BF30Z-../D..07.A.	7.49	5.26	4.84	18.12	3.90	4.69	19.78	22.16	23.63	-
BF30-../D..08.A.	7.85	2.44	6.14	15.67	4.51	5.37	18.27	20.08	22.50	18.27
BF30Z-../D..08.A.	7.85	5.41	6.14	18.64	4.51	5.37	21.24	23.05	25.47	21.24
BF30-../D..08.B.	9.04	2.44	6.14	16.85	4.51	5.37	19.45	21.26	23.66	19.45
BF30Z-../D..08.B.	9.04	5.41	6.14	19.82	4.51	5.37	22.42	24.23	26.63	22.42
BF30-../D..09.A.	9.86	3.01	6.93	18.25	4.88	6.18	21.91	22.48	26.01	21.91
BF30Z-../D..09.A.	9.86	5.98	6.93	21.22	4.88	6.18	24.88	25.46	28.98	24.88
BF30-../D..09.B.	12.15	3.01	6.93	20.53	4.88	6.18	24.19	24.75	28.29	24.19
BF30Z-../D..09.B.	12.15	5.98	6.93	23.50	4.88	6.18	27.17	27.72	31.26	27.17
BF30-../D..11.A.	12.56	3.27	8.58	21.20	6.50	6.93	25.06	25.44	29.08	25.06
BF30Z-../D..11.B.	15.24	3.27	8.58	23.88	6.50	6.93	27.66	28.11	31.76	27.66

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

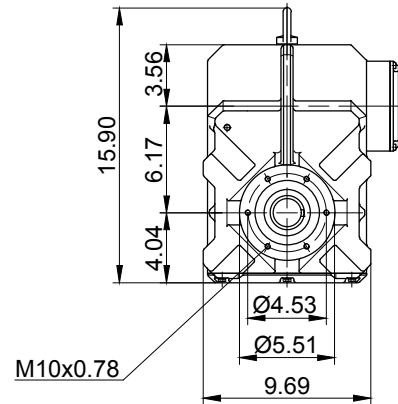
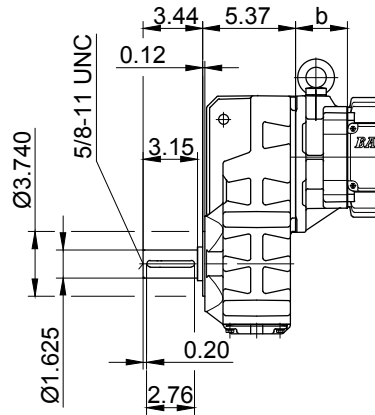
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF30 - BF30Z

Flange with tapped holes

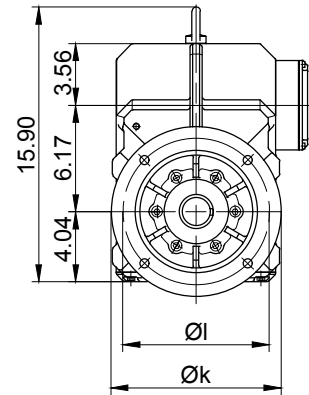
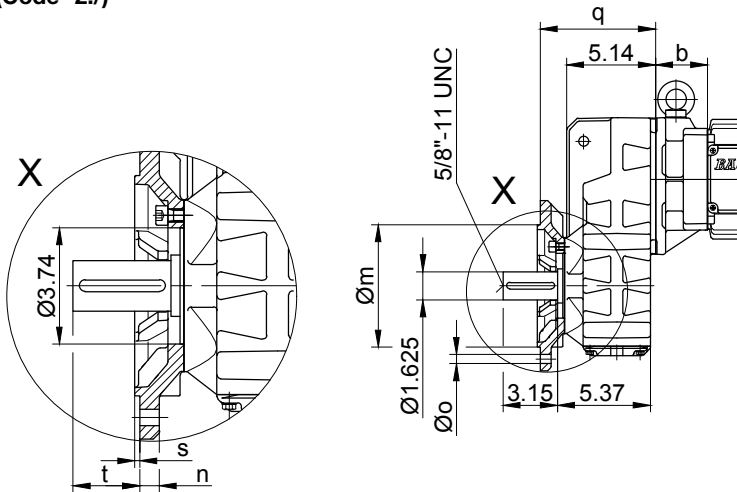
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

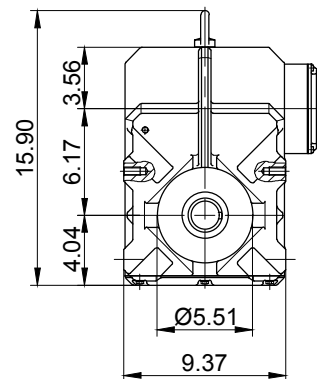
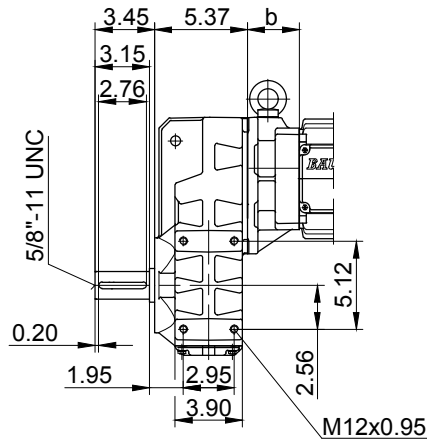


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF30..	Code -3./	9.843	8.465	7.087	0.630	0.531	6.673	0.157	2.146	
BF30..	Code -2./	7.874	6.496	5.118	0.472	0.433	6.319	0.138	2.500	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

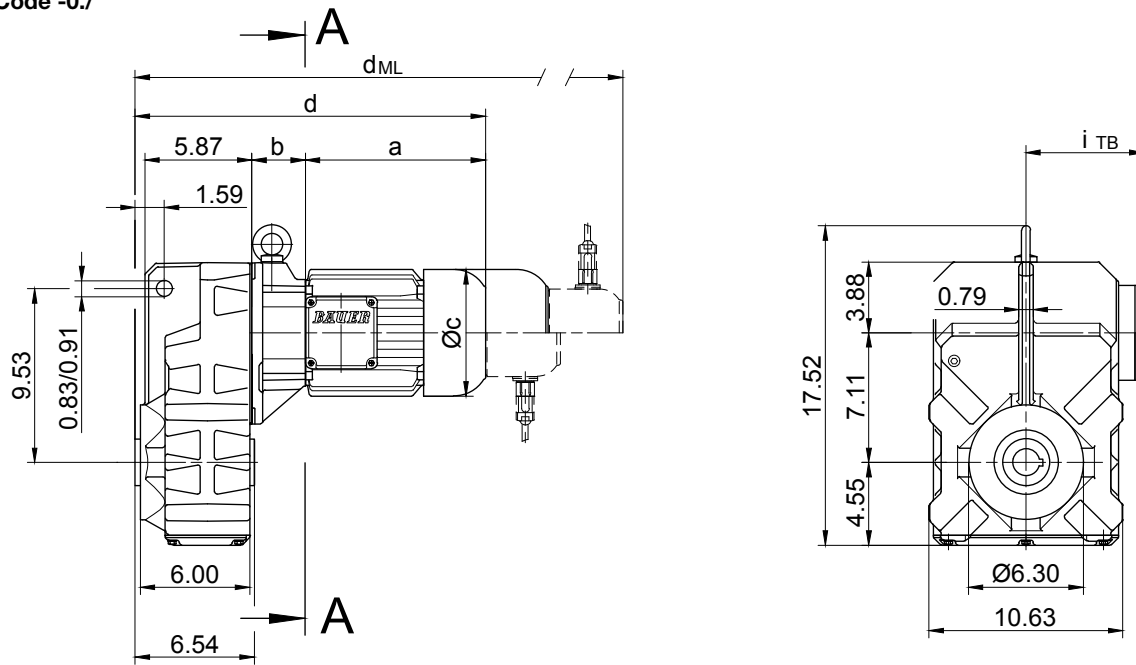
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF40 - BF40Z

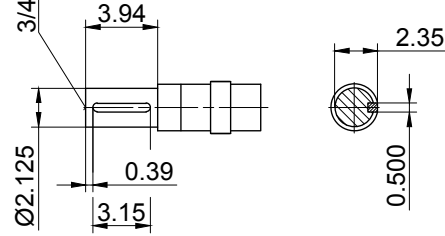
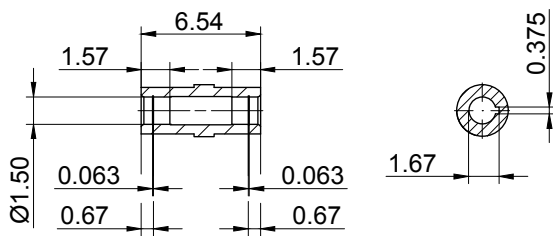
with torque arm

Code -0./

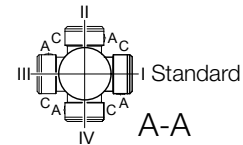
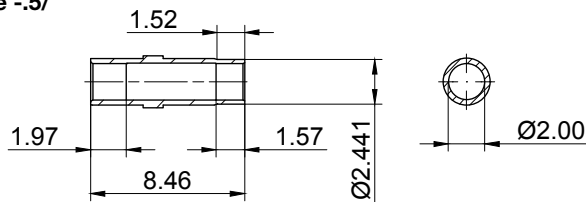


Code -4/

Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF40Z-../D..05.A.	6.72	5.45	4.84	18.29	3.98	4.61	19.94	22.33	23.80	-
BF40Z-../D..06.A.	6.70	5.45	4.84	18.28	3.90	4.69	19.93	22.31	23.79	-
BF40Z-../D..07.A.	7.49	5.45	4.84	19.07	3.90	4.69	20.72	23.10	24.58	-
BF40-../D..08.A.	7.85	2.36	6.14	16.34	4.51	5.37	18.94	20.75	23.17	18.94
BF40Z-../D..08.A.	7.85	5.61	6.14	19.59	4.51	5.37	22.19	24.00	26.42	22.19
BF40-../D..08.B.	9.04	2.36	6.14	17.52	4.51	5.37	20.12	21.93	24.33	20.12
BF40Z-../D..08.B.	9.04	5.61	6.14	20.77	4.51	5.37	23.37	25.18	27.58	23.37
BF40-../D..09.A.	9.86	2.93	6.93	18.92	4.88	6.18	22.58	23.15	26.68	22.58
BF40Z-../D..09.A.	9.86	6.18	6.93	22.17	4.88	6.18	25.83	26.40	29.93	25.83
BF40-../D..09.B.	12.15	2.93	6.93	21.20	4.88	6.18	24.86	25.42	28.96	24.86
BF40Z-../D..09.B.	12.15	6.18	6.93	24.45	4.88	6.18	28.11	28.67	32.21	28.11
BF40-../D..11.A.	12.56	3.19	8.58	21.87	6.50	6.93	25.73	26.11	29.75	25.73
BF40-../D..11.B.	15.24	3.19	8.58	24.55	6.50	6.93	28.33	28.78	32.43	28.33

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

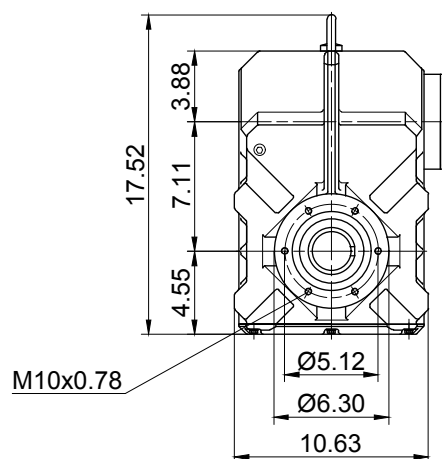
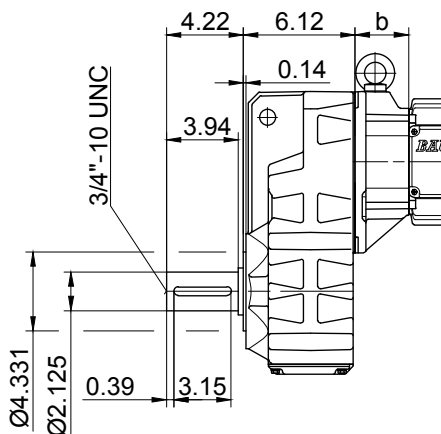
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF40 - BF40Z

Flange with tapped holes

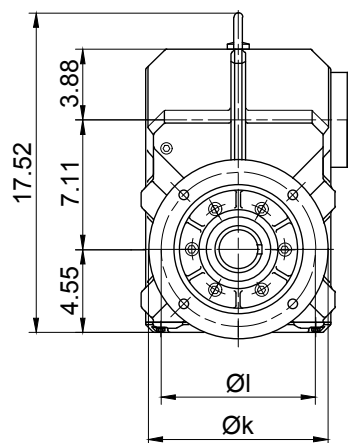
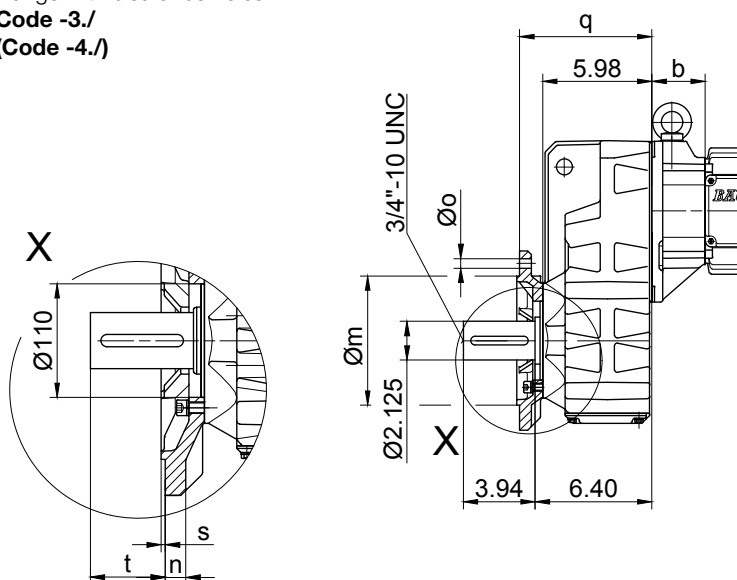
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

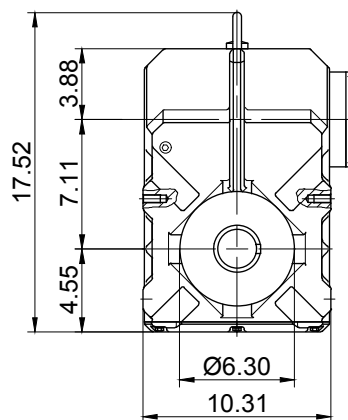
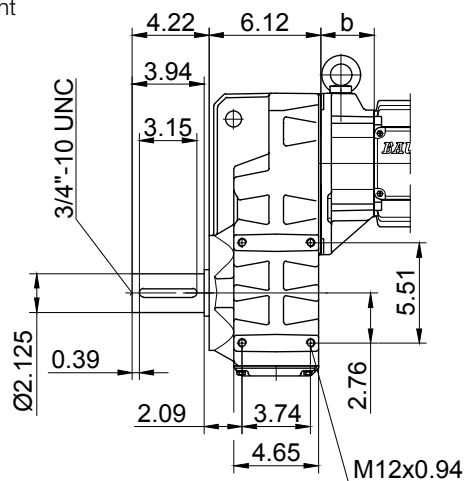


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF40..	Code -3./	9.843	8.465	7.087	0.630	0.531	7.244	0.157	3.094	
BF40..	Code -4./	11.811	10.433	9.055	0.787	0.531	7.480	0.157	2.857	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

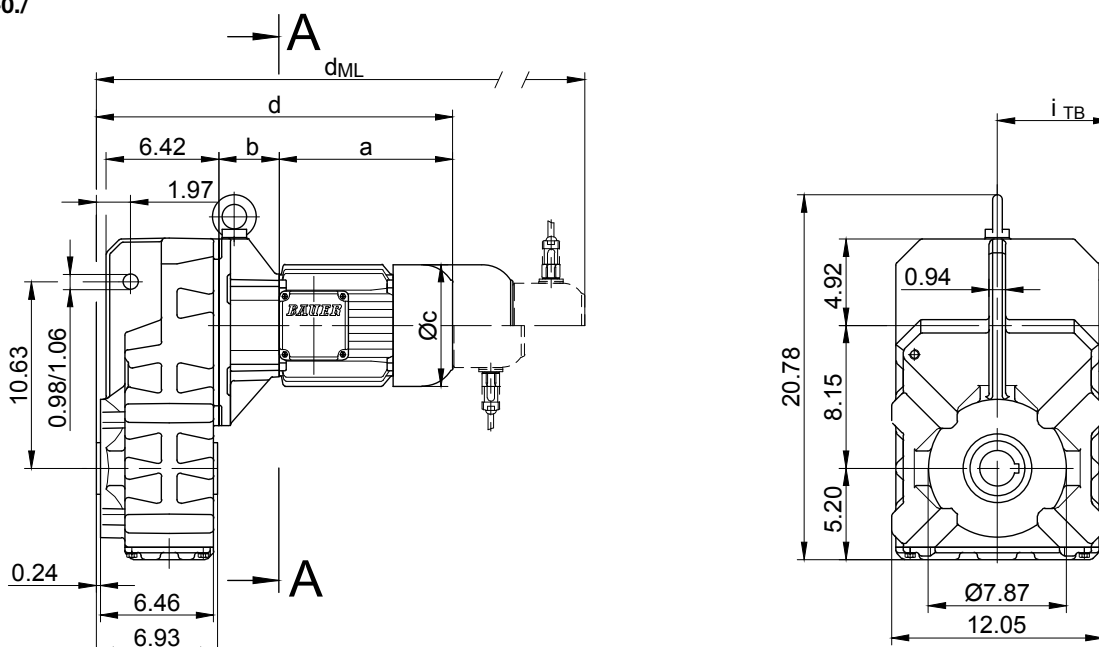
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

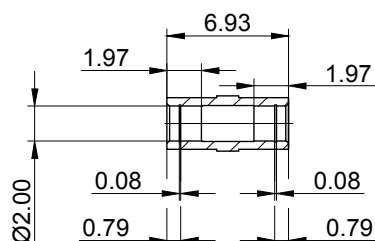
BF50 - BF50Z

with torque arm

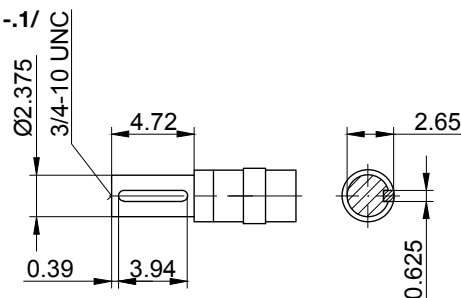
Code -0./



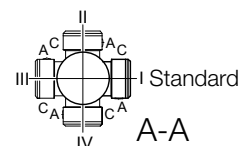
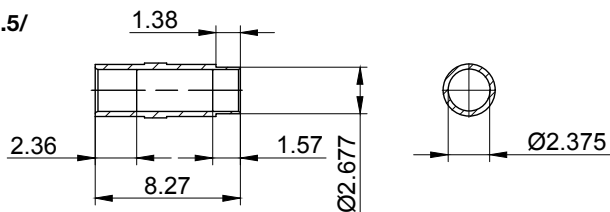
Code -4/



Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BF50Z-../D..05.A.	6.72	6.10	4.84	19.57	3.98	4.61	21.22	23.61	25.08	-
BF50Z-../D..06.A.	6.70	6.10	4.84	19.56	3.90	4.69	21.21	23.59	25.07	-
BF50Z-../D..07.A.	7.49	6.10	4.84	20.35	3.90	4.69	22.00	24.38	25.86	-
BF50-../D..08.A.	7.85	2.87	6.14	17.48	4.51	5.37	20.08	21.89	24.31	20.08
BF50Z-../D..08.A.	7.85	6.26	6.14	20.87	4.51	5.37	23.46	25.28	27.70	23.46
BF50-../D..08.B.	9.04	2.87	6.14	18.66	4.51	5.37	21.26	23.07	25.47	21.26
BF50Z-../D..08.B.	9.04	6.26	6.14	22.05	4.51	5.37	24.65	26.46	28.86	24.65
BF50-../D..09.A.	9.86	3.44	6.93	20.06	4.88	6.18	23.72	24.30	27.82	23.72
BF50Z-../D..09.A.	9.86	6.83	6.93	23.44	4.88	6.18	27.11	27.68	31.20	27.11
BF50-../D..09.B.	12.15	3.44	6.93	22.34	4.88	6.18	26.00	26.56	30.10	26.00
BF50Z-../D..09.B.	12.15	6.83	6.93	25.73	4.88	6.18	29.39	29.94	33.49	29.39
BF50-../D..11.A.	12.56	3.70	8.58	23.01	6.50	6.93	26.87	27.25	30.89	26.87
BF50Z-../D..11.B.	15.24	3.70	8.58	25.69	6.50	6.93	29.47	29.93	33.57	29.47
BF50-../D..13.A.	15.47	4.21	10.16	26.44	8.54	8.54	30.81	30.65	34.79	30.69
BF50-../D..16.B.	17.89	4.76	12.20	29.41	9.57	9.57	35.06	33.63	39.14	35.06
BF50-../D..18.B.	21.34	5.63	13.70	33.72	11.34	11.34	39.61	37.88	43.69	39.61

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

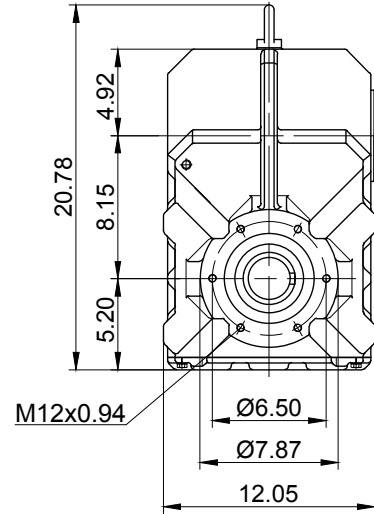
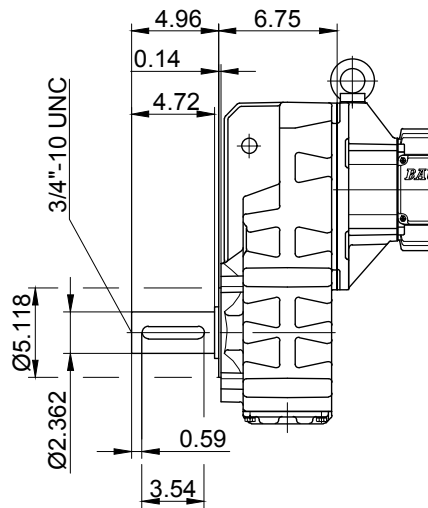
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF50 - BF50Z

Flange with tapped holes

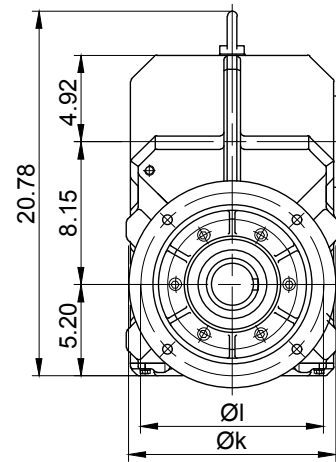
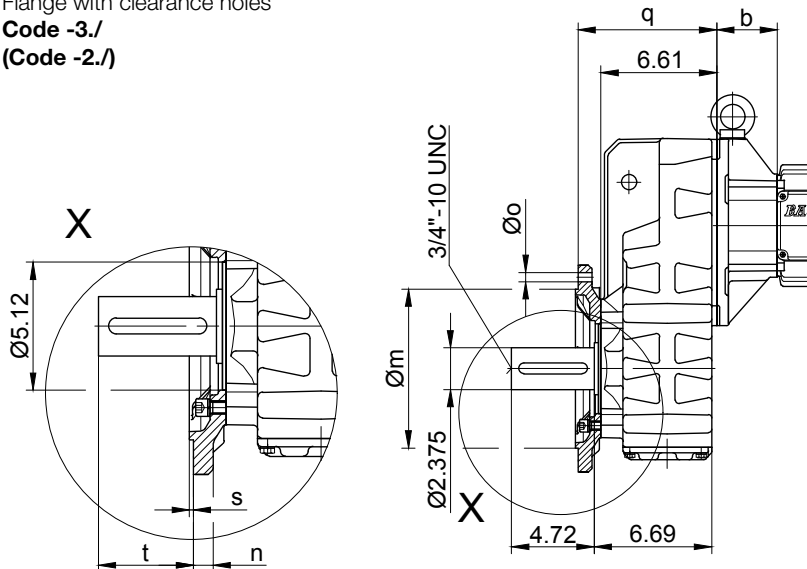
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

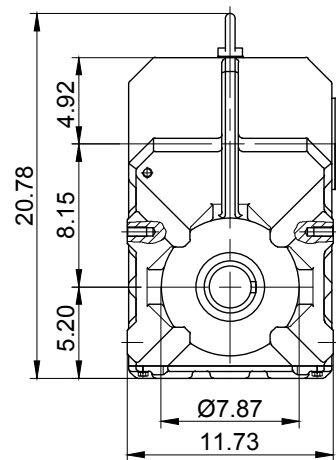
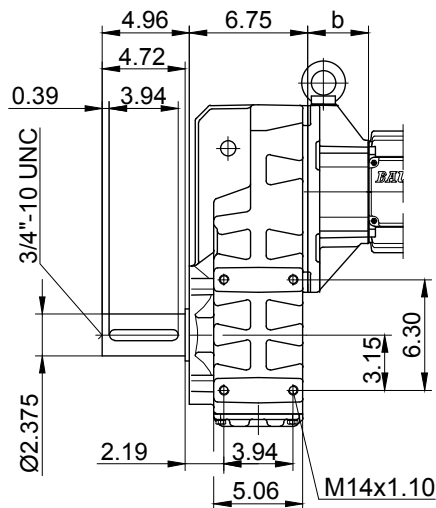


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF50..	Code -3./	11.811	10.433	9.055	0.787	0.531	7.913	0.157	3.795	
BF50..	Code -2./	9.843	8.465	7.087	0.630	0.531	7.795	0.157	3.913	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



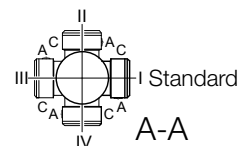
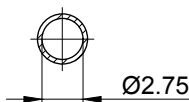
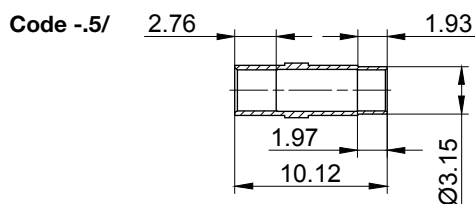
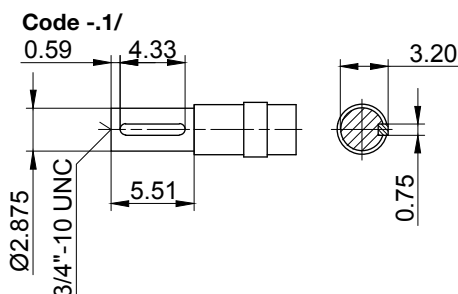
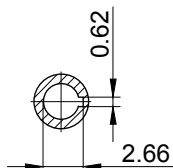
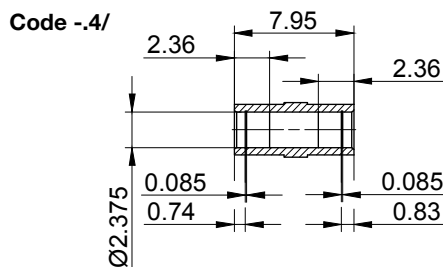
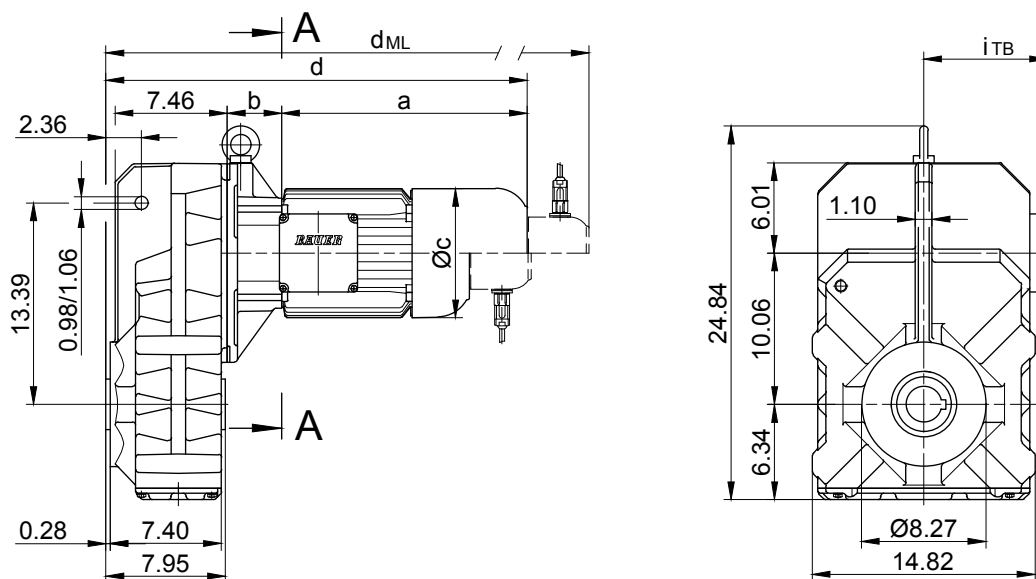
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Imperial

BF60 - BF60Z

with torque arm

Code -0./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF60Z-../D..08.A.	7.85	7.13	6.14	22.78	4.51	5.37	25.37	27.19	29.61	25.37
BF60Z-../D..08.B.	9.04	7.13	6.14	23.96	4.51	5.37	26.56	28.37	30.77	26.56
BF60-../D..09.A.	9.86	3.37	6.93	21.02	4.88	6.18	24.69	25.26	28.78	24.69
BF60Z-../D..09.A.	9.86	7.70	6.93	25.35	4.88	6.18	29.02	29.59	33.11	29.02
BF60-../D..09.B.	12.15	3.37	6.93	23.31	4.88	6.18	26.97	27.52	31.07	26.97
BF60Z-../D..09.B.	12.15	7.70	6.93	27.64	4.88	6.18	31.30	31.85	35.40	31.30
BF60-../D..11.A.	12.56	3.62	8.58	23.98	6.50	6.93	27.83	28.21	31.85	27.83
BF60Z-../D..11.A.	12.56	7.95	8.58	28.31	6.50	6.93	32.17	32.54	36.19	32.17
BF60-../D..11.B.	15.24	3.62	8.58	26.65	6.50	6.93	30.43	30.89	34.53	30.43
BF60Z-../D..11.B.	15.24	7.95	8.58	30.98	6.50	6.93	34.76	35.22	38.86	34.76
BF60-../D..13.A.	15.47	4.13	10.16	27.40	8.54	8.54	31.77	31.62	35.75	31.65
BF60-../D..16.B.	17.89	4.69	12.20	30.37	9.57	9.57	36.02	34.59	40.10	36.02
BF60-../D..18.B.	21.34	5.55	13.70	34.69	11.34	11.34	40.57	38.84	44.65	40.57

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

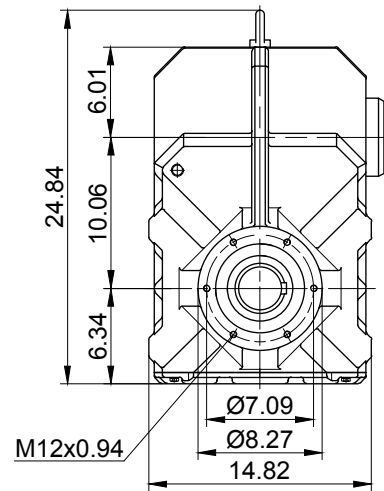
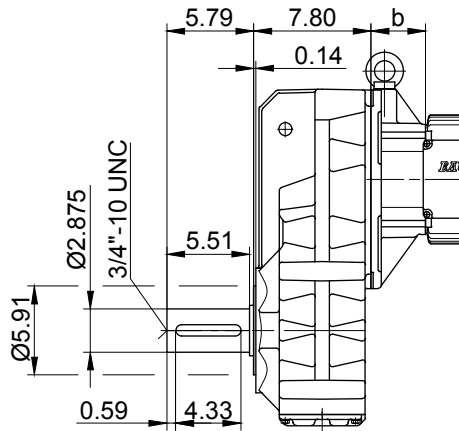
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF60 - BF60Z

Flange with tapped holes

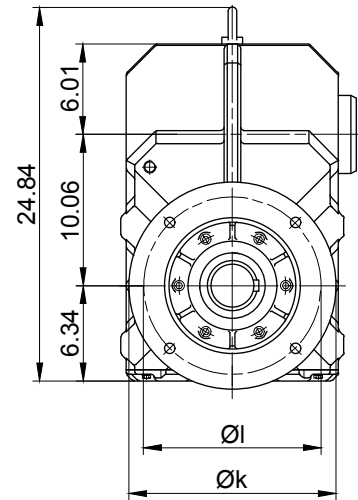
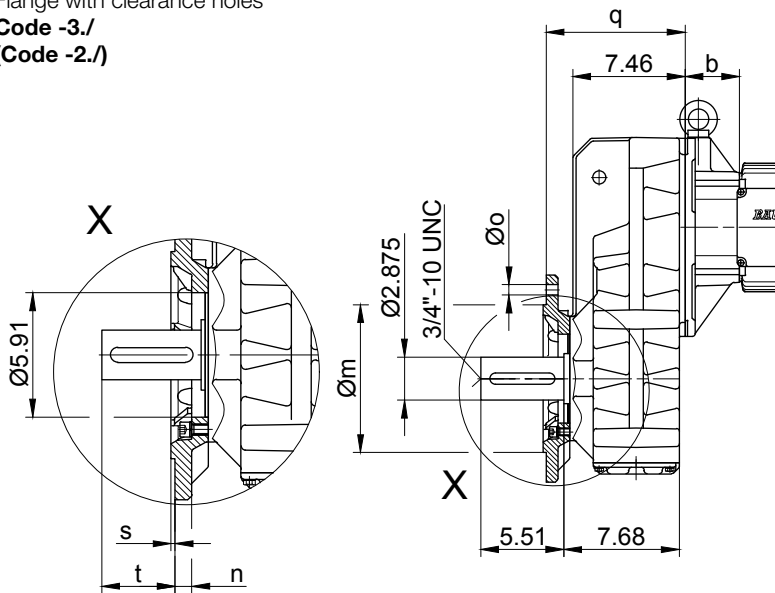
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

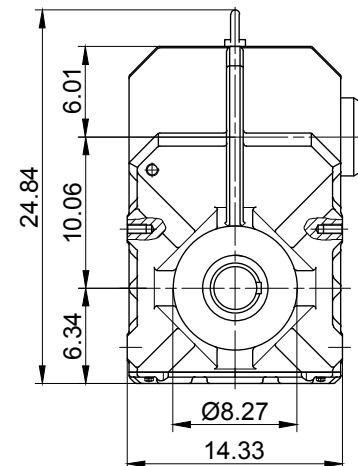
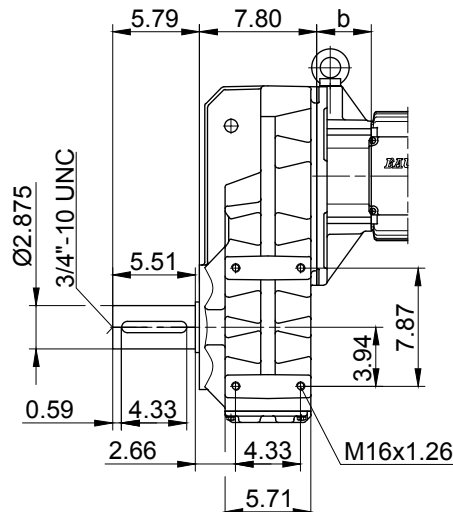


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF60..	Code -3./	13.780	11.811	9.843	0.787	0.689	9.232	0.197	4.349	
BF60..	Code -2./	11.811	10.433	9.055	0.787	0.531	9.547	0.157	4.034	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

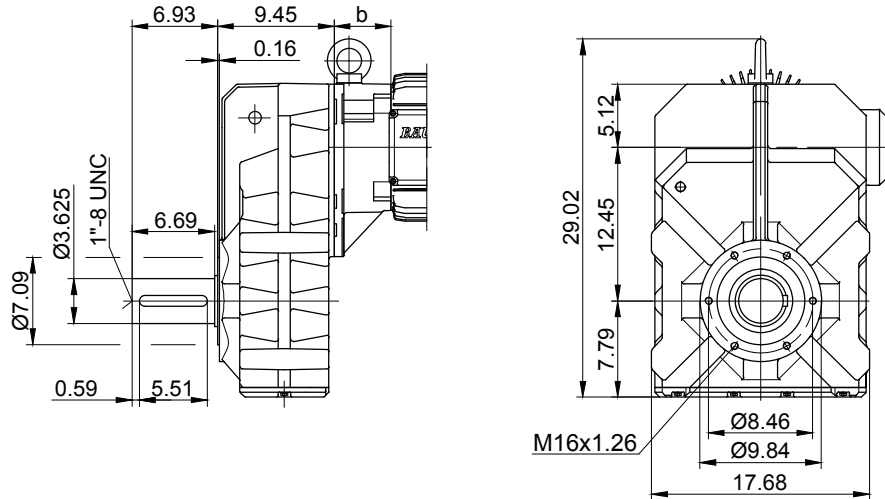
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF70 - BF70Z

Flange with tapped holes

Code -7./

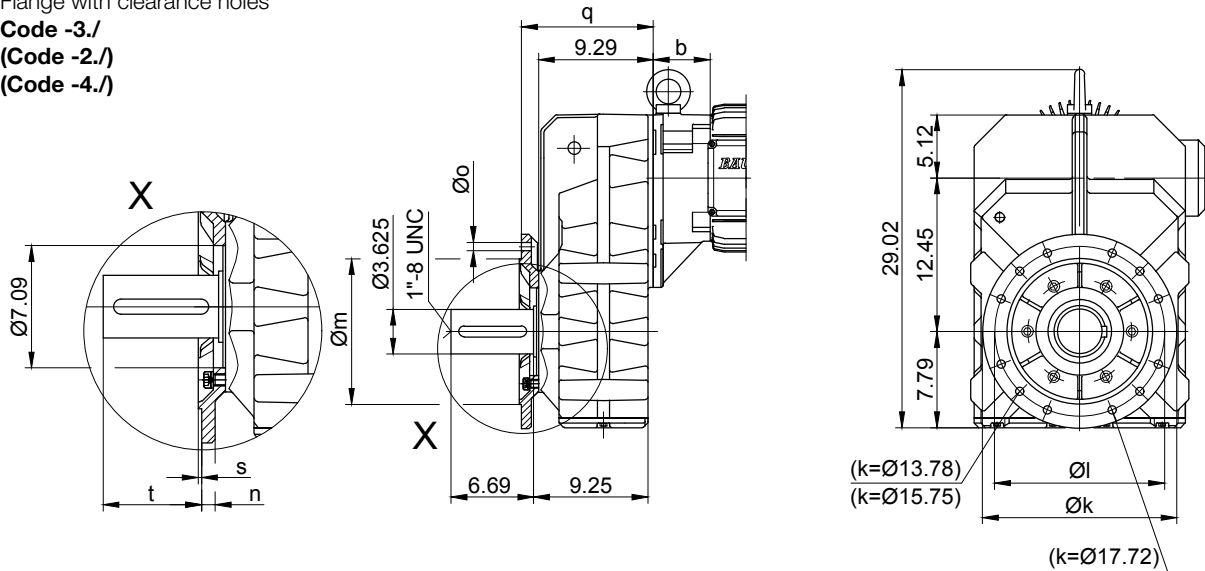


Flange with clearance holes

Code -3./

(Code -2./)

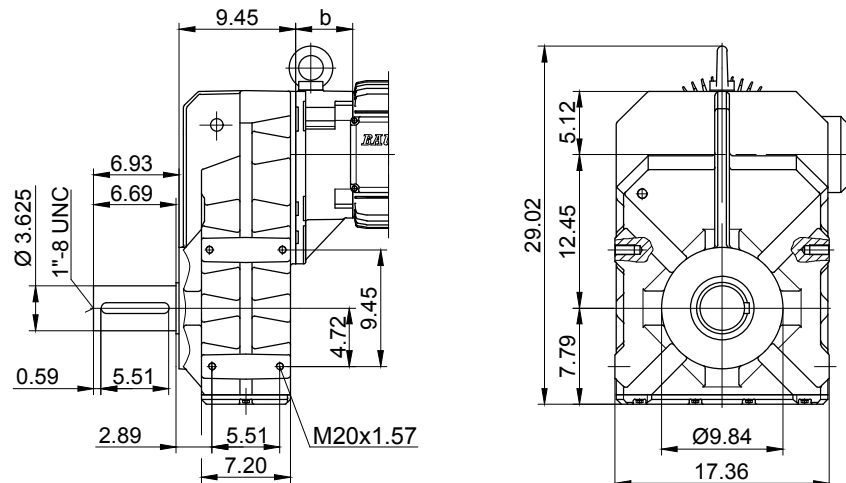
(Code -4./)



Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF70..	Code -3./	15.748	13.780	11.811	0.787	-1,000	10.669	0.197	5.706	
BF70..	Code -2./	13.780	11.811	9.843	0.787	-1,000	10.669	0.197	5.706	
BF70..	Code -4./	17.717	15.748	13.780	0.866	-1,000	11.063	0.197	5.312	
Dimensions in inch										

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

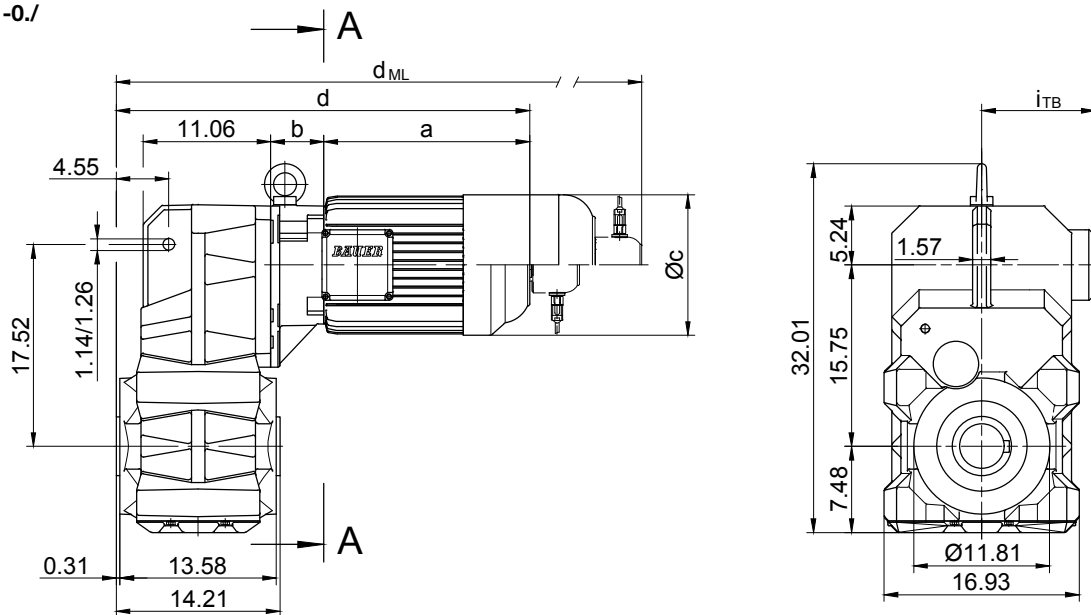
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

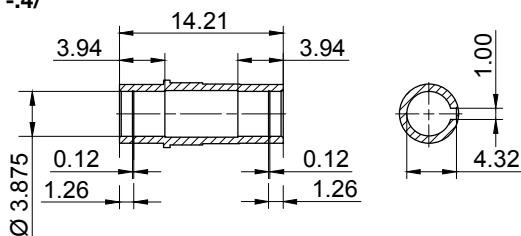
BF80 - BF80Z

with torque arm

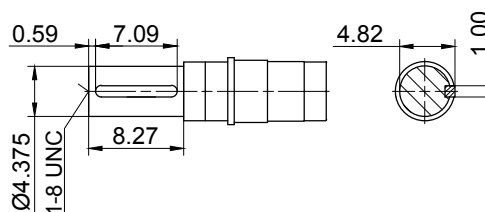
Code -0./



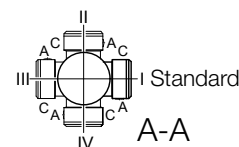
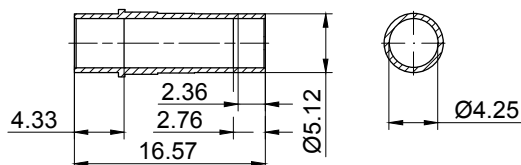
Code -4/



Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF80Z-../D..08.A.	7.85	7.95	6.14	28.90	4.51	5.37	31.50	33.31	35.73	31.50
BF80-../D..09.A.	9.86	3.29	6.93	26.24	4.88	6.18	29.90	30.48	34.00	29.90
BF80Z-../D..09.A.	9.86	8.52	6.93	31.48	4.88	6.18	35.14	35.71	39.24	35.14
BF80-../D..09.B.	12.15	3.29	6.93	28.52	4.88	6.18	32.19	32.74	36.28	32.19
BF80Z-../D..09.B.	12.15	8.52	6.93	33.76	4.88	6.18	37.42	37.98	41.52	37.42
BF80-../D..11.A.	12.56	3.54	8.58	29.19	6.50	6.93	33.05	33.43	37.07	33.05
BF80Z-../D..11.A.	12.56	8.78	8.58	34.43	6.50	6.93	38.29	38.67	42.31	38.29
BF80-../D..11.B.	15.24	3.54	8.58	31.87	6.50	6.93	35.65	36.11	39.75	35.65
BF80Z-../D..11.B.	15.24	8.78	8.58	37.11	6.50	6.93	40.89	41.34	44.98	40.89
BF80-../D..13.A.	15.47	4.06	10.16	32.62	8.54	8.54	36.99	36.83	40.97	36.87
BF80Z-../D..13.A.	15.47	9.29	10.16	37.85	8.54	8.54	42.22	42.07	46.20	42.11
BF80-../D..16.B.	17.89	4.61	12.20	35.59	9.57	9.57	41.24	39.81	45.32	41.24
BF80Z-../D..16.B.	17.89	9.84	12.20	40.83	9.57	9.57	46.48	45.04	50.56	46.48
BF80-../D..18.B.	21.34	5.47	13.70	39.90	11.34	11.34	45.79	44.06	49.87	45.79
BF80Z-../D..18.B.	21.34	10.71	13.70	45.14	11.34	11.34	51.02	49.30	55.10	51.02
BF80-../D..22S.B.	27.70	6.14	14.29	46.93	11.89	11.89	51.95	51.09	56.11	46.93
BF80-../D..22M.B.	27.70	6.14	14.29	46.93	11.89	11.89	51.95	51.09	56.11	46.93

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

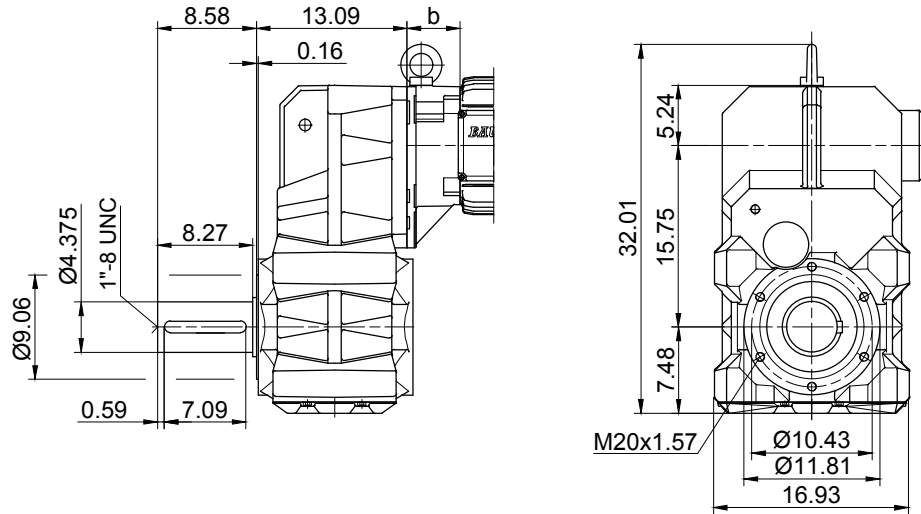
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF80 - BF80Z

Flange with tapped holes

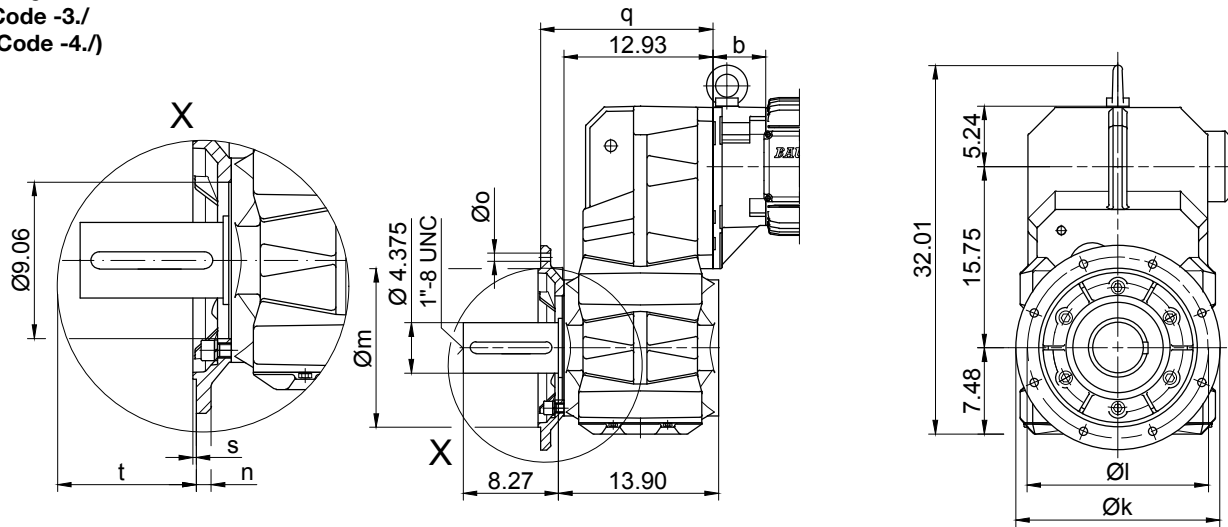
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

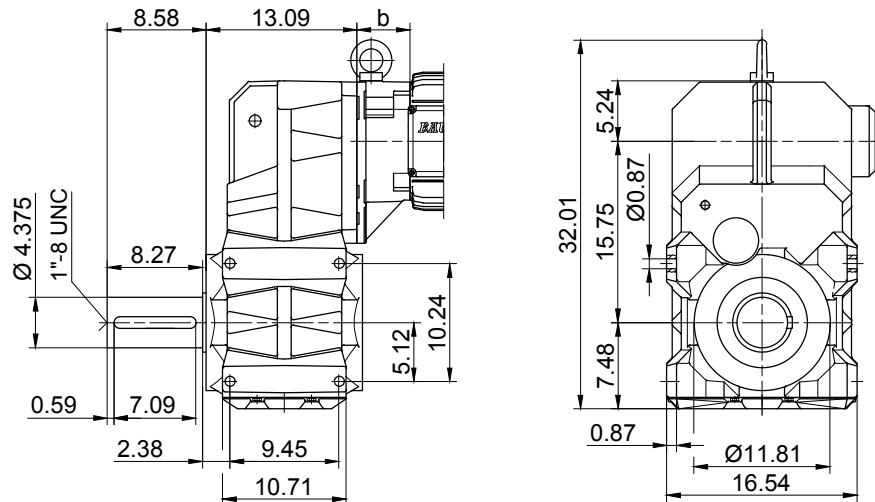


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF80..	Code -3./	17.717	15.748	13.780	0.866	0.689	15.098	0.197	6.577	
BF80..	Code -4./	21.654	19.685	17.717	0.866	0.689	15.295	0.197	6.380	

Dimensions in inch

Foot with tapped holes left and right

Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

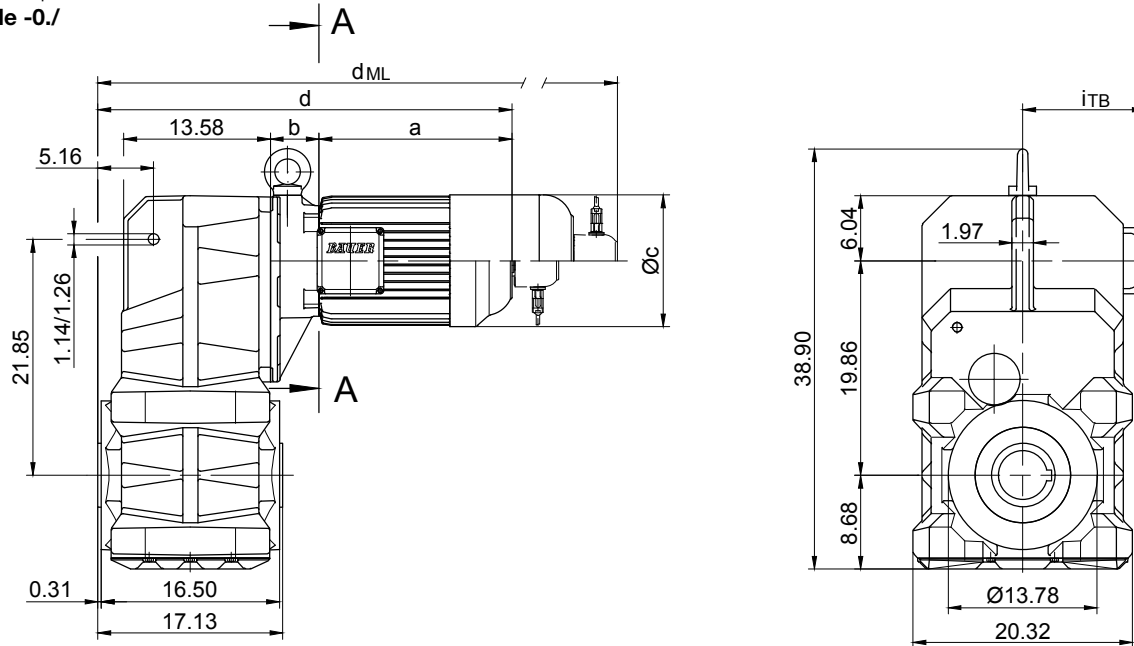
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

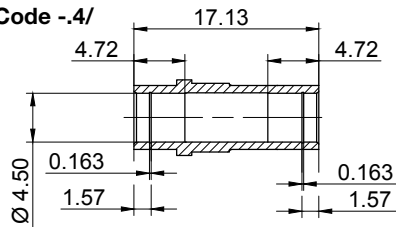
BF90 - BF90Z

with torque arm

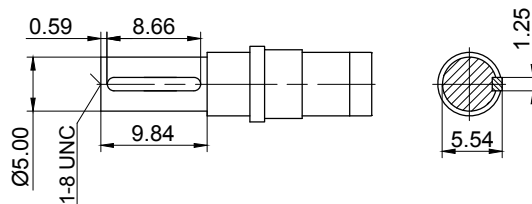
Code -0./



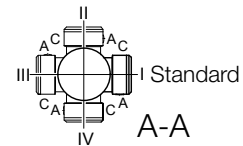
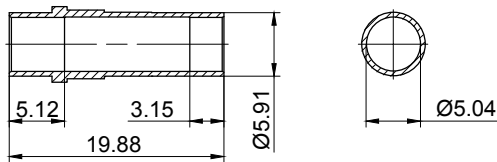
Code -4./



Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						iT _B	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF90Z-../D..09.A.	9.86	9.94	6.93	35.47	4.88	6.18	39.13	39.71	43.23	39.13
BF90Z-../D..09.B.	12.15	9.94	6.93	37.76	4.88	6.18	41.42	41.97	45.52	41.42
BF90-../D..11.A.	12.56	3.43	8.58	31.65	6.50	6.93	35.51	35.89	39.53	35.51
BF90Z-../D..11.A.	12.56	10.20	8.58	38.43	6.50	6.93	42.28	42.66	46.30	42.28
BF90-../D..11.B.	15.24	3.43	8.58	34.33	6.50	6.93	38.11	38.57	42.21	38.11
BF90Z-../D..11.B.	15.24	10.20	8.58	41.10	6.50	6.93	44.88	45.34	48.98	44.88
BF90-../D..13.A.	15.47	3.94	10.16	35.08	8.54	8.54	39.45	39.30	43.43	39.33
BF90Z-../D..13.A.	15.47	10.71	10.16	41.85	8.54	8.54	46.22	46.07	50.20	46.10
BF90-../D..16.B.	17.89	4.49	12.20	38.05	9.57	9.57	43.70	42.27	47.78	43.70
BF90Z-../D..16.B.	17.89	11.26	12.20	44.82	9.57	9.57	50.47	49.04	54.55	50.47
BF90-../D..18.B.	21.34	5.35	13.70	42.36	11.34	11.34	48.25	46.52	52.33	48.25
BF90Z-../D..18.B.	21.34	12.13	13.70	49.13	11.34	11.34	55.02	53.29	59.10	55.02
BF90-../D..22S.B.	27.70	6.02	14.29	49.39	11.89	11.89	54.41	53.55	58.57	49.39
BF90-../D..22M.B.	27.70	6.02	14.29	49.39	11.89	11.89	54.41	53.55	58.57	49.39

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

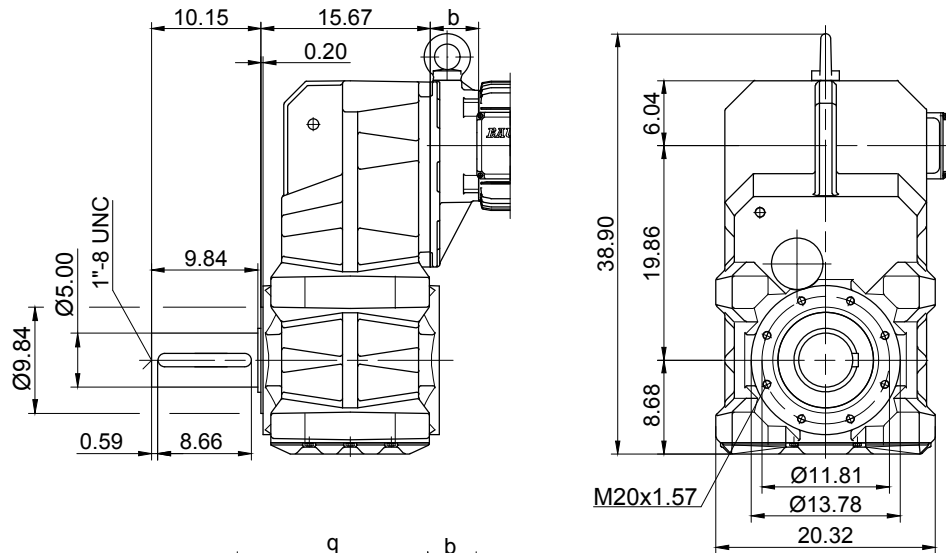
BF-series shaft-mounted geared motors

Dimension - Standard Imperial

BF90 - BF90Z

Flange with tapped holes

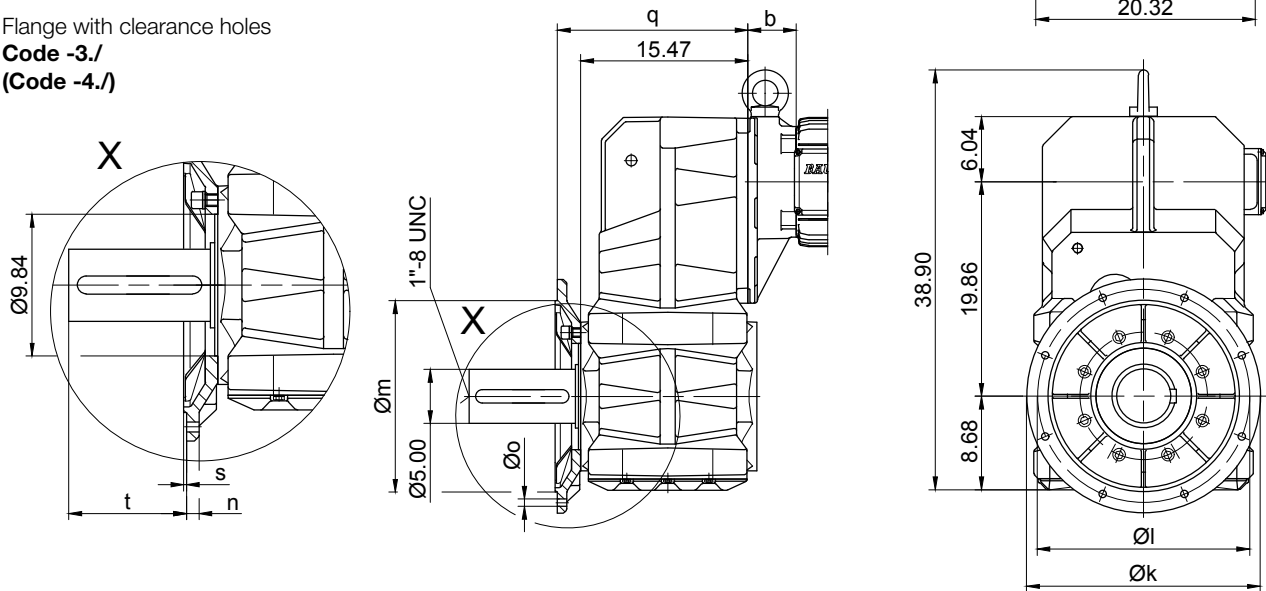
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

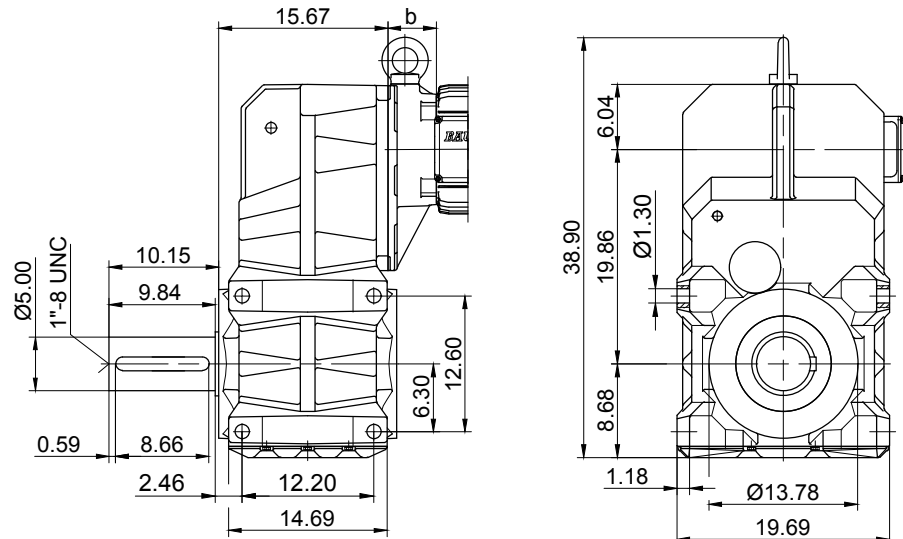


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF90..	Code -3./	21.654	19.685	17.717	0.866	0.689	17.638	0.197	8.186	
BF90..	Code -4./	25.984	23.622	21.654	0.984	0.866	17.402	0.236	8.423	

Dimensions in inch

Foot with tapped holes left and right

Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

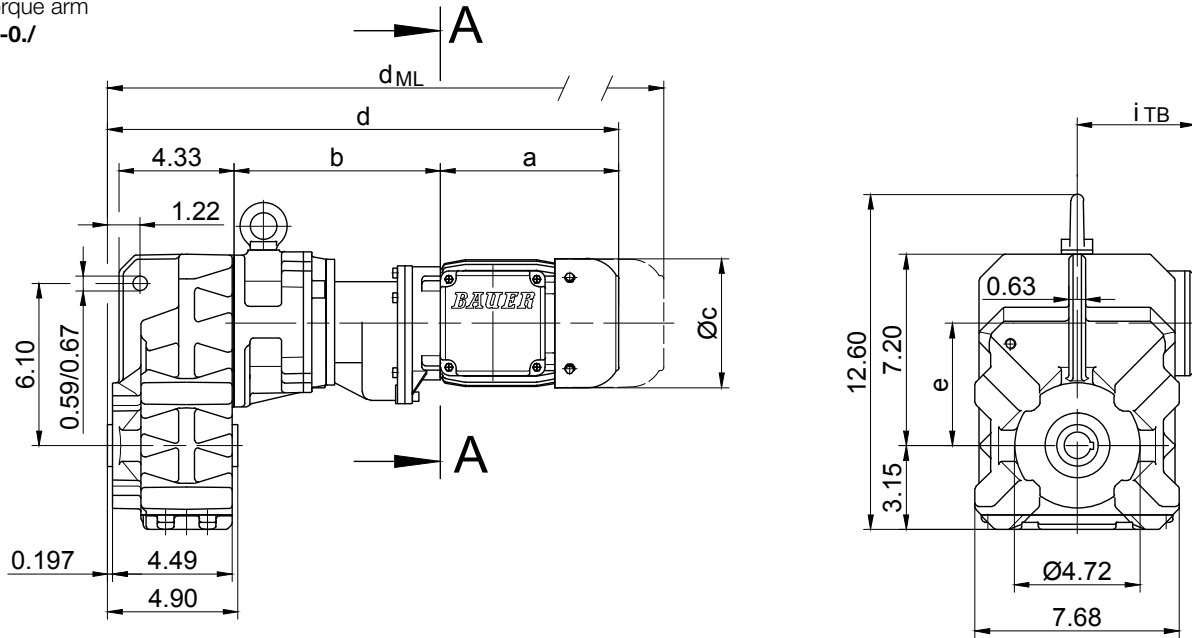
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

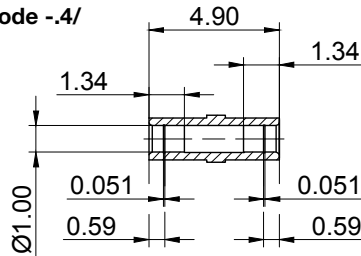
BF10G06

with torque arm

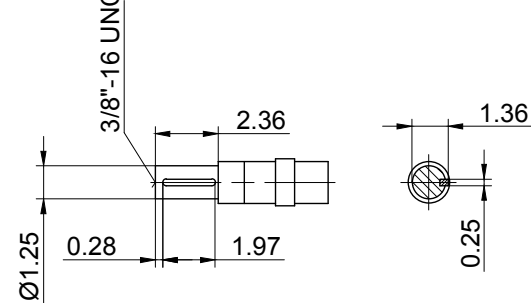
Code -0./



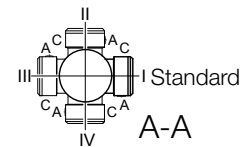
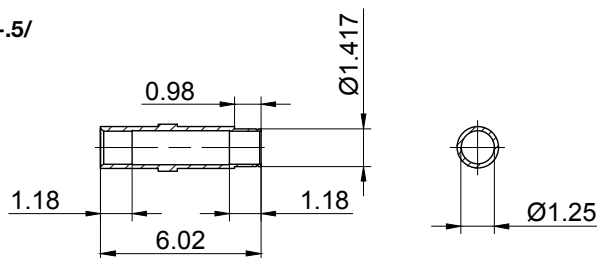
Code -.4/



Code -.1/



Code -.5/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF10G06-../D04.A.	5.61	7.68	4.35	17.85	3.54	4.41	19.57	21.30	23.01	-
BF10G06-../D..05.A.	6.72	7.76	4.84	19.04	3.98	4.61	20.69	23.07	24.55	-
BF10G06-../D..06.A.	6.70	7.76	4.84	19.03	3.90	4.69	20.68	23.06	24.54	-
BF10G06-../D..07.A.	7.49	7.76	4.84	19.81	3.90	4.69	21.47	23.85	25.33	-
BF10G06-../D..08.A.	7.85	9.49	6.14	21.91	4.51	5.37	24.51	26.32	28.74	24.51
BF10G06-../D..08.B.	9.04	9.49	6.14	23.09	4.51	5.37	25.69	27.50	29.90	25.69

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

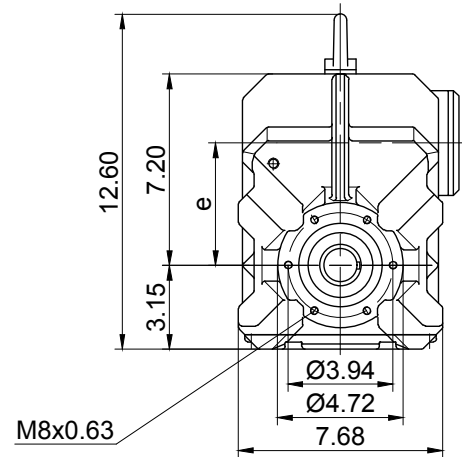
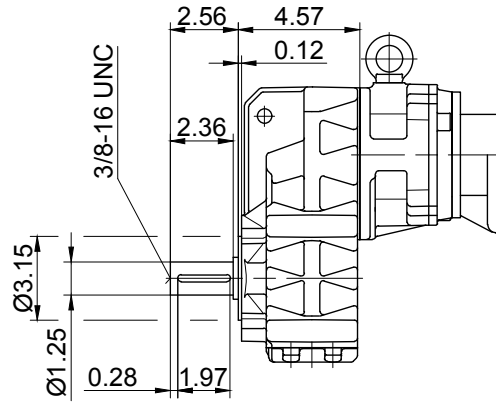
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF10G06

Flange with tapped holes

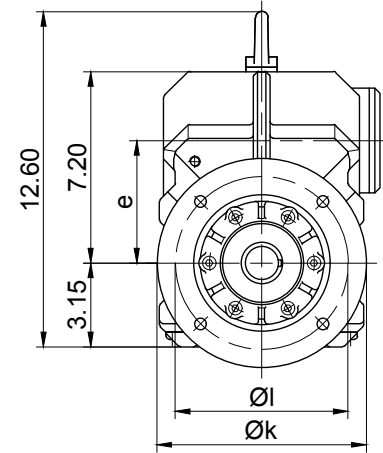
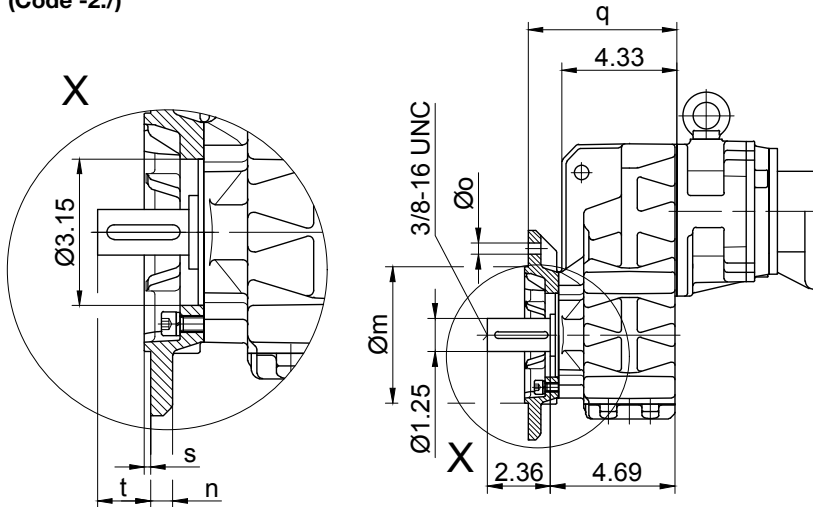
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

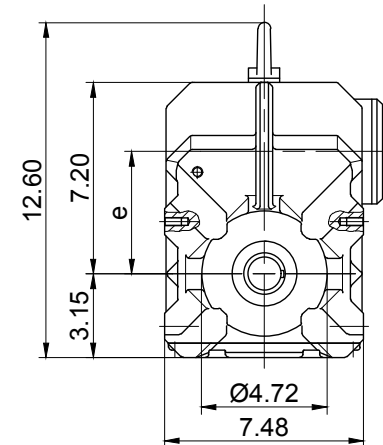
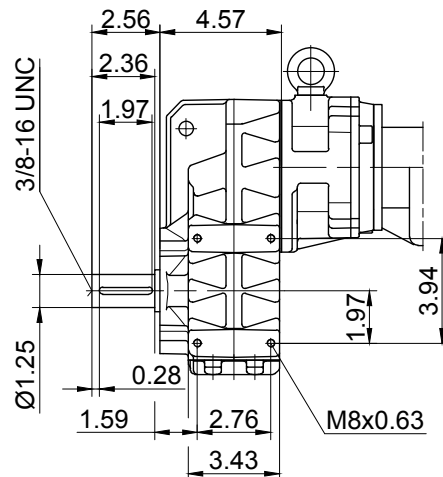


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF10..	Code -3./	7.874	6.496	5.118	0.472	0.433	5.591	0.138	1.533	
BF10..	Code -2./	6.299	5.118	4.331	0.394	0.354	5.315	0.138	1.809	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

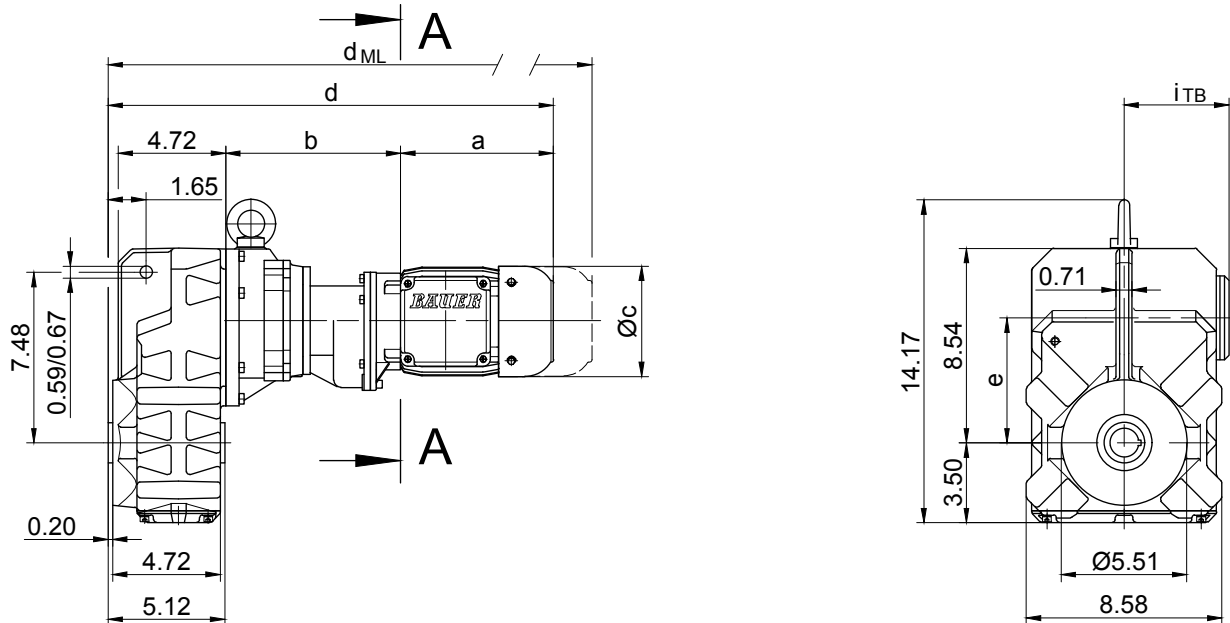
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

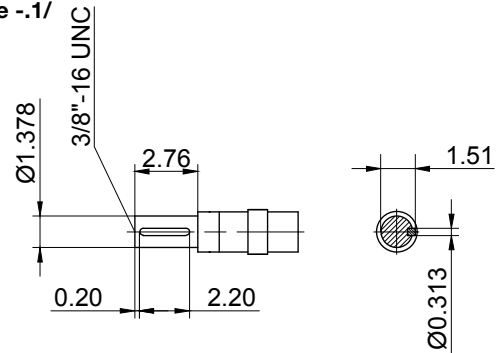
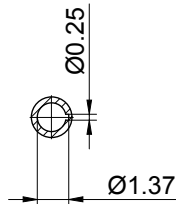
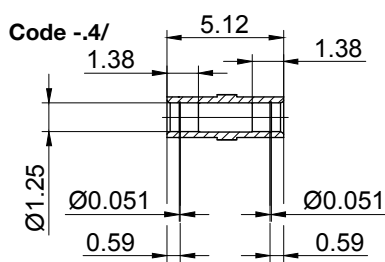
BF20G06

with torque arm

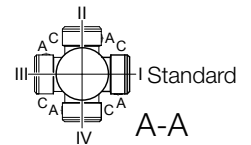
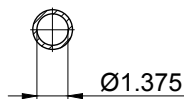
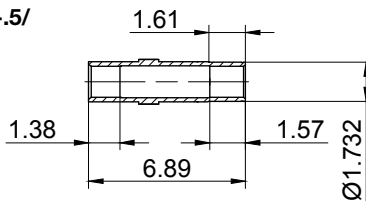
Code -0./



Code -.1/



Code -.5/



A-A

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF20G06-../D04.A.	5.61	7.60	4.35	18.17	3.54	4.41	19.88	21.61	23.32	-
BF20G06-../D..05.A.	6.72	7.68	4.84	19.35	3.98	4.61	21.01	23.39	24.87	-
BF20G06-../D..06.A.	6.70	7.68	4.84	19.34	3.90	4.69	21.00	23.38	24.85	-
BF20G06-../D..07.A.	7.49	7.68	4.84	20.13	3.90	4.69	21.78	24.17	25.64	-
BF20G06-../D..08.A.	7.85	9.41	6.14	22.22	4.51	5.37	24.82	26.63	29.06	24.82
BF20G06-../D..08.B.	9.04	9.41	6.14	23.41	4.51	5.37	26.00	27.81	30.22	26.00

Dimensions in inch

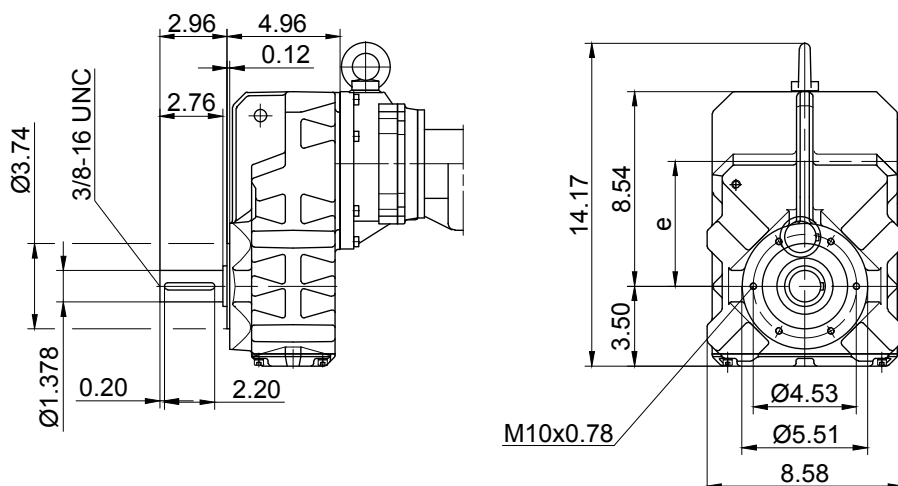
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension -Tandem Gearbox Imperial

BF20G06

Flange with tapped holes

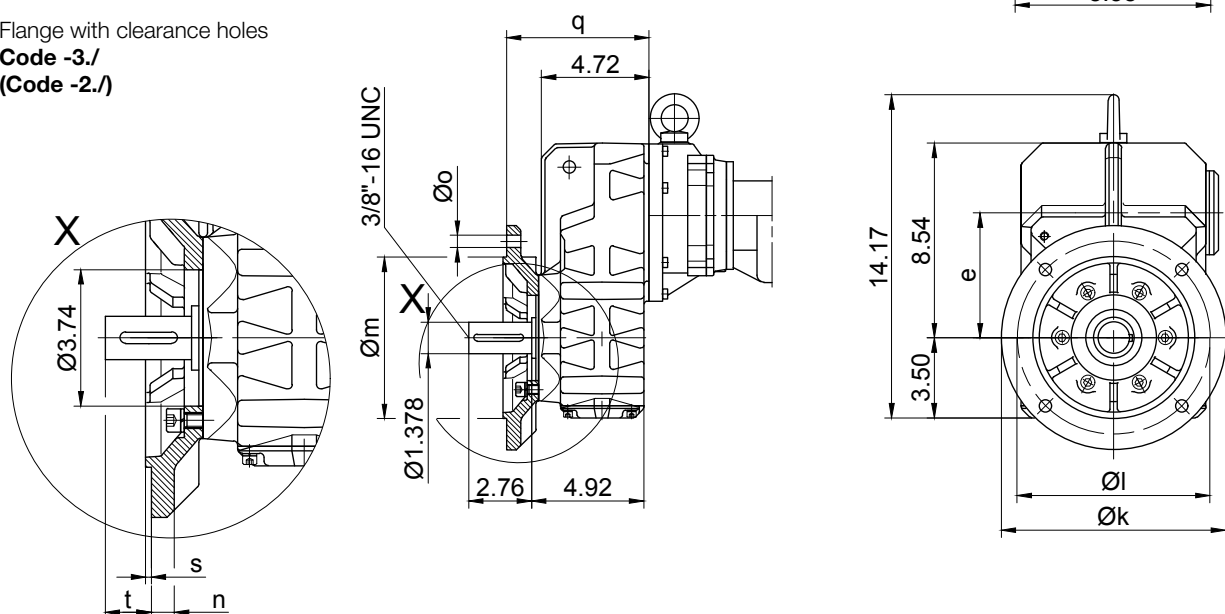
Code -7./



Flange with clearance holes

Code -3./

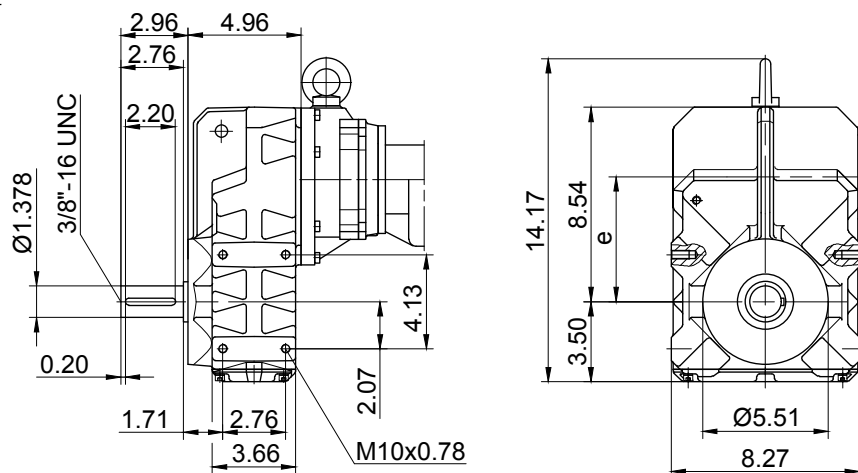
(Code -2./)



Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF20..	Code -3./	9.843	8.465	7.087	0.630	0.531	6.260	0.157	1.658	
BF20..	Code -2./	7.874	6.496	5.118	0.472	0.433	5.906	0.138	2.012	
Dimensions in inch										

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

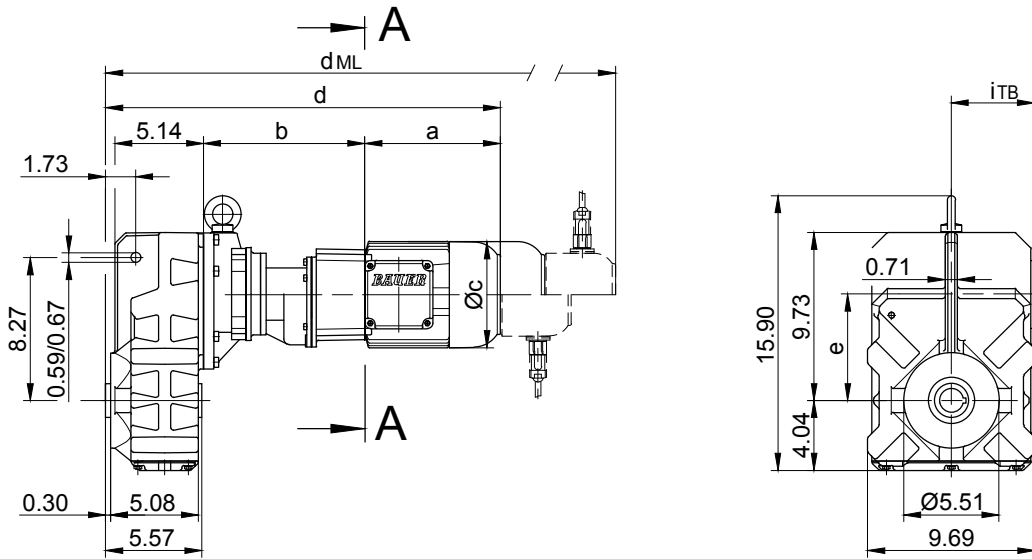
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

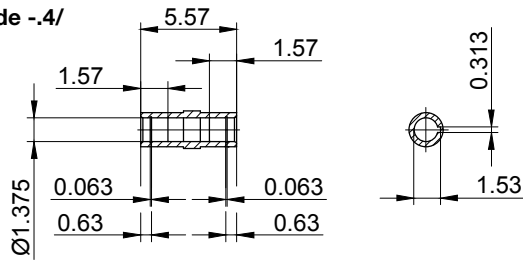
BF30G06

with torque arm

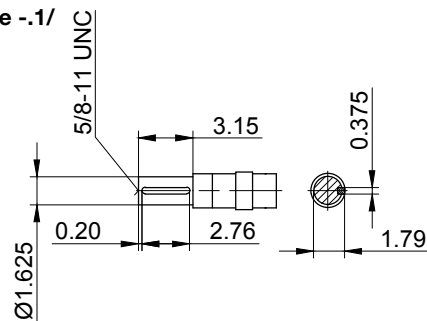
Code -0./



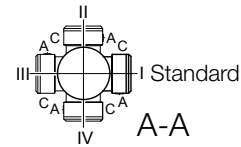
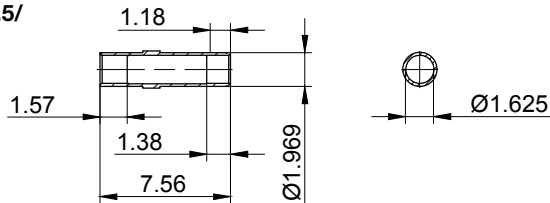
Code -4/



Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BF30G06-../D04.A.	5.61	7.52	4.35	18.50	3.54	4.41	20.22	21.94	23.66	-
BF30G06-../D..05.A.	6.72	7.60	4.84	19.69	3.98	4.61	21.34	23.72	25.20	-
BF30G06-../D..06.A.	6.70	7.60	4.84	19.68	3.90	4.69	21.33	23.71	25.19	-
BF30G06-../D..07.A.	7.49	7.60	4.84	20.46	3.90	4.69	22.12	24.50	25.98	-
BF30G06-../D..08.A.	7.85	9.33	6.14	22.56	4.51	5.37	25.16	26.97	29.39	25.16
BF30G06-../D..08.B.	9.04	9.33	6.14	23.74	4.51	5.37	26.34	28.15	30.55	26.34

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

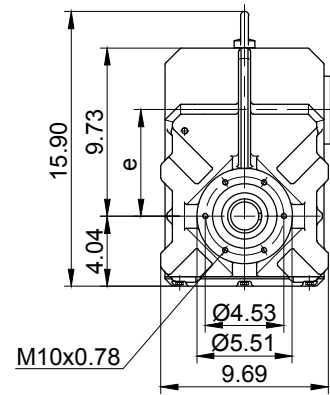
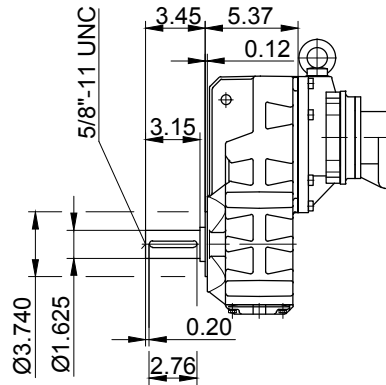
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF30G06

Flange with tapped holes

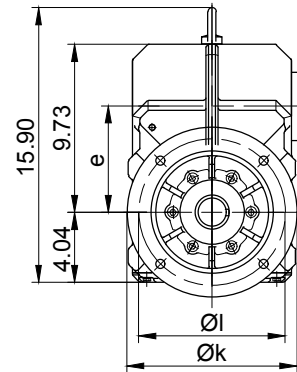
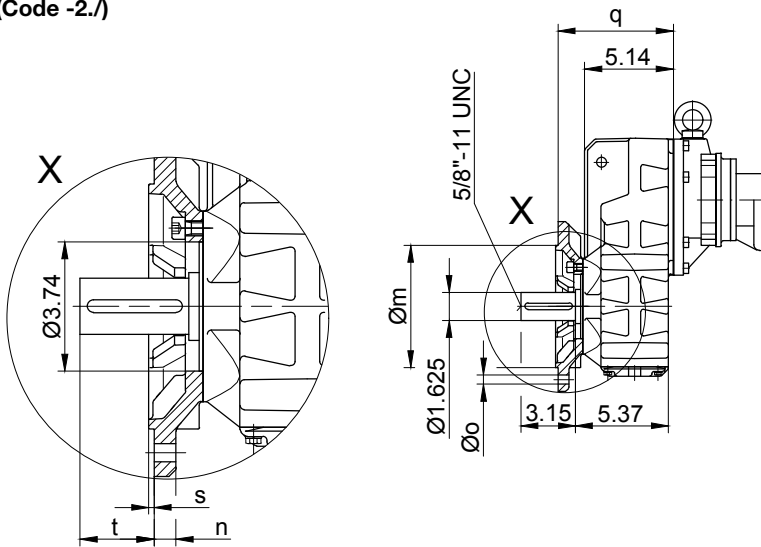
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

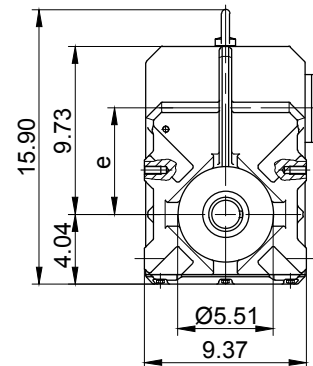
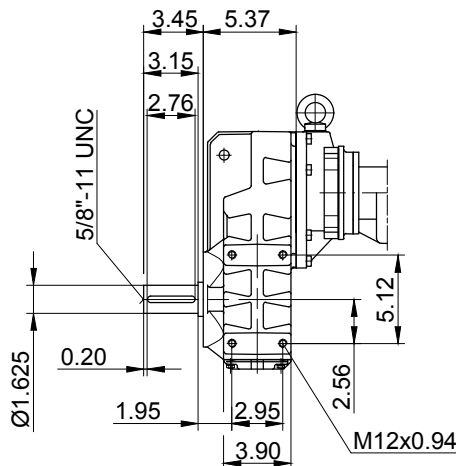


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF30..	Code -3./	9.843	8.465	7.087	0.630	0.531	6.673	0.157	2.146	
BF30..	Code -2./	7.874	6.496	5.118	0.472	0.433	6.319	0.138	2.500	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

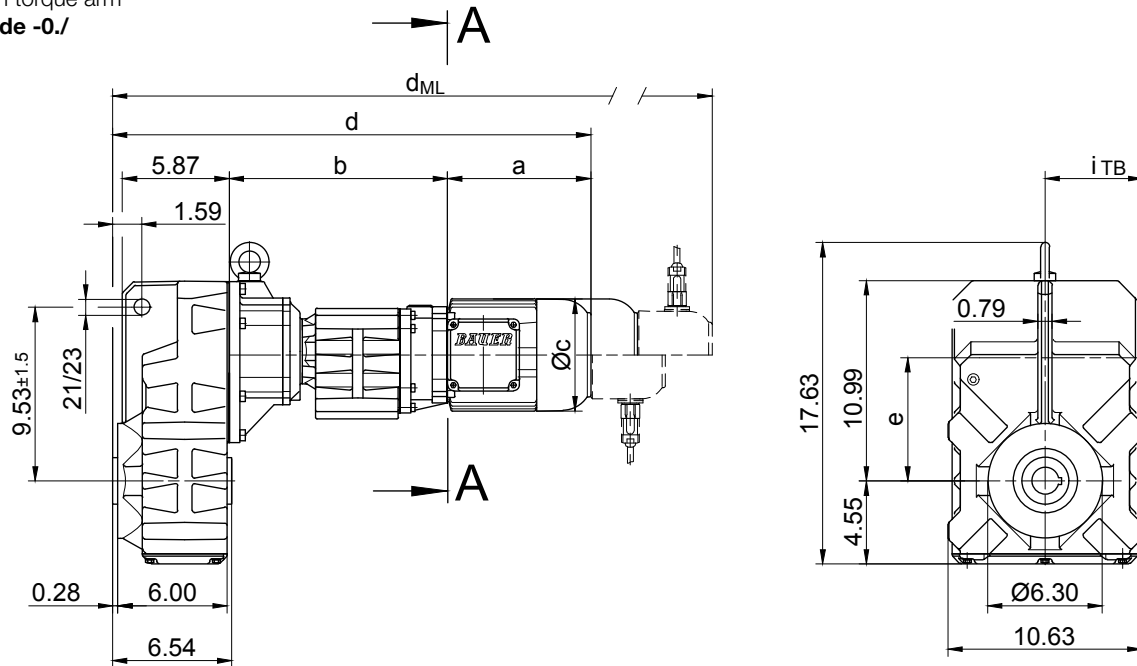
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

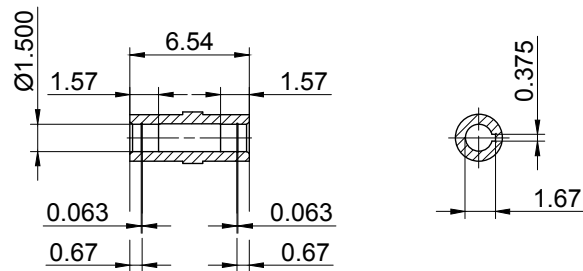
BF40G10

with torque arm

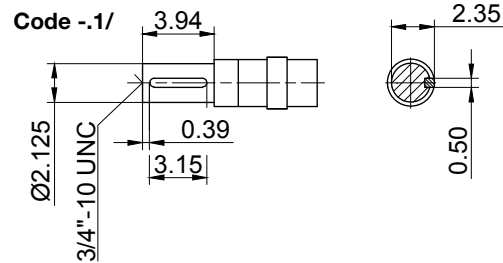
Code -0./



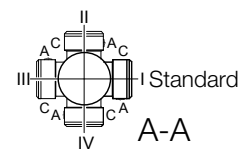
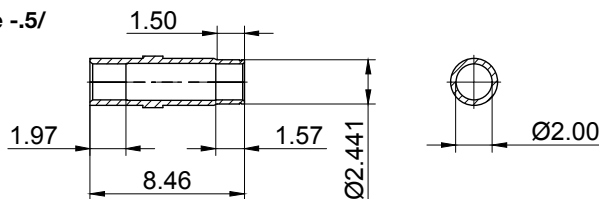
Code -4/



Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF40G10-../D..05.A.	6.72	11.81	4.84	24.65	3.98	4.61	26.30	28.69	30.16	-
BF40G10-../D..06.A.	6.70	11.81	4.84	24.64	3.90	4.69	26.29	28.67	30.15	-
BF40G10-../D..07.A.	7.49	11.81	4.84	25.43	3.90	4.69	27.08	29.46	30.94	-
BF40G10-../D..08.A.	7.85	11.97	6.14	25.94	4.51	5.37	28.54	30.35	32.78	28.54
BF40G10-../D..08.B.	9.04	11.97	6.14	27.13	4.51	5.37	29.72	31.54	33.94	29.72
BF40G10-../D..09.A.	9.86	12.54	6.93	28.52	4.88	6.18	32.19	32.76	36.28	32.19
BF40G10-../D..09.B.	12.15	12.54	6.93	30.81	4.88	6.18	34.47	35.02	38.57	34.47

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

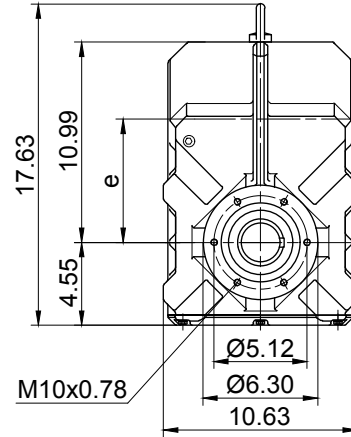
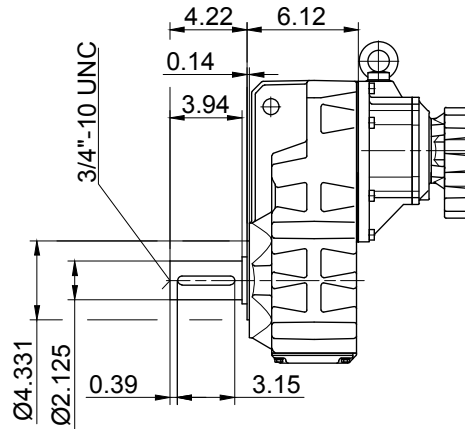
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF40G10

Flange with tapped holes

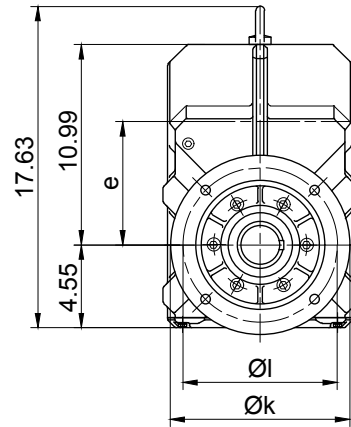
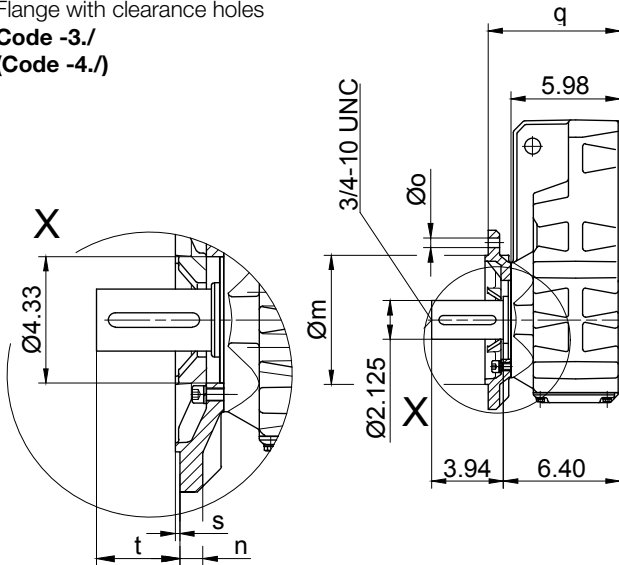
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

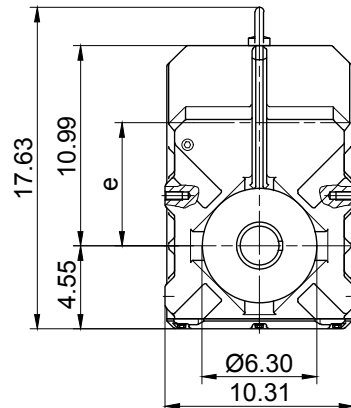
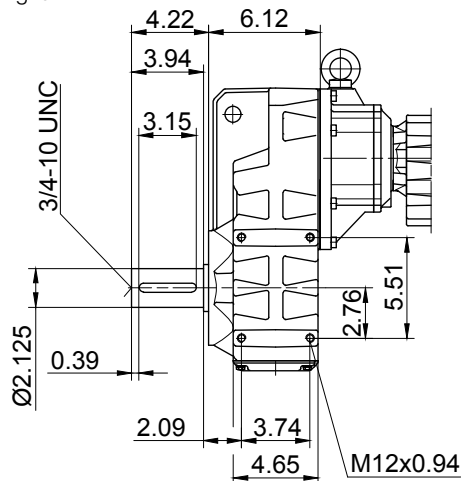


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF40..	Code -3./	9.843	8.465	7.087	0.630	0.531	7.244	0.157	3.094	
BF40..	Code -4./	11.811	10.433	9.055	0.787	0.531	7.480	0.157	2.857	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

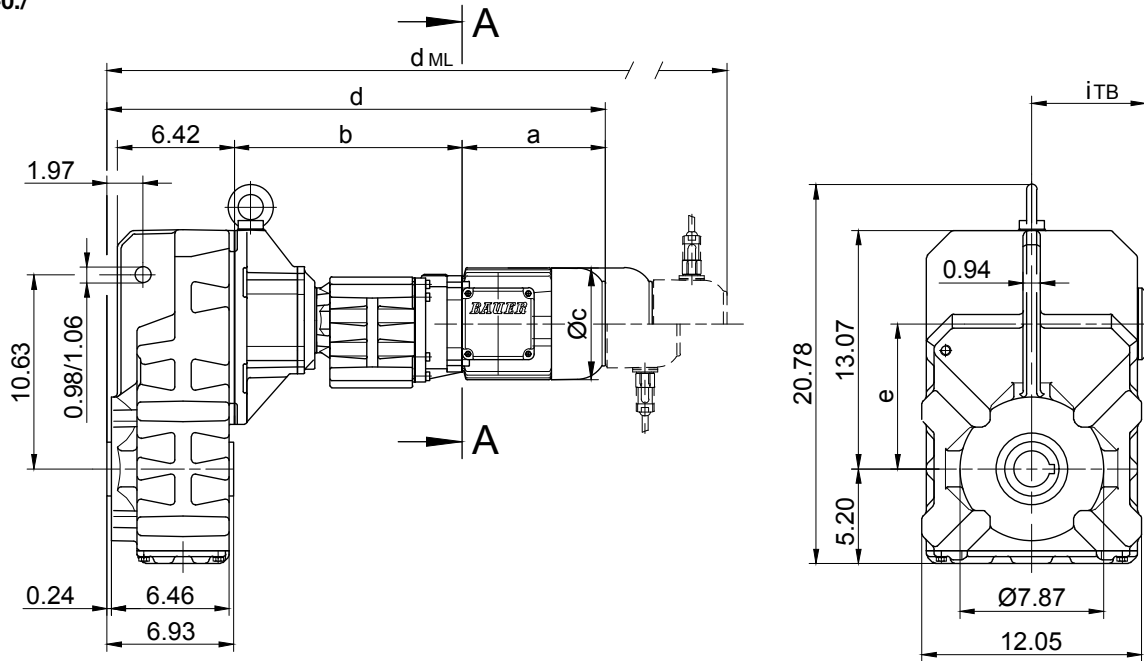
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Imperial

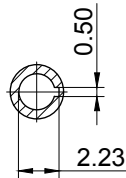
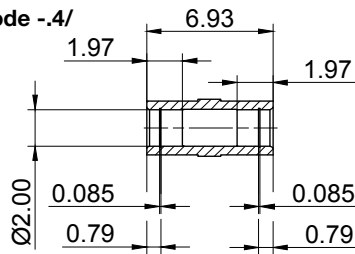
BF50G10

with torque arm

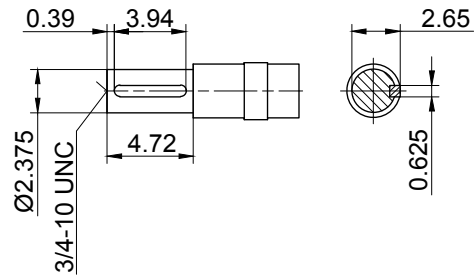
Code -0./



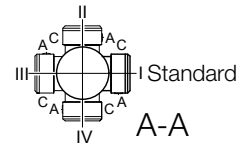
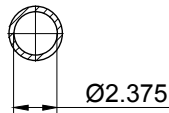
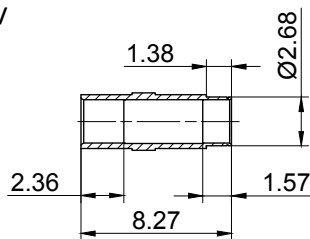
Code -4./



Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF50G10-../D..05.A.	6.72	12.32	4.84	25.79	3.98	4.61	27.44	29.83	31.30	-
BF50G10-../D..06.A.	6.70	12.32	4.84	25.78	3.90	4.69	27.43	29.81	31.29	-
BF50G10-../D..07.A.	7.49	12.32	4.84	26.57	3.90	4.69	28.22	30.60	32.08	-
BF50G10-../D..08.A.	7.85	12.48	6.14	27.09	4.51	5.37	29.69	31.50	33.92	29.69
BF50G10-../D..08.B.	9.04	12.48	6.14	28.27	4.51	5.37	30.87	32.68	35.08	30.87
BF50G10-../D..09.A.	9.86	13.05	6.93	29.67	4.88	6.18	33.33	33.90	37.43	33.33
BF50G10-../D..09.B.	12.15	13.05	6.93	31.95	4.88	6.18	35.61	36.17	39.71	35.61

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

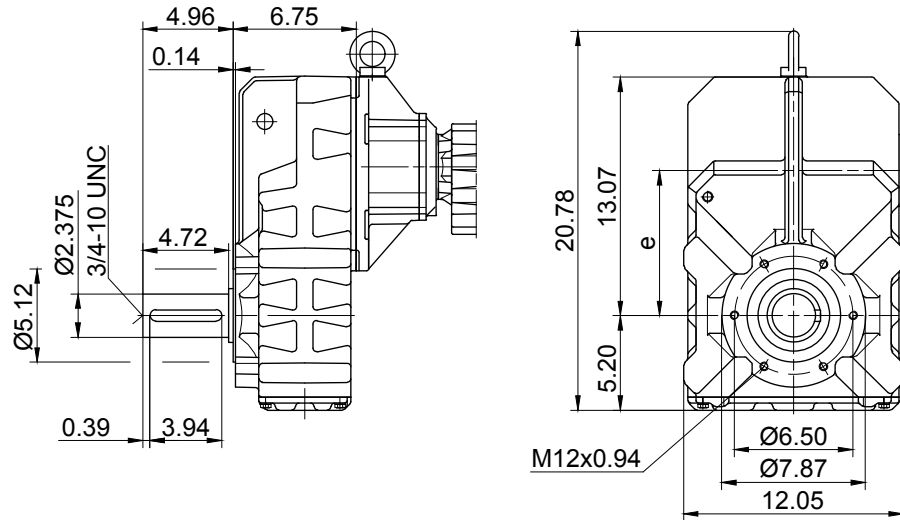
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF50G10

Flange with tapped holes

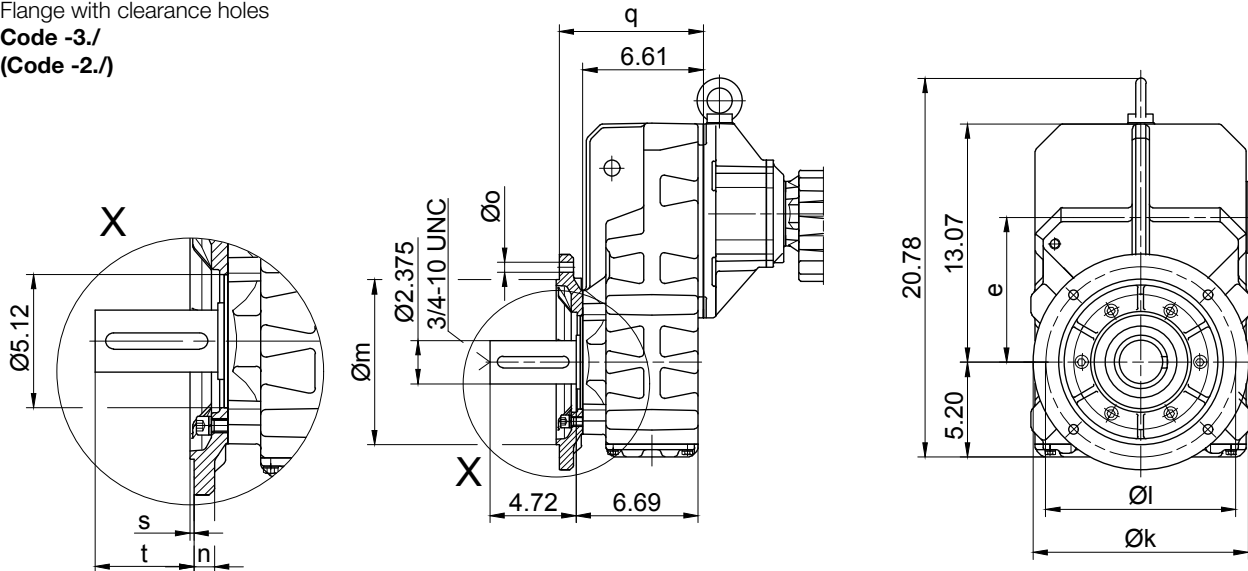
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

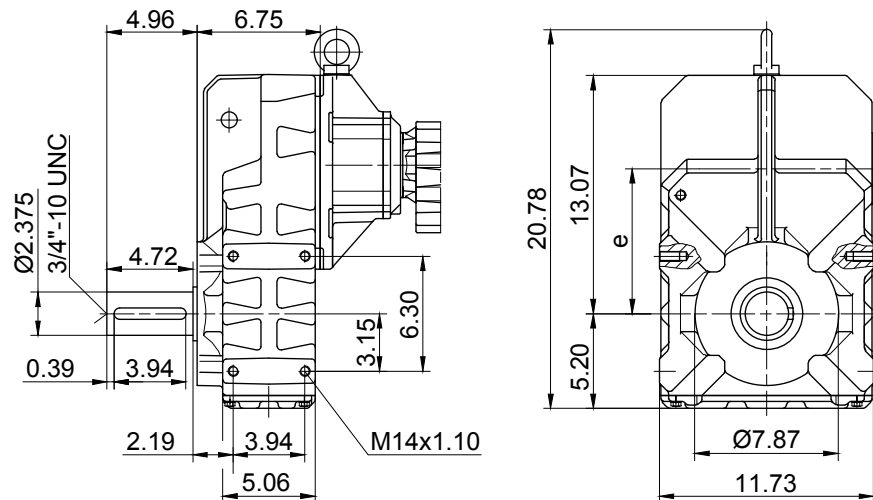


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF50..	Code -3./	11.811	10.433	9.055	0.787	0.531	7.913	0.157	3.795	
BF50..	Code -2./	9.843	8.465	7.087	0.630	0.531	7.795	0.157	3.913	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

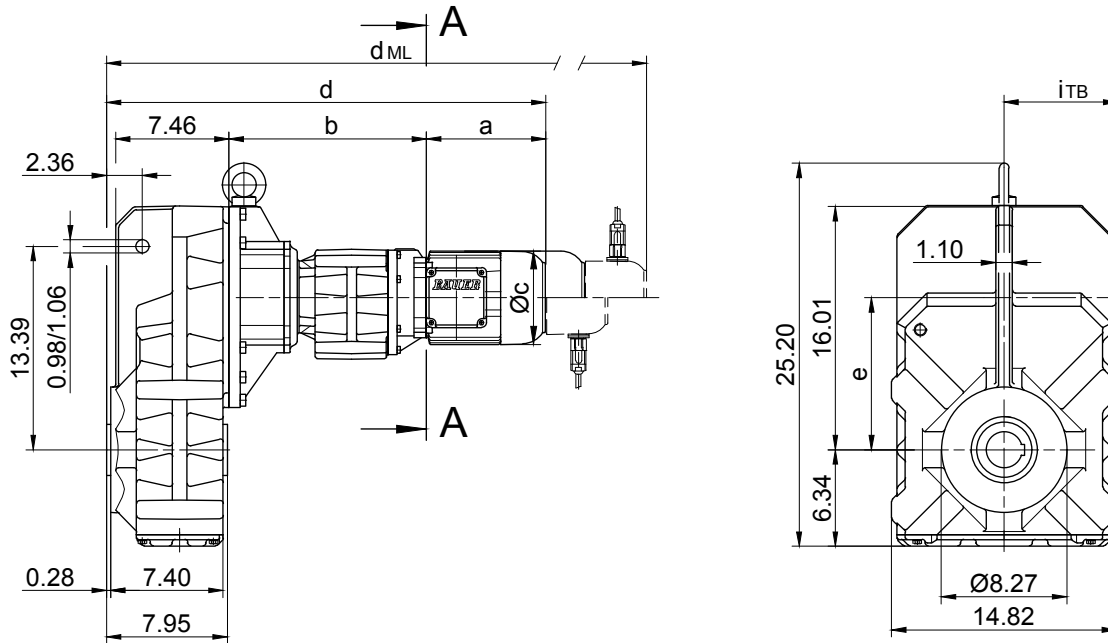
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

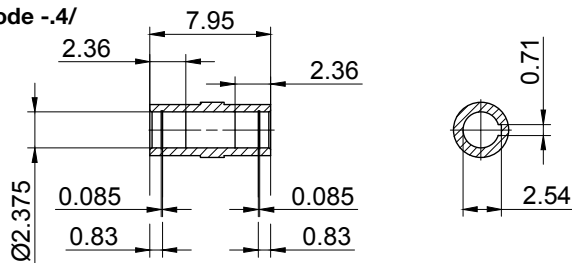
BF60G20

with torque arm

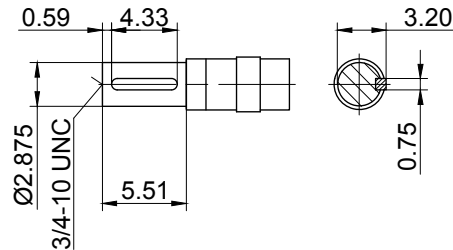
Code -0./



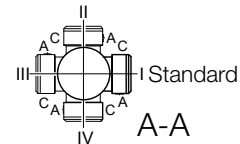
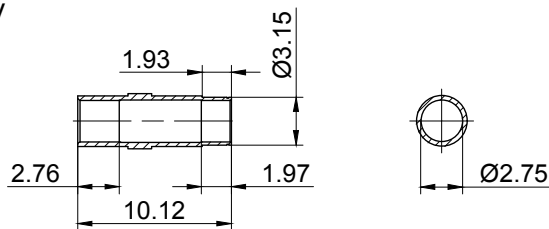
Code -4./



Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF60G20-../D..05.A.	6.72	12.83	4.84	27.35	3.98	4.61	29.00	31.38	32.86	-
BF60G20-../D..06.A.	6.70	12.83	4.84	27.33	3.90	4.69	28.99	31.37	32.85	-
BF60G20-../D..07.A.	7.49	12.83	4.84	28.12	3.90	4.69	29.78	32.16	33.63	-
BF60G20-../D..08.A.	7.85	12.99	6.14	28.64	4.51	5.37	31.24	33.05	35.47	31.24
BF60G20-../D..08.B.	9.04	12.99	6.14	29.82	4.51	5.37	32.42	34.23	36.63	32.42
BF60G20-../D..09.A.	9.86	13.56	6.93	31.22	4.88	6.18	34.88	35.46	38.98	34.88
BF60G20-../D..09.B.	12.15	13.56	6.93	33.50	4.88	6.18	37.17	37.72	41.26	37.17

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

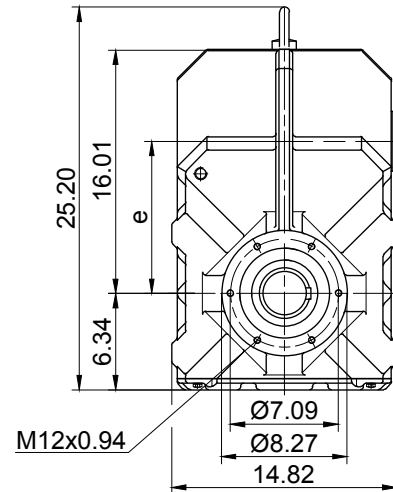
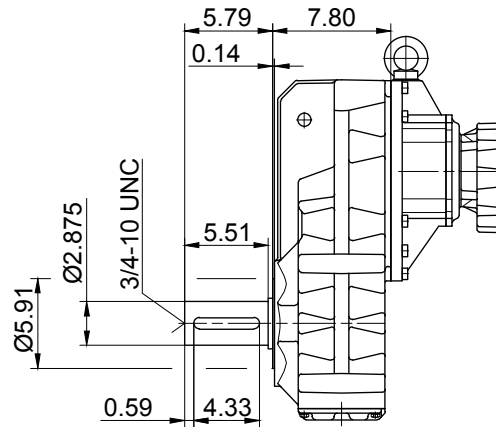
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF60G20

Flange with tapped holes

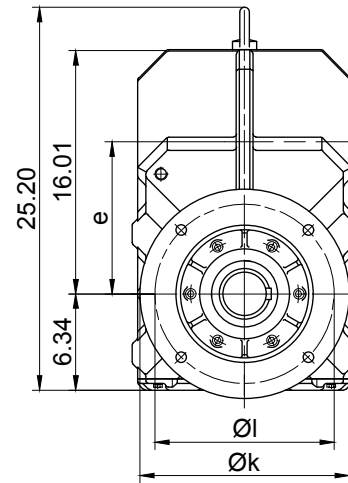
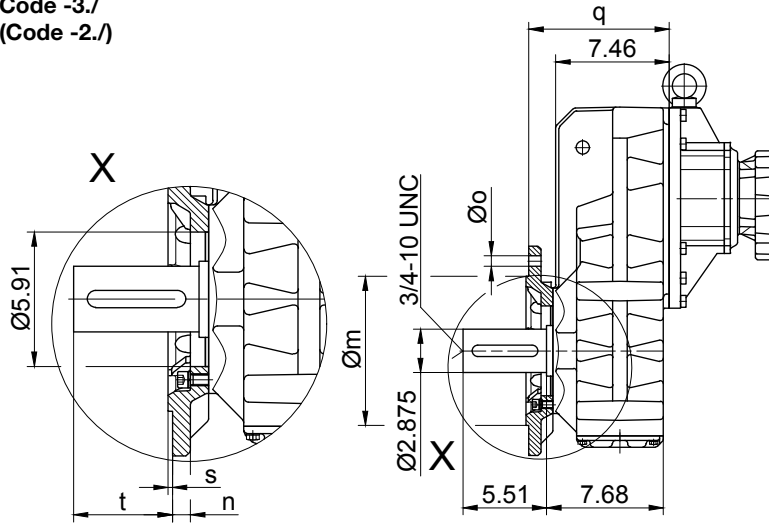
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

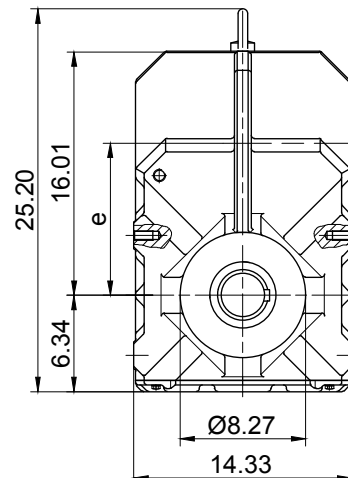
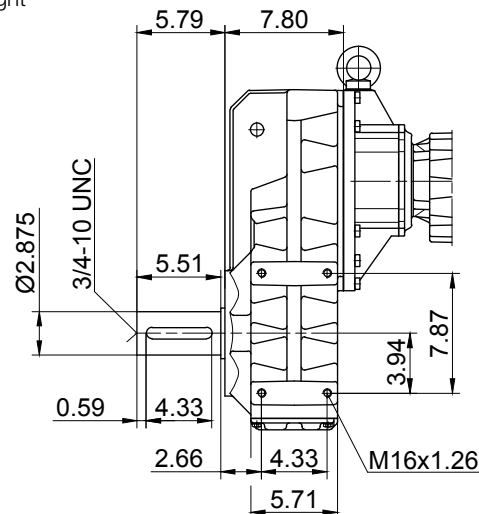


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF60..	Code -3./	13.780	11.811	9.843	0.787	0.689	9.232	0.197	4.349	
BF60..	Code -2./	11.811	10.433	9.055	0.787	0.531	9.547	0.157	4.034	

Dimensions in inch

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

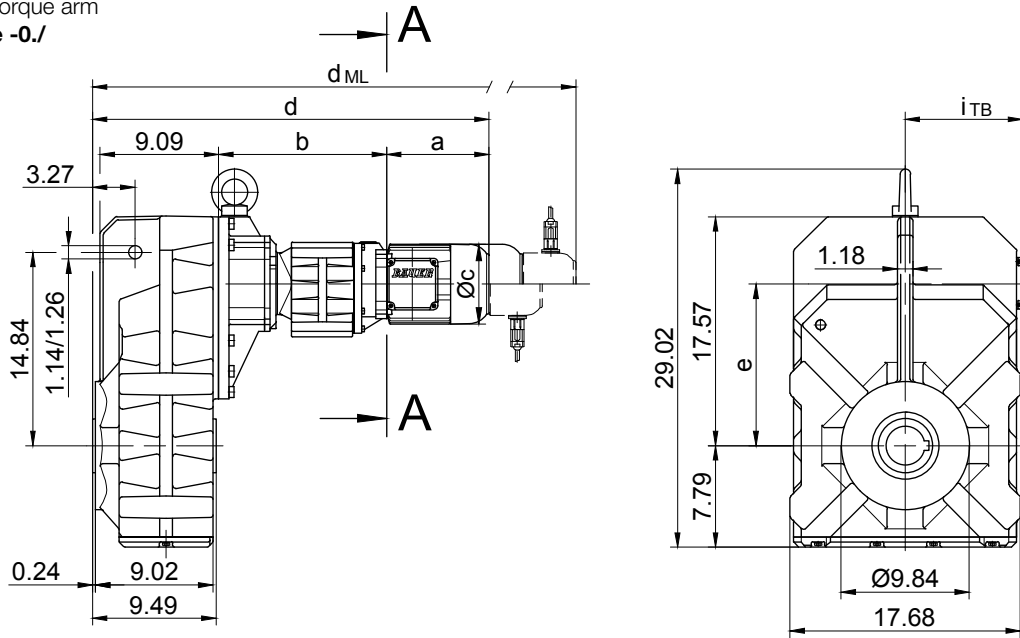
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

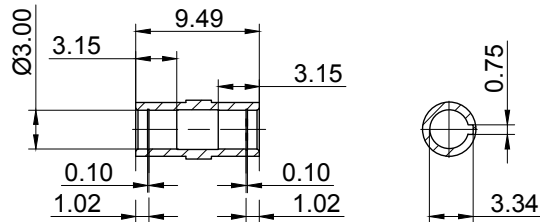
BF70G20

with torque arm

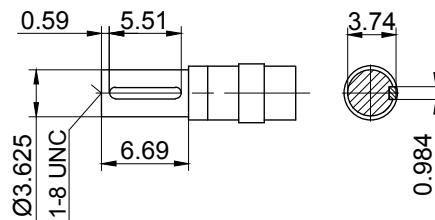
Code -0./



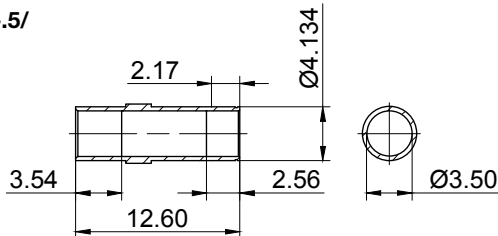
Code -4./



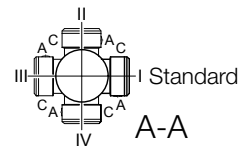
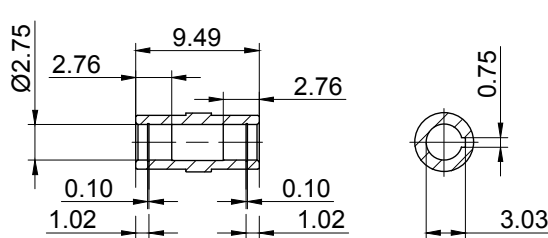
Code -.1/



Code -5./



Code -4/K70



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF70G20-../D..05.A.	6.72	12.76	4.84	28.92	3.98	4.61	30.57	32.96	34.43	-
BF70G20-../D..06.A.	6.70	12.76	4.84	28.91	3.90	4.69	30.56	32.94	34.42	-
BF70G20-../D..07.A.	7.49	12.76	4.84	29.70	3.90	4.69	31.35	33.73	35.21	-
BF70G20-../D..08.A.	7.85	12.91	6.14	30.22	4.51	5.37	32.81	34.63	37.05	32.81
BF70G20-../D..08.B.	9.04	12.91	6.14	31.40	4.51	5.37	34.00	35.81	38.21	34.00
BF70G20-../D..09.A.	9.86	13.48	6.93	32.80	4.88	6.18	36.46	37.03	40.56	36.46
BF70G20-../D..09.B.	12.15	13.48	6.93	35.08	4.88	6.18	38.74	39.30	42.84	38.74

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

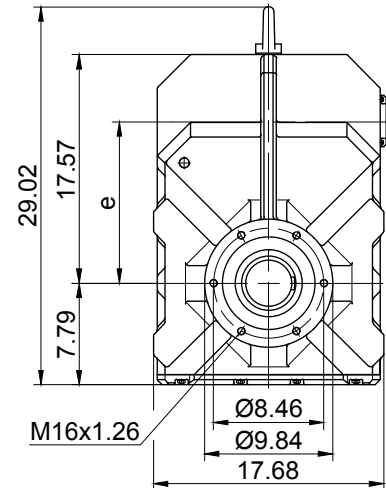
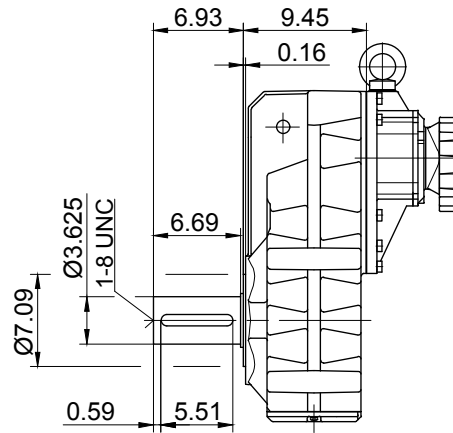
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF70G20

Flange with tapped holes

Code -7./

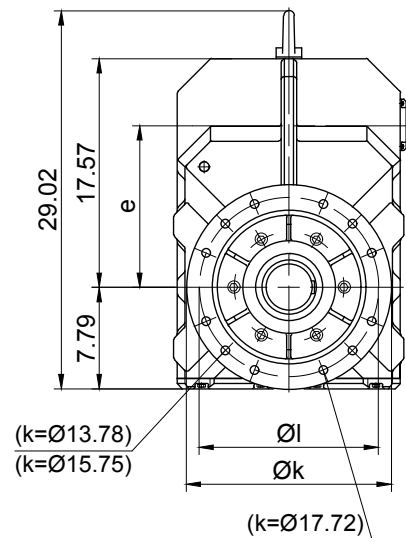
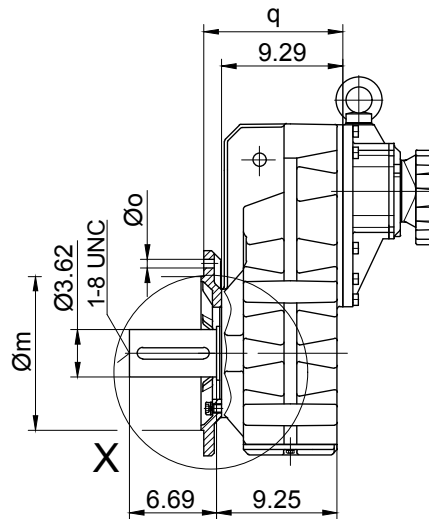
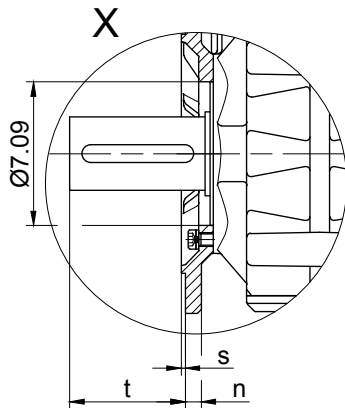


Flange with clearance holes

Code -3./

(Code -2./)

(Code -4./)



Flange Dimensions

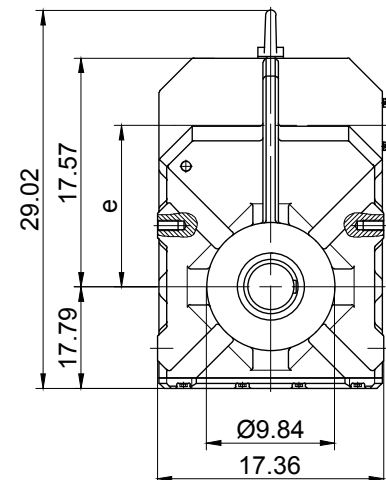
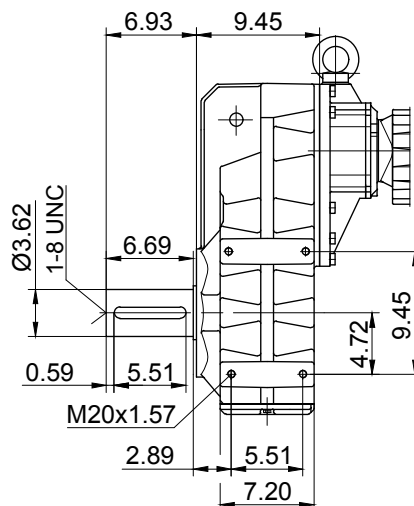
Type	Design	k	l	m	n	o	q	s	t
BF70..	Code -3./	15.748	13.780	11.811	0.787	-1,000	10.669	0.197	5.706
BF70..	Code -2./	13.780	11.811	9.843	0.787	-1,000	10.669	0.197	5.706
BF70..	Code -4./	17.717	15.748	13.780	0.866	-1,000	11.063	0.197	5.312

Dimensions in inch

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

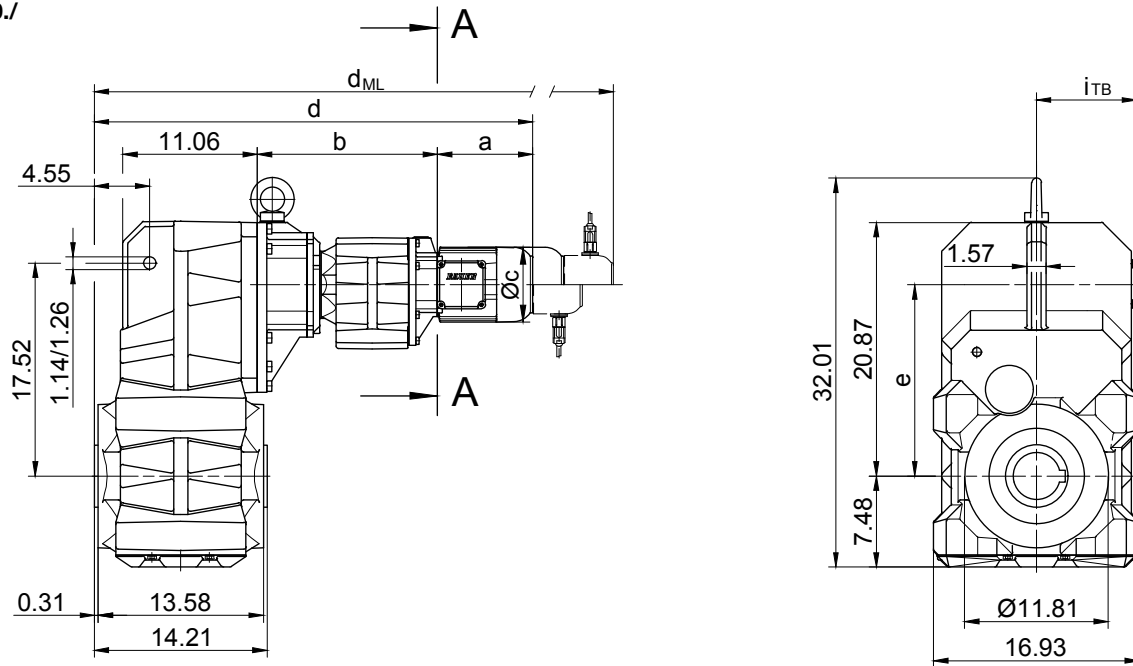
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

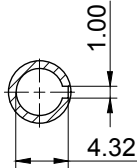
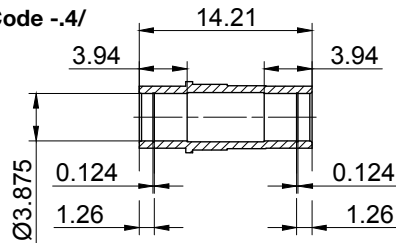
BF80G40

with torque arm

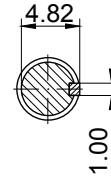
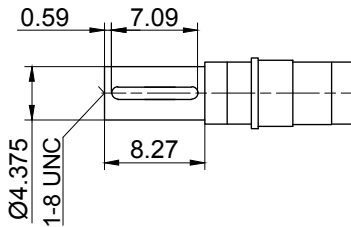
Code -0./



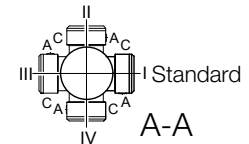
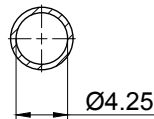
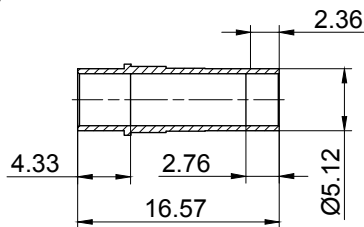
Code -4/



Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF80G40-../D..08.A.	7.85	14.80	6.14	35.75	4.51	5.37	38.35	40.16	42.58	38.35
BF80G40-../D..08.B.	9.04	14.80	6.14	36.93	4.51	5.37	39.53	41.34	43.74	39.53
BF80G40-../D..09.A.	9.86	15.37	6.93	38.33	4.88	6.18	41.99	42.56	46.09	41.99
BF80G40-../D..09.B.	12.15	15.37	6.93	40.61	4.88	6.18	44.27	44.83	48.37	44.27
BF80G40-../D..11.A.	12.56	15.63	8.58	41.28	6.50	6.93	45.14	45.52	49.16	45.14
BF80G40-../D..11.B.	15.24	15.63	8.58	43.96	6.50	6.93	47.74	48.19	51.83	47.74

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

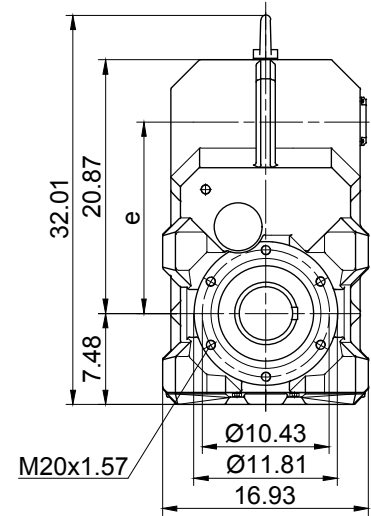
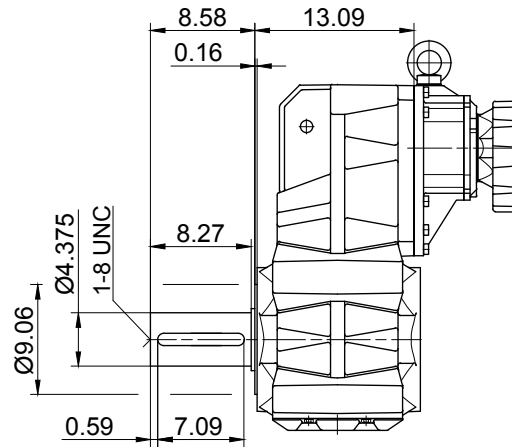
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF80G40

Flange with tapped holes

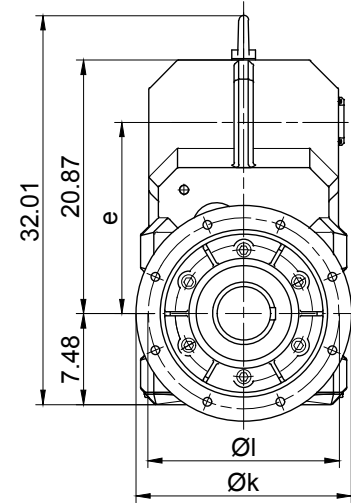
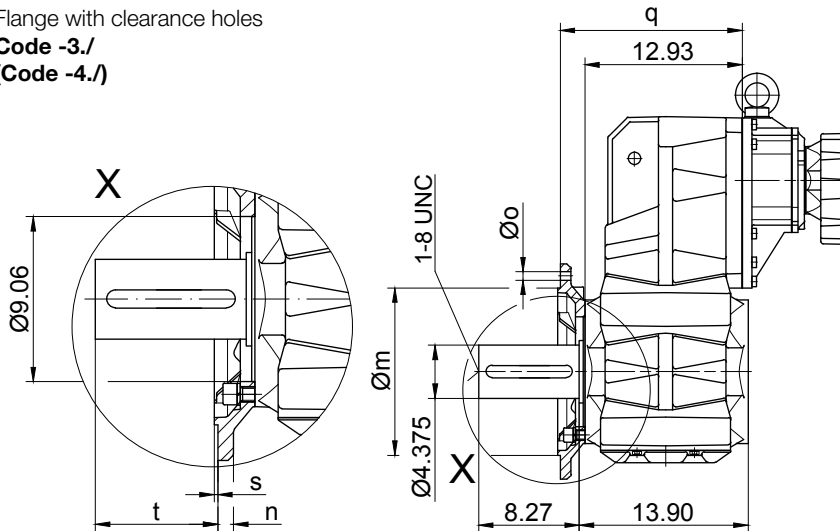
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

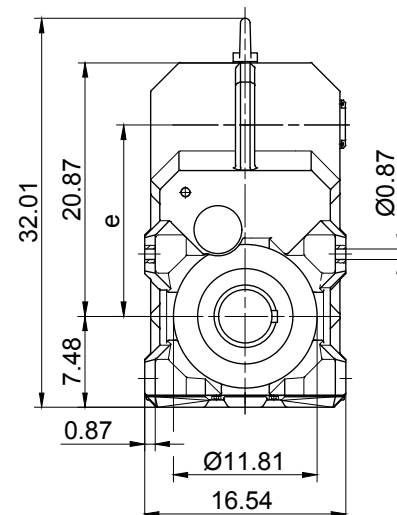
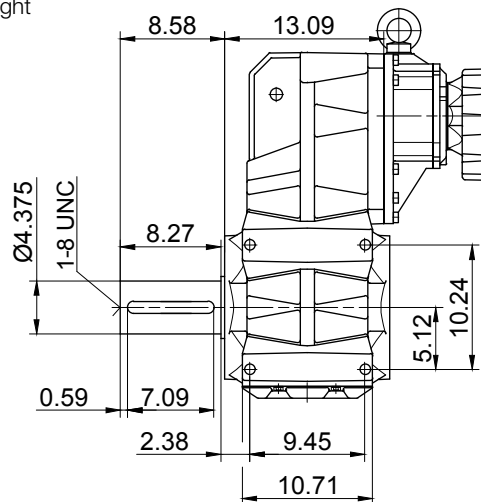


Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF80..	Code -3./	17.717	15.748	13.780	0.866	0.689	15.098	0.197	6.577	
BF80..	Code -4./	21.654	19.685	17.717	0.866	0.689	15.295	0.197	6.380	

Dimensions in inch

Foot with tapped holes left and right

Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

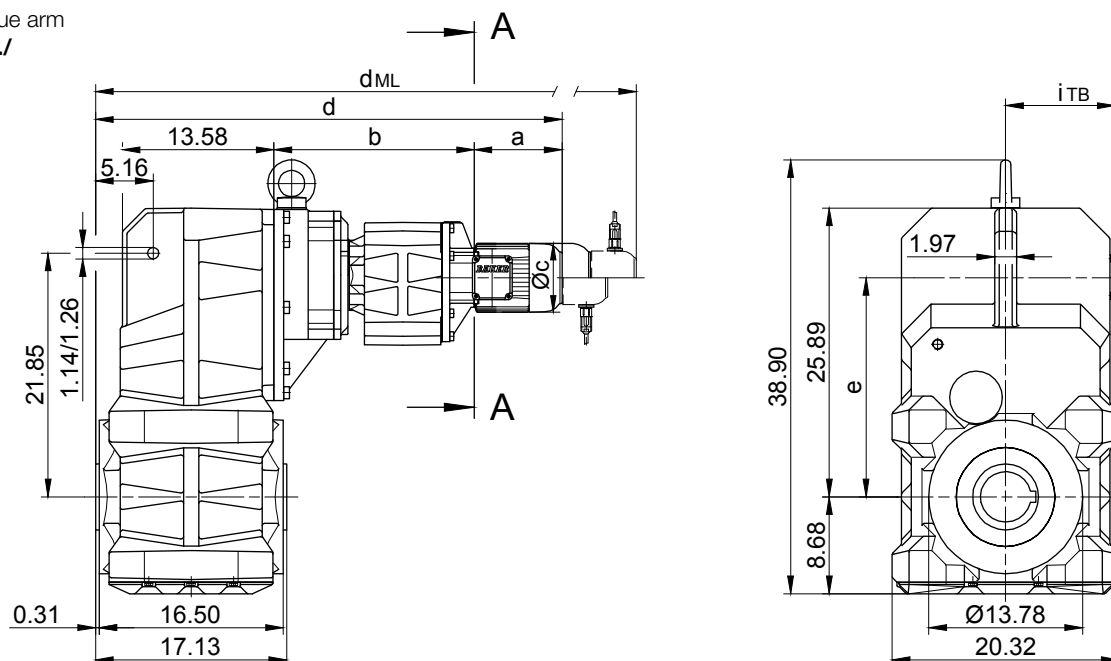
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

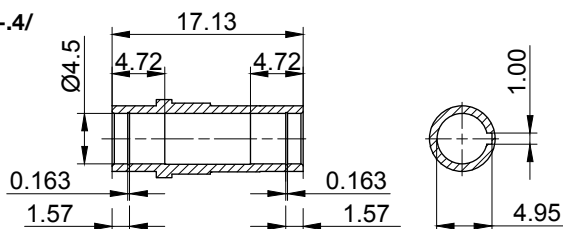
BF90G50

with torque arm

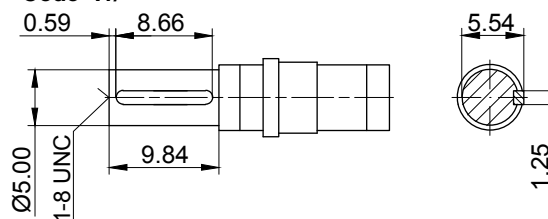
Code -0./



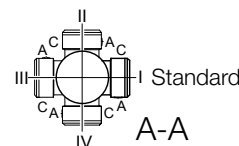
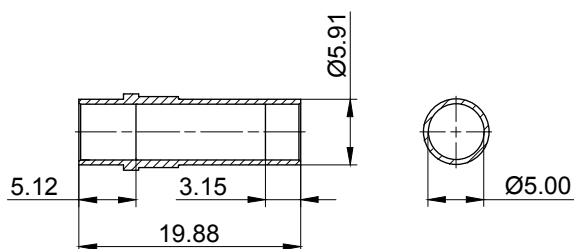
Code -4./



Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF90G50-../D..08.A.	7.85	17.95	6.14	41.48	4.51	5.37	44.07	45.89	48.31	44.07
BF90G50-../D..08.B.	9.04	17.95	6.14	42.66	4.51	5.37	45.26	47.07	49.47	45.26
BF90G50-../D..09.A.	9.86	18.52	6.93	44.06	4.88	6.18	47.72	48.29	51.81	47.72
BF90G50-../D..09.B.	12.15	18.52	6.93	46.34	4.88	6.18	50.00	50.56	54.10	50.00
BF90G50-../D..11.A.	12.56	18.78	8.58	47.01	6.50	6.93	50.87	51.24	54.89	50.87
BF90G50-../D..11.B.	15.24	18.78	8.58	49.69	6.50	6.93	53.46	53.92	57.56	53.46
BF90G50-../D..13.A.	15.47	19.29	10.16	50.43	8.54	8.54	54.80	54.65	58.78	54.69
BF90G50-../D..16.B.	17.89	19.84	12.20	53.41	9.57	9.57	59.06	57.62	63.13	59.06
BF90G50-../D..18.B.	21.34	20.71	13.70	57.72	11.34	11.34	63.60	61.87	67.68	63.60

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

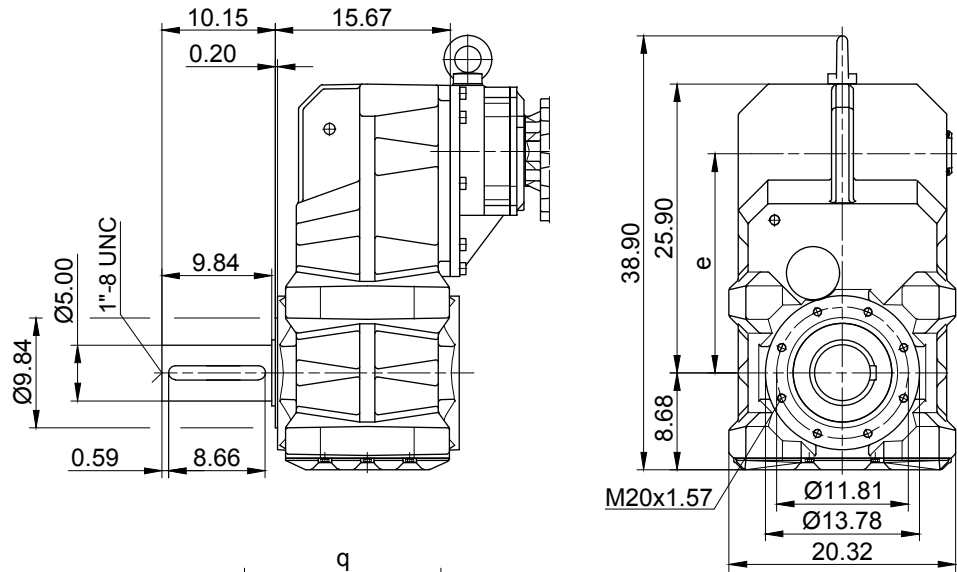
BF-series shaft-mounted geared motors

Dimension -Tandem Gearbox Imperial

BF90G50

Flange with tapped holes

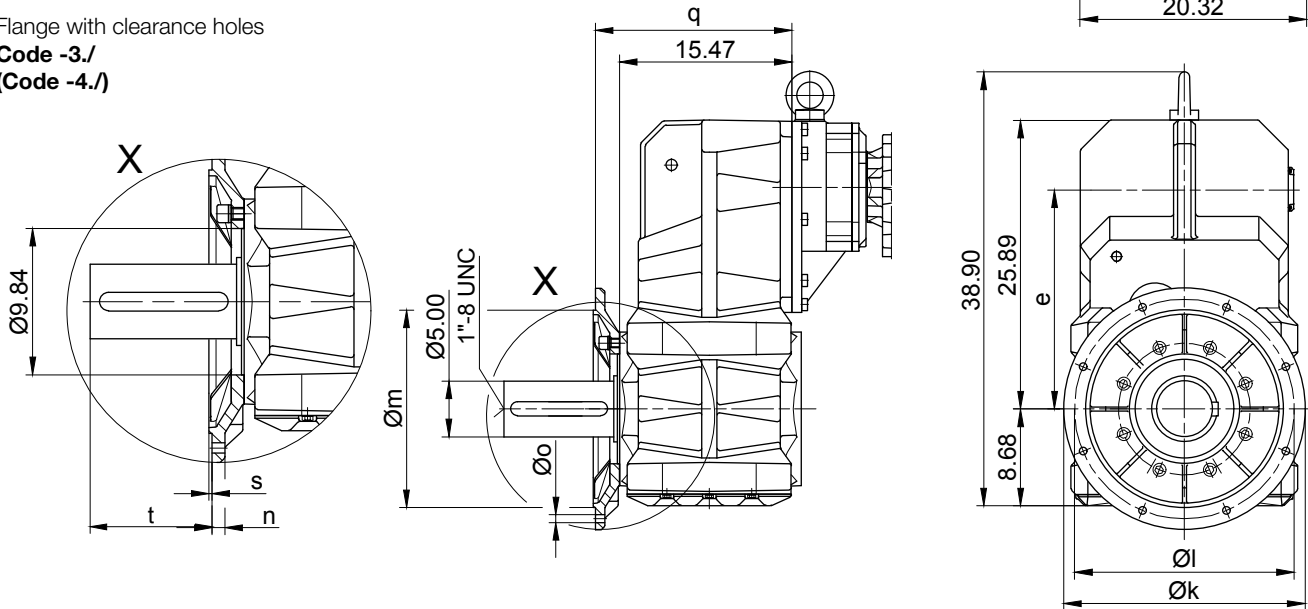
Code -7./



Flange with clearance holes

Code -3./

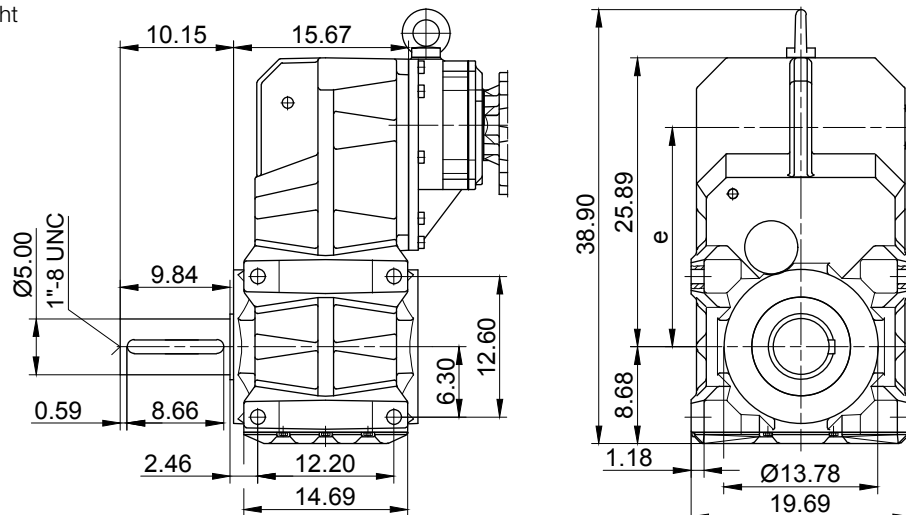
(Code -4./)



Flange Dimensions										Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	q	s	t	
BF90..	Code -3./	21.654	19.685	17.717	0.866	0.689	17.638	0.197	8.186	
BF90..	Code -4./	25.984	23.622	21.654	0.984	0.866	17.402	0.236	8.423	

Foot with tapped holes left and right

Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

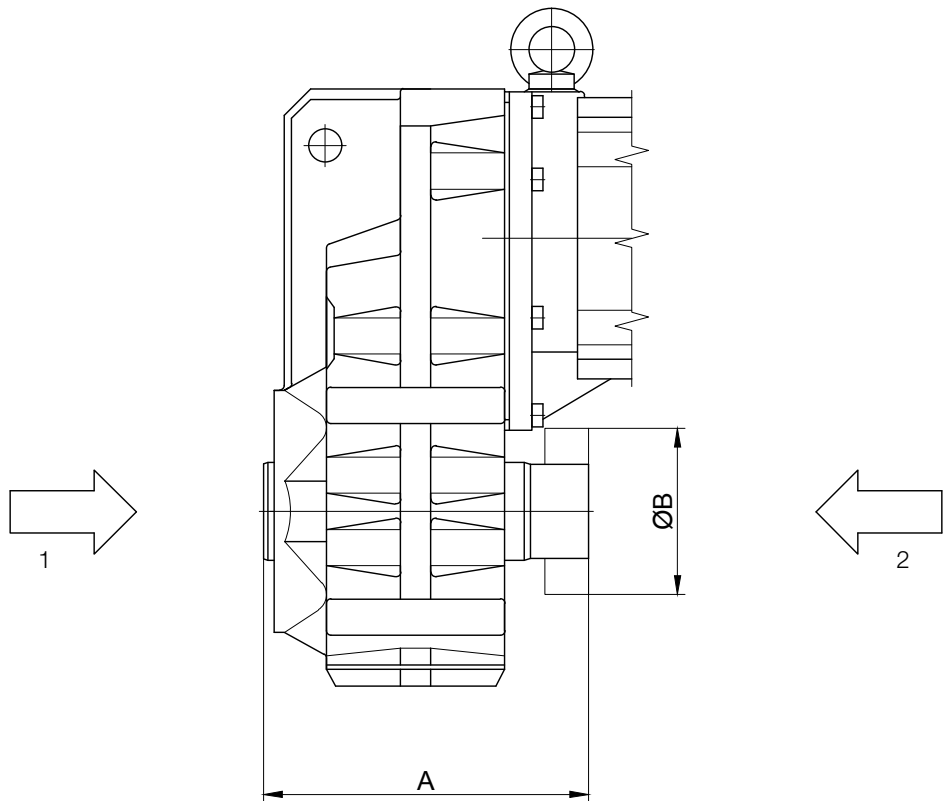
BF-series shaft-mounted geared motors

Additional Dimension Sheet Imperial

Shrink disc coupling (SSV)

(Code BF10-.5/...)
(Code BF10Z-.5/...)

Code -.1/



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HDS 36-22x36	6.02	2.83
BF20	RfN 4161 044x080	HDS 44-22x44	6.81	3.15
BF30	RfN 4161 050x090	HDS 50-22x50	7.56	3.54
BF40	RfN 4161 062x110	HDS 62-22x62	8.46	4.33
BF50	RfN 4161 068x115	HDS 68-22x68	8.31	4.53
BF60	RfN 4161 080x141	HDS 80-22x80	10.12	5.51
BF70	RfN 4161 105x185	HDS 110-22x105	12.60	7.28
BF80	RfN 4161 130x215	HDS 125-22x130	16.57	8.46
BF90	RfN 4161 150x263	HDS 155-22x150	19.88	10.35

Dimensions in inch

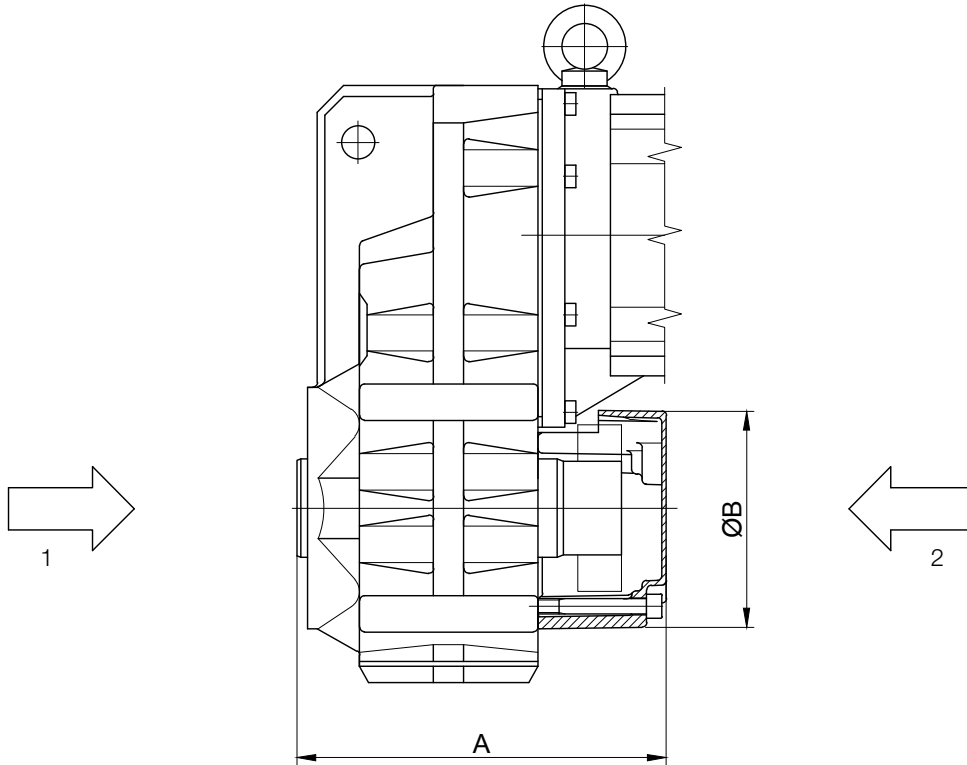
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet Imperial

Shrink disc coupling with (SSV) cover

(Code BF10-.5A/...)
(Code BF10Z-.5A/...)



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HDS 36-22x36	6.85	4.72
BF20	RfN 4161 044x080	HDS 44-22x44	8.31	5.51
BF30	RfN 4161 050x090	HDS 50-22x50	8.78	5.51
BF40	RfN 4161 062x110	HDS 62-22x62	9.65	6.30
BF50	RfN 4161 068x115	HDS 68-22x68	8.94	7.87
BF60	RfN 4161 080x141	HDS 80-22x80	11.42	8.27
BF70	RfN 4161 105x185	HDS 110-22x105	14.13	9.84
BF80	RfN 4161 130x215	HDS 125-22x130	18.23	11.81
BF90	RfN 4161 150x263	HDS 155-22x150	21.93	13.78
Dimensions in inch				

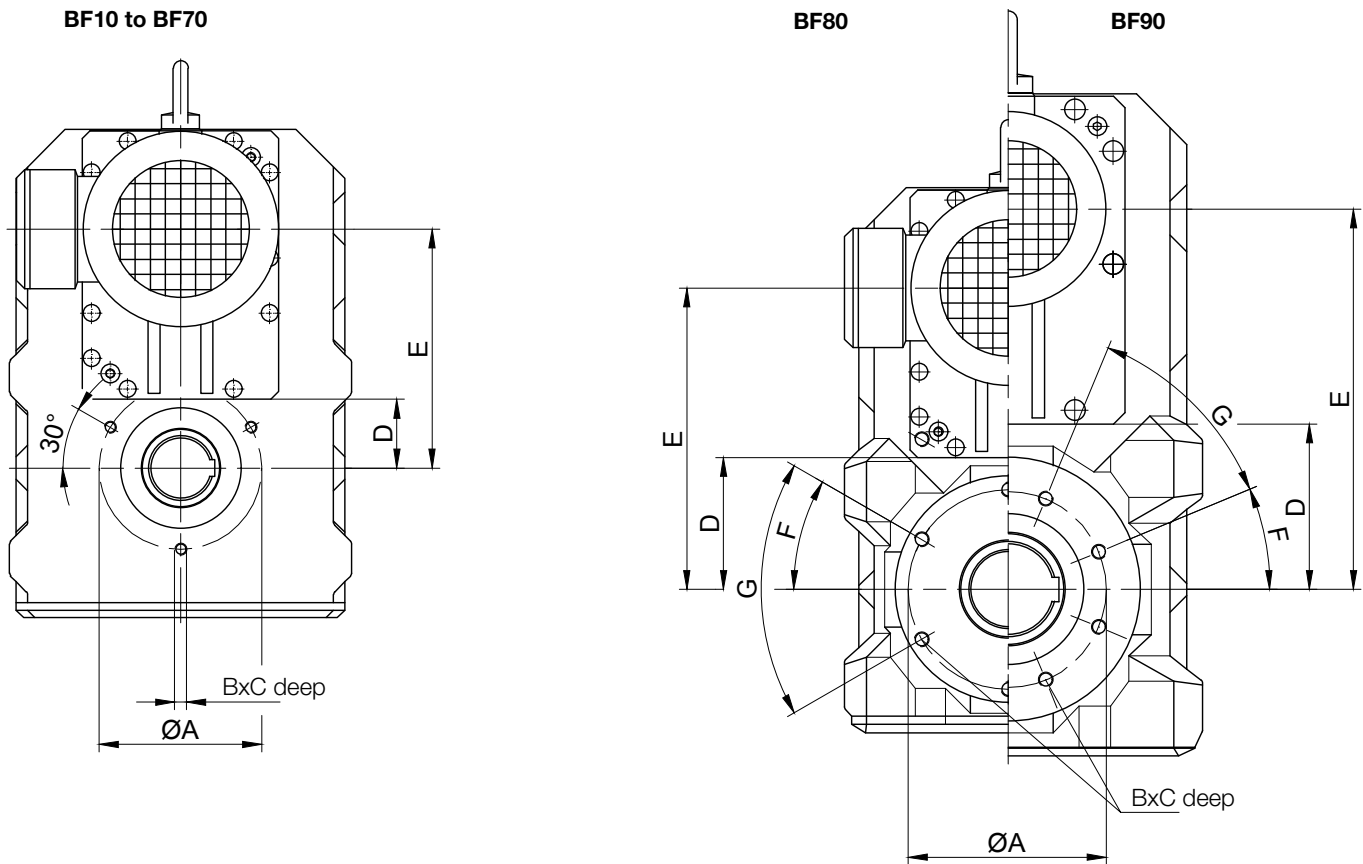
11

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet Imperial

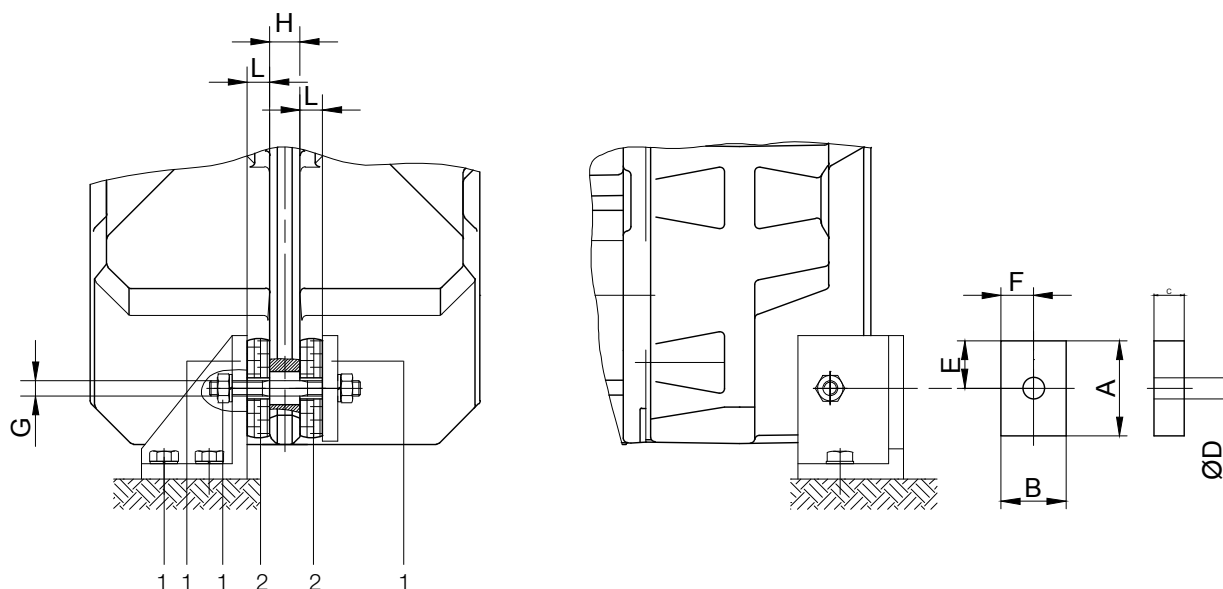
Tapped holes side (H) → shaft cover



Gear	A	B	C	D	E	F	G
BF10	3.94	M8	0.63	1.38	4.65	-	-
BF20	4.53	M10	0.79	1.54	5.35	-	-
BF30	4.53	M10	0.79	1.73	6.18	-	-
BF40	5.12	M10	0.79	2.05	7.11	-	-
BF50	6.50	M12	0.94	2.36	8.15	-	-
BF60	7.09	M12	0.94	2.72	10.06	-	-
BF70	8.46	M16	1.26	3.50	12.44	-	-
BF80	10.43	M20	1.57	6.81	15.75	30°	6x60°
BF90	11.81	M20	1.57	8.62	19.86	22.5°	8x45°
Dimensions in inch							

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Rubber buffer for torque restraint



- 1 not included in delivery
- 2 Rubber buffers pretensioned

G maximaler Schraubendurchmesser

Material: Natural rubber Hardness 50 +/-5 Shore A

Dimensions of the transverse hole: See dimensioned sketch of the respective shaft mounted gearbox

Gear	Position	A	B	C	D	E	F	G	H	L
BF06	Position 0	1.18	1.18	0.47	0.47	0.59	0.59	M10	0.39	0.39
BF10	Position 1	1.89	1.26	0.59	0.55	0.94	0.63	M10	0.63	0.53
BF20	Position 1	1.89	1.26	0.59	0.55	0.94	0.63	M10	0.71	0.51
BF30	Position 2	2.48	1.69	0.79	0.55	1.24	0.85	M10	0.71	0.67
BF40	Position 2	2.48	1.69	0.79	0.55	1.24	0.85	M10	0.79	0.65
BF50	Position 3	3.46	2.36	0.98	0.87	1.73	1.18	M18	0.94	0.85
BF60	Position 3	3.46	2.36	0.98	0.87	1.73	1.18	M18	1.10	0.83
BF70	Position 4	4.84	3.46	1.18	1.02	2.42	1.73	M20	1.18	1.00
BF80	Position 5	5.24	4.06	1.38	1.02	2.62	2.03	M20	1.57	1.18
BF90	Position 5	5.24	4.06	1.38	1.02	2.62	2.03	M20	1.97	1.16
Dimensions in inch										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

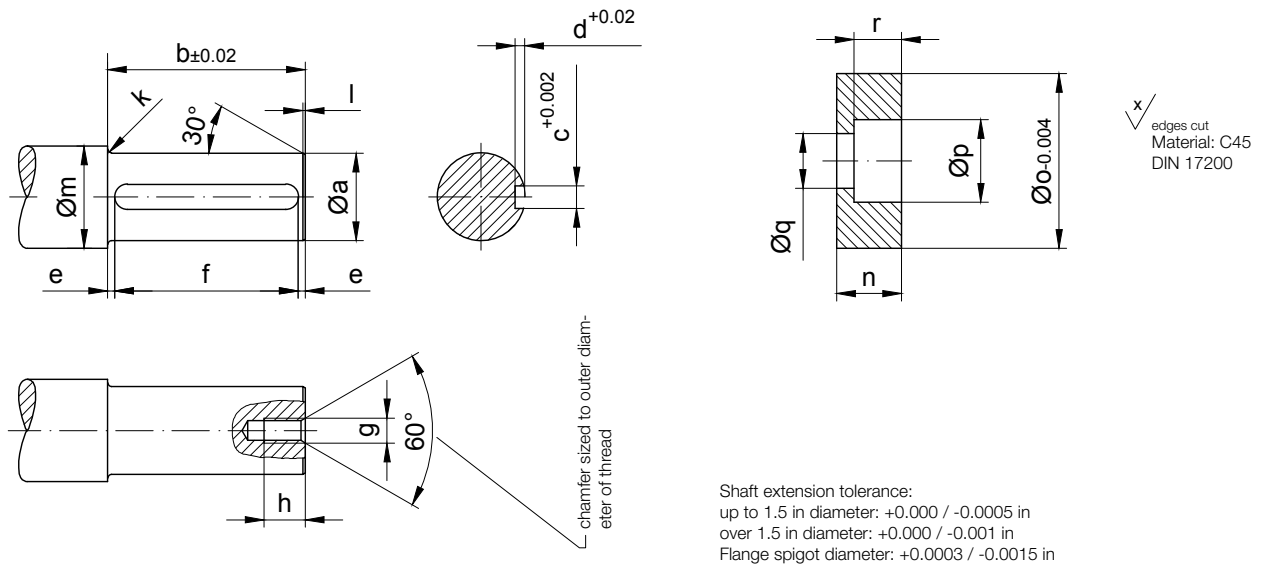
BF-series shaft-mounted geared motors

Additional Dimension Sheet Imperial

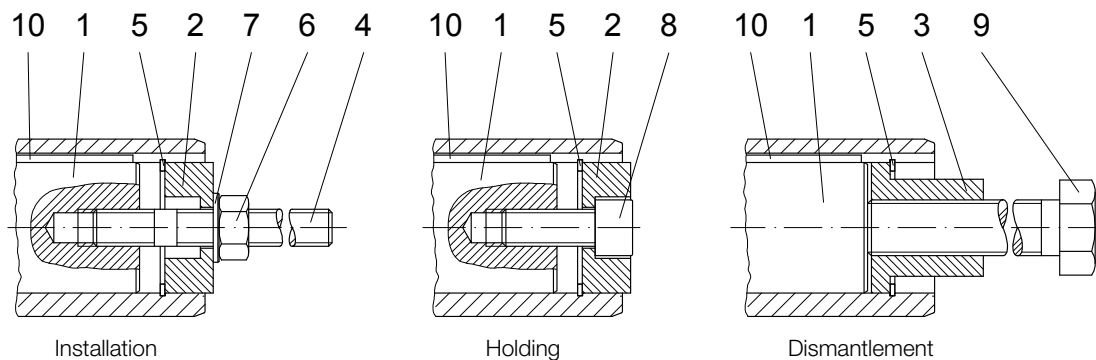
Assembly tools for hollow shaft and keyway

Position 1 Shaft

* Position 2 Disc



Type	Dimensions (mm)															
	Position 1 Shaft											Position 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BF06	1.00	2.75	0.25	0.141	0.135	2.48	M8	0.71	0.10	0.06	1.30	0.53	0.99	0.59	0.35	0.33
BF10	1.00	4.01	0.25	0.141	0.235	3.54	M8	0.71	0.10	0.06	1.30	0.53	0.99	0.59	0.35	0.33
BF20	1.25	4.25	0.25	0.138	0.355	3.54	M10	0.79	0.12	0.06	1.50	0.59	1.24	0.71	0.43	0.39
BF30	1.375	4.64	0.313	0.174	0.350	3.94	M10	0.79	0.12	0.06	1.69	0.63	1.365	0.71	0.43	0.39
BF40	1.50	5.55	0.375	0.211	0.315	4.92	M12	0.87	0.12	0.08	1.89	0.71	1.49	0.79	0.53	0.47
BF50	2.00	5.82	0.50	0.282	0.450	4.92	M16	1.18	0.14	0.08	2.28	0.83	1.99	1.02	0.69	0.59
BF60	2.375	6.81	0.625	0.354	0.255	6.30	M20	1.50	0.14	0.08	2.68	0.94	2.365	1.30	0.87	0.71
BF70	3.00	8.07	0.75	0.423	0.490	7.09	M20	1.50	0.16	0.08	3.54	1.06	2.990	1.30	0.87	0.79
BF80	3.875	12.48	1.00	0.566	0.730	11.05	M24	1.77	0.16	0.12	4.33	1.26	3.865	1.57	1.02	0.98
BF90	4.50	15.07	1.00	0.566	0.450	14.17	M24	1.77	0.18	0.12	5.12	1.38	4.49	1.57	1.02	1.10



The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit. Suitable measures are to be used to secure Bolt Pos.9 against loosening!

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

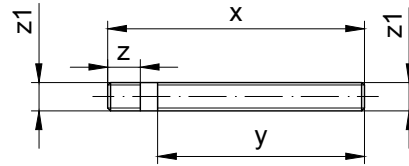
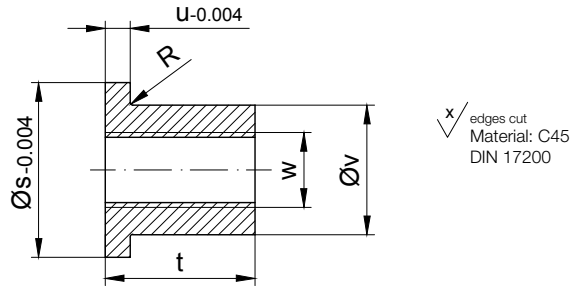
BF-series shaft-mounted geared motors

Additional Dimension Sheet Imperial

Assembly tools for hollow shaft and keyway

Position 3 Sleeve

* Position 4 Stud bolt



Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Flister head screw DIN 912-8.8	Tightening torques (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1							
	s	t	u	v	w	R	x	y	z	z1	Pos.5	Pos.6	Pos.7	Pos.8		Pos.9	Pos.10
BF06	0.99	0.94	0.20	0.61	M12	0.03	7.87	6.69	0.79	M8	25x1.2	M8	8.4	M8x30	44.25	M12x190	1/4x1/4x2.48
BF10	0.99	0.94	0.20	0.61	M12	0.03	7.87	6.69	0.79	M8	25x1.2	M8	8.4	M8x30		M12x190	1/4x1/4x3.54
BF20	1.24	1.10	0.20	0.81	M14	0.03	9.06	7.68	0.91	M10	32x1.2	M10	10.5	M10x30	70.81	M14x210	1/4x1/4x3.54
BF30	1.365	1.10	0.20	0.93	M14	-	10.24	8.66	0.91	M10	35x1.5	M10	10.5	M10x35		M14x240	5/16x5/16x3.94
BF40	1.49	1.57	0.24	1.04	M20	0.03	11.81	10.24	1.10	M12	38x1.75	M12	13	M12x35	141.61	M20x290	3/8x3/8x4.92
BF50	1.99	1.89	0.24	4.43	M24	-	13.39	11.42	1.46	M16	50x2.0	M16	17	M16x40	265.52	M24x320	1/2x1/2x4.92
BF60	2.365	2.36	0.24	1.76	M30	-	14.57	12.20	1.77	M20	60x2.0	M20	21	M20x50	371.73	M30x350	5/8x5/8x6.3
BF70	2.99	2.36	0.32	2.29	M30	-	16.54	14.17	1.77	M20	78x2.5	M20	21	M20x50		M30x400	3/4x3/4x7.09
BF80	3.865	2.83	0.39	3.11	M36	-	19.90	16.14	2.17	M24	98x3.0	M24	25	M24x60	885.07	M36x450	1x1x11.02
BF90	4.49	2.83	0.39	3.66	M36	-	22.05	18.90	2.17	M24	115x4.0	M24	25	M24x60		M36x520	1x1x14.17
The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit. Suitable measures are to be used to secure Bolt Pos. 8 against loosening!																	

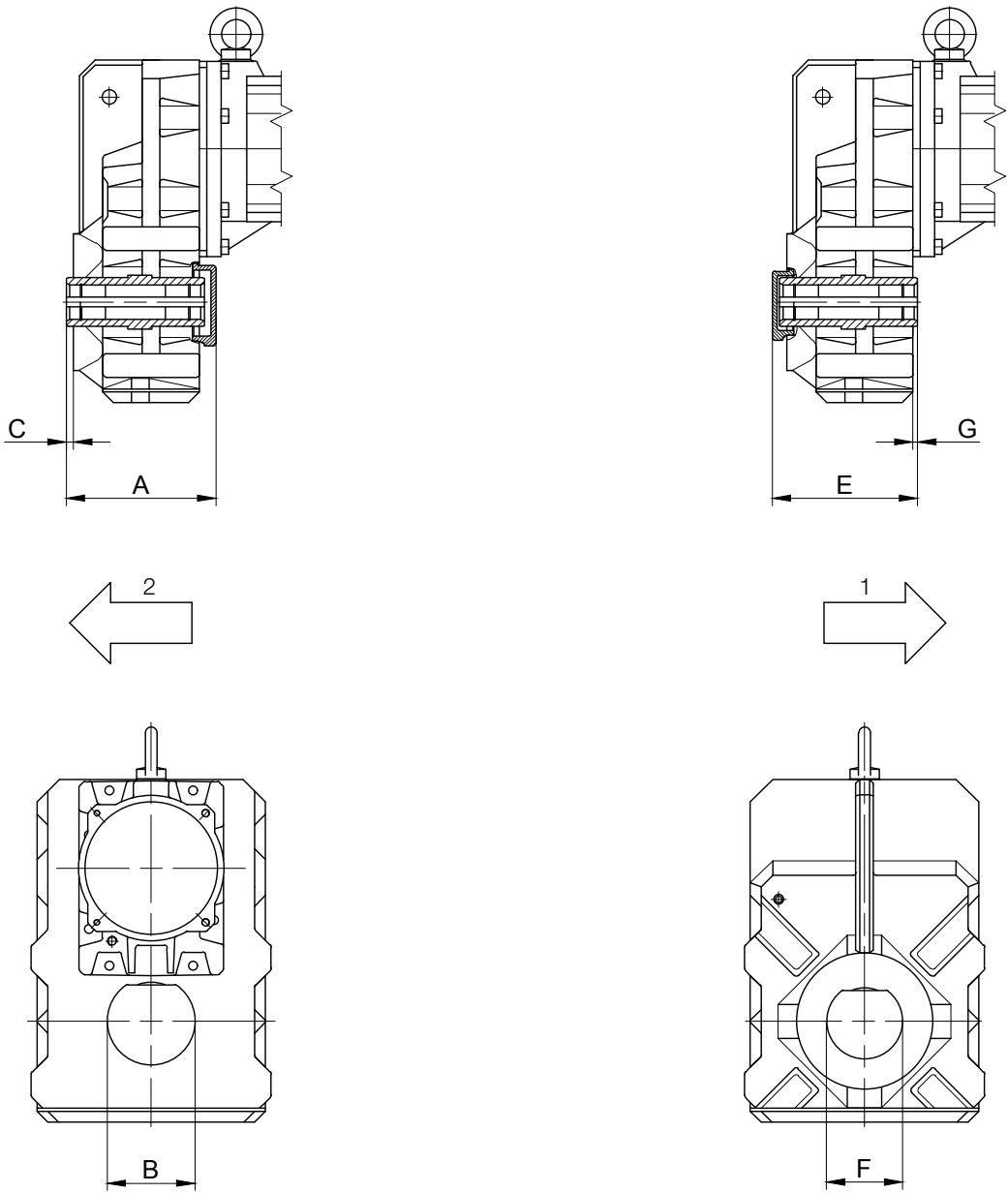
Optional	Type	Ø s	Order text
	BF06	1.00	Available only on request
	BF10	1.00	Available only on request
	BF20	1.25	Available only on request
	BF30	1.375	Available only on request
	BF40	1.50	Available only on request
	BF50	2.00	Available only on request
	BF60	2.375	Available only on request
	BF70	3.00	Available only on request
	BF80	3.875	Available only on request
	BF90	4.50	Available only on request

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet Imperial

Sealing cap (VK)



1 Gear side FRONT (V)

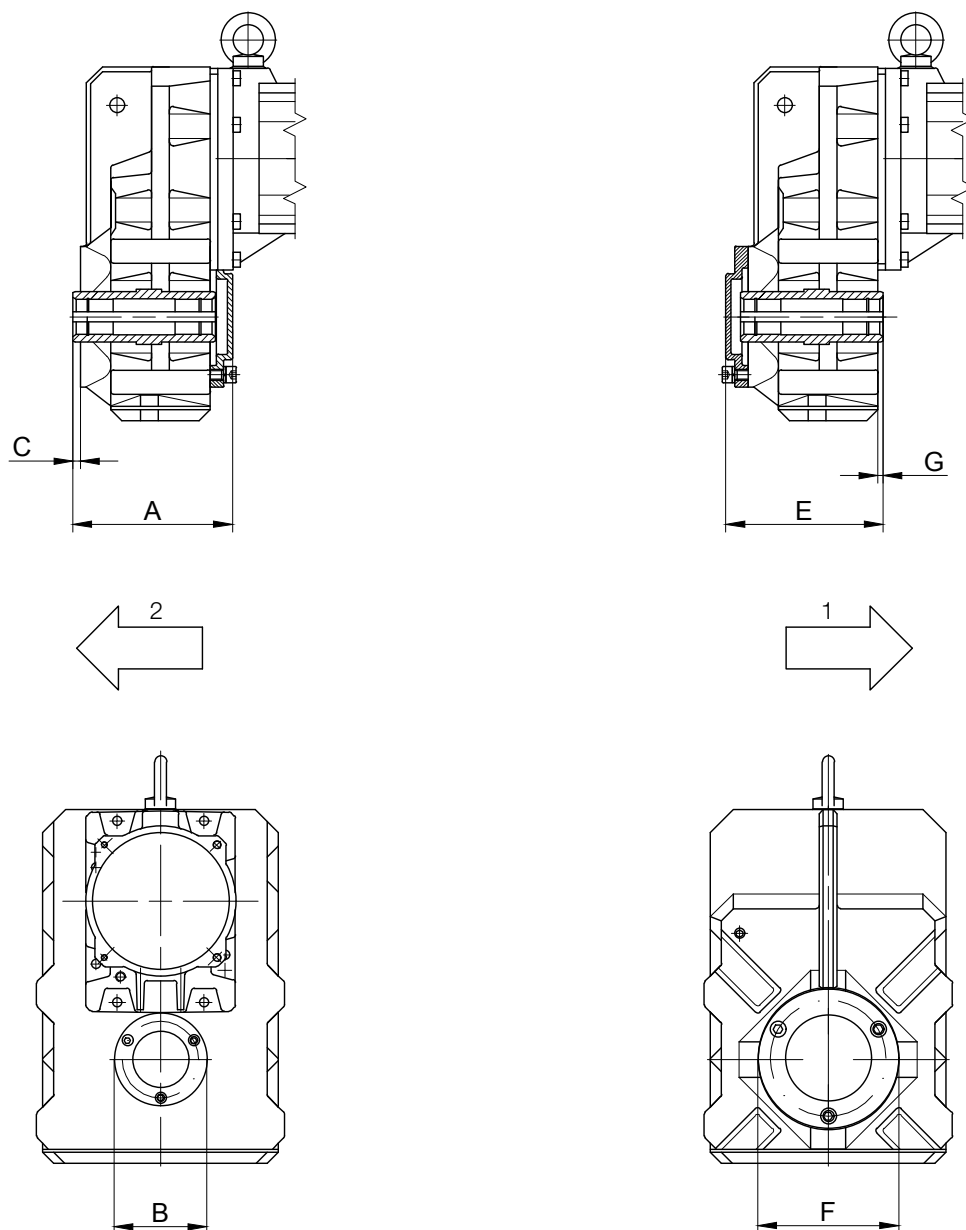
2 Gear side REAR (H)

Shaft cap REAR (H)			
Type	A	B	C
BF10	5.28	3.07	0.20
BF20	5.59	3.35	0.20
BF30	6.04	3.54	0.30
BF40	7.07	4.33	0.28
BF50	7.56	4.92	0.24
BF60	8.74	5.51	0.28
BF70	10.16	6.69	0.24
Dimensions in millimetres (mm)			

Shaft cap FRONT (V)			
Type	E	F	G
BF30	5.87	3.07	0.30
BF50	7.46	4.33	0.24
BF70	10.32	5.12	0.24
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Sealing cover (VD)



1 Gear side FRONT (V)

2 Gear side REAR (H)

Shaft cover REAR (H)			
Type	A	B	C
BF70	14.80	11.81	0.32
BF90	17.40	13.78	0.32
Dimensions in millimetres (mm)			

Shaft cover FRONT (V)			
Type	E	F	G
BF10	5.33	4.72	0.20
BF20	5.67	5.49	0.20
BF30	6.02	5.49	0.30
BF40	7.07	6.30	0.28
BF50	7.54	7.83	0.24
BF60	8.72	8.27	0.28
BF70	10.16	9.84	0.24
BF80	14.80	11.81	0.32
BF90	17.40	13.78	0.32
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

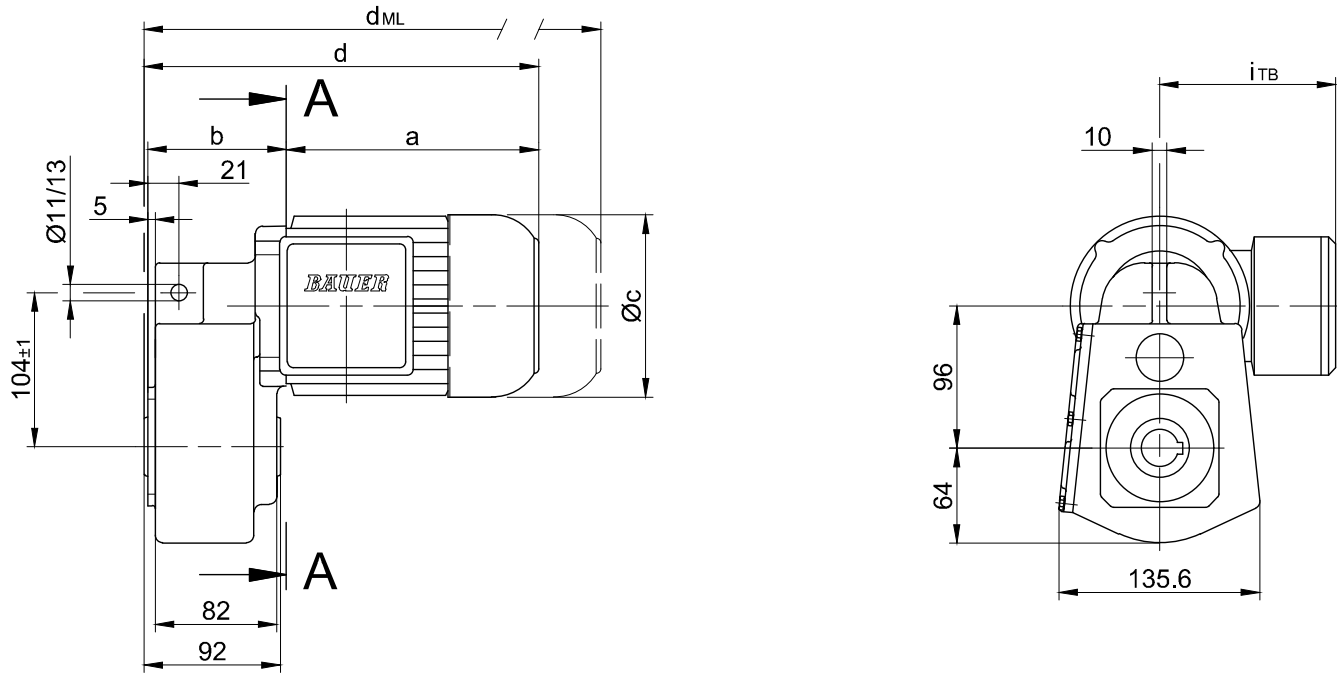
BF-series shaft-mounted geared motors

Dimension - Standard Metric

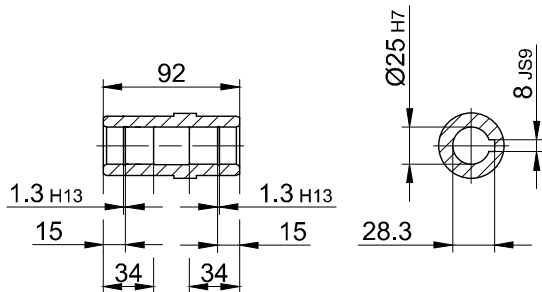
BF06

with torque arm

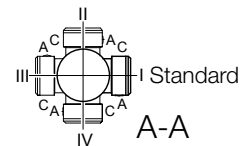
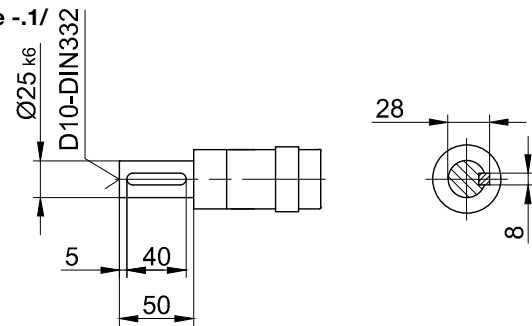
Code -0./



Code -4/



Code -1/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF06-../D..05.A.	170.5	93.5	123	266.5	101	117	306	366.5	404	-
BF06-../D..06.A.	170.5	93.5	123	266.5	99	119	306	366.5	404	-
BF06-../D..07.A.	190.5	93.5	123	286.5	99	119	326	386.5	424	-
BF06-../D..08.A.	199.5	141.5	156	343.5	114.5	136.5	407	453	514.5	407
BF06-../D..08.B.	229.5	141.5	156	373.5	114.5	136.5	437	483	544	437

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

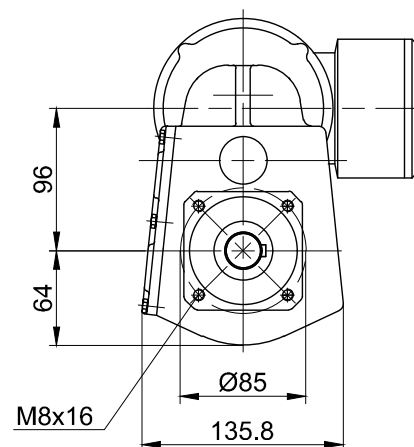
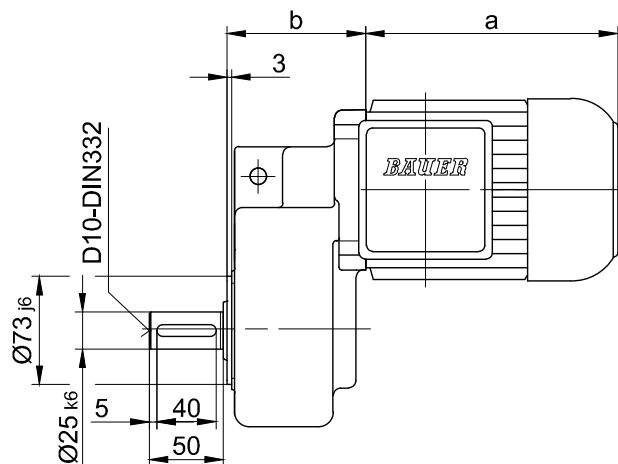
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF06

Flange with clearance holes

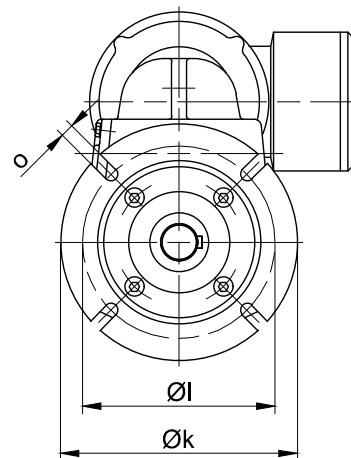
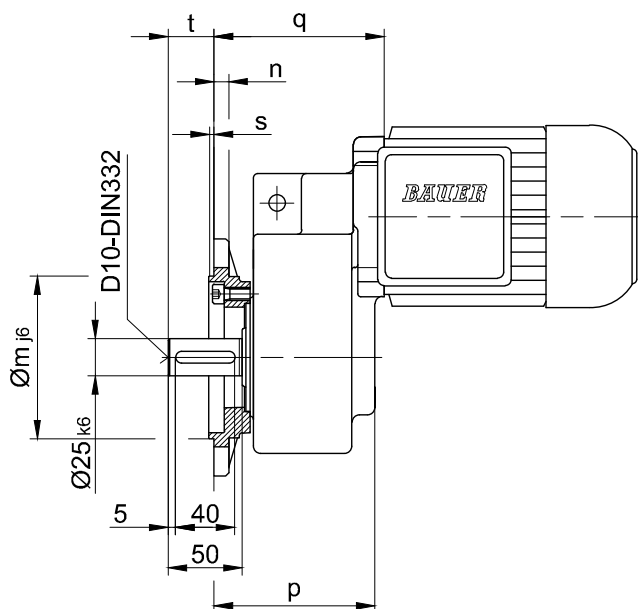
Code -7./



Flange with clearance holes

Code -3.V/

(Code -4.V/)



Flange Dimensions										
Type	Design	k	l	m	n	o	p	q ¹⁾	q ²⁾	s
BF06	Code -3./	140	115	95	10	9	108.5	115	163	3
BF06	Code -4./	160	130	110	10	9	108.5	115	163	3.5

¹⁾ only for motor sizes D05; D06; D07
²⁾ only for motor size D08..

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

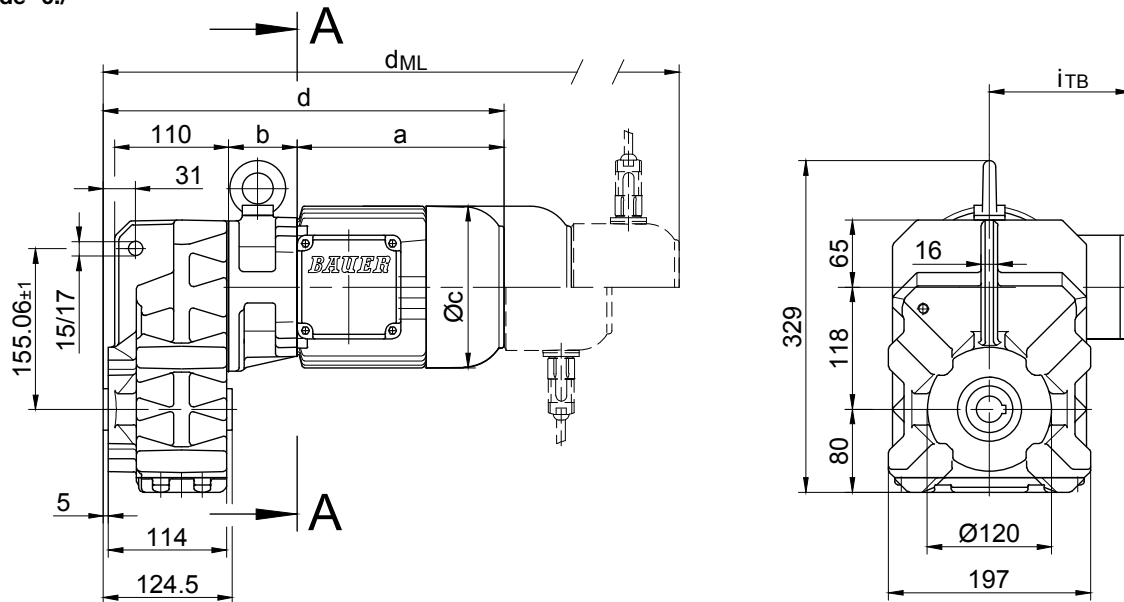
BF-series shaft-mounted geared motors

Dimension - Standard Metric

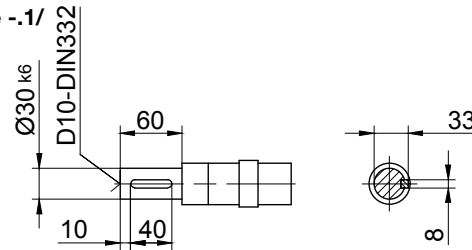
BF10 - BF10Z

with torque arm

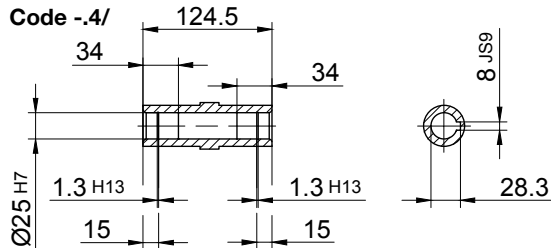
Code -0./



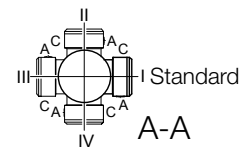
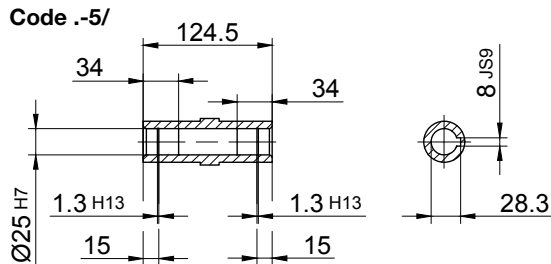
Code -.1/



Code -.4/



Code -.5/



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF10Z-../D04.A.	142.5	86	110.5	349.5	90	112	393	437	480.5	-
BF10-../D..05.A.	170.5	62	123	353.5	101	117	395.5	456	493.5	-
BF10Z-../D..05.A.	170.5	88	123	379.5	101	117	421.6	482	519.5	-
BF10-../D..06.A.	170.5	62	123	353.5	99	119	395.5	456	493.5	-
BF10Z-../D..06.A.	170.5	88	123	379.5	99	119	421.5	482	519.5	-
BF10-../D..07.A.	190.5	62	123	373.5	99	119	415.5	476	513.5	-
BF10Z-../D..07.A.	190.5	88	123	399.5	99	119	441.5	502	539.5	-
BF10-../D..08.A.	199.5	66	156	386.5	114.5	136.5	452.5	498.5	560	452.5
BF10Z-../D..08.A.	199.5	132	156	452.5	114.5	136.5	518.5	564.5	626	518.5
BF10-../D..08.B.	229.5	66	156	416.5	114.5	136.5	482.5	528.5	589.5	482.5
BF10Z-../D..08.B.	229.5	132	156	482.5	114.5	136.5	548.5	594.5	655.5	548.5
BF10-../D..09.A.	250.5	80.5	176	452	124	157	545	559.5	649	545
BF10-../D..09.B.	308.5	80.5	176	510	124	157	603	617	707	603

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

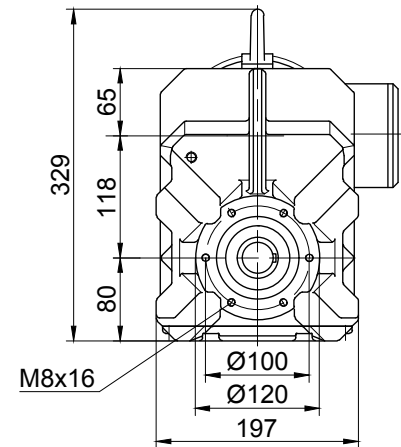
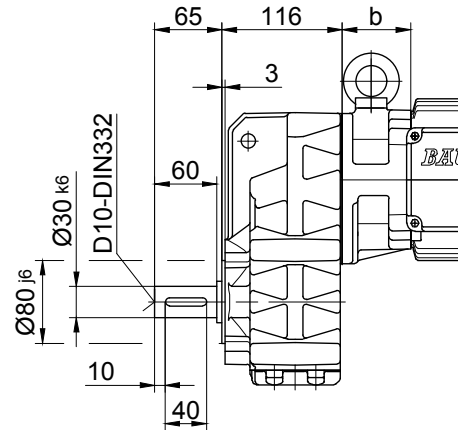
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF10 - BF10Z

Flange with tapped holes

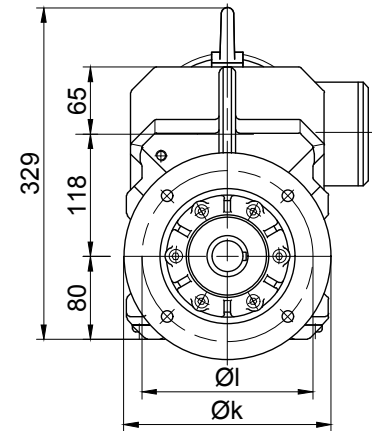
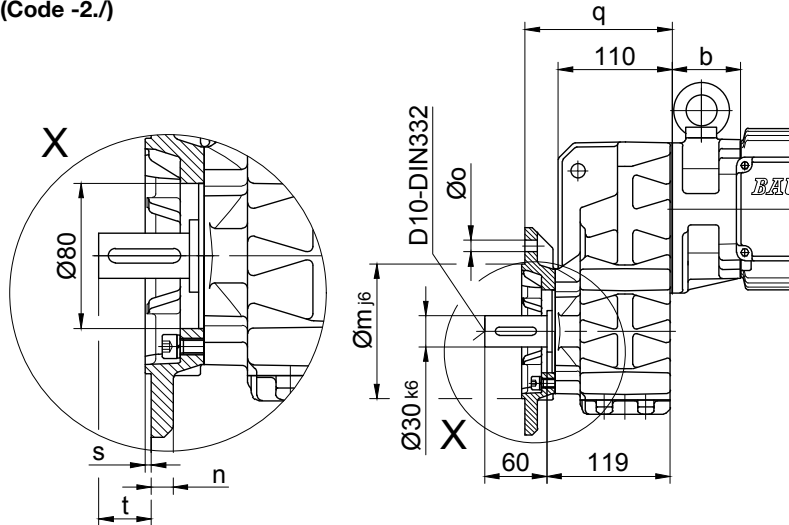
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

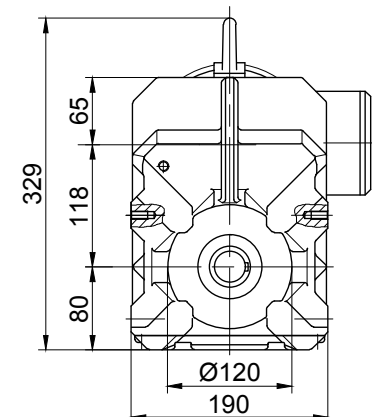
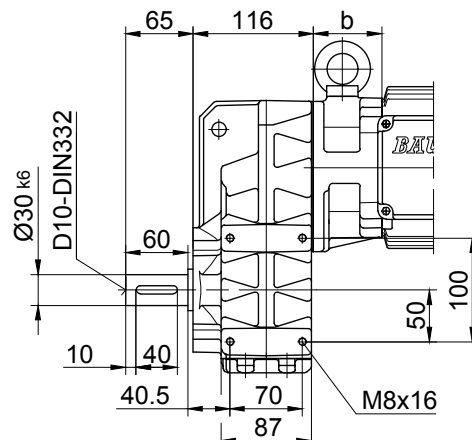


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF10..	Code -3./	200	165	130	12	11	142	3.5	39
BF10..	Code -2./	160	130	110	10	9	135	3.5	46

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

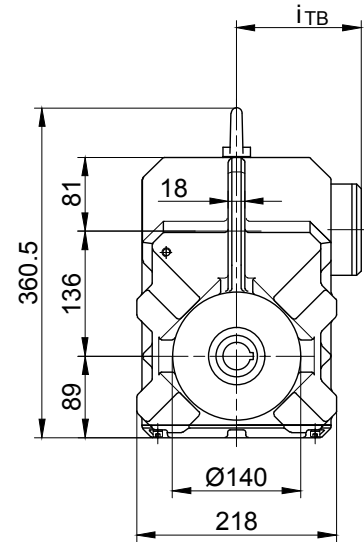
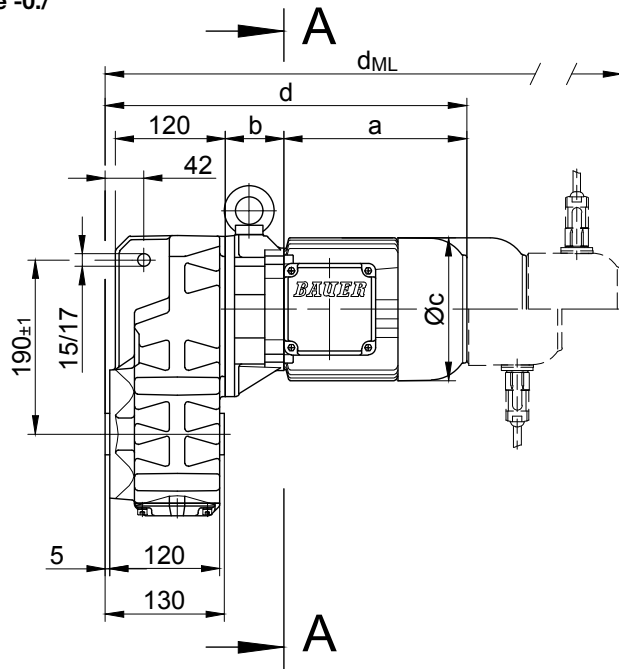
BF-series shaft-mounted geared motors

Dimension - Standard Metric

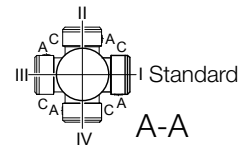
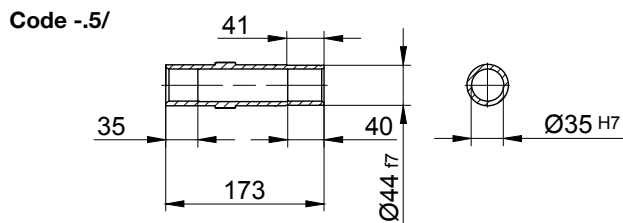
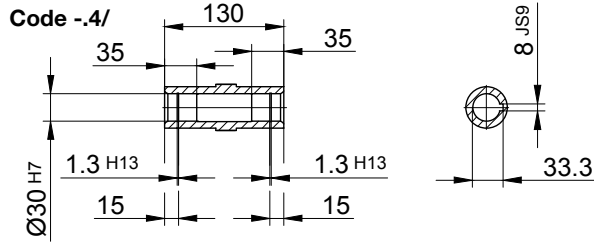
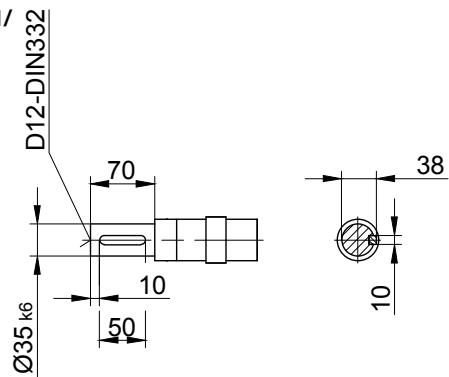
BF20 - BF20Z

with torque arm

Code -0./



Code -1./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF20Z-../D04.A.	142.5	100	110.5	373.5	90	112	417	461	504.5	-
BF20-../D..05.A.	170.5	60	123	361.5	101	117	403.5	464	501.5	-
BF20Z-../D..05.A.	170.5	102	123	403.5	101	117	445.5	506	543.5	-
BF20-../D..06.A.	170.5	60	123	361.5	99	119	403.5	464	501.5	-
BF20Z-../D..06.A.	170.5	102	123	403.5	99	119	445.5	506	543.5	-
BF20-../D..07.A.	190.5	60	123	381.5	99	119	423.5	484	521.5	-
BF20Z-../D..07.A.	190.5	102	123	423.5	99	119	465.5	526	563.5	-
BF20-../D..08.A.	199.5	64	156	394.5	114.5	136.5	460.5	506.5	568	460.5
BF20Z-../D..08.A.	199.5	146	156	476.5	114.5	136.5	542.5	588.5	650	542.5
BF20-../D..08.B.	229.5	64	156	424.5	114.5	136.5	490.5	536.5	597.5	490.5
BF20Z-../D..08.B.	229.5	146	156	506.5	114.5	136.5	572.5	618.5	679.5	572.5
BF20-../D..09.A.	250.5	78.5	176	460	124	157	553	567.5	657	553
BF20-../D..09.B.	308.5	78.5	176	518	124	157	611	625	715	611

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

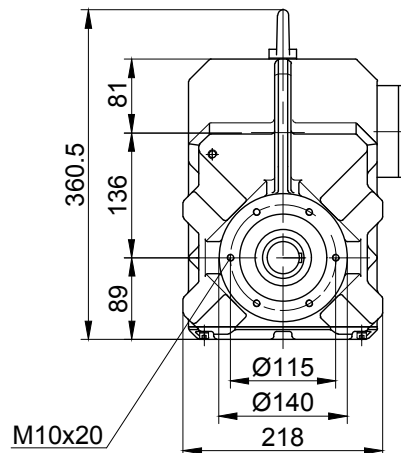
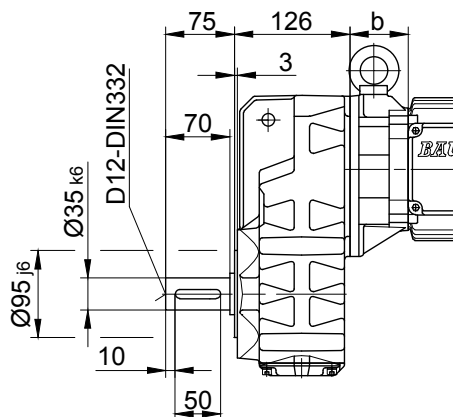
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF20 - BF20Z

Flange with tapped holes

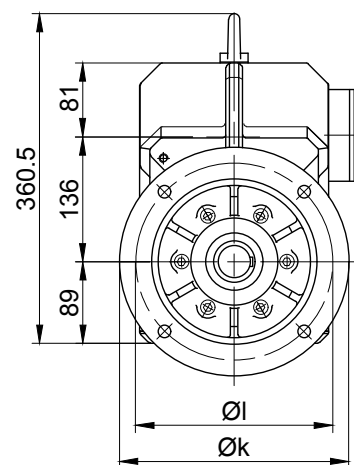
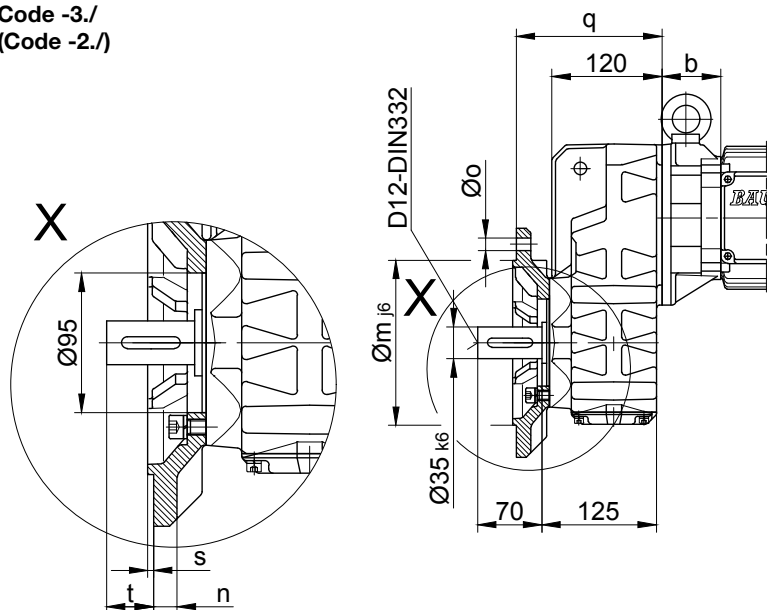
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

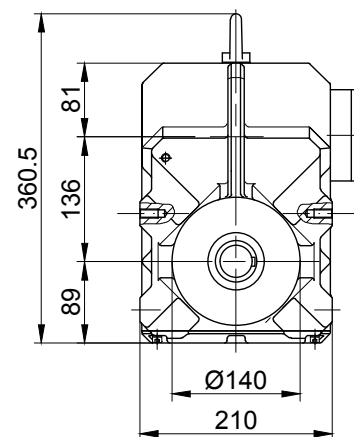
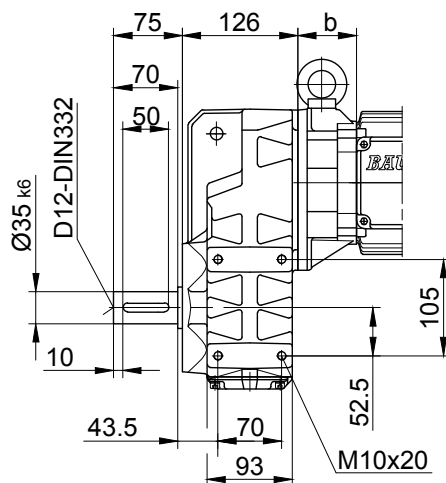


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF20..	Code -3./	250	215	180	16	13.5	159	4	42
BF20..	Code -2./	200	165	130	12	11	150	3.5	51

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -6.LR/



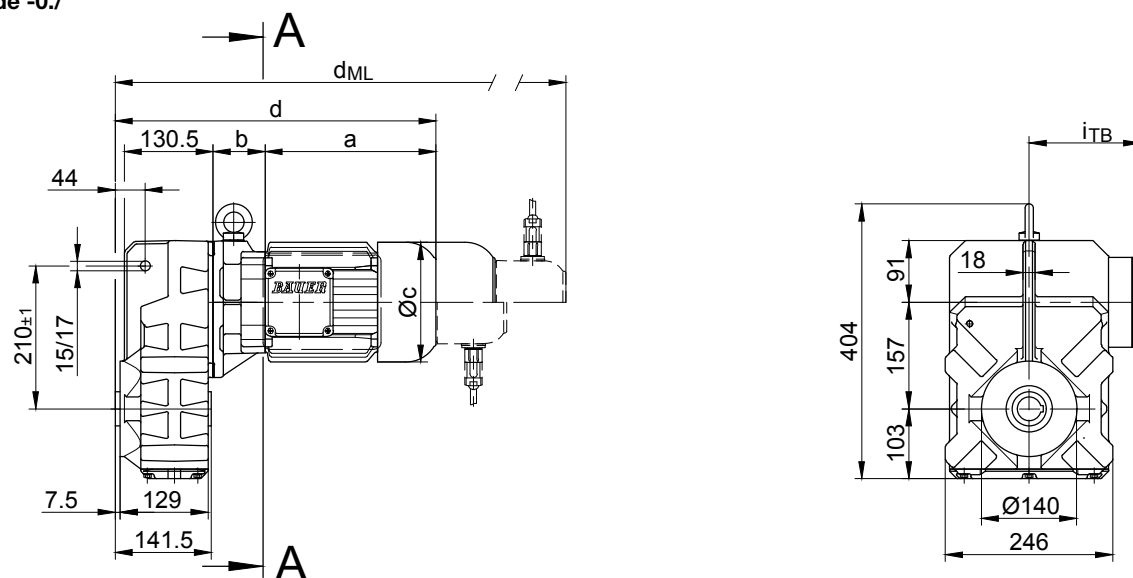
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

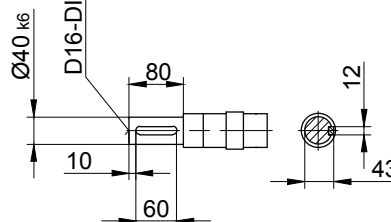
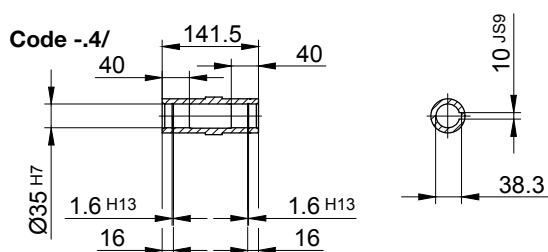
BF30 - BF30Z

with torque arm

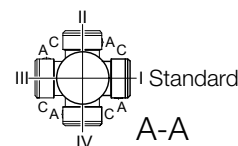
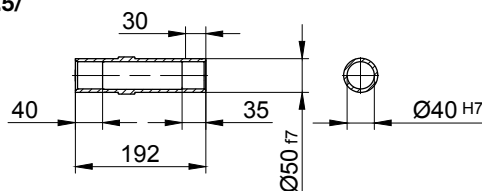
Code -0./



Code -.1/ 2



Code -.5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF30-../D..05.A.	170.5	58	123	372.5	101	117	414.5	475	512.5	-
BF30Z-../D..05.A.	170.5	133.5	123	448	101	117	490	550.5	588	-
BF30-../D..06.A.	170.5	58	123	372.5	99	119	414.5	475	512.5	-
BF30Z-../D..06.A.	170.5	133.5	123	448	99	119	490	550.5	588	-
BF30-../D..07.A.	190.5	58	123	392.5	99	119	434.5	495	532.5	-
BF30Z-../D..07.A.	190.5	133.5	123	468	99	119	510	570.5	608	-
BF30-../D..08.A.	199.5	62	156	405.5	114.5	136.5	471.5	517.5	579	471.5
BF30Z-../D..08.A.	199.5	137.5	156	481	114.5	136.5	547	593	654.5	547
BF30-../D..08.B.	229.5	62	156	435.5	114.5	136.5	501.5	547.5	608.5	501.5
BF30Z-../D..08.B.	229.5	137.5	156	511	114.5	136.5	577	623	684	577
BF30-../D..09.A.	250.5	76.5	176	471	124	157	564	578.5	668	564
BF30Z-../D..09.A.	250.5	152	176	546.5	124	157	639.5	654	743.5	639.5
BF30-../D..09.B.	308.5	76.5	176	529	124	157	622	636	726	622
BF30Z-../D..09.B.	308.5	152	176	604.5	124	157	697.5	711.5	801.5	697.5
BF30-../D..11.A.	319	83	218	546	165	176	644	653.5	746	644
BF30-../D..11.B.	387	83	218	614	165	176	710	721.5	814	710

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

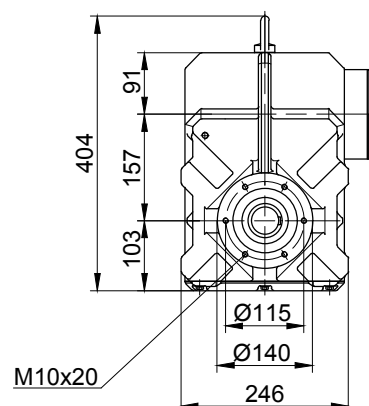
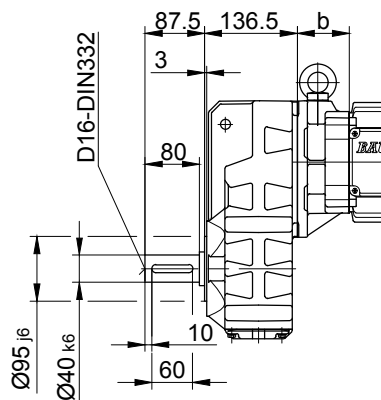
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF30 - BF30Z

Flange with tapped holes

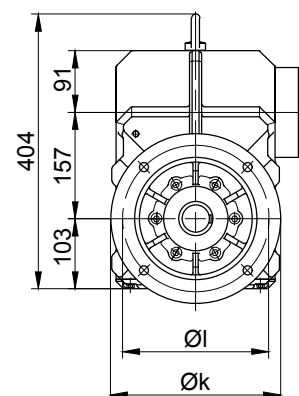
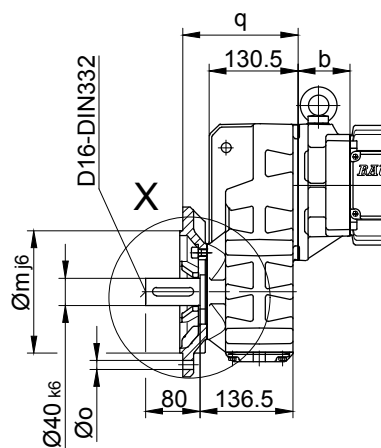
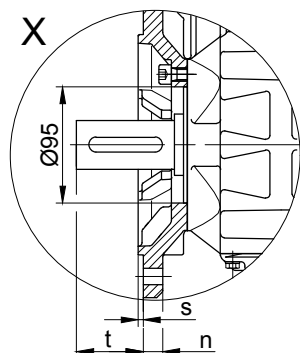
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

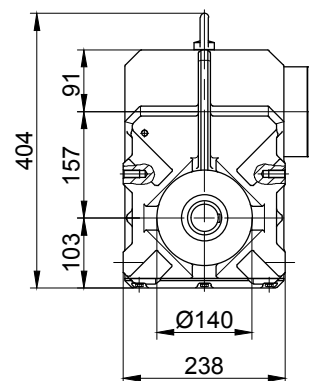
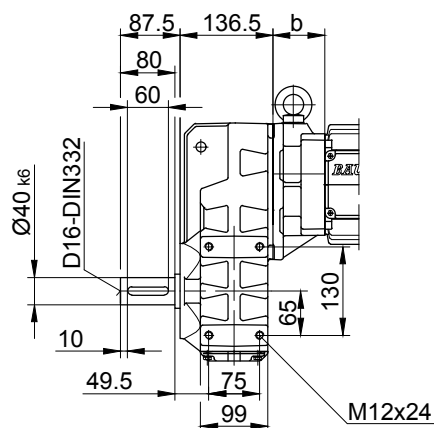


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF30..	Code -3./	250	215	180	16	13.5	169.5	4	54.5
BF30..	Code -2./	200	165	130	12	11	160.5	3.5	63.5

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

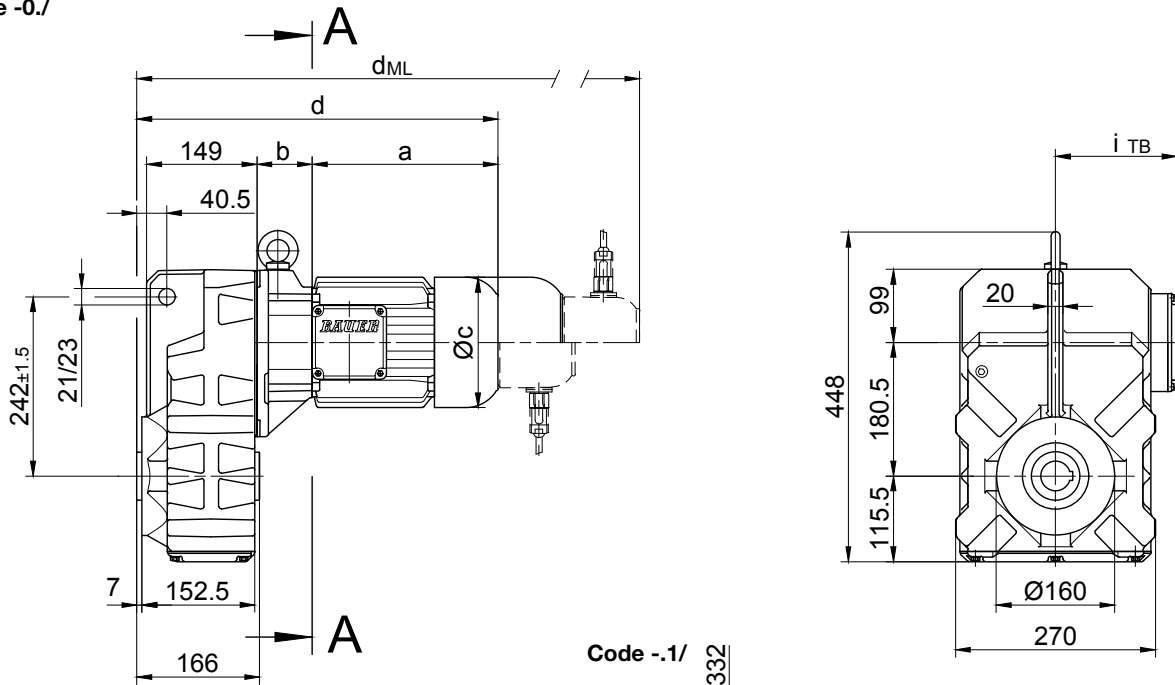
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF40 - BF40Z

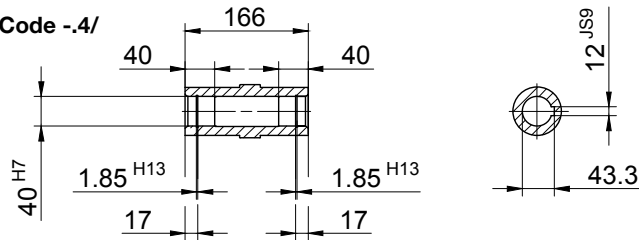
with torque arm

Code -0./

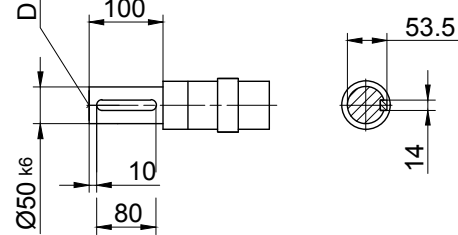


Code -1./

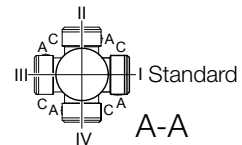
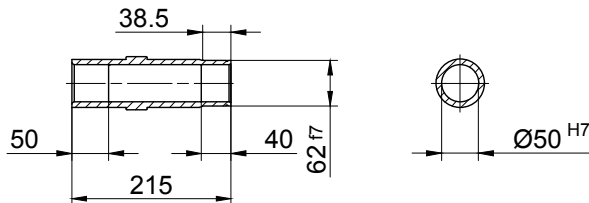
Code -4./



D16-DIN332



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF40Z-../D..05.A.	170.5	138.5	123	471.5	101	117	513.5	574	611.5	-
BF40Z-../D..06.A.	170.5	138.5	123	471.5	99	119	513.5	574	611.5	-
BF40Z-../D..07.A.	190.5	138.5	123	491.5	99	119	533.5	594	631.5	-
BF40-../D..08.A.	199.5	60	156	422	114.5	136.5	488	534	595.5	488
BF40Z-../D..08.A.	199.5	142.5	156	504.5	114.5	136.5	570.5	616.5	678	570.5
BF40-../D..08.B.	229.5	60	156	452	114.5	136.5	518	564	625	518
BF40Z-../D..08.B.	229.5	142.5	156	534.5	114.5	136.5	600.5	646.5	707.5	600.5
BF40-../D..09.A.	250.5	74.5	176	487.5	124	157	580.5	595	684.5	580.5
BF40Z-../D..09.A.	250.5	157	176	570	124	157	663	677.5	767	663
BF40-../D..09.B.	308.5	74.5	176	545.5	124	157	638.5	652.5	742.5	638.5
BF40Z-../D..09.B.	308.5	157	176	628	124	157	721	735	825	721
BF40-../D..11.A.	319	81	218	562.5	165	176	660.5	670	762.5	660.5
BF40Z-../D..11.B.	387	81	218	630.5	165	176	726.5	738	830.5	726.5

Dimensions in millimetres (mm)

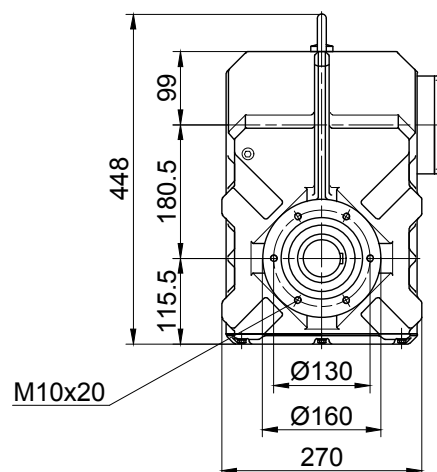
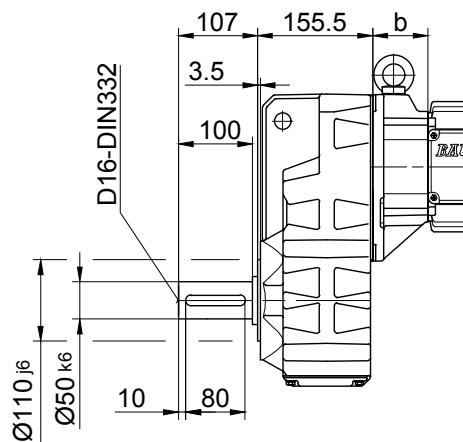
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

BF40 - BF40Z

Flange with tapped holes

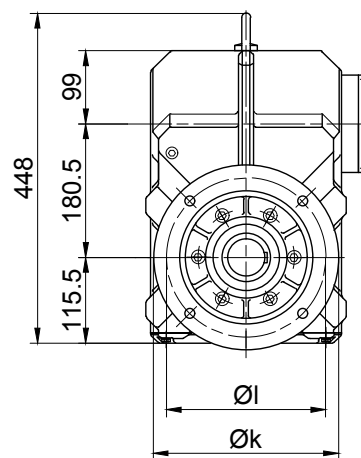
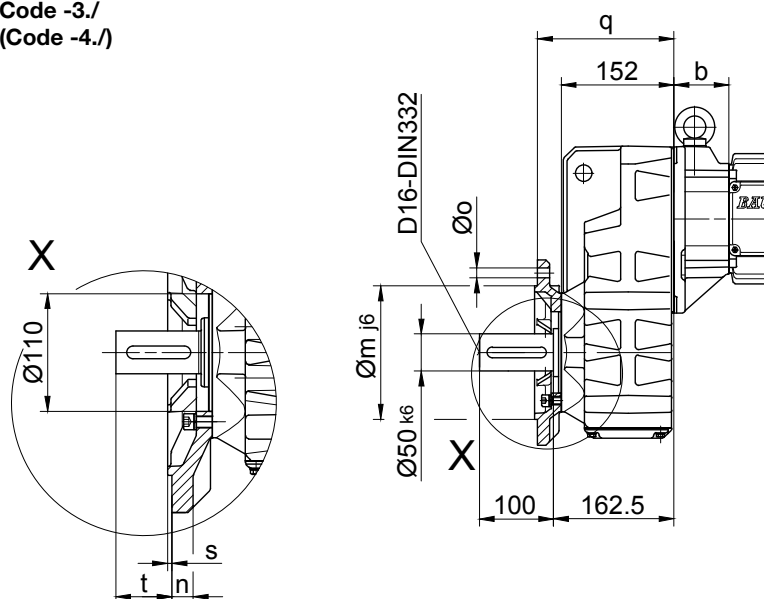
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

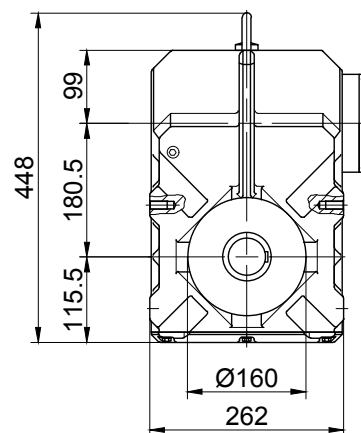
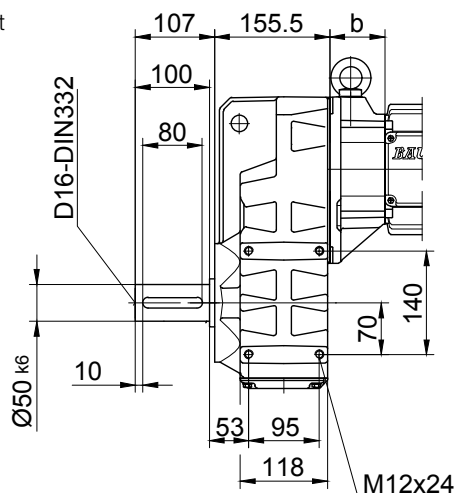


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF40..	Code -3../	250	215	180	16	13.5	184	4	78.5
BF40..	Code -4../	300	265	230	20	13.5	190	4	72.5

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

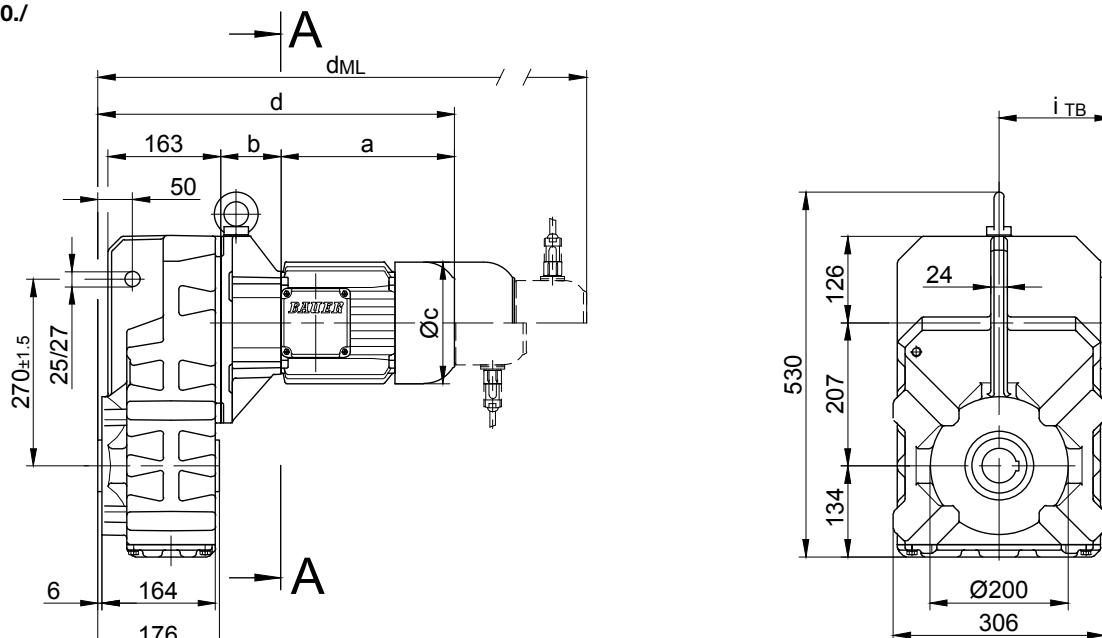
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF50 - BF50Z

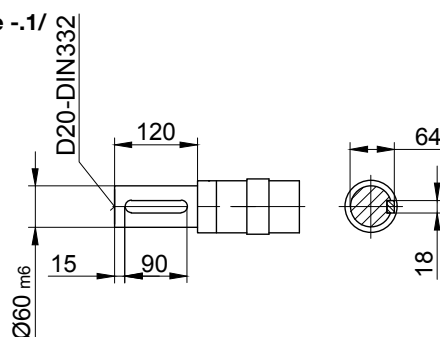
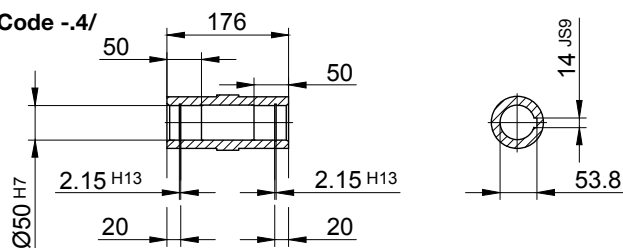
with torque arm

Code -0./

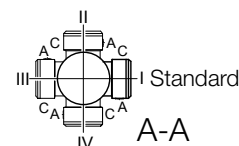
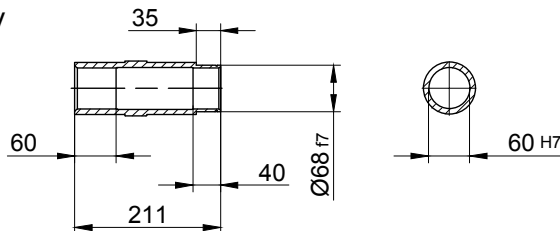


Code -1/

Code -4/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF50Z-../D..05.A.	170.5	155	123	503	101	117	545	605.5	643	-
BF50Z-../D..06.A.	170.5	155	123	503	99	119	545	605.5	643	-
BF50Z-../D..07.A.	190.5	155	123	523	99	119	565	625.5	663	-
BF50-../D..08.A.	199.5	73	156	450	114.5	136.5	516	562	623.5	516
BF50Z-../D..08.A.	199.5	159	156	536	114.5	136.5	602	648	709.5	602
BF50-../D..08.B.	229.5	73	156	480	114.5	136.5	546	592	653	546
BF50Z-../D..08.B.	229.5	159	156	566	114.5	136.5	632	678	739	632
BF50-../D..09.A.	250.5	87.5	176	515.5	124	157	608.5	623	712.5	608.5
BF50Z-../D..09.A.	250.5	173.5	176	601.5	124	157	694.5	709	798.5	694.5
BF50-../D..09.B.	308.5	87.5	176	573.5	124	157	666.5	680.5	770.5	666.5
BF50Z-../D..09.B.	308.5	173.5	176	659.5	124	157	752.5	766.5	856.5	752.5
BF50-../D..11.A.	319	94	218	590.5	165	176	688.5	698	790.5	688.5
BF50Z-../D..11.B.	387	94	218	658.5	165	176	754.5	766	858.5	754.5
BF50-../D..13.A.	393	107	258	677.5	217	217	788.5	784.5	889.5	785.5
BF50-../D..16.B.	454.5	121	310	753	243	243	896.5	860	1000	896.5
BF50-../D..18.B.	542	143	348	862.5	288	288	1012	968	1115.5	1012

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

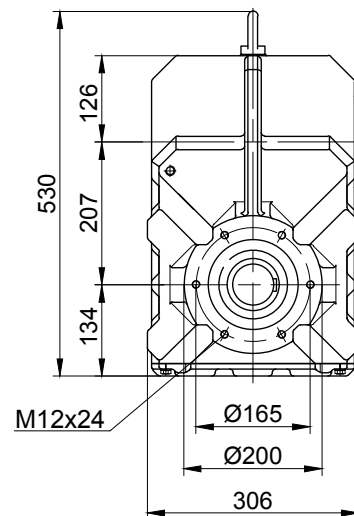
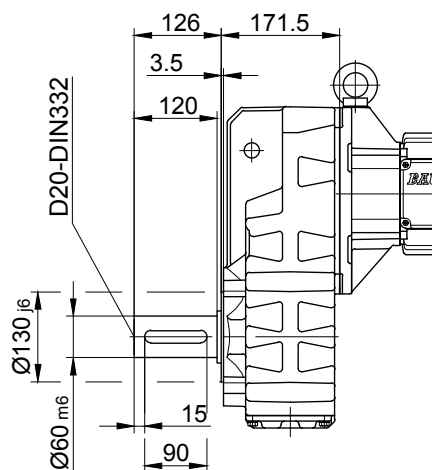
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF50 - BF50Z

Flange with tapped holes

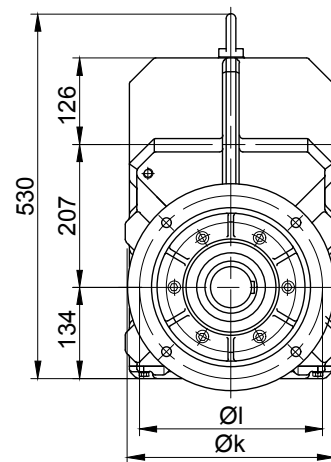
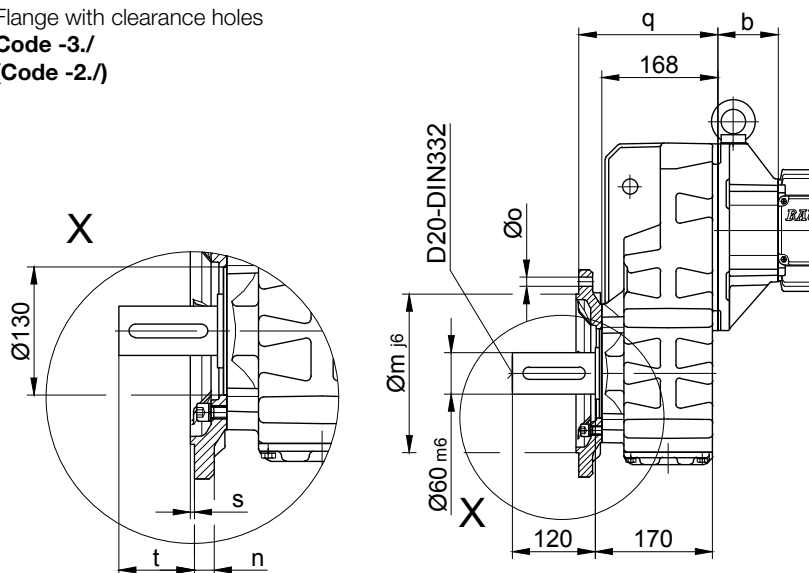
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

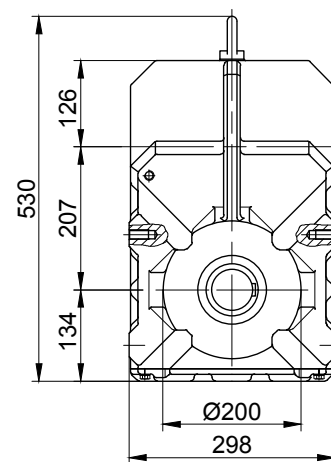
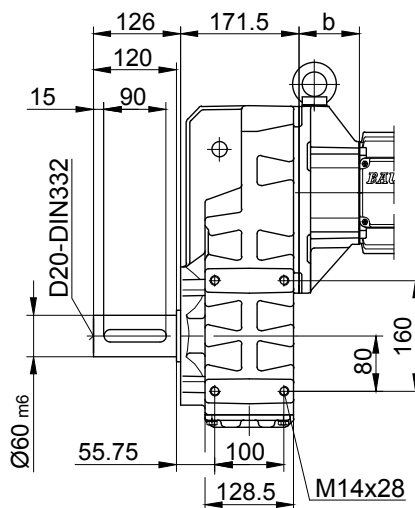


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF50..	Code -3./	300	265	230	20	13.5	201	4	96.5
BF50..	Code -2./	250	215	180	16	13.5	198	4	99.5

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -6.LR/



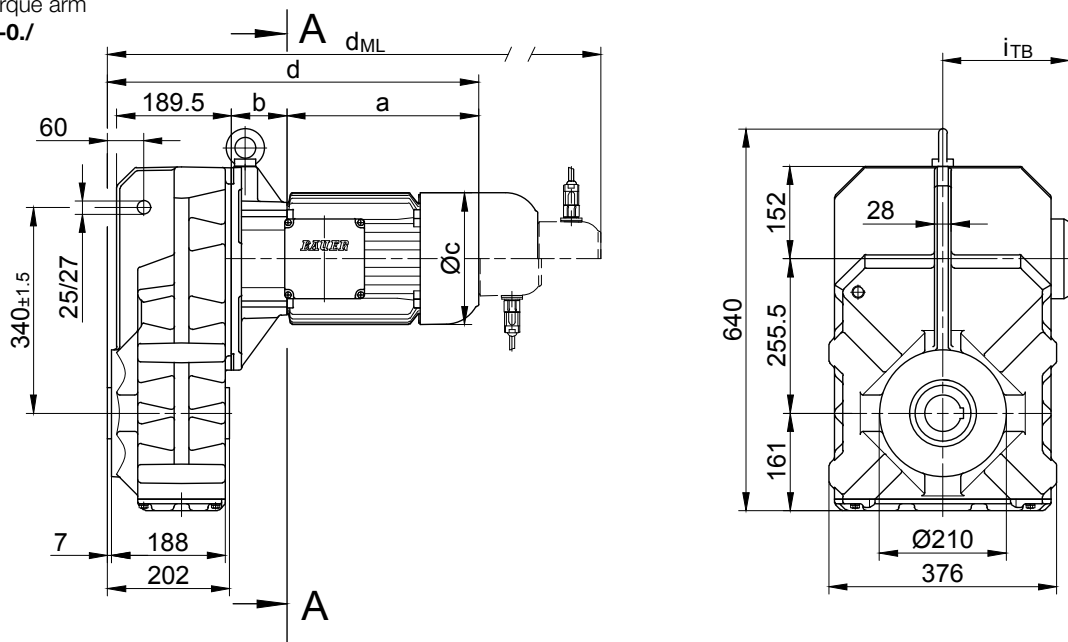
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

BF60 - BF60Z

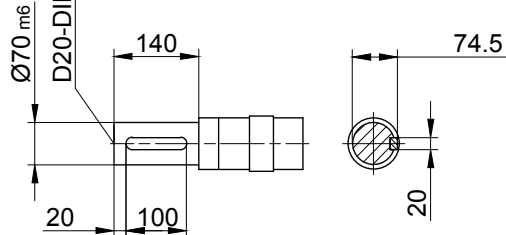
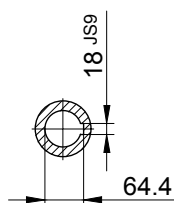
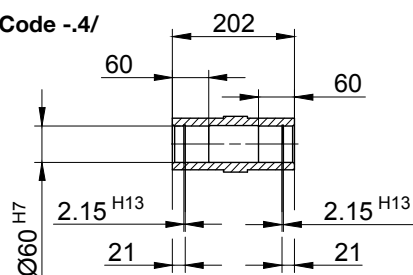
with torque arm

Code -0./

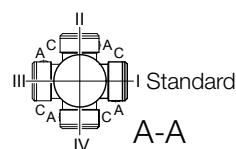
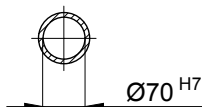
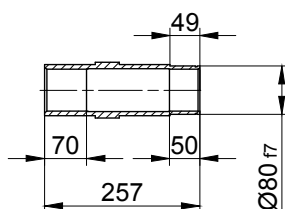


Code -.1/ 2

Code -.4/



Code -.5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF60Z-../D..08.A.	199.5	181	156	585.5	114.5	136.5	651.5	697.5	759	651.5
BF60Z-../D..08.B.	229.5	181	156	615.5	114.5	136.5	681.5	727.5	788.5	681.5
BF60-../D..09.A.	250.5	85.5	176	541	124	157	634	648.5	738	634
BF60Z-../D..09.A.	250.5	195.5	176	651	124	157	744	758.5	848	744
BF60-../D..09.B.	308.5	85.5	176	599	124	157	692	706	796	692
BF60Z-../D..09.B.	308.5	195.5	176	709	124	157	802	816	906	802
BF60-../D..11.A.	319	92	218	616	165	176	714	723.5	816	714
BF60Z-../D..11.A.	319	202	218	726	165	176	824	833.5	926	824
BF60-../D..11.B.	387	92	218	684	165	176	780	791.5	884	780
BF60Z-../D..11.B.	387	202	218	794	165	176	890	901.5	994	890
BF60-../D..13.A.	393	105	258	703	217	217	814	810	915	811
BF60-../D..16.B.	454.5	119	310	778.5	243	243	922	885.5	1025.5	922
BF60-../D..18.B.	542	141	348	888	288	288	1037.5	993.5	1141	1037.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

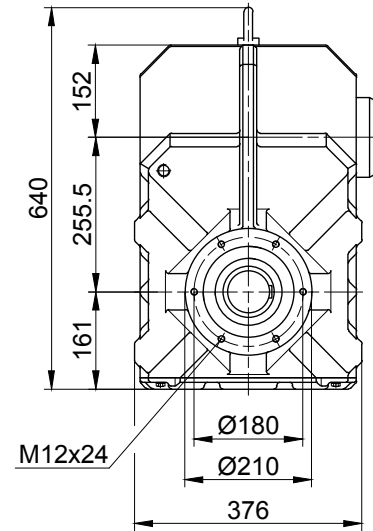
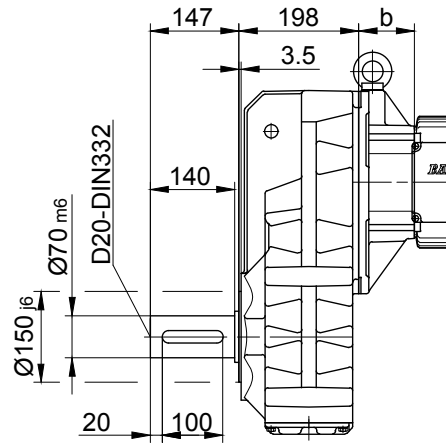
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF60 - BF60Z

Flange with tapped holes

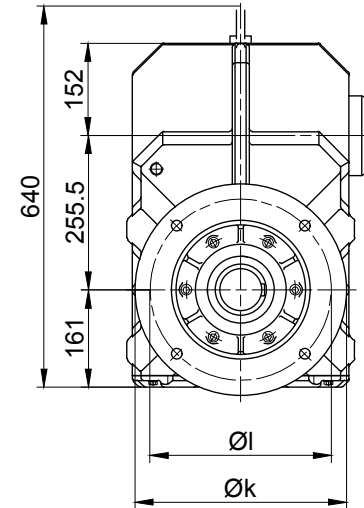
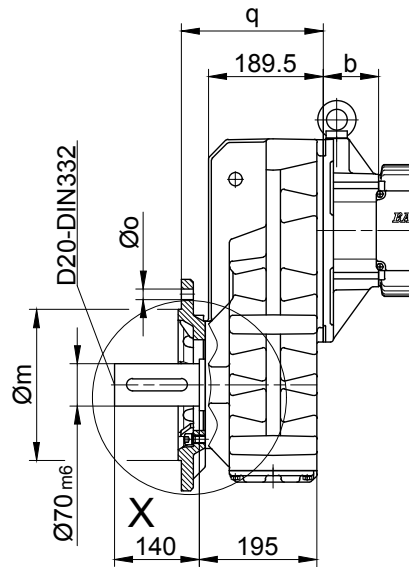
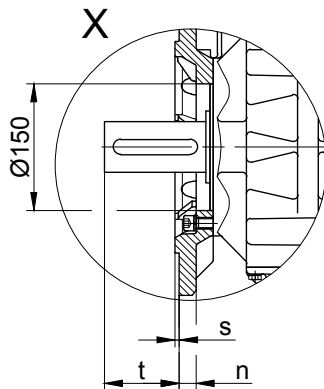
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

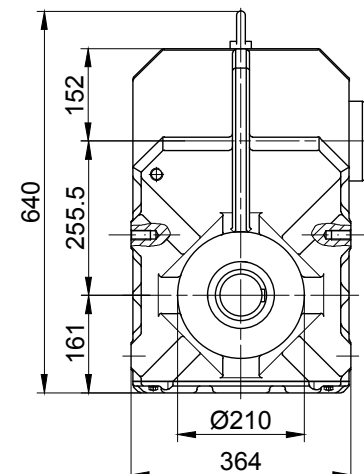
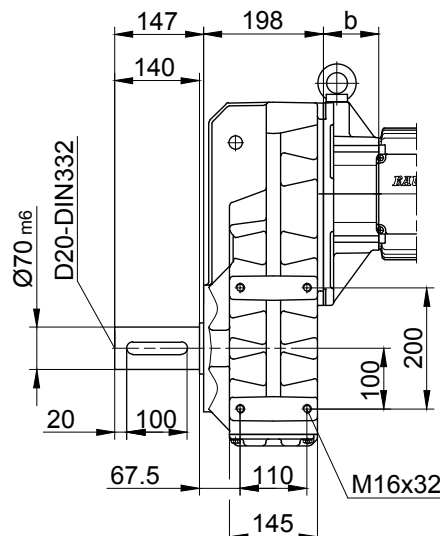


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF60..	Code -3./	350	300	250	20	17.5	234.5	5	110.5
BF60..	Code -2./	300	265	230	20	13.5	242.5	4	102.5

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

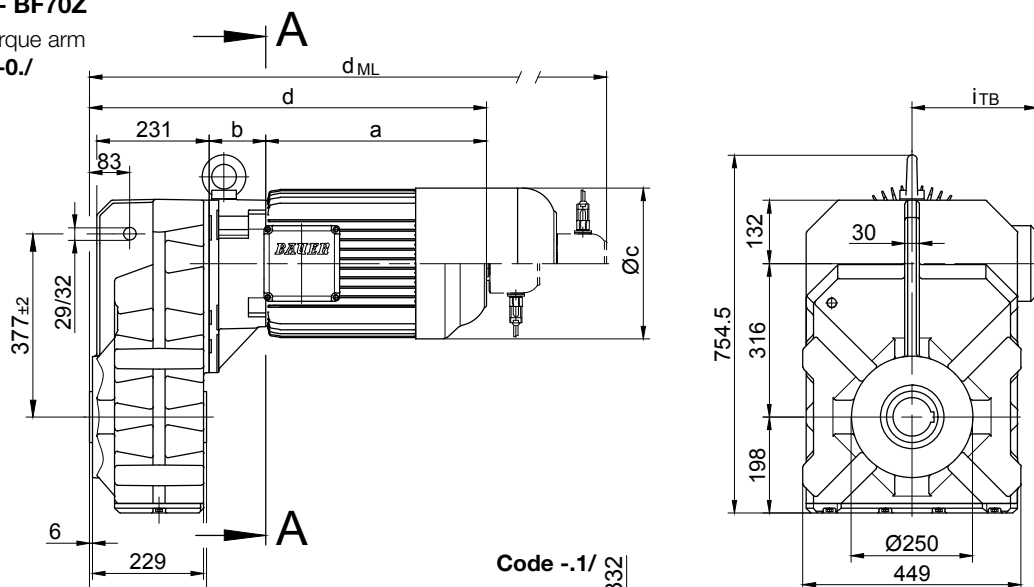
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF70 - BF70Z

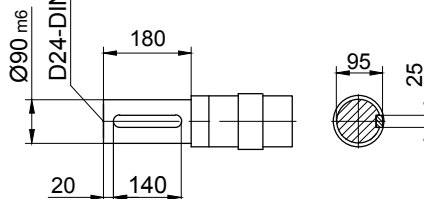
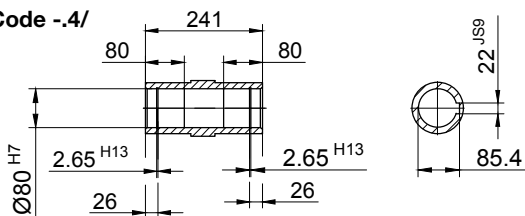
with torque arm

Code -0./

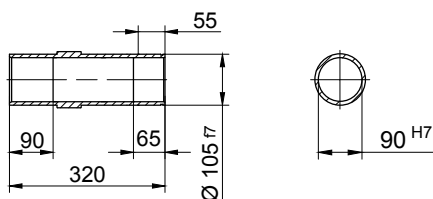


Code -1/

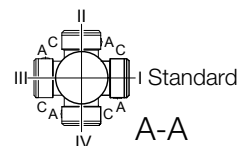
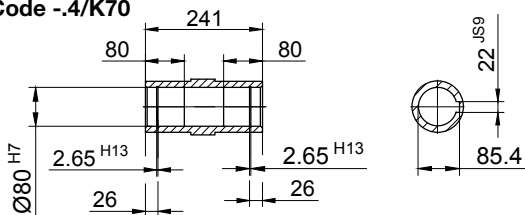
Code -4/



Code -5/



Code -4/K70



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF70Z-../D..08.A.	199.5	202	156	647.5	114.5	136.5	713.5	759.5	821	713.5
BF70Z-../D..08.B.	229.5	202	156	677.5	114.5	136.5	743.5	789.5	850.5	743.5
BF70-../D..09.A.	250.5	83.5	176	580	124	157	673	687.5	777	673
BF70Z-../D..09.A.	250.5	216.5	176	713	124	157	806	820.5	910	806
BF70-../D..09.B.	308.5	83.5	176	638	124	157	731	745	835	731
BF70Z-../D..09.B.	308.5	216.5	176	771	124	157	864	878	968	864
BF70-../D..11.A.	319	90	218	655	165	176	753	762.5	855	753
BF70Z-../D..11.A.	319	223	218	788	165	176	886	895.5	988	886
BF70-../D..11.B.	387	90	218	723	165	176	819	830.5	923	819
BF70Z-../D..11.B.	387	223	218	856	165	176	952	963.5	1056	952
BF70-../D..13.A.	393	103	258	742	217	217	853	849	954	850
BF70Z-../D..13.A.	393	236	258	875	217	217	986	982	1087	983
BF70-../D..16.B.	454.5	117	310	817.5	243	243	961	924.5	1064.5	961
BF70Z-../D..16.B.	454.5	250	310	950.5	243	243	1094	1057.5	1197.5	1094
BF70-../D..18.B.	542	139	348	927	288	288	1076.5	1032.5	1180	1076.5
BF70Z-../D..18.B.	542	272	348	1060	288	288	1209.5	1165.5	1313	1209.5
BF70-../D..20.A.	703.5	156	363	1105.5	302	302	1233	1211	1338.5	1105.5
BF70-../D..22.A.	703.5	156	363	1105.5	302	302	1233	1211	1338.5	1105.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

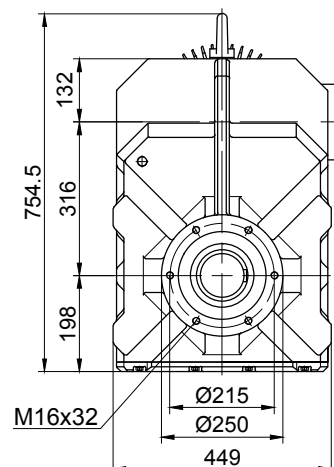
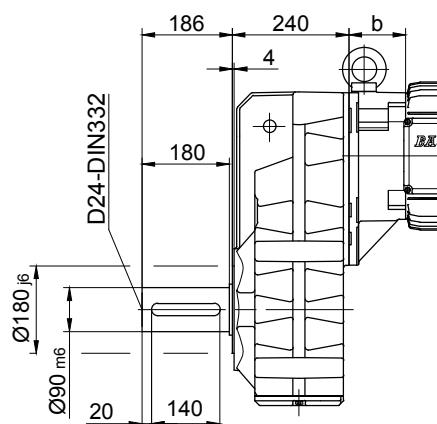
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF70 - BF70Z

Flange with tapped holes

Code -7./

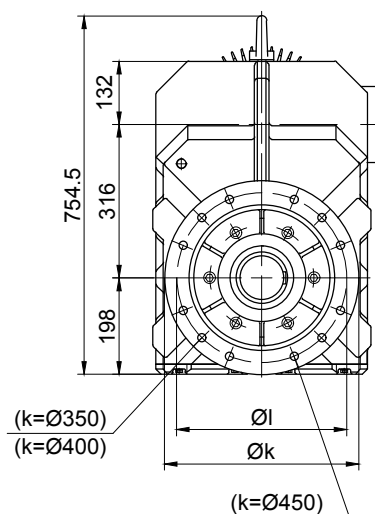
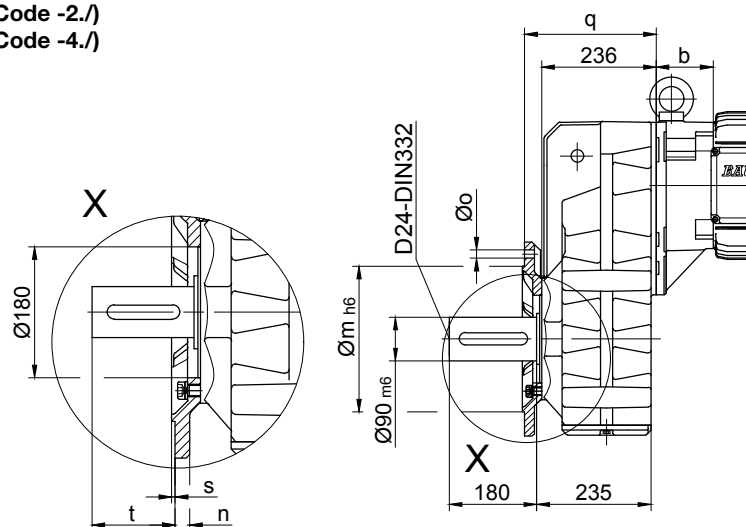


Flange with clearance holes

Code -3./

(Code -2./)

(Code -4./)

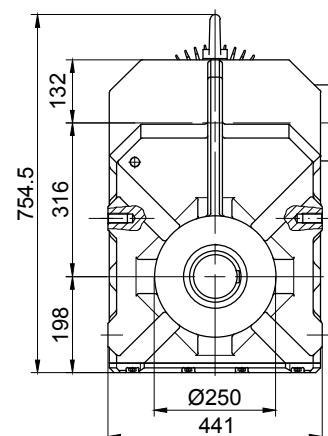
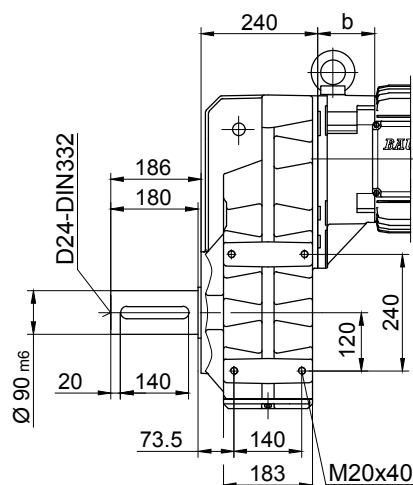


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF70..	Code -3./	400	350	300	20	-1	271	5	155
BF70..	Code -2./	350	300	250	20	-1	271	5	155
BF70..	Code -4./	450	400	350	22	-1	281	5	145

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

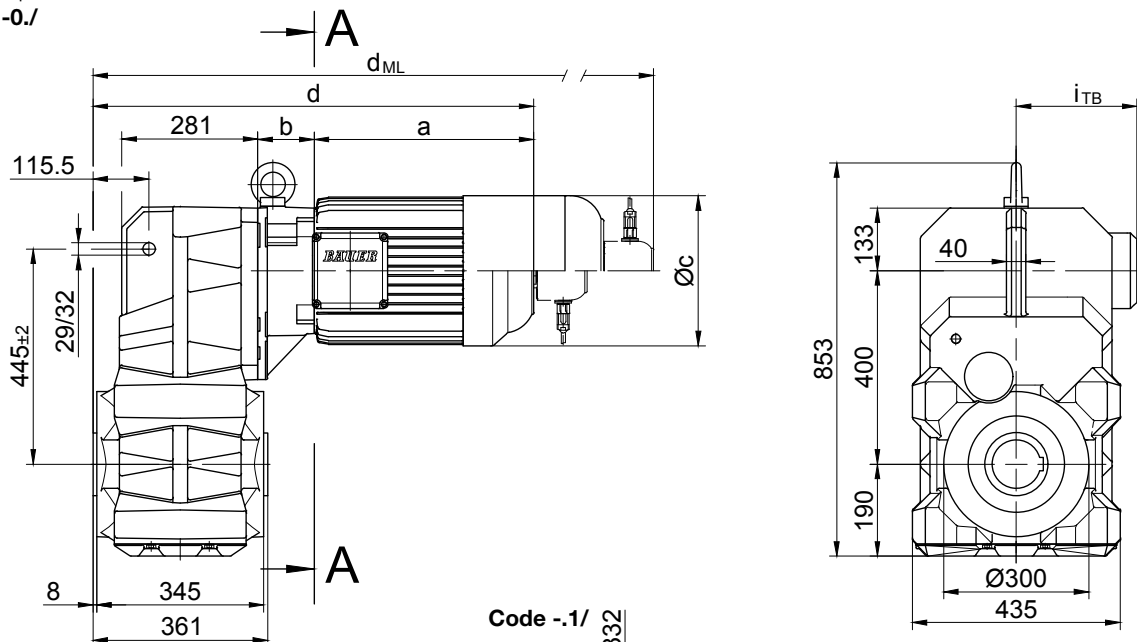
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF80 - BF80Z

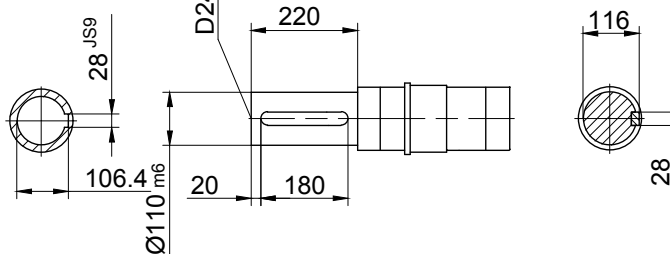
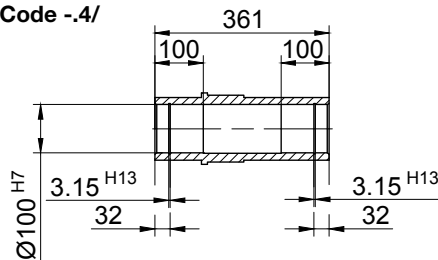
with torque arm

Code -0./

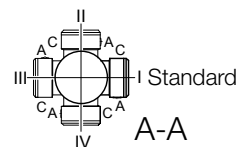
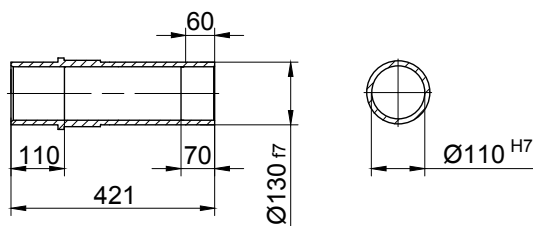


Code -1./

Code -4./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF80Z-../D..08.A.	199.5	202	156	742	114.5	136.5	808	854	915.5	808
BF80-../D..09.A.	250.5	83.5	176	674.5	124	157	767.5	782	871.5	767.5
BF80Z-../D..09.A.	250.5	216.5	176	807.5	124	157	900.5	915	1004.5	900.5
BF80-../D..09.B.	308.5	83.5	176	732.5	124	157	825.5	839.5	929.5	825.5
BF80Z-../D..09.B.	308.5	216.5	176	865.5	124	157	958.5	972.5	1062.5	958.5
BF80-../D..11.A.	319	90	218	749.5	165	176	847.5	857	949.5	847.5
BF80Z-../D..11.A.	319	223	218	882.5	165	176	980.5	990	1082.5	980.5
BF80-../D..11.B.	387	90	218	817.5	165	176	913.5	925	1017.5	913.5
BF80Z-../D..11.B.	387	223	218	950.5	165	176	1046.5	1058	1150.5	1046.5
BF80-../D..13.A.	393	103	258	836.5	217	217	947.5	943.5	1048.5	944.5
BF80Z-../D..13.A.	393	236	258	969.5	217	217	1080.5	1076.5	1181.5	1077.5
BF80-../D..16.B.	454.5	117	310	912	243	243	1055.5	1019	1159	1055.5
BF80Z-../D..16.B.	454.5	250	310	1045	243	243	1188.5	1152	1292	1188.5
BF80-../D..18.B.	542	139	348	1021.5	288	288	1171	1127	1274.5	1171
BF80Z-../D..18.B.	542	272	348	1154.5	288	288	1304	1260	1407.5	1304
BF80-../D..20.A.	703.5	156	363	1200	302	302	1327.5	1305.5	1433	1200
BF80Z-../D..22.A.	703.5	156	363	1200	302	302	1327.5	1305.5	1433	1200

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

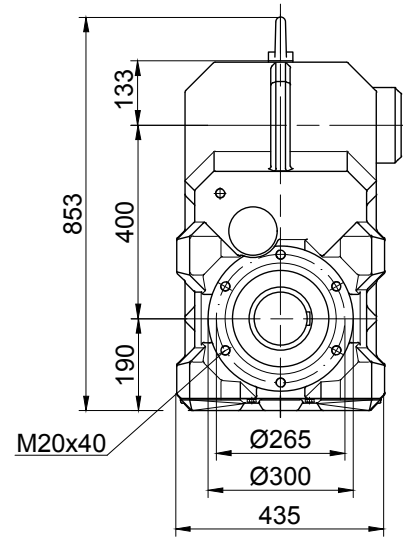
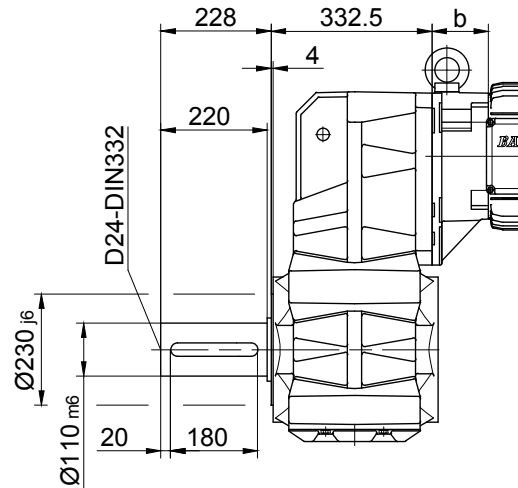
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF80 - BF80Z

Flange with tapped holes

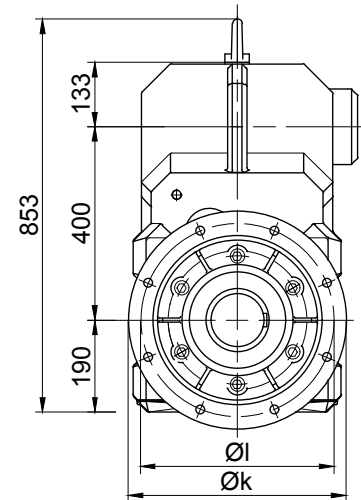
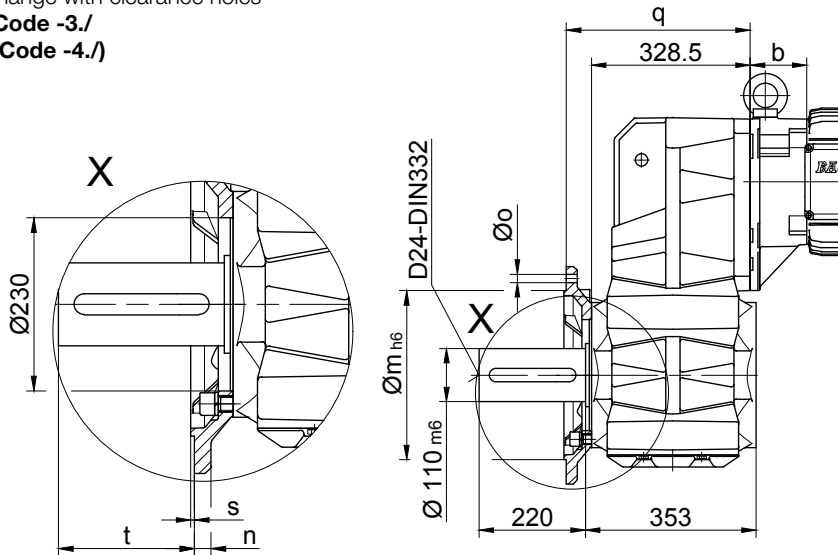
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

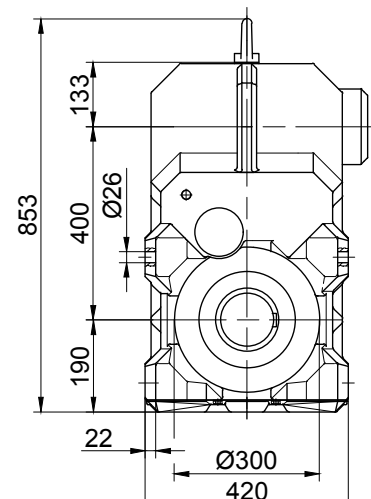
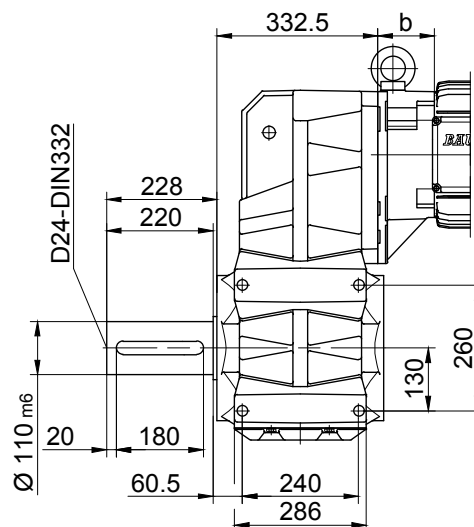


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF80..	Code -3./	450	400	350	22	17.5	383.5	5	177
BF80..	Code -4./	550	500	450	22	17.5	388.5	5	172

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

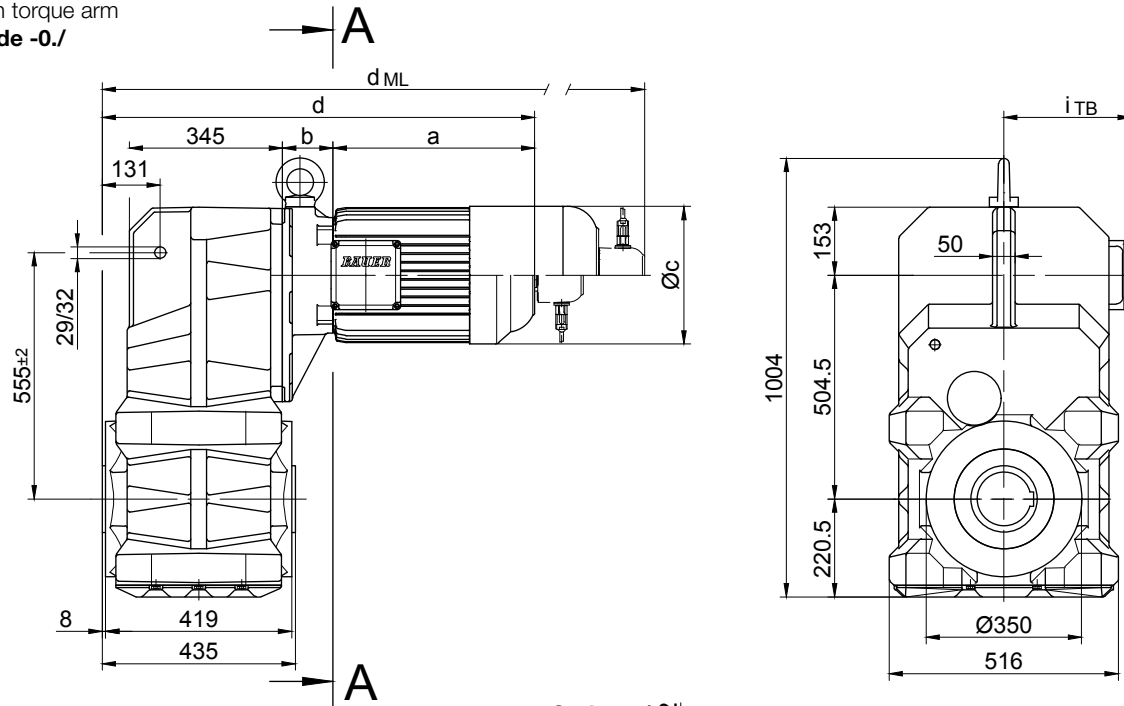
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF90 - BF90Z

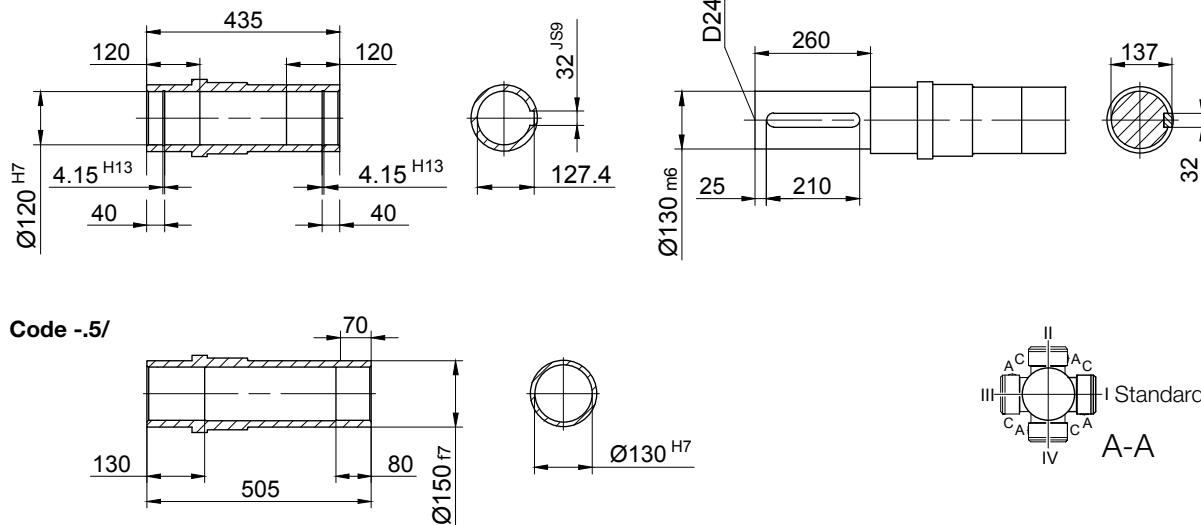
with torque arm

Code -0./

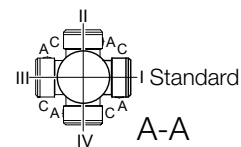


Code -4./

Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF90Z-../D..09.A.	250.5	252.5	176	909	124	157	1002	1016.5	1106	1002
BF90Z-../D..09.B.	308.5	252.5	176	967	124	157	1060	1074	1164	1060
BF90-../D..11.A.	319	87	218	812	165	176	910	919.5	1012	910
BF90Z-../D..11.A.	319	259	218	984	165	176	1082	1091.5	1184	1082
BF90-../D..11.B.	387	87	218	880	165	176	976	987.5	1080	976
BF90Z-../D..11.B.	387	259	218	1052	165	176	1148	1159.5	1252	1148
BF90-../D..13.A.	393	100	258	899	217	217	1010	1006	1111	1007
BF90Z-../D..13.A.	393	272	258	1071	217	217	1182	1178	1283	1179
BF90-../D..16.B.	454.5	114	310	974.5	243	243	1118	1081.5	1221.5	1118
BF90Z-../D..16.B.	454.5	286	310	1146.5	243	243	1290	1253.5	1393.5	1290
BF90-../D..18.B.	542	136	348	1084	288	288	1233.5	1189.5	1337	1233.5
BF90Z-../D..18.B.	542	308	348	1256	288	288	1405.5	1361.5	1509	1405.5
BF90-../D..20.A.	703.5	153	363	1262.5	302	302	1390	1368	1495.5	1262.5
BF90Z-../D..22.A.	703.5	153	363	1262.5	302	302	1390	1368	1495.5	1262.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

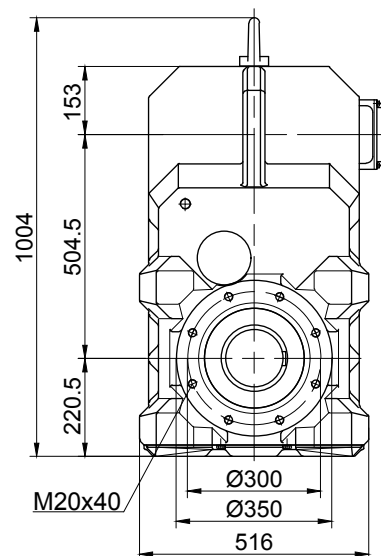
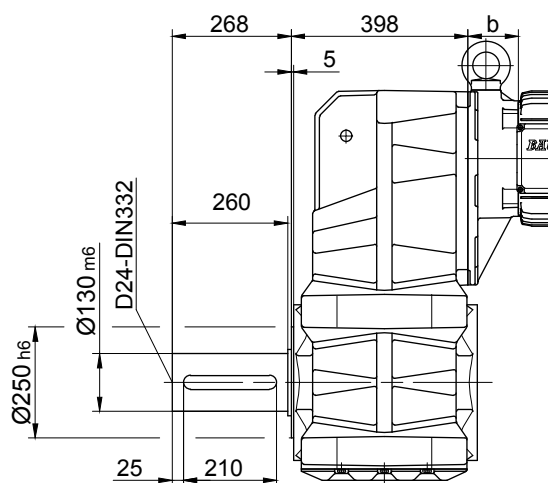
BF-series shaft-mounted geared motors

Dimension - Standard Metric

BF90 - BF90Z

Flange with tapped holes

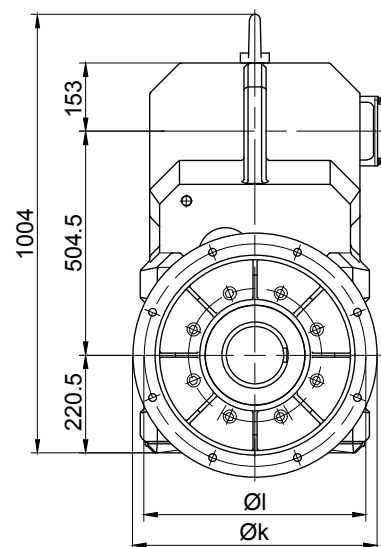
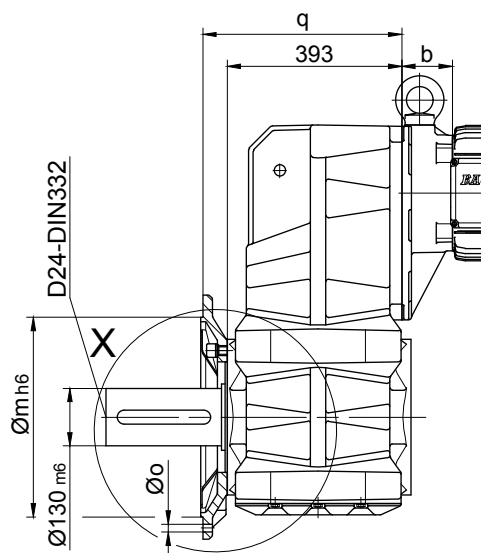
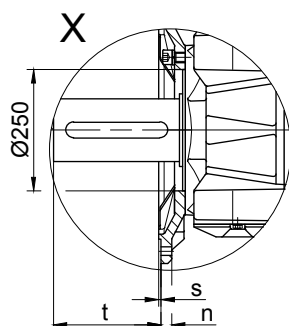
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)



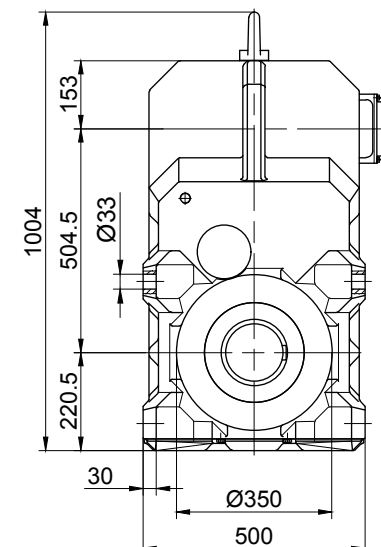
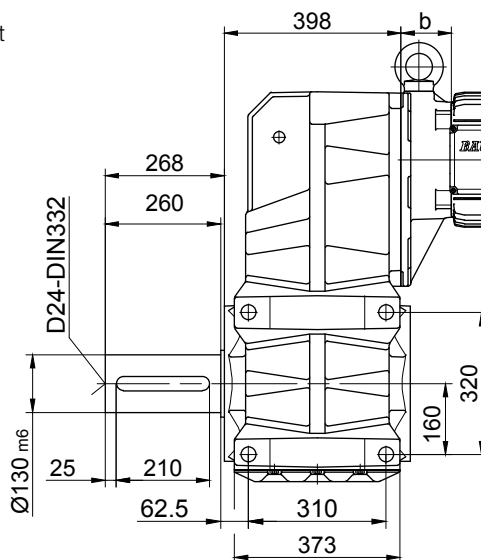
Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t
BF90..	Code -3./	550	500	450	22	17.5	448	5	218
BF90..	Code -4./	660	600	550	25	22	442	6	224

Dimensions in millimetres (mm)

Foot with tapped holes left and right

Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

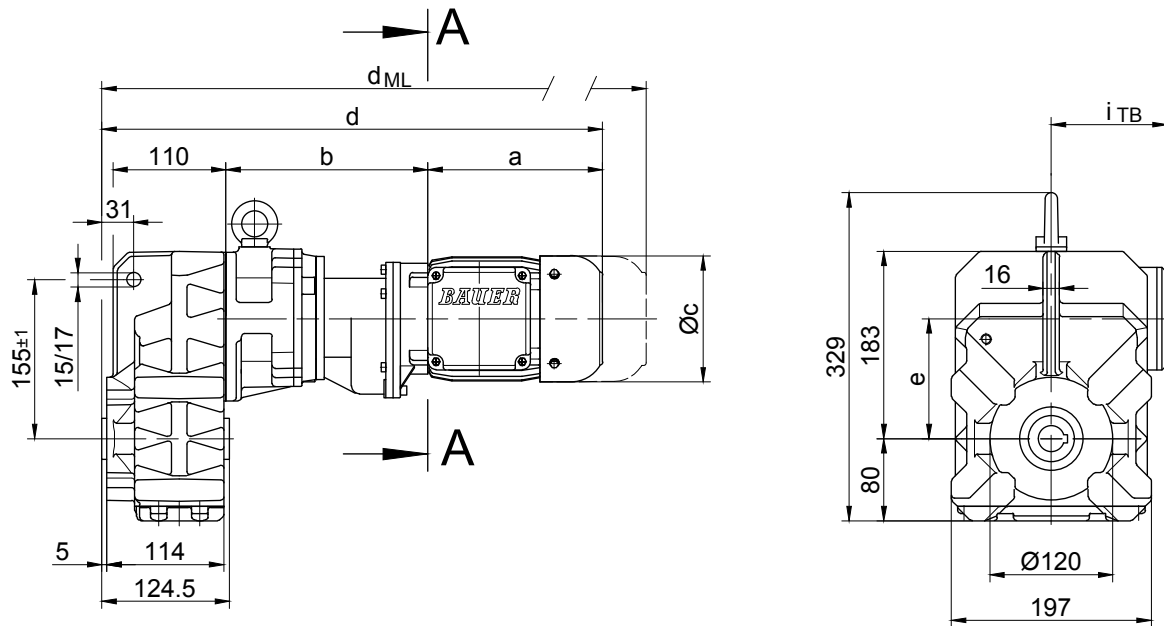
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

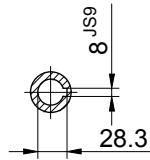
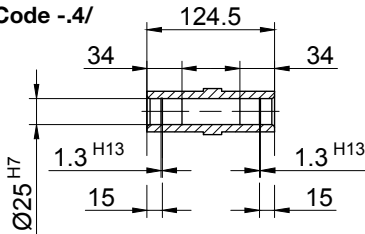
BF10G06

with torque arm

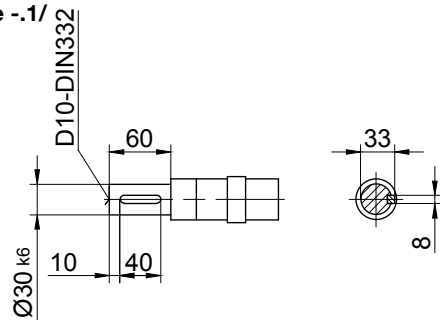
Code -0./



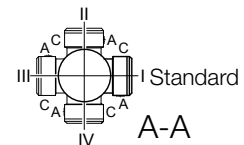
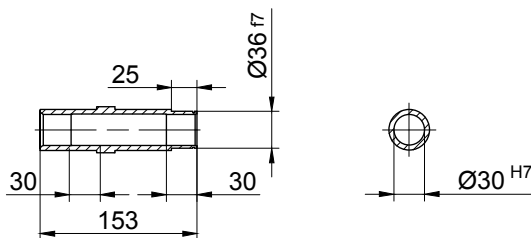
Code -4./



Code -1./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF10G06-../D04.A.	142.5	195	110.5	458.5	90	112	502	546	589.5	-
BF10G06-../D..05.A.	170.5	197	123	488.5	101	117	530.5	591	628.5	-
BF10G06-../D..06.A.	170.5	197	123	488.5	99	119	530.5	591	628.5	-
BF10G06-../D..07.A.	190.5	197	123	508.5	99	119	550.5	611	648.5	-
BF10G06-../D..08.A.	199.5	241	156	561.5	114.5	136.5	627.5	673.5	735	627.5
BF10G06-../D..08.B.	229.5	241	156	591.5	114.5	136.5	657.5	703.5	764.5	657.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

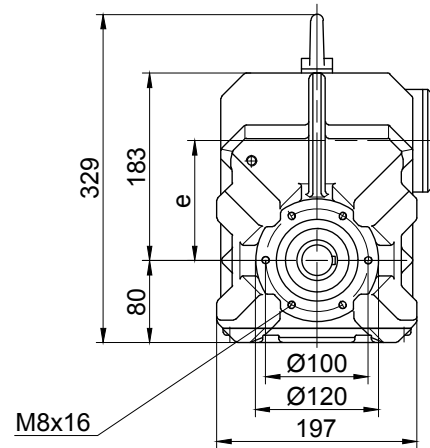
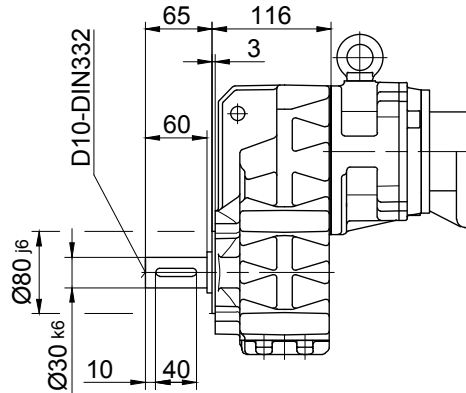
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF10G06

Flange with tapped holes

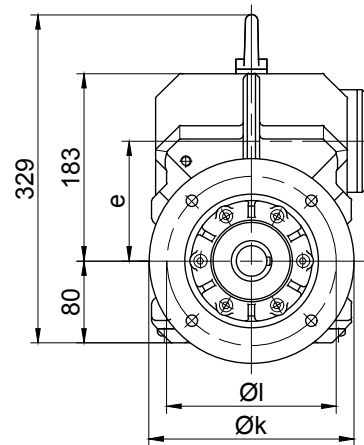
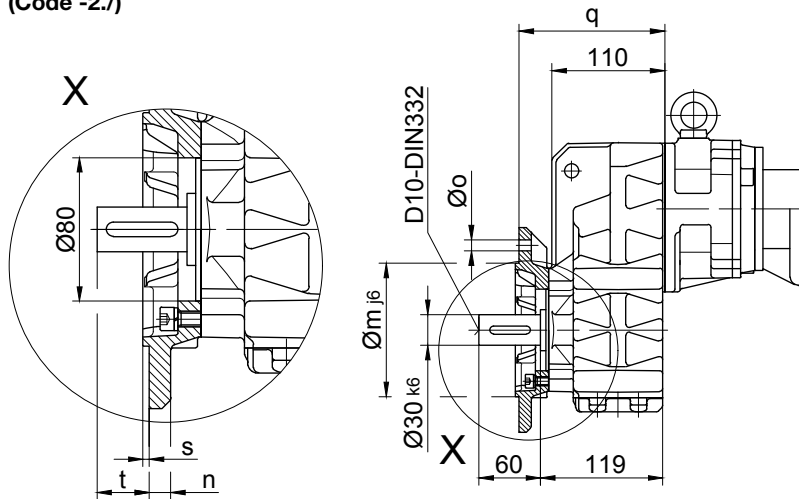
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

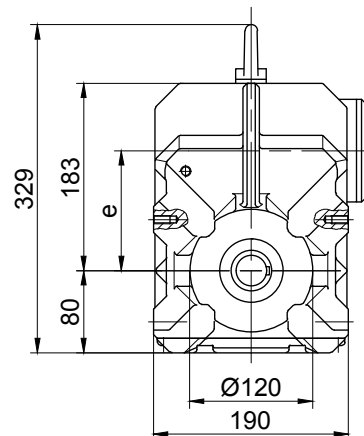
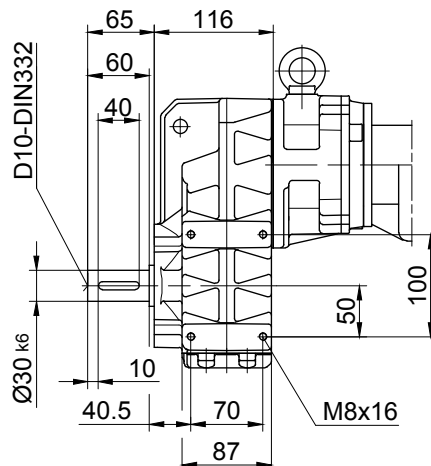


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF10..	Code -3./	200	165	130	12	11	142	3.5	39
BF10..	Code -2./	160	130	110	10	9	135	3.5	46

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

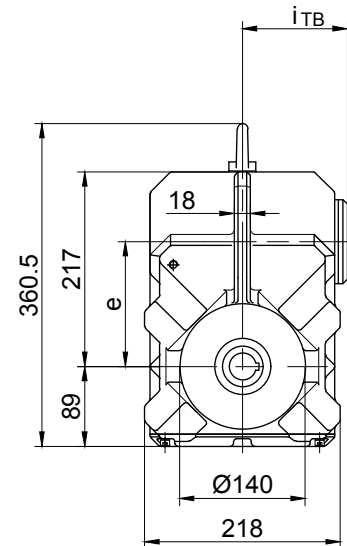
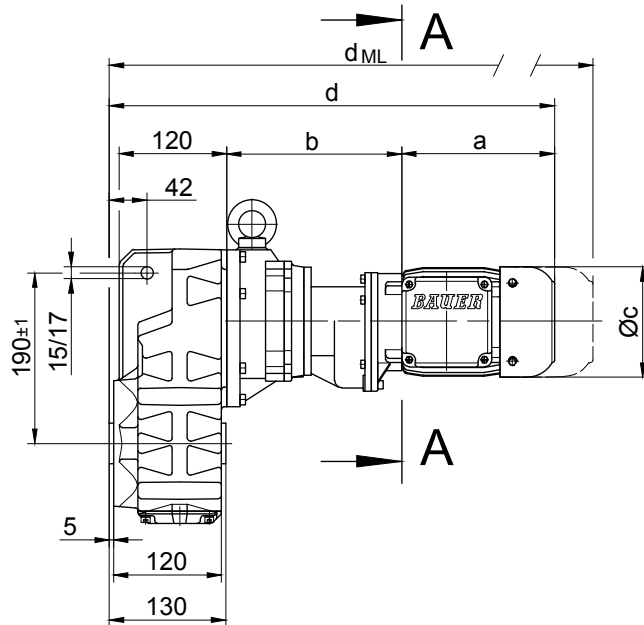
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

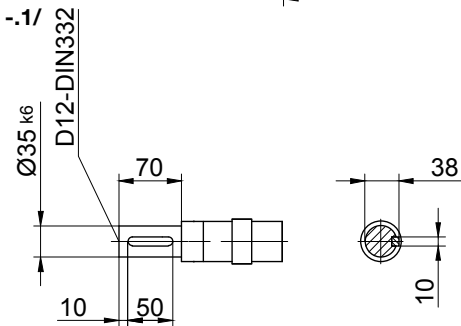
BF20G06

with torque arm

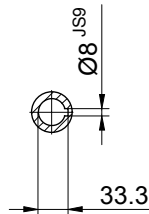
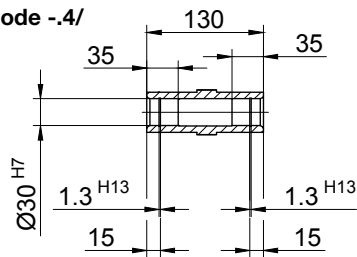
Code -0./



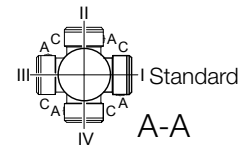
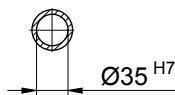
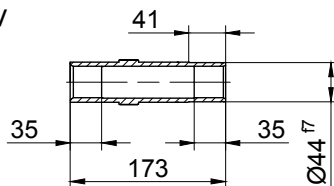
Code -1/



Code -4/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						iT _B	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF20G06-../D04.A.	142.5	193	110.5	466.5	90	112	510	554	597.5	-
BF20G06-../D..05.A.	170.5	195	123	496.5	101	117	538.5	599	636.5	-
BF20G06-../D..06.A.	170.5	195	123	496.5	99	119	538.5	599	636.5	-
BF20G06-../D..07.A.	190.5	195	123	516.5	99	119	558.5	619	656.5	-
BF20G06-../D..08.A.	199.5	239	156	569.5	114.5	136.5	635.5	681.5	743	635.5
BF20G06-../D..08.B.	229.5	239	156	599.5	114.5	136.5	665.5	711.5	772.5	665.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

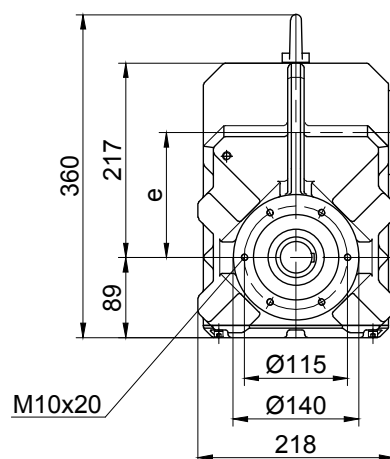
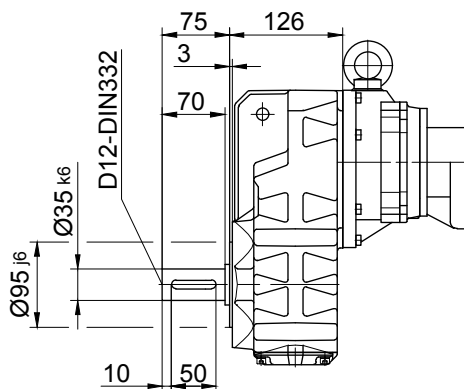
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF20G06

Flange with tapped holes

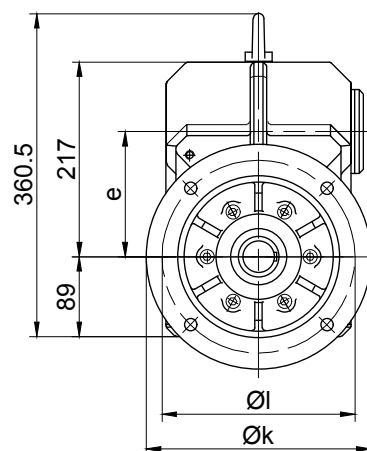
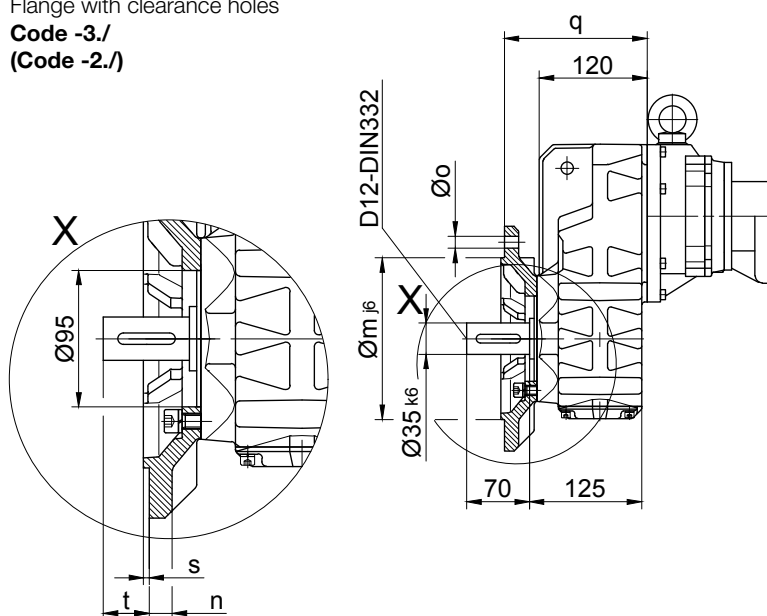
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

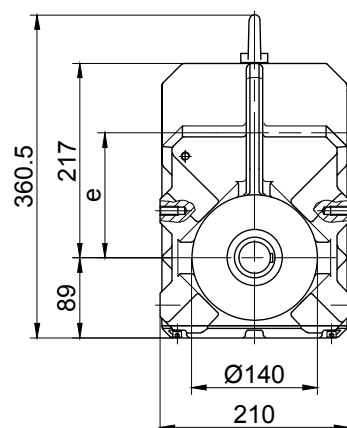
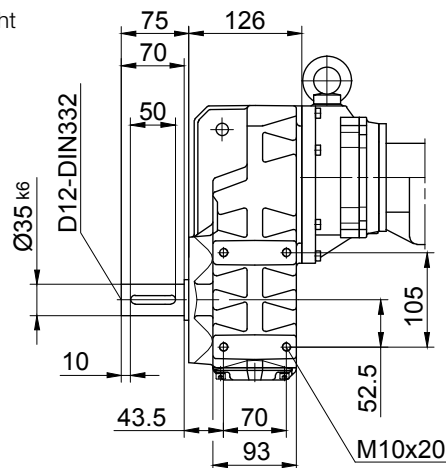


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF20..	Code -3./	250	215	180	16	13.5	159	4	42
BF20..	Code -2./	200	165	130	12	11	150	3.5	51

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

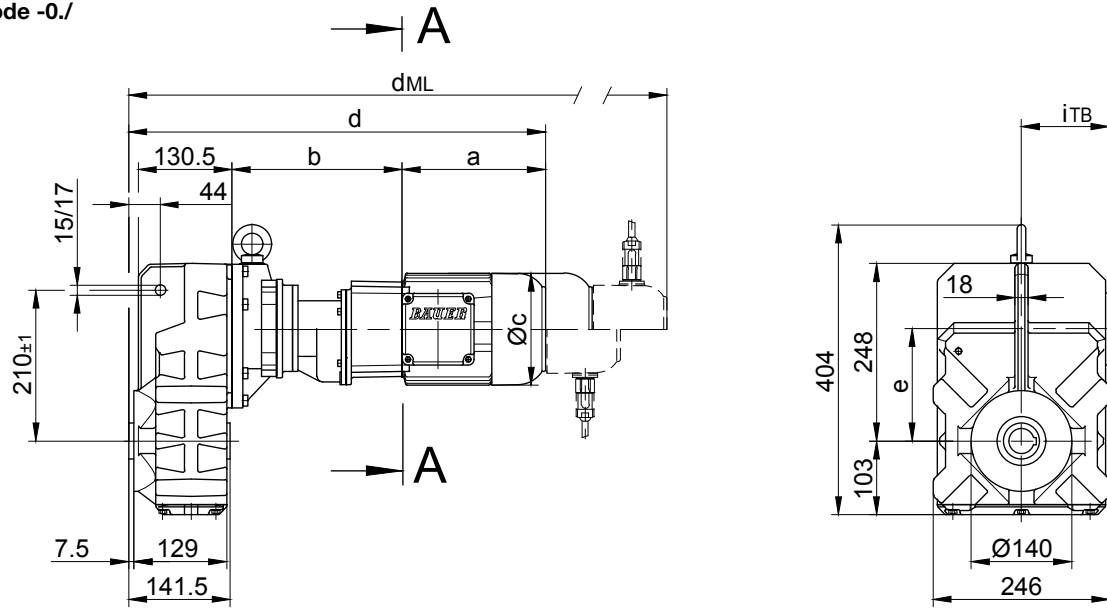
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

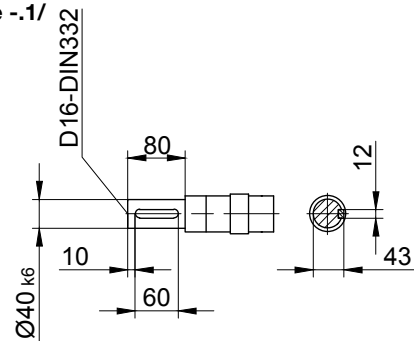
BF30G06

with torque arm

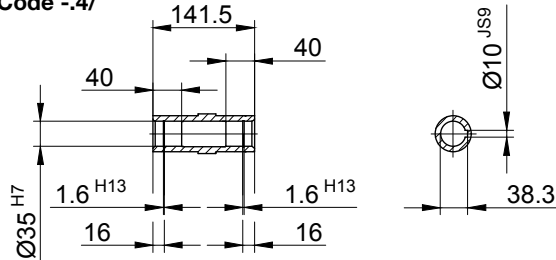
Code -0./



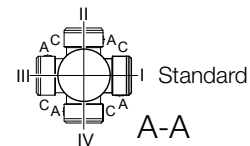
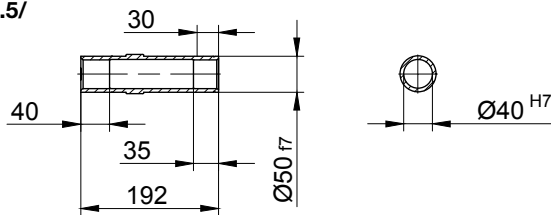
Code -.1/



Code -.4/



Code -.5/



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BF30G06-../D04.A.	142.5	191	110.5	477.5	90	112	521	565	608.5	-
BF30G06-../D..05.A.	170.5	193	123	507.5	101	117	549.5	610	647.5	-
BF30G06-../D..06.A.	170.5	193	123	507.5	99	119	549.5	610	647.5	-
BF30G06-../D..07.A.	190.5	193	123	527.5	99	119	569.5	630	667.5	-
BF30G06-../D..08.A.	199.5	237	156	580.5	114.5	136.5	646.5	692.5	754	646.5
BF30G06-../D..08.B.	229.5	237	156	610.5	114.5	136.5	676.5	722.5	783.5	676.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

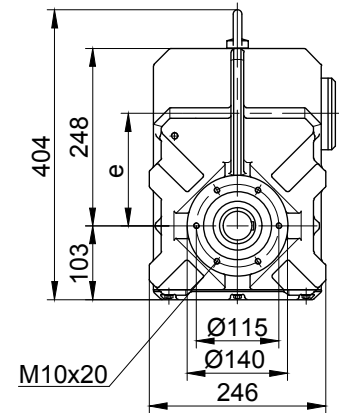
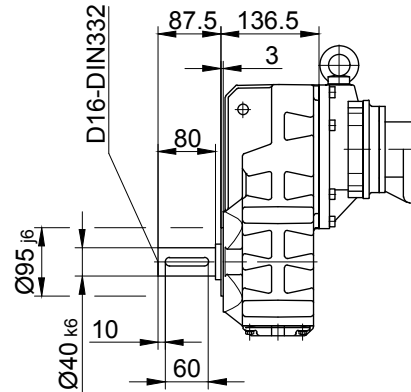
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF30G06

Flange with tapped holes

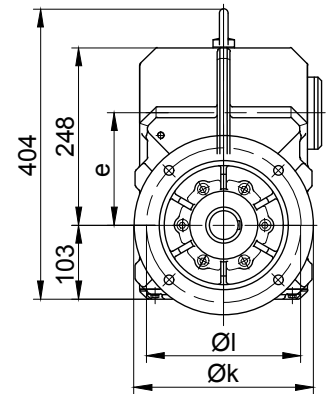
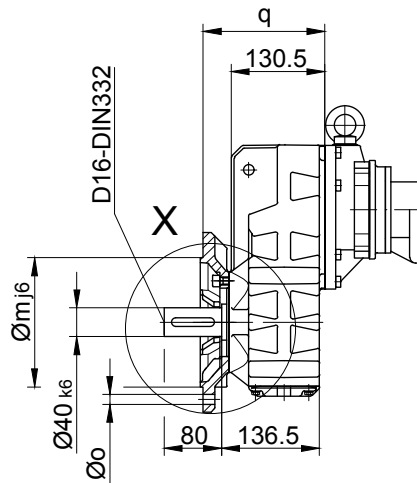
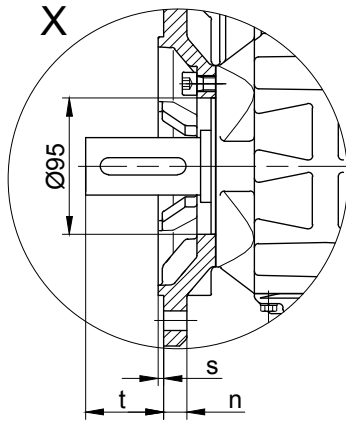
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

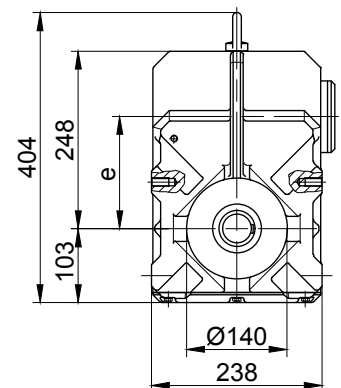
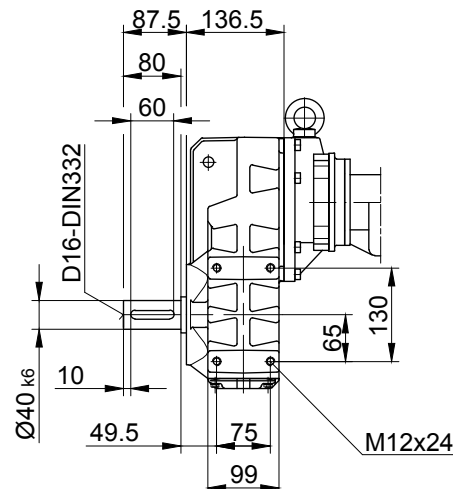


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF30..	Code -3./	250	215	180	16	13.5	169.5	4	54.5
BF30..	Code -2./	200	165	130	12	11	160.5	3.5	63.5

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

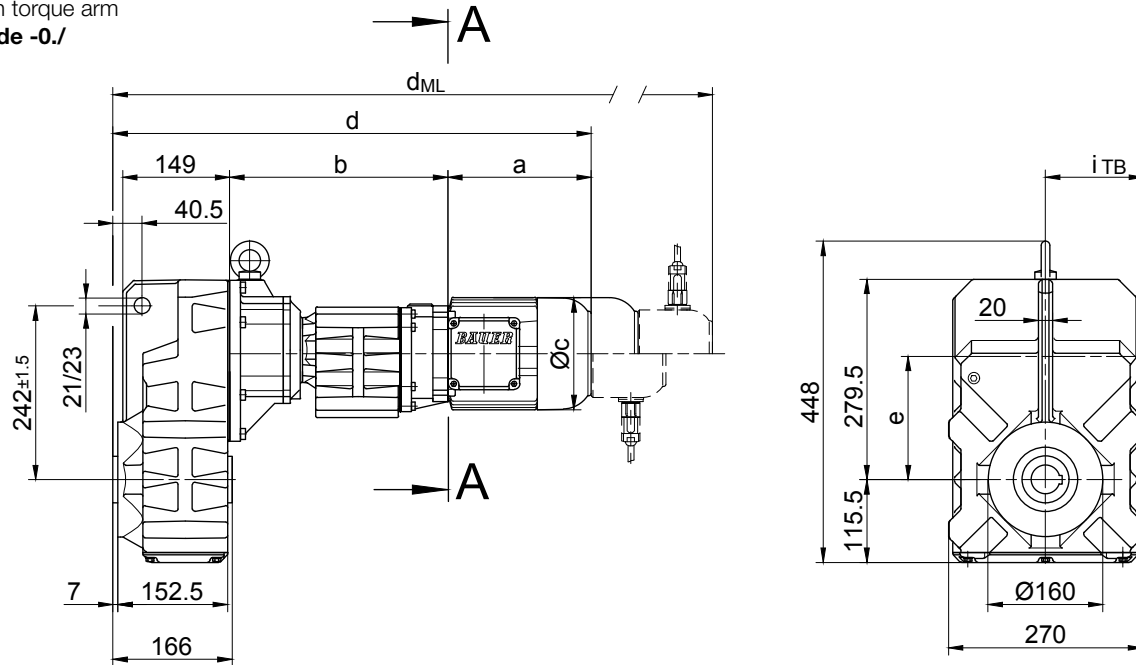
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

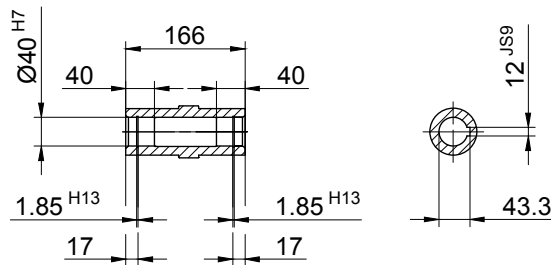
BF40G10

with torque arm

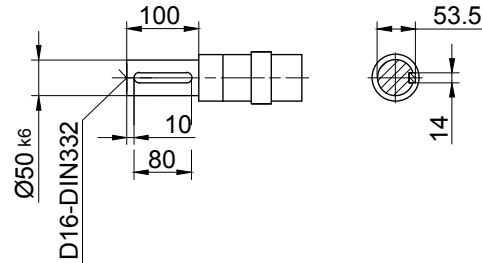
Code -0./



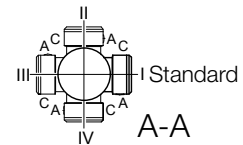
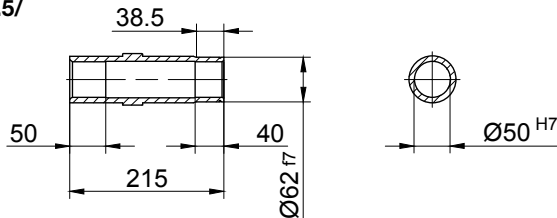
Code -4/



Code -1/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF40G10-../D..05.A.	170.5	300	123	633	101	117	675	735.5	773	-
BF40G10-../D..06.A.	170.5	300	123	633	99	119	675	735.5	773	-
BF40G10-../D..07.A.	190.5	300	123	653	99	119	695	755.5	793	-
BF40G10-../D..08.A.	199.5	304	156	666	114.5	136.5	732	778	839.5	732
BF40G10-../D..08.B.	229.5	304	156	696	114.5	136.5	762	808	869	762
BF40G10-../D..09.A.	250.5	318.5	176	731.5	124	157	824.5	839	928.5	824.5
BF40G10-../D..09.B.	308.5	318.5	176	789.5	124	157	882.5	896.5	986.5	882.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

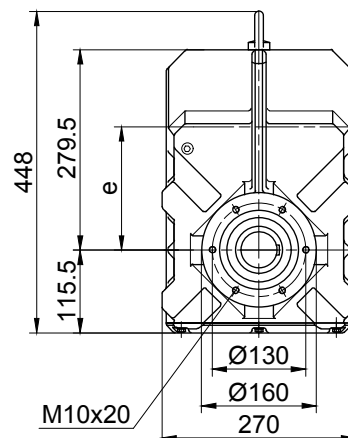
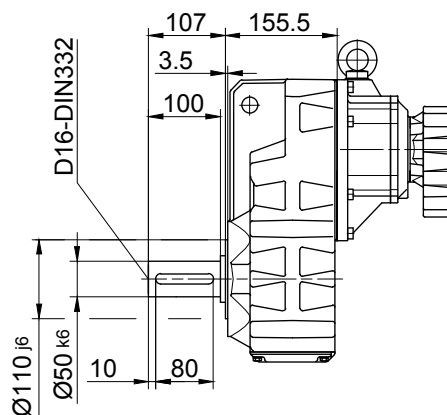
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF40G10

Flange with tapped holes

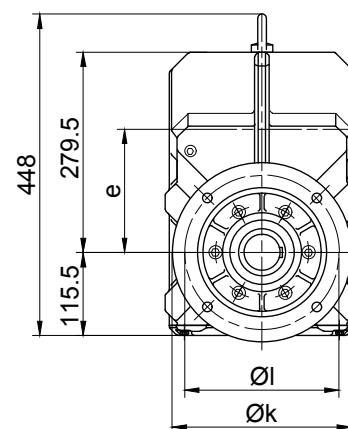
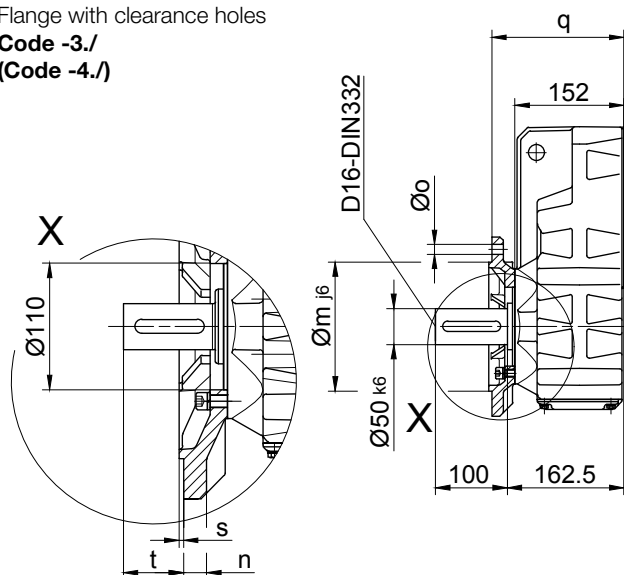
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

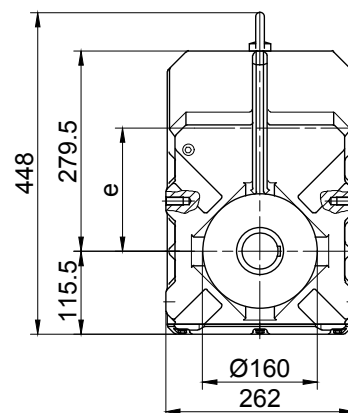
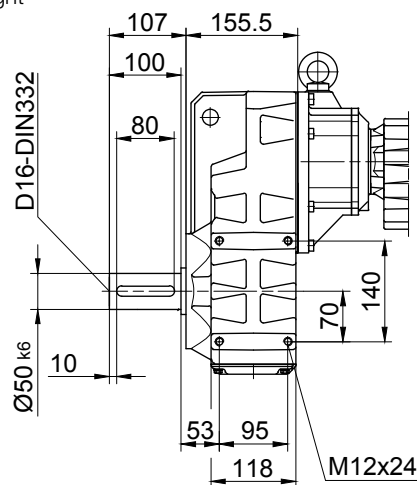


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF40..	Code -3./	250	215	180	16	13.5	184	4	78.5
BF40..	Code -4./	300	265	230	20	13.5	190	4	72.5

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -6.LR/



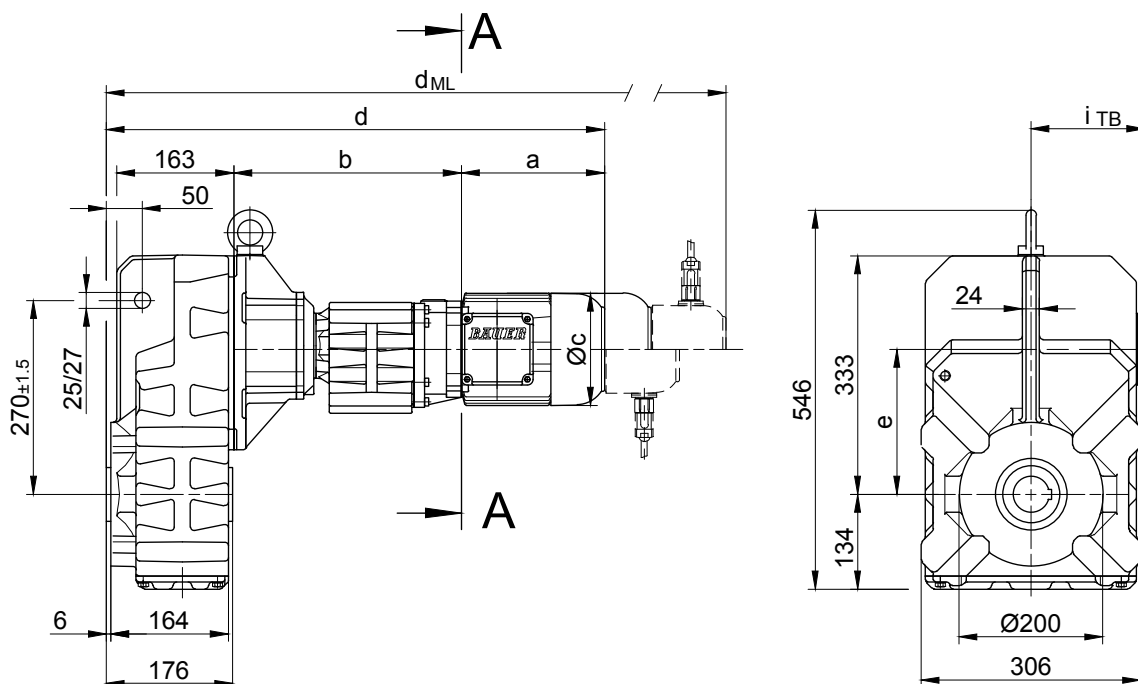
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Tandem Gearbox Metric

BF50G10

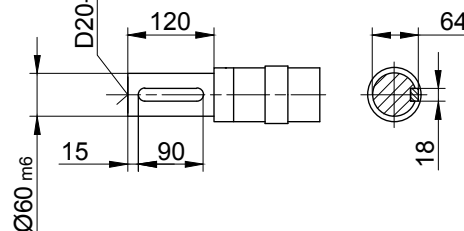
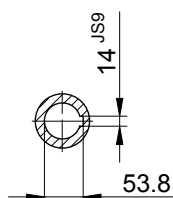
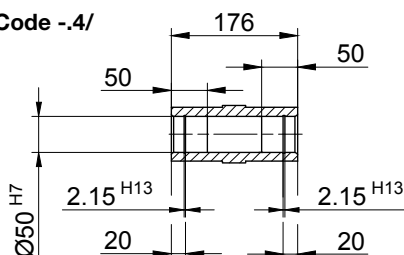
with torque arm

Code -0./

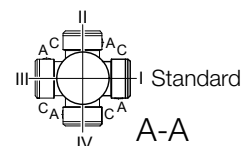
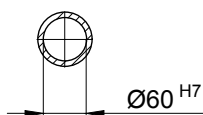
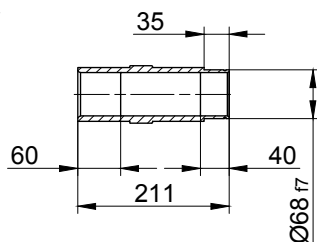


Code -.1/ 32

Code -.4/



Code -.5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF50G10-../D..05.A.	170.5	313	123	661	101	117	703	763.5	801	-
BF50G10-../D..06.A.	170.5	313	123	661	99	119	703	763.5	801	-
BF50G10-../D..07.A.	190.5	313	123	681	99	119	723	783.5	821	-
BF50G10-../D..08.A.	199.5	317	156	694	114.5	136.5	760	806	867.5	760
BF50G10-../D..08.B.	229.5	317	156	724	114.5	136.5	790	836	897	790
BF50G10-../D..09.A.	250.5	331.5	176	759.5	124	157	852.5	867	956.5	852.5
BF50G10-../D..09.B.	308.5	331.5	176	817.5	124	157	910.5	924.5	1014.5	910.5

Dimensions in millimetres (mm)

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

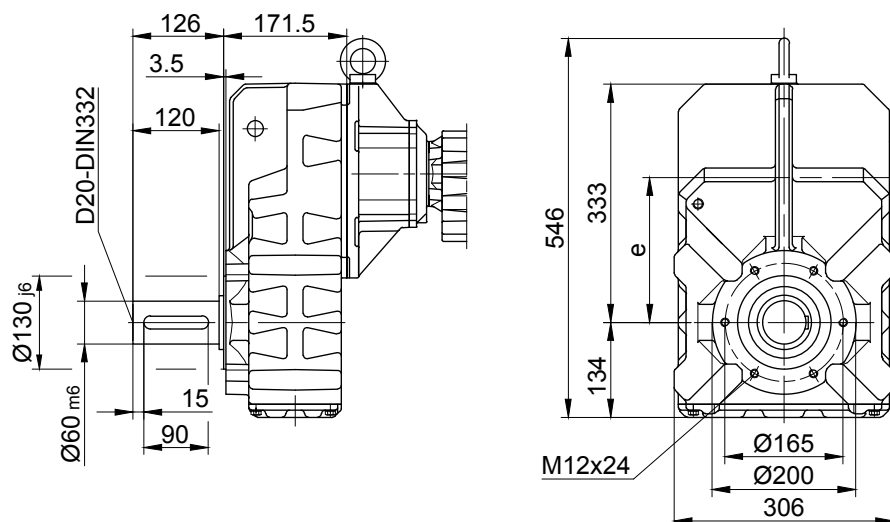
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF50G10

Flange with tapped holes

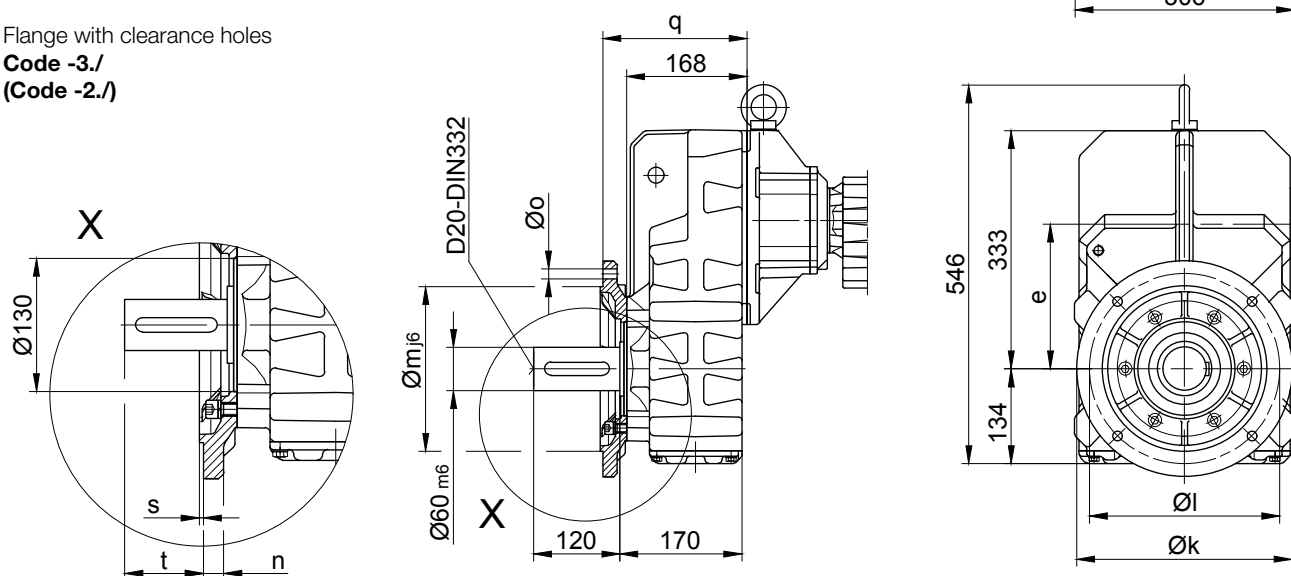
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)

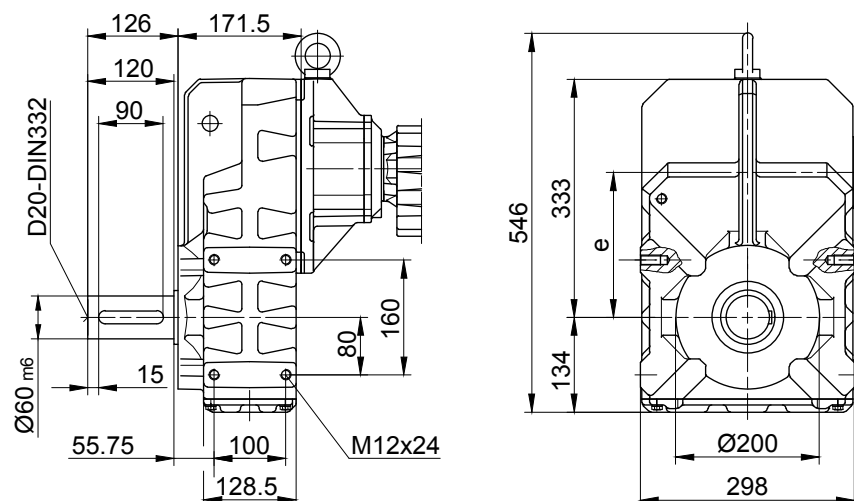


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF50..	Code -3./	300	265	230	20	13.5	201	4	96.5
BF50..	Code -2./	250	215	180	16	13.5	198	4	99.5

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

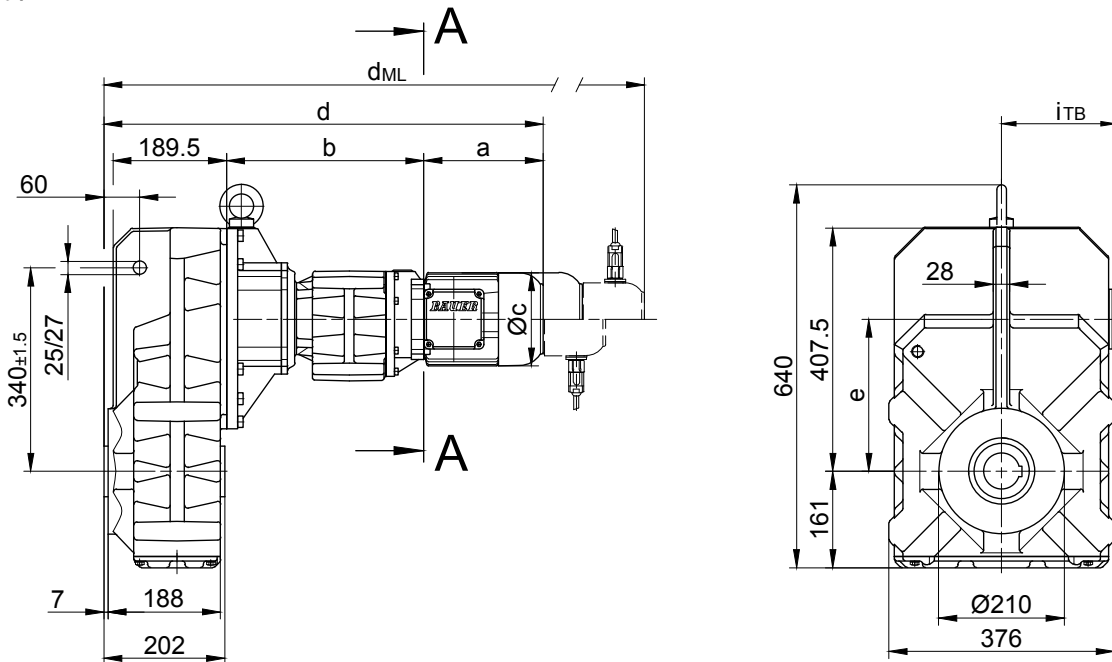
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF60G20

with torque arm

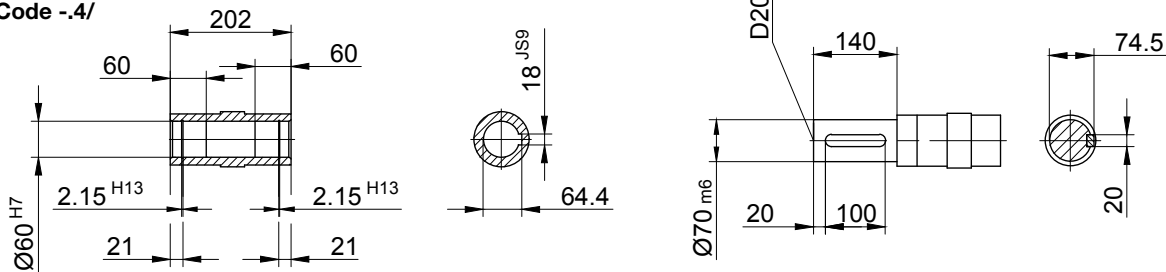
Code -0./



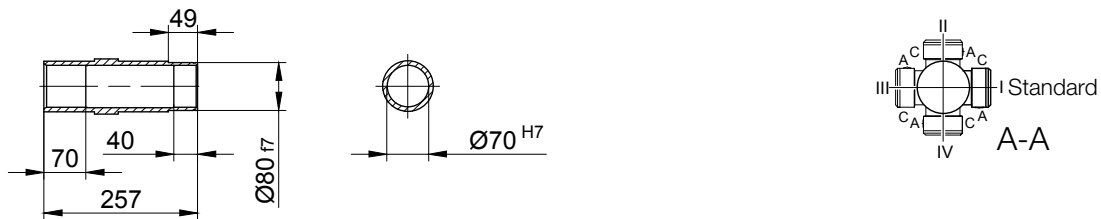
Code -1./

D20-DIN332

Code -4./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF60G20-../D..05.A.	170.5	326	123	701.5	101	117	743.5	804	841.5	-
BF60G20-../D..06.A.	170.5	326	123	701.5	99	119	743.5	804	841.5	-
BF60G20-../D..07.A.	190.5	326	123	721.5	99	119	763.5	824	861.5	-
BF60G20-../D..08.A.	199.5	330	156	734.5	114.5	136.5	800.5	846.5	908	800.5
BF60G20-../D..08.B.	229.5	330	156	764.5	114.5	136.5	830.5	876.5	937.5	830.5
BF60G20-../D..09.A.	250.5	344.5	176	800	124	157	893	907.5	997	893
BF60G20-../D..09.B.	308.5	344.5	176	858	124	157	951	965	1055	951

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

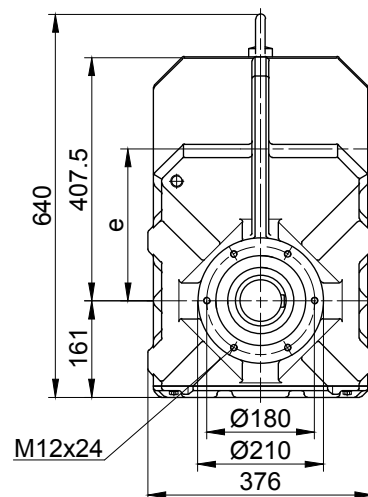
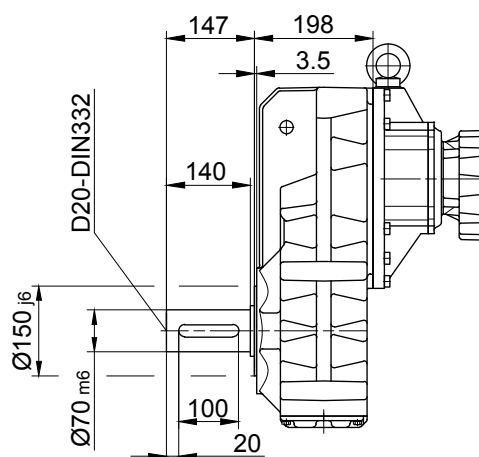
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF60G20

Flange with tapped holes

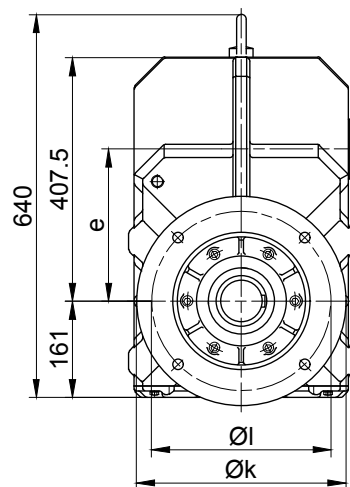
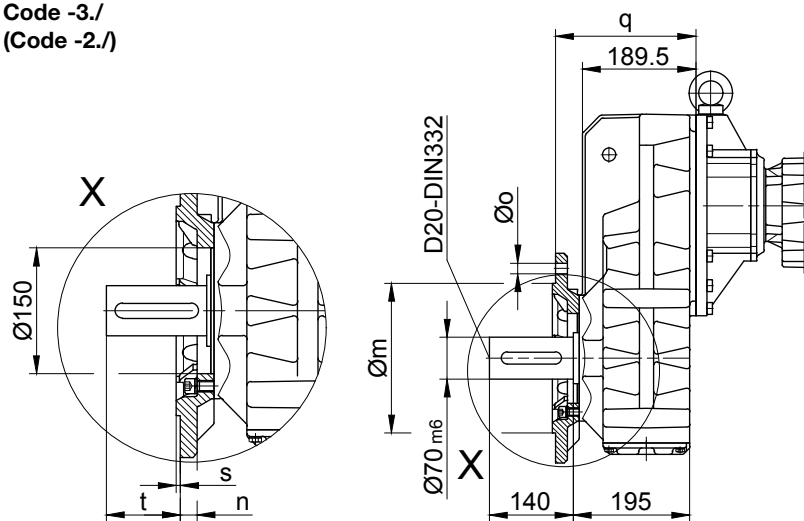
Code -7./



Flange with clearance holes

Code -3./

(Code -2./)



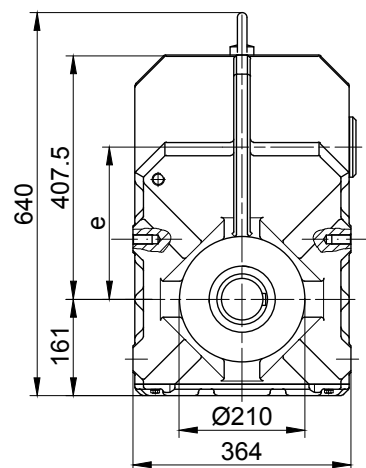
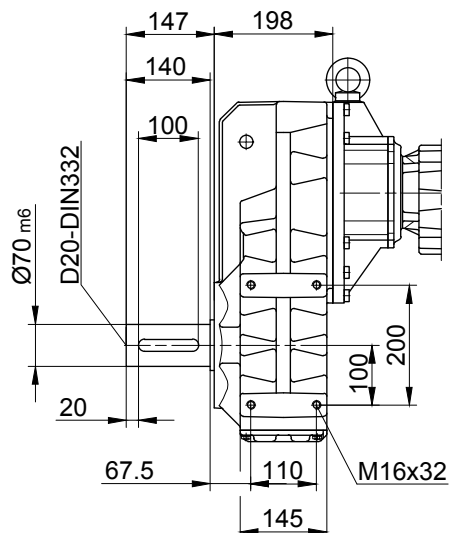
Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t
BF60..	Code -3./	350	300	250	20	17.5	234.5	5	110.5
BF60..	Code -2./	300	265	230	20	13.5	242.5	4	102.5

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

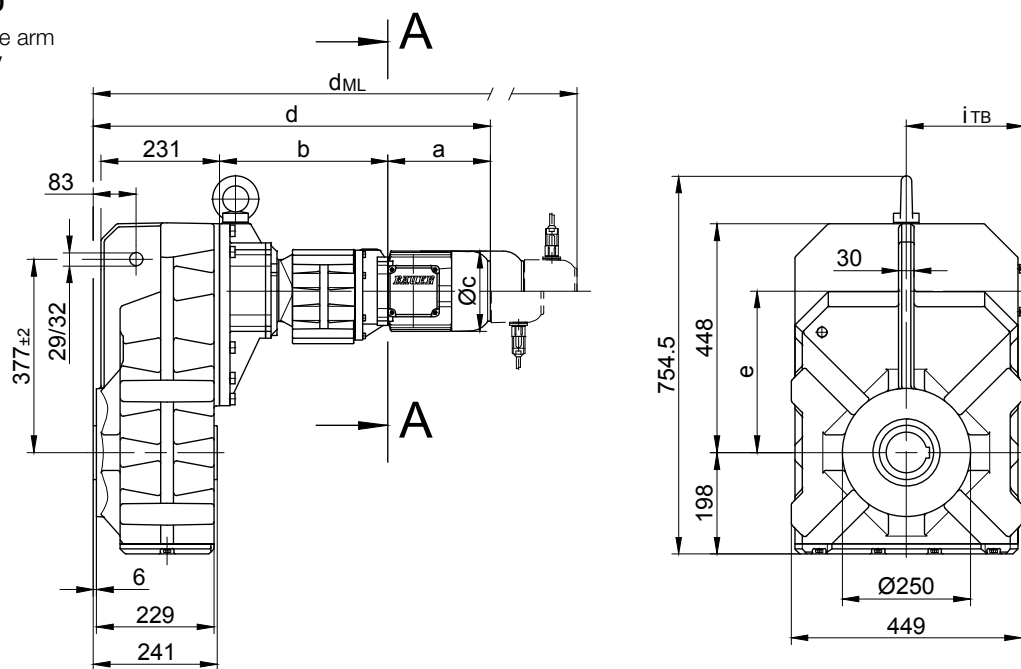
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

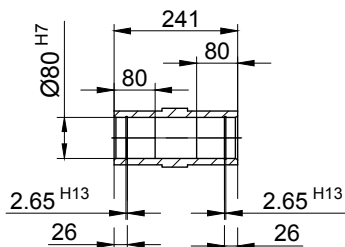
BF70G20

with torque arm

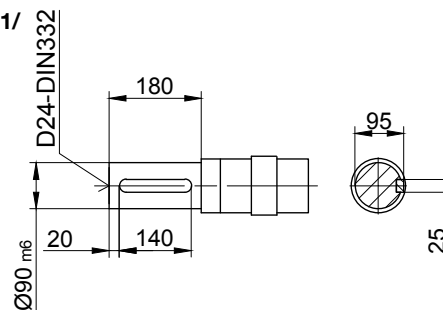
Code -0./



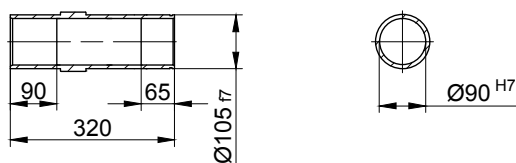
Code -4/



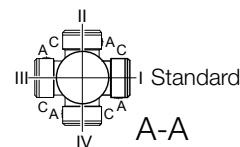
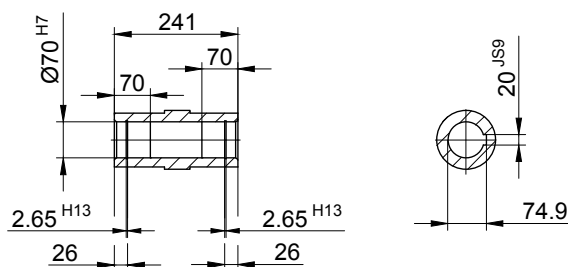
Code -1/



Code -5/



Code -4/K70



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF70G20-../D..05.A.	170.5	324	123	740.5	101	117	782.5	843	880.5	-
BF70G20-../D..06.A.	170.5	324	123	740.5	99	119	782.5	843	880.5	-
BF70G20-../D..07.A.	190.5	324	123	760.5	99	119	802.5	863	900.5	-
BF70G20-../D..08.A.	199.5	328	156	773.5	114.5	136.5	839.5	885.5	947	839.5
BF70G20-../D..08.B.	229.5	328	156	803.5	114.5	136.5	869.5	915.5	976.5	869.5
BF70G20-../D..09.A.	250.5	342.5	176	839	124	157	932	946.5	1036	932
BF70G20-../D..09.B.	308.5	342.5	176	897	124	157	990	1004	1094	990

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

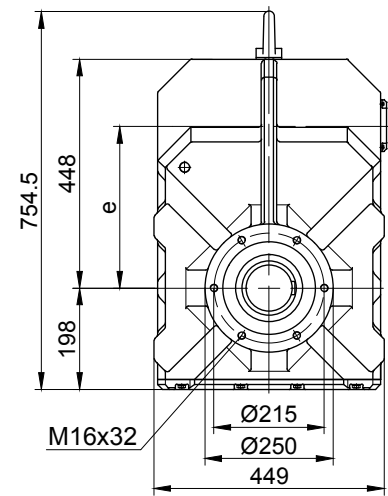
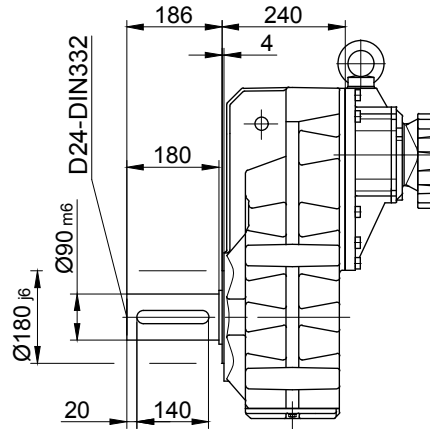
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF70G20

Flange with tapped holes

Code -7./

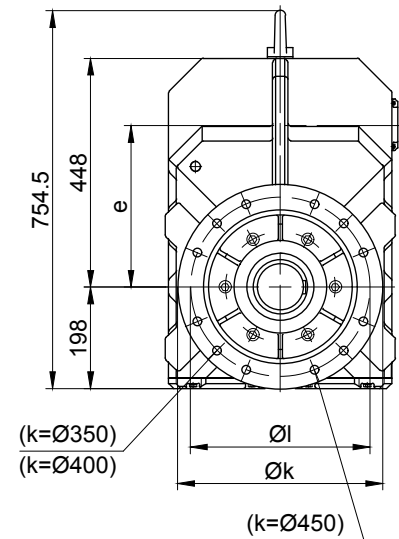
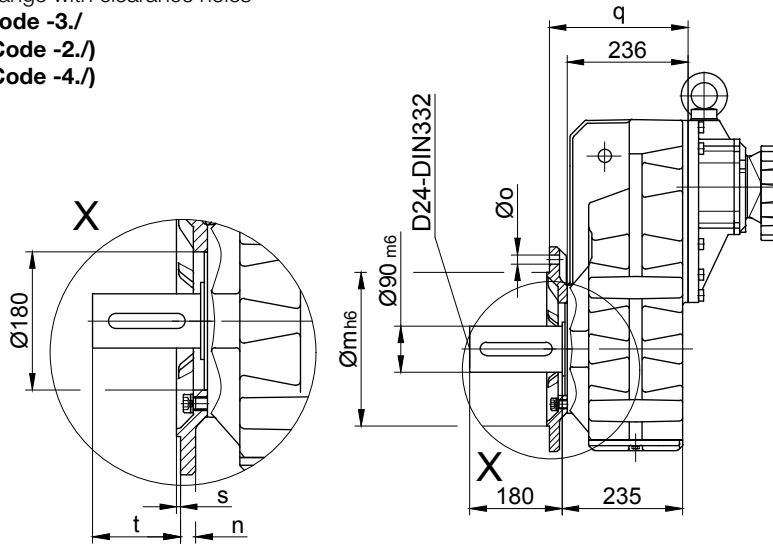


Flange with clearance holes

Code -3./

(Code -2./)

(Code -4./)



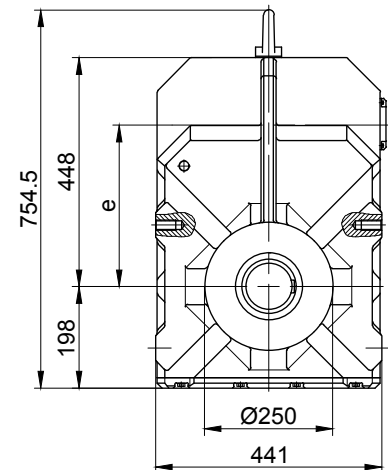
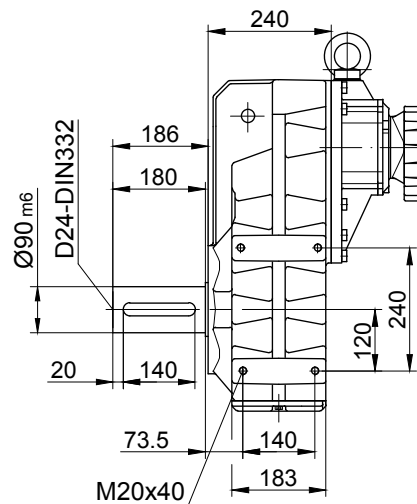
Flange Dimensions

Type	Design	k	l	m	n	o	q	s	t
BF70..	Code -3./	400	350	300	20	-1	271	5	155
BF70..	Code -2./	350	300	250	20	-1	271	5	155
BF70..	Code -4./	450	400	350	22	-1	281	5	145

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

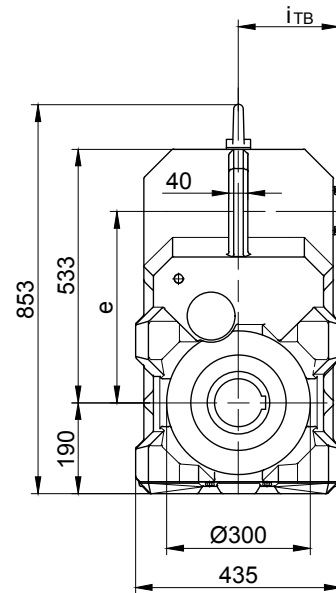
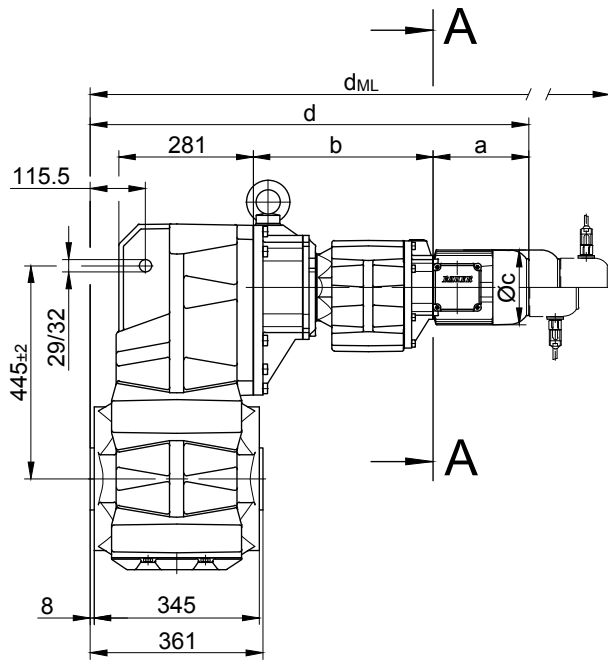
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

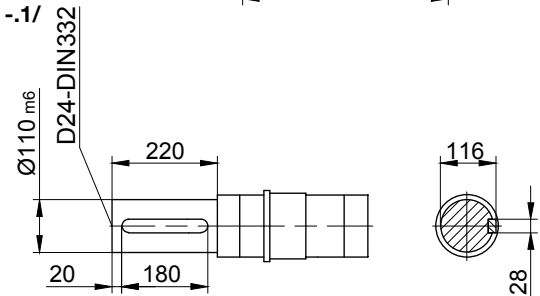
BF80G40

with torque arm

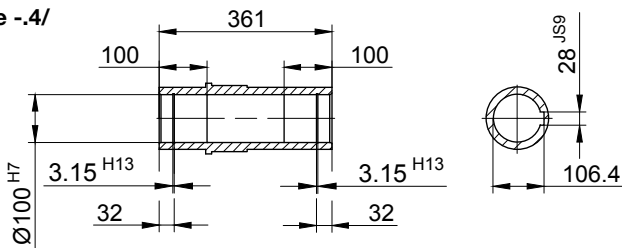
Code -0./



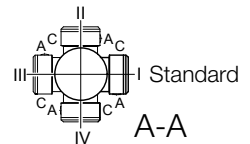
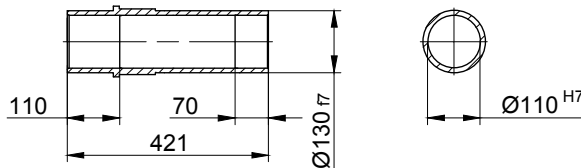
Code -1/



Code -4/



Code -5/



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF80G40-../D..08.A.	199.5	376	156	916	114.5	136.5	982	1028	1089.5	982
BF80G40-../D..08.B.	229.5	376	156	946	114.5	136.5	1012	1058	1119	1012
BF80G40-../D..09.A.	250.5	390.5	176	981.5	124	157	1074.5	1089	1178.5	1074.5
BF80G40-../D..09.B.	308.5	390.5	176	1039.5	124	157	1132.5	1146.5	1236.5	1132.5
BF80G40-../D..11.A.	319	397	218	1056.5	165	176	1154.5	1164	1256.5	1154.5
BF80G40-../D..11.B.	387	397	218	1124.5	165	176	1220.5	1232	1324.5	1220.5

Dimensions in millimetres (mm)

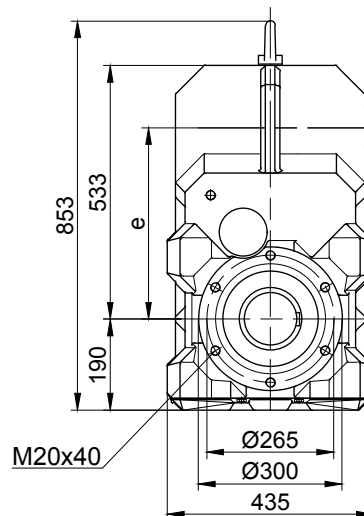
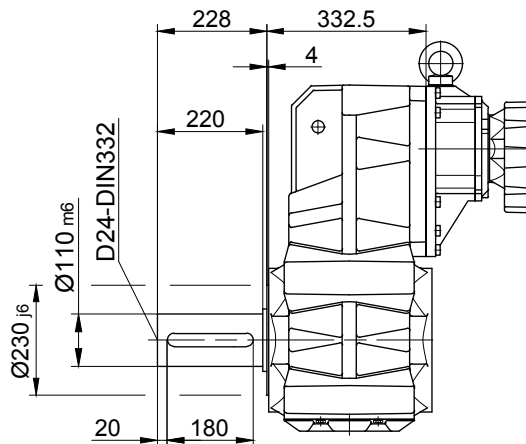
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Tandem Gearbox Metric

BF80G40

Flange with tapped holes

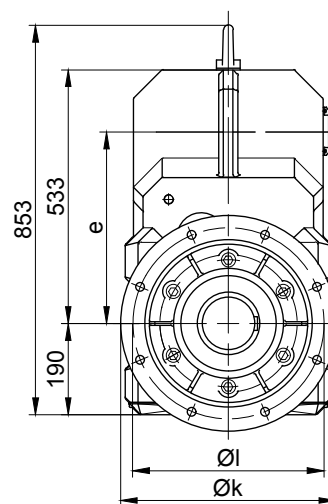
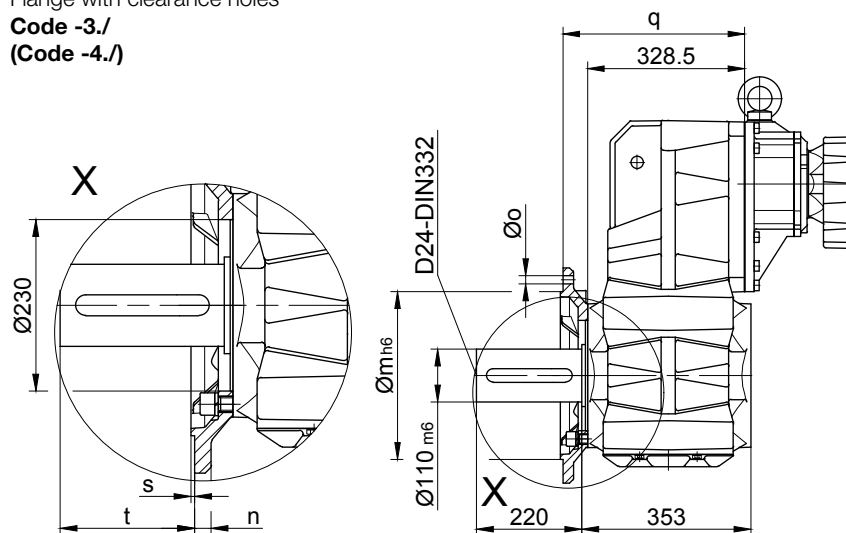
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

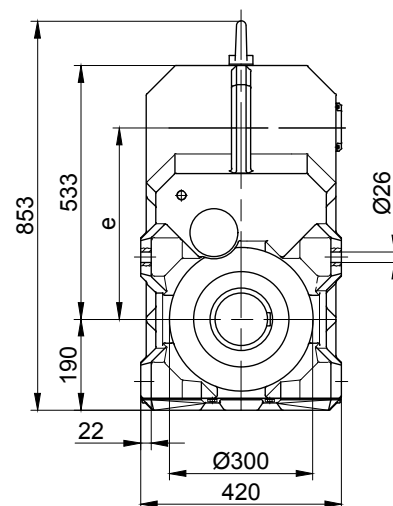
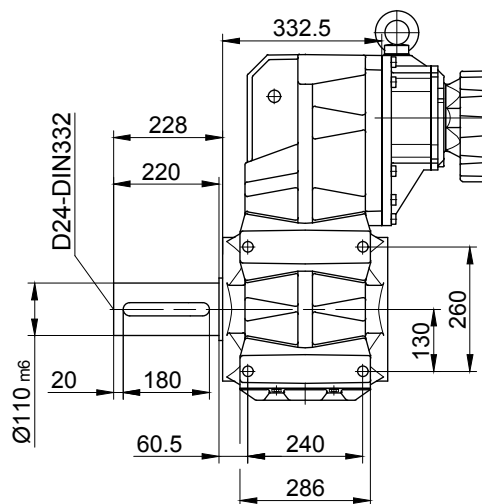


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF80..	Code -3./	450	400	350	22	17.5	383.5	5	177
BF80..	Code -4./	550	500	450	22	17.5	388.5	5	172

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

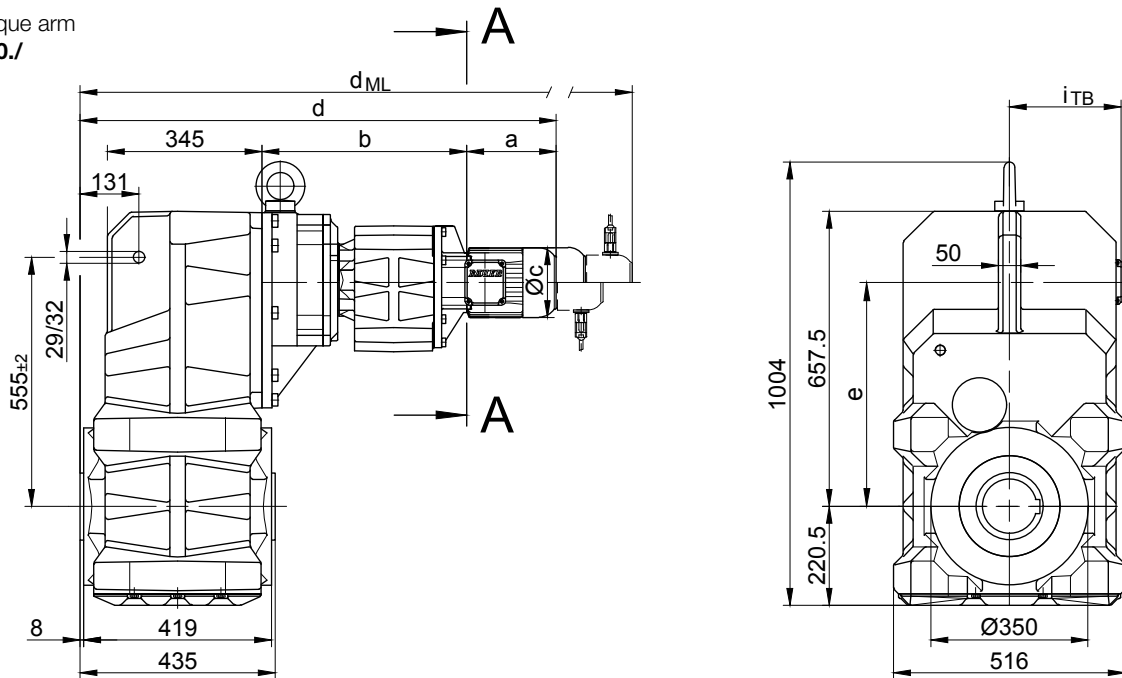
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF90G50

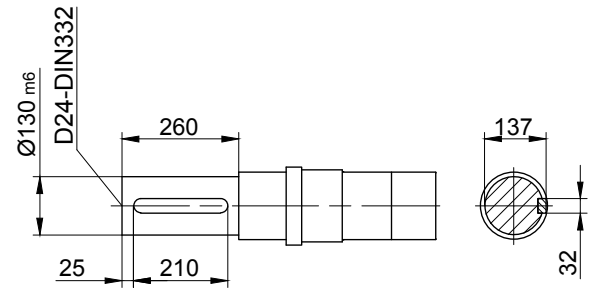
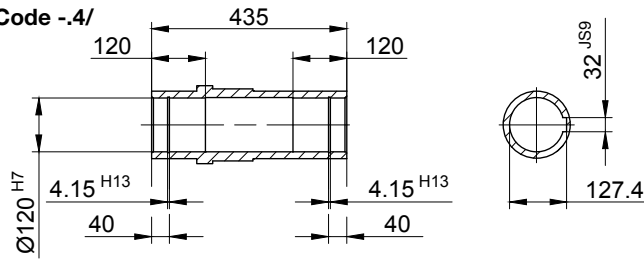
with torque arm

Code -0./

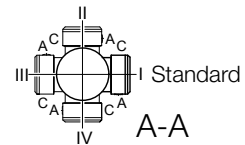
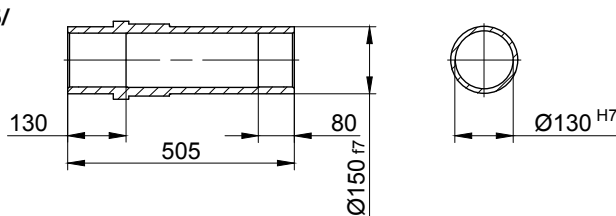


Code -1./

Code -4./



Code -5./



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BF90G50-../D..08.A.	199.5	456	156	1061.5	114.5	136.5	1127.5	1173.5	1235	1127.5
BF90G50-../D..08.B.	229.5	456	156	1091.5	114.5	136.5	1157.5	1203.5	1264.5	1157.5
BF90G50-../D..09.A.	250.5	470.5	176	1127	124	157	1220	1234.5	1324	1220
BF90G50-../D..09.B.	308.5	470.5	176	1185	124	157	1278	1292	1382	1278
BF90G50-../D..11.A.	319	477	218	1202	165	176	1300	1309.5	1402	1300
BF90G50-../D..11.B.	387	477	218	1270	165	176	1366	1377.5	1470	1366
BF90G50-../D..13.A.	393	490	258	1289	217	217	1400	1396	1501	1397
BF90G50-../D..16.B.	454.5	504	310	1364.5	243	243	1508	1471.5	1611.5	1508
BF90G50-../D..18.B.	542	526	348	1474	288	288	1623.5	1579.5	1727	1623.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

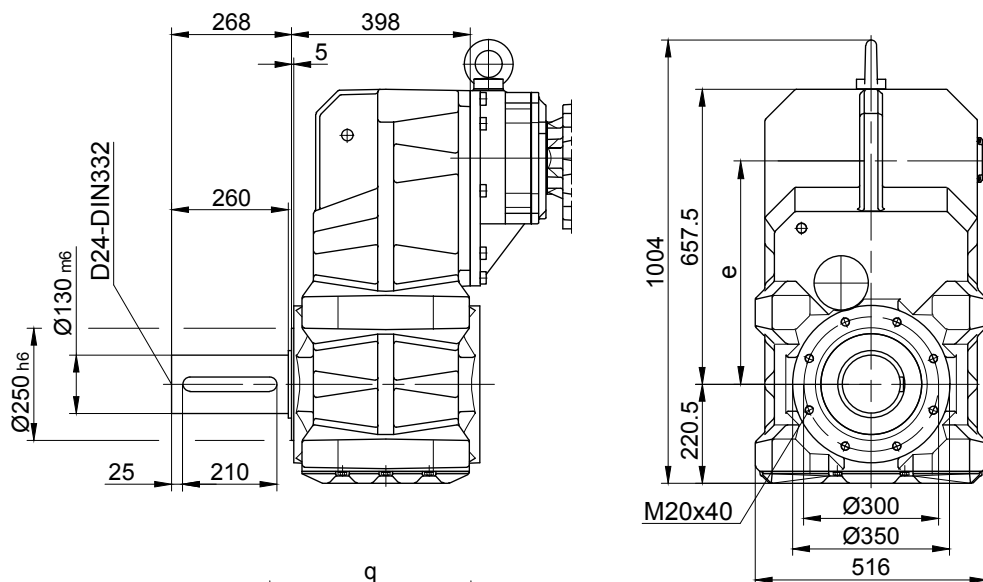
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox Metric

BF90G50

Flange with tapped holes

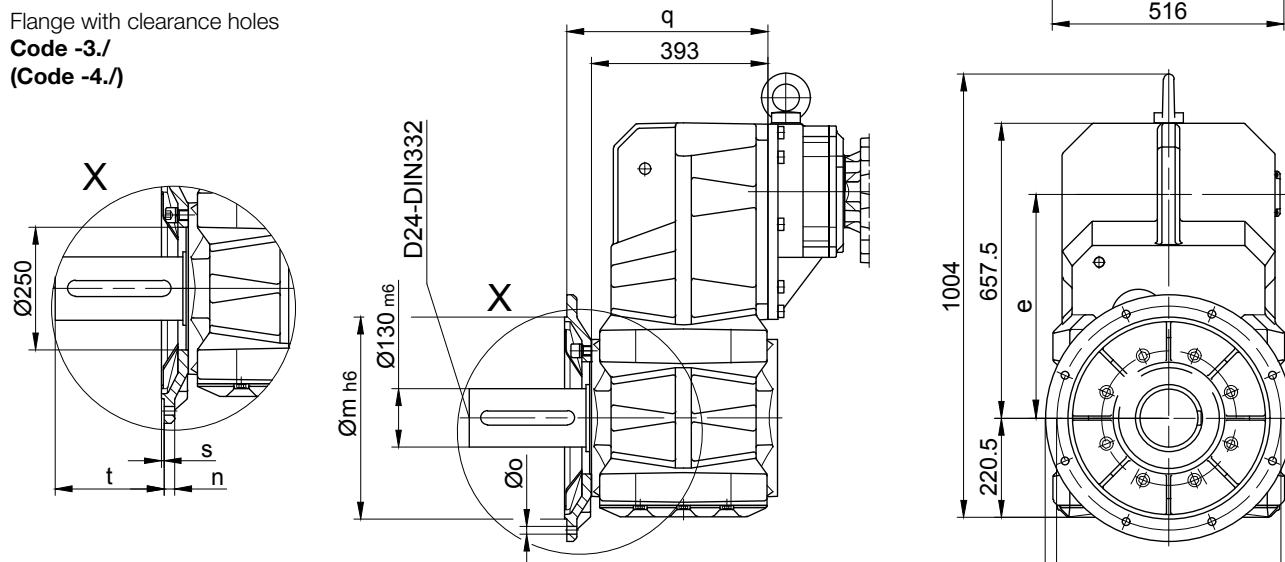
Code -7./



Flange with clearance holes

Code -3./

(Code -4./)

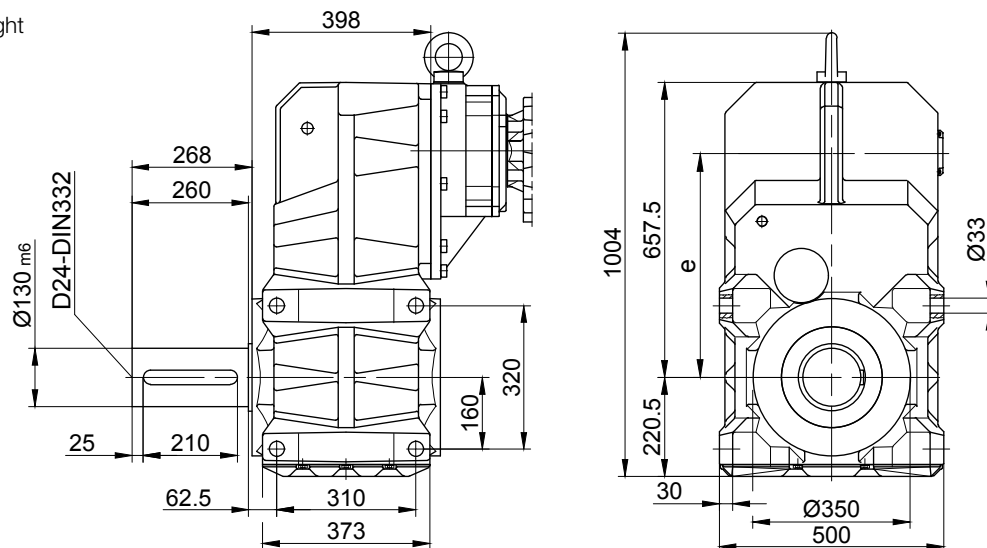


Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF90..	Code -3./	550	500	450	22	17.5	448	5	218
BF90..	Code -4./	660	600	550	25	22	442	6	224

Dimensions in millimeters (mm)

Foot with tapped holes left and right

Code -1.LR/



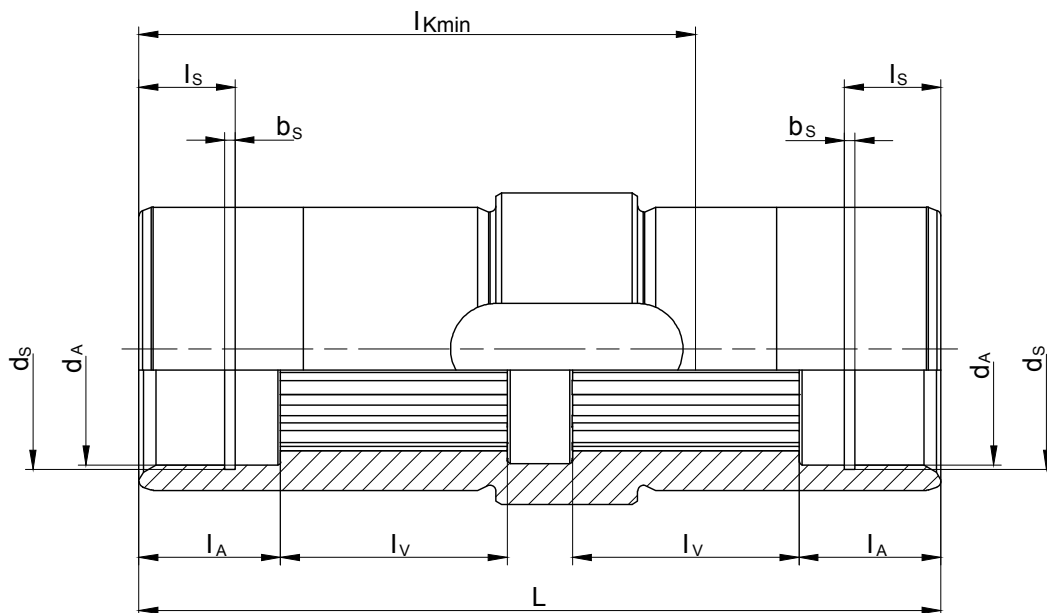
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America

11

Splined shaft BF



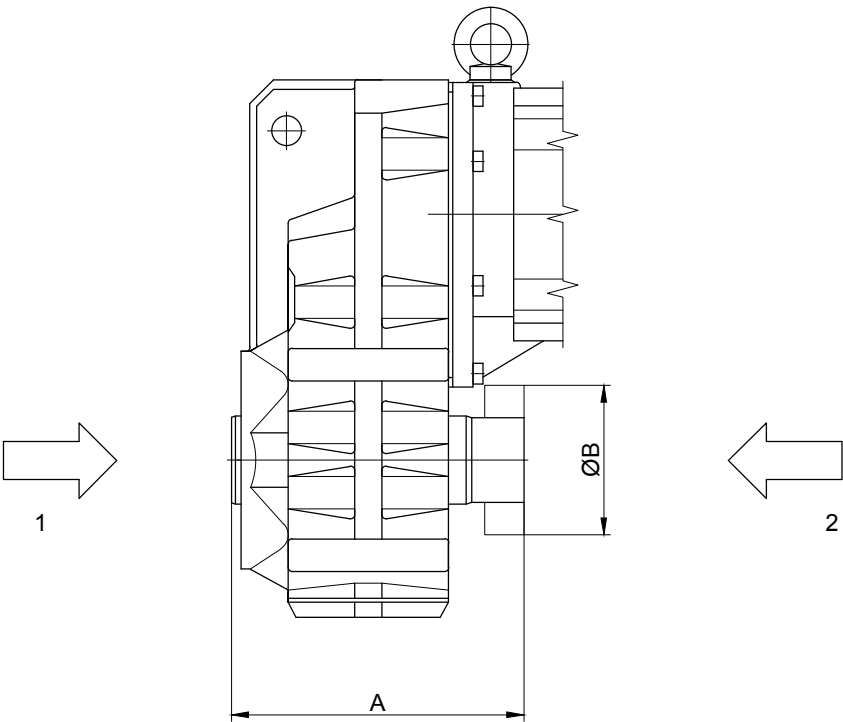
Type	Splined shaft acc. to DIN 5480	d_A	l_A	l_v	l_{Kmin}	L	d_s	l_s	b_s
BF06	N25x1.25x18x9H	30 ^{G7}	22	20	68	92	31.4 ^{H12}	15	1.3 ^{H13}
BF10	N30x1.25x22x9H	30.5 ^{G7}	22	33.5	87	124.5	31.4 ^{H12}	15	1.3 ^{H13}
BF20	N35x2x16x9H	36 ^{G7}	22	35	92	130	37 ^{H12}	9.5	1.6 ^{H13}
BF30	N40x2x18x9H	41 ^{G7}	25	40	103	141.5	42.5 ^{H12}	15	1.85 ^{H13}
BF40	N50x2x24x9H	51 ^{G7}	25	48	120	166	53 ^{H12}	9.5	2.15 ^{H13}
BF50	N60x2x28x9H	61 ^{G7}	25	55	123	176	63 ^{H12}	17	2.15 ^{H13}
BF60	N70x2x34x9H	72 ^{G7}	25	70	147	202	75 ^{H12}	17	2.65 ^{H13}
BF70	N85x3x27x9H	86 ^{G7}	26	85	185	241	88.5 ^{H12}	17	3.15 ^{H13}
BF80	N110x3x35x9H	112 ^{G7}	50	90	292	361	116 ^{H12}	30	4.15 ^{H13}
BF90	N130x5x24x9H	131.5 ^{G7}	60	110	365	435	134 ^{H12}	30	4.15 ^{H13}
Dimensions in millimetres (mm)									

BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

Shrink disc coupling (SSV)

(Code BF10-.5/...)
(Code BF10Z-.5/...)



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HDS 36-22x36	153	72
BF20	RfN 4161 044x080	HDS 44-22x44	173	80
BF30	RfN 4161 050x090	HDS 50-22x50	192	90
BF40	RfN 4161 062x110	HDS 62-22x62	215	110
BF50	RfN 4161 068x115	HDS 68-22x68	211	115
BF60	RfN 4161 080x141	HDS 80-22x80	257	140
BF70	RfN 4161 105x185	HDS 110-22x105	320	185
BF80	RfN 4161 130x215	HDS 125-22x130	421	215
BF90	RfN 4161 150x263	HDS 155-22x150	505	263
Dimensions in millimetres (mm)				

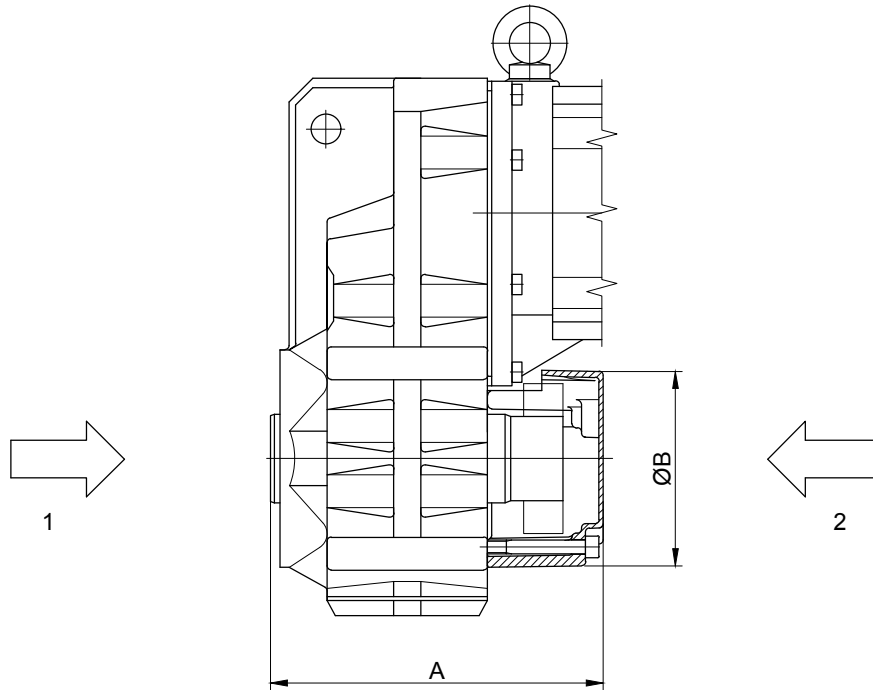
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

Shrink disc coupling with (SSV) cover

(Code BF10-.5A/...)
(Code BF10Z-.5A/...)



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

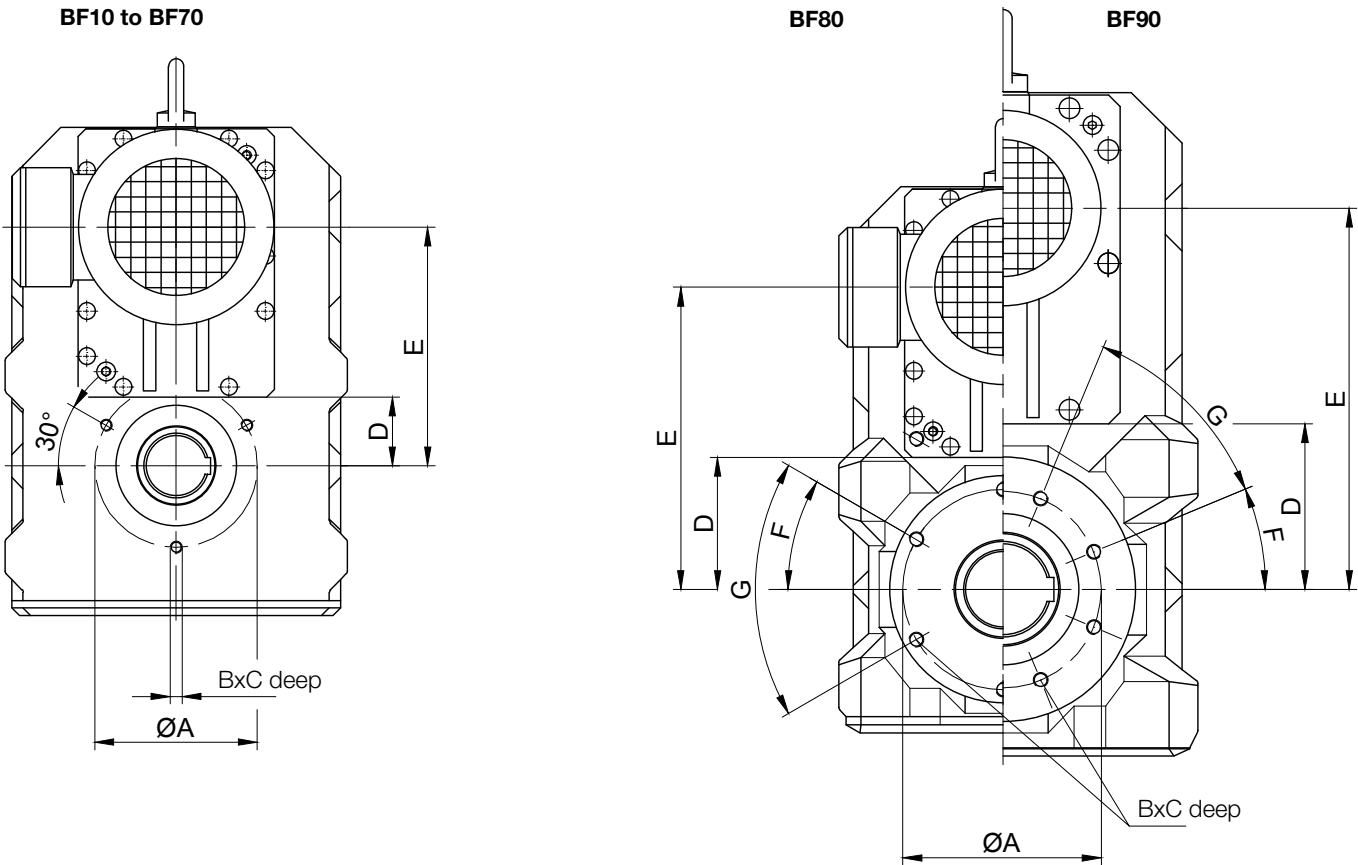
Type	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HDS 36-22x36	174	120
BF20	RfN 4161 044x080	HDS 44-22x44	211	140
BF30	RfN 4161 050x090	HDS 50-22x50	223	140
BF40	RfN 4161 062x110	HDS 62-22x62	245	160
BF50	RfN 4161 068x115	HDS 68-22x68	227	200
BF60	RfN 4161 080x141	HDS 80-22x80	290	210
BF70	RfN 4161 105x185	HDS 110-22x105	359	250
BF80	RfN 4161 130x215	HDS 125-22x130	463	300
BF90	RfN 4161 150x263	HDS 155-22x150	557	350
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

Tapped holes side (H) → shaft cover

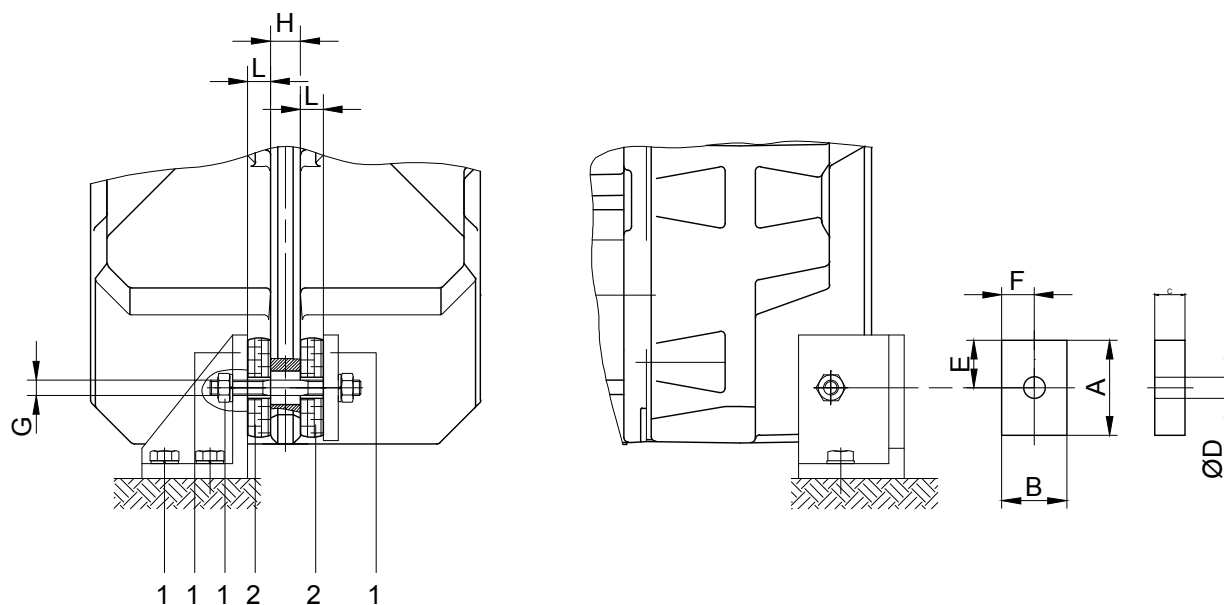


11

Gear	A	B	C	D	E	F	G
BF10	100	M8	16	35	118	-	-
BF20	115	M10	20	39	136	-	-
BF30	115	M10	20	44	157	-	-
BF40	130	M10	20	52	180.5	-	-
BF50	165	M12	24	60	207	-	-
BF60	180	M12	24	69	255.5	-	-
BF70	215	M16	32	89	316	-	-
BF80	265	M20	40	173	400	30°	6x60°
BF90	300	M20	40	219	504.5	22.5°	8x45°
Dimensions in millimetres (mm)							

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Rubber buffer for torque restraint



- 1 not included in delivery
- 2 Rubber buffers pretensioned

G maximaler Schraubendurchmesser

Material: Natural rubber Hardness 50 +/-5 Shore A

Dimensions of the transverse hole: See dimensioned sketch of the respective shaft mounted gearbox

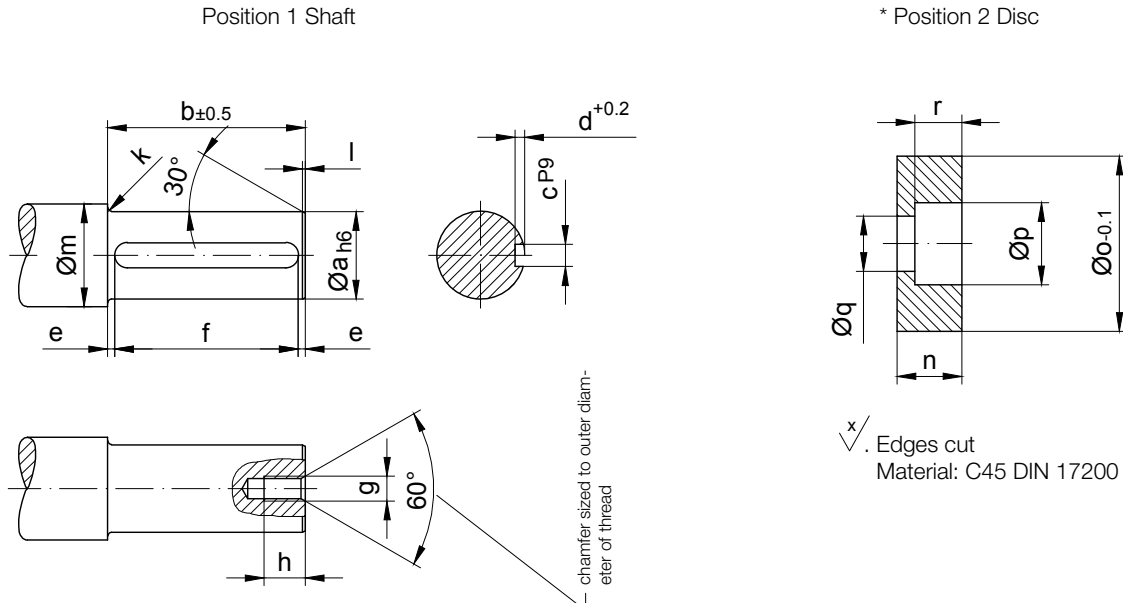
Gear	Position	A	B	C	D	E	F	G	H	L
BF06	Position 0	30	30	12	12	15	15	M10	10	10
BF10	Position 1	48	32	15	14	24	16	M10	16	13.5
BF20	Position 1	48	32	15	14	24	16	M10	18	13
BF30	Position 2	63	43	20	14	31.5	21.5	M10	18	17
BF40	Position 2	63	43	20	14	31.5	21.5	M10	20	16.5
BF50	Position 3	88	60	25	22	44	30	M18	24	21.5
BF60	Position 3	88	60	25	22	44	30	M18	28	21
BF70	Position 4	123	88	30	26	61.5	44	M20	30	25.5
BF80	Position 5	133	103	35	26	66.5	51.5	M20	40	30
BF90	Position 5	133	103	35	26	66.5	51.5	M20	50	29.5
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

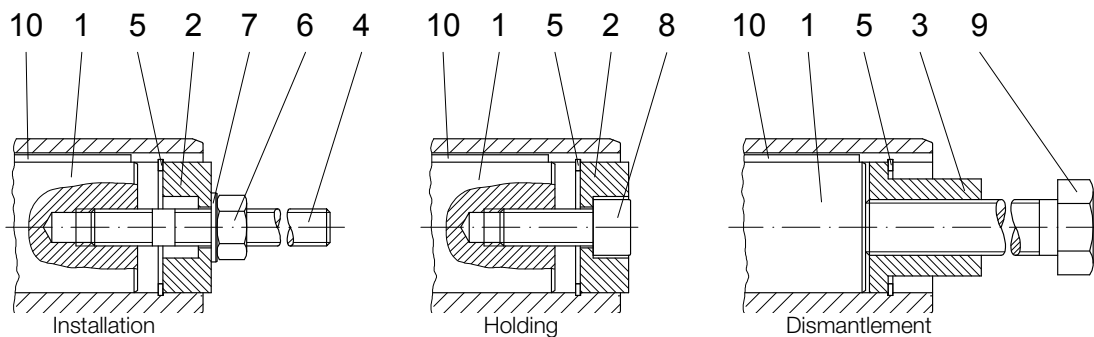
BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

Assembly tools for hollow shaft and keyway



Type	Dimensions (mm)															
	Position 1 Shaft											Position 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BF06	25	70	8	4	3.5	63 ^{+0.5}	M8	18	2	1.5	33	13.5	24.8	15	9	8.5
BF10	25	102	8	4	6	90 ^{+0.5}	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BF20	30	108	8	4	9	90 ^{+0.5}	M10	20	3	1.5	38	15	29.8	18	11	10
BF30	35	118	10	5	9	100 ^{+0.5}	M10	20	3	1.5	43	16	34.8	18	11	10
BF40	40	141	12	5	8	125 ^{+0.5}	M12	22	3	2	48	18	39.8	20	13.5	12
BF50	50	148	14	5.5	11.5	125 ^{+0.5}	M16	30	3.5	2	58	21	49.8	26	17.5	15
BF60	60	173	18	7	6.5	160 ^{+0.5}	M20	38	3.5	2	68	24	59.8	33	22	18
BF70	80	205	22	9	12.5	180 ^{+0.5}	M20	38	4	2	90	27	79.8	33	22	20
BF70-K70	70	205	20	7.5	12.5	180 ^{+0.5}	M20	38	4	2	90	27	69.8	33	22	20
BF80	100	317	28	10	18.5	280 ^{+0.5}	M24	45	4	3	110	32	99.8	40	26	25
BF90	120	383	32	11	11.5	360 ^{+0.5}	M24	45	4.5	3	130	35	119.8	40	26	28



The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos.9 against loosening!

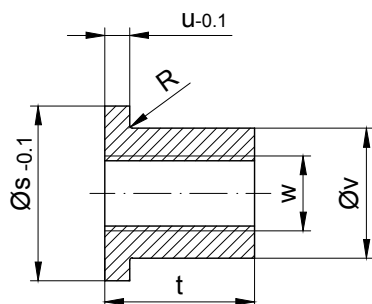
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

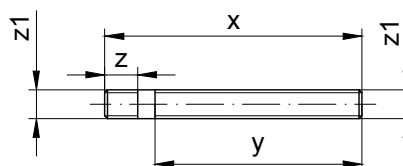
Additional Dimension Sheet Metric

Assembly tools for hollow shaft and keyway

Position 3 Sleeve



* Position 4 Stud bolt



Material: Steel, tensile strength
≥ 1000N/mm²
Threads rolled

$\sqrt{x}$ Edges cut
Material: C45 DIN 17200

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Tightening torques (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1							
BF06	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	M8x30	5	M12x110	A 8x7x63
BF10	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	M8x30		M12x140	A 8x7x90
BF20	29.8	28	5	19.8	M14	0.8	170	135	23	M10	30x1.2	M10	10.5	M10x30	8	M14x150	A 8x7x90
BF30	34.8	28	5	23	M14	-	180	145	23	M10	35x1.5	M10	10.5	M10x35		M14x160	A 10x8x100
BF40	39.8	40	6	27.7	M20	0.8	210	170	28	M12	40x1.75	M12	13	M12x35	16	M20x200	A 12x8x125
BF50	49.8	48	6	36	M24	-	230	175	37	M16	50x2.0	M16	17	M16x40	30	M24x210	A 14x9x125
BF60	59.8	60	6	44	M30	-	270	205	45	M20	60x2.0	M20	21	M20x50	42	M30x250	A 18x11x160
BF70	79.8	60	8	55	M30	-	310	240	45	M20	80x2.5	M20	21	M20x50		M30x280	A 22x14x180
BF70-K70	69.8	60	8	53	M30	-	310	240	45	M20	70x2.5	M20	21	M20x50		M30x280	A 20x12x180
BF80	99.8	72	10	75	M36	-	440	360	55	M24	100x3.0	M24	25	M24x60	100	M36x410	A 28x16x280
BF90	119.8	72	10	80	M36	-	510	430	55	M24	120x4.0	M24	25	M24x60		M36x480	A 32x18x360

The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.

Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

Optional

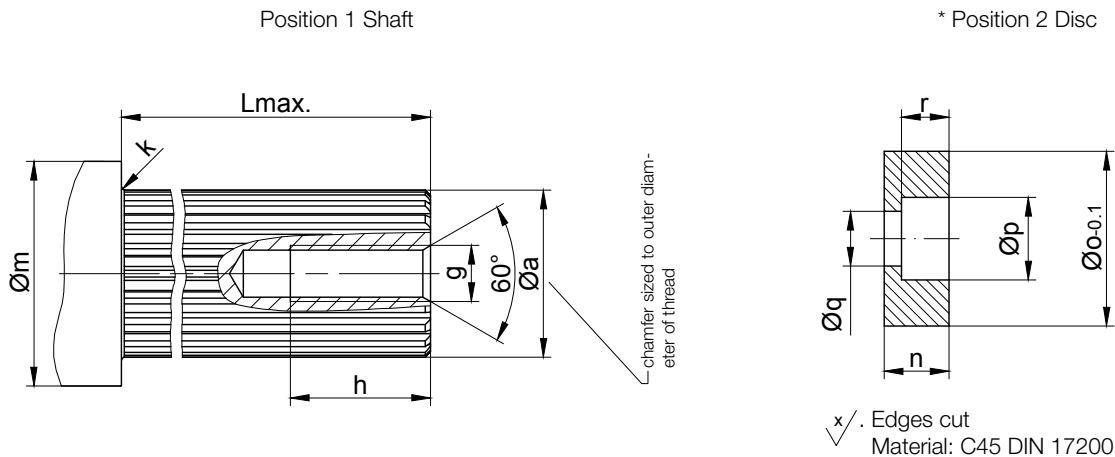
Type	Ø s	Order text
BF06	25	Id.Nr. 4103921 Assembly tool „holding“
BF10	25	Id.Nr. 4103921 Assembly tool „holding“
BF20	30	Id.Nr. 4103939 Assembly tool „holding“
BF30	35	Id.Nr. 4103947 Assembly tool „holding“
BF40	40	Id.Nr. 4103955 Assembly tool „holding“
BF50	50	Id.Nr. 4103963 Assembly tool „holding“
BF60	60	Id.Nr. 4103971 Assembly tool „holding“
BF70	80	Id.Nr. 4103980 Assembly tool „holding“
BF70-K70	70	Id.Nr. 4104765 Assembly tool „holding“
BF80	100	Id.Nr. 4103998 Assembly tool „holding“
BF90	120	Id.Nr. 4104005 Assembly tool „holding“

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

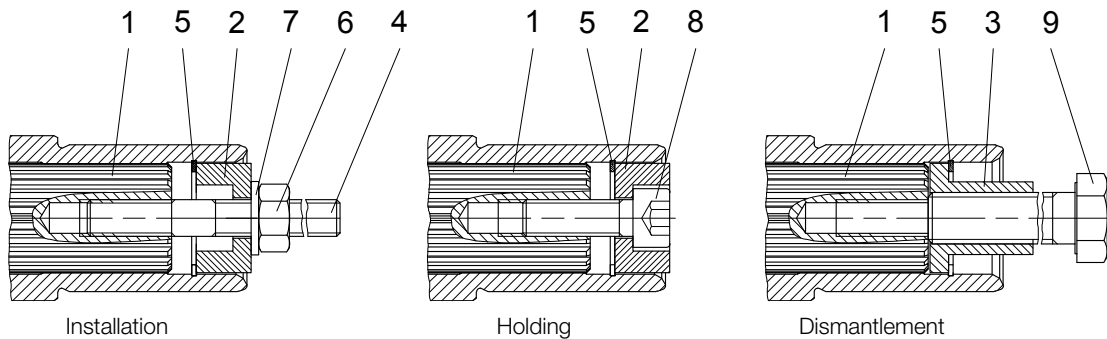
BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

Assembly tool for shaft mounted gears with splined shaft



Type	Dimensions (mm)										
	Position 1 Shaft						Position 2 Disc				
	a	g	h	g	Lmax.	m	n	o	p	q	r
BF06	DIN 5480-W25x1.25x18x8f	M8	20	2	70	37	13	29.9	15	9	8
BF10	DIN 5480-W30x1.25x22x8f	M10	25	2.5	100	38	15	30.4	18	11	10
BF20	DIN 5480-W35x2x16x8f	M10	25	3	110	43	14	35.9	18	11	10
BF30	DIN 5480-W40x2x18x8f	M12	30	3	117	48	18	40.9	20	13.5	12
BF40	DIN 5480-W50x2x24x8f	M16	35	3	145	60	17.5	50.9	26	17.5	12.5
BF50	DIN 5480-W60x2x28x8f	M20	40	3.5	150	69	24	60.9	33	22	18
BF60	DIN 5480-W70x2x34x8f	M20	40	3.5	175	80	24	71.9	33	22	18
BF70	DIN 5480-W85x3x27x8f	M20	40	4	215	96	22	85.9	33	22	16
BF80	DIN 5480-W110x3x35x8f	M24	50	4	315	122	32	111.9	40	26	25
BF90	DIN 5480-W130x5x24x8f	M24	50	4.5	390	141	25	131.4	40	26	18



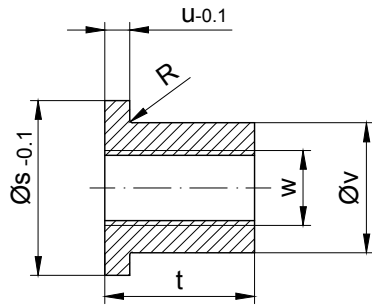
The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos.9 against loosening!

BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

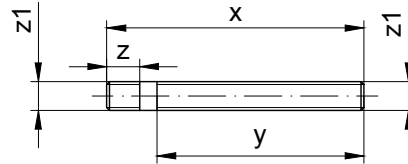
Assembly tool for shaft mounted gears with splined shaft

Position 3 Sleeve



✓ Edges cut
Material: C45 DIN 17200

* Position 4 Stud bolt



Material: Steel, tensile strength
≥ 1000N/mm²
Threads rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8
	Position 3 Sleeve						Position 4 Stud bolt									
	s	t	u	v	w	R	x	y	z	z1						
BF06	29.9	24	5	15.4	M12	0.8	160	130	20	M8	30x1.2	M8	8.4	M8x30	5	M12x110
BF10	30.4	28	5	19.8	M14	-	170	135	23	M10	30x1.2	M10	10.5	M10x30	8	M14x150
BF20	35.9	28	5	23	M14	-	180	145	23	M10	35x1.5	M10	10.5	M10x35		M14x160
BF30	40.9	40	6	27.7	M20	-	210	170	28	M12	40x1.75	M12	13	M12x35	16	M20x200
BF40	50.9	48	6	36	M24	0.8	230	175	37	M16	50x2.0	M16	17	M16x40	30	M24x210
BF50	60.9	60	6	44	M30	-	270	205	45	M20	60x2.0	M20	21	M20x50	42	M30x250
BF60	71.9	60	6	53	M30	0.8	310	240	45	M20	72x2.5	M20	21	M20x50		M20x280
BF70	85.9	60	8	65	M30	0.8	310	240	45	M20	85x3	M20	21	M20x50		M30x280
BF80	111.9	72	10	85	M36	0.8	440	360	55	M24	112x4	M24	25	M24x60	100	M36x410
BF90	131.4	72	10	95	M36	0.8	510	430	55	M24	130x4	M24	25	M24x60		M36x480

The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

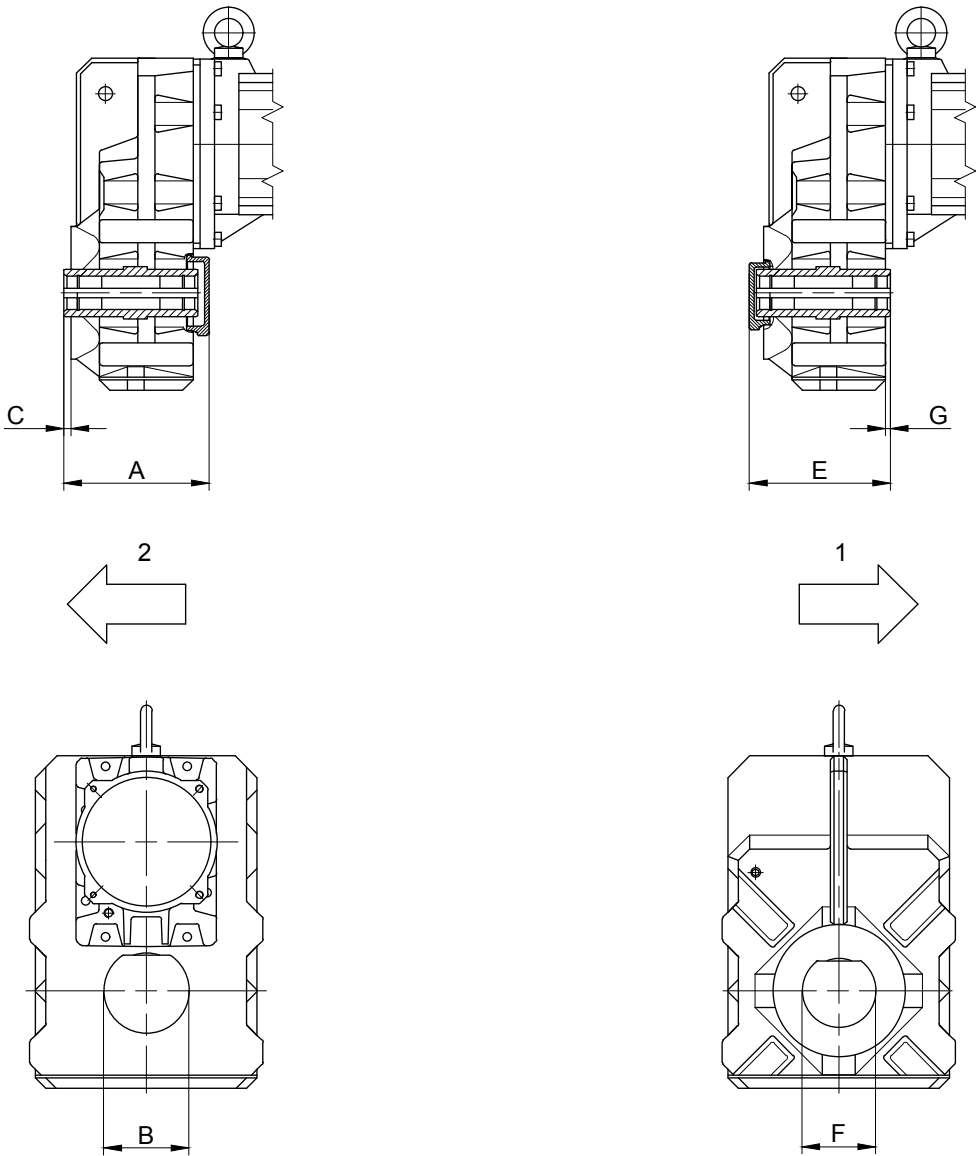
Optional	Type	Ø s	Order text
	BF06	30	Id.Nr. 4105125 Assembly tool „holding“
	BF10	30.5	Id.Nr. 4105133 Assembly tool „holding“
	BF20	36	Id.Nr. 4105141 Assembly tool „holding“
	BF30	41	Id.Nr. 4105150 Assembly tool „holding“
	BF40	51	Id.Nr. 4105168 Assembly tool „holding“
	BF50	61	Id.Nr. 4105176 Assembly tool „holding“
	BF60	72	Id.Nr. 4105184 Assembly tool „holding“
	BF70	86	Id.Nr. 4105192 Assembly tool „holding“
	BF80	112	Id.Nr. 4105206 Assembly tool „holding“
	BF90	131.5	Id.Nr. 4105214 Assembly tool „holding“

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

Shaft cap (VK)



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Shaft cap REAR (H)			
Type	A	B	C
BF10	134	78	5
BF20	142	85	5
BF30	153,5	90	7,5
BF40	179,5	110	7
BF50	192	125	6
BF60	222	140	7
BF70	258	170	6
Dimensions in millimetres (mm)			

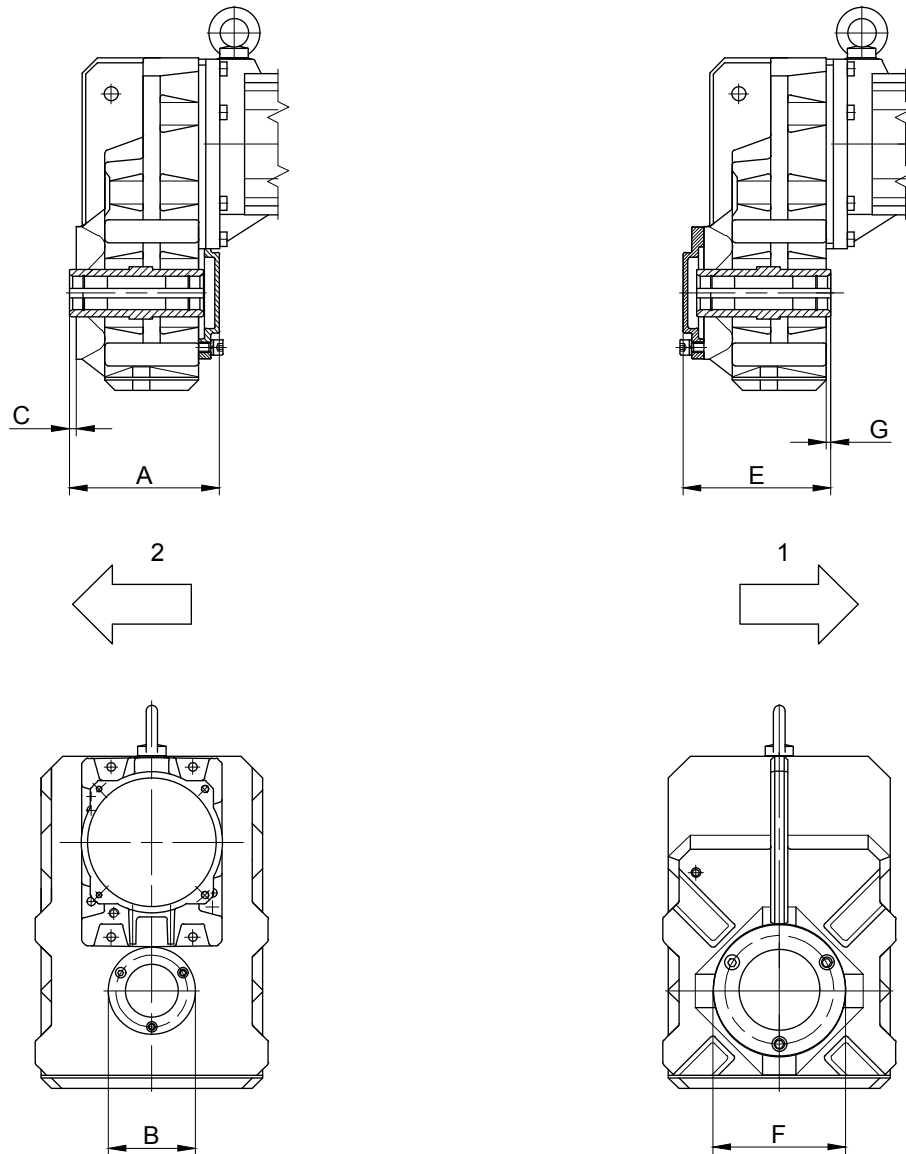
Shaft cap FRONT (V)			
Type	E	F	G
BF30	149	78	7,5
BF50	189,5	110	6
BF70	262	130	6
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet Metric

Shaft cover (VD)



1 Gear side FRONT (V)

2 Gear side REAR (H)

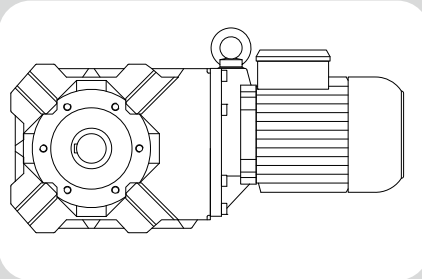
Shaft cover REAR (H)			
Type	A	B	C
BF70	376	300	8
BF90	442	350	8
Dimensions in millimetres (mm)			

Shaft cover FRONT (V)			
Type	E	F	G
BF10	135,5	120	5
BF20	144	139,5	5
BF30	153	139,5	7,5
BF40	179,5	160	7
BF50	191,5	199	6
BF60	221,5	210	7
BF70	258	250	6
BF80	376	300	8
BF90	442	350	8
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America



12

BK-series bevel-gear motors - Dimensions

Dimension - Standard Imperial	470
BK06	470
BK10 - BK10Z	472
BK20 - BK20Z	474
BK30 - BK30Z	476
BK40 - BK40Z	478
BK50 - BK50Z	480
BK60 - BK60Z	482
BK70 - BK70Z	484
BK80 - BK80Z	486
BK90 - BK90Z	488
Dimension - Tandem Gearbox Imperial	490
BK10G06	490
BK20G06	492
BK30G06	494
BK40G10	496
BK50G10	498
BK60G20	500
BK70G20	502
BK80G40	504
BK90G50	506
Additional Dimension Sheet Imperial	508
Shrink disk couplings (SSV)	508
Shrink disk connection with cover (SSV)	509
Rubber buffer for torque arm	510
Position of the torque arm	511
Foot with tapped holes	512
Foot plate with clearance holes	513
Assembly tools for hollow shaft and keyway	514
Shaft cap (VK)	516
Shaft cover (VD)	517
Dimension - Standard Metric	518
BK06	518
BK10 - BK10Z	520
BK20 - BK20Z	522
BK30 - BK30Z	524
BK40 - BK40Z	526
BK50 - BK50Z	528
BK60 - BK60Z	530
BK70 - BK70Z	532
BK80 - BK80Z	534
BK90 - BK90Z	536
Dimension - Tandem Gearbox Metric	538
BK10G06	538
BK20G06	540

Energy Efficient Geared Motors

AC Line Operated / North America

◀ BK30G06	542
BK40G10	544
BK50G10	546
BK60G20	548
BK70G20	550
BK80G40	552
BK90G50	554
Additional Dimension Sheet Metric	557
Splined shaft BK	557
Shrink disc coupling (SSV)	558
Shrink disc connection with cover (SSV)	559
Rubber buffer for torque arm	560
Position of the torque arm	561
Foot with tapped holes	562
Foot plate with clearance holes	563
Assembly tools for hollow shaft and keyway	564
Assembly tools for splined shaft	566
Shaft cap (VK)	568
Shaft cover (VD)	569

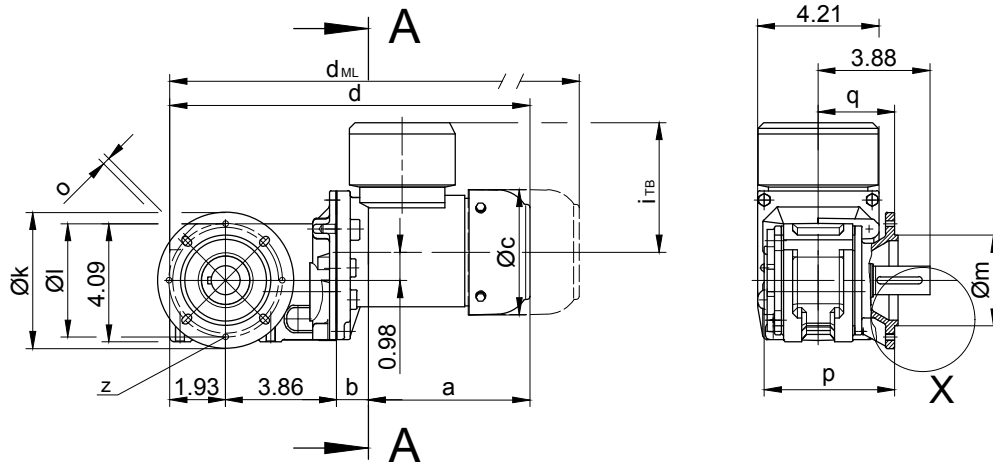
BK-series bevel-geared motors

Dimension - Standard Imperial

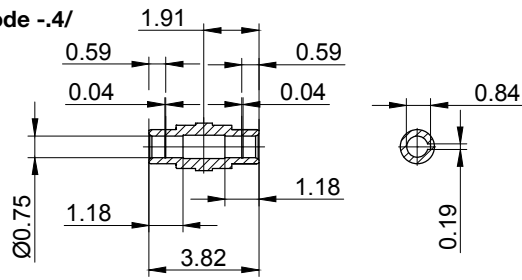
BK06

Flange with clearance holes at front

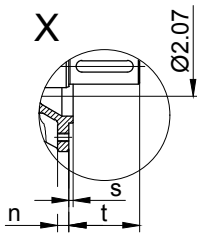
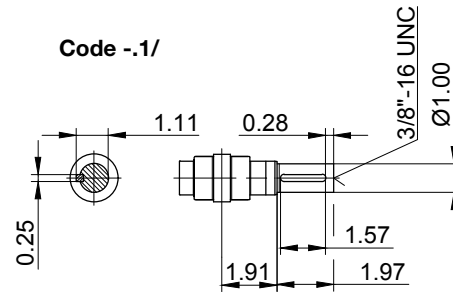
Code -3.V/



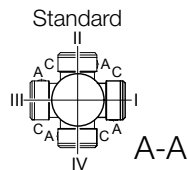
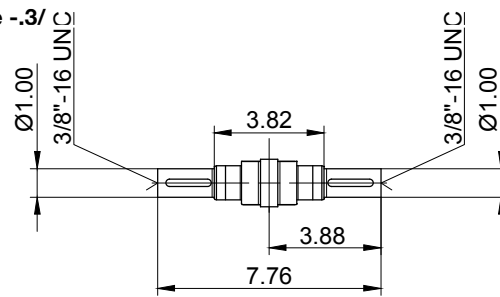
Code -4/



Code -1/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK06	Code -3.V/	4.724	3.937	3.150	0.315	0.260	4.528	2.657	0.118	1.970	-
BK06	Code -3.V/	4.724	3.937	3.150	0.315	0.260	4.528	2.657	0.118	1.970	4 x M6

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in

over 1.5 in diameter: +0.000 / -0.001 in

Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK06-.../D04.A.	5.61	1.10	4.35	12.50	3.54	4.41	14.21	15.94	17.65	-
BK06-.../D..05.A.	6.72	1.18	4.84	13.69	3.98	4.61	15.34	17.72	19.20	-
BK06-.../D..06.A.	6.70	1.18	4.84	13.67	3.90	4.69	15.33	17.71	19.19	-
BK06-.../D..07.A.	7.49	1.18	4.84	14.46	3.90	4.69	16.11	18.50	19.97	-
BK06-.../D..08.A.	7.85	2.91	6.14	16.56	4.51	5.37	19.15	20.96	23.39	19.15
BK06-.../D..08.B.	9.04	2.91	6.14	17.74	4.51	5.37	20.33	22.15	24.55	20.33

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

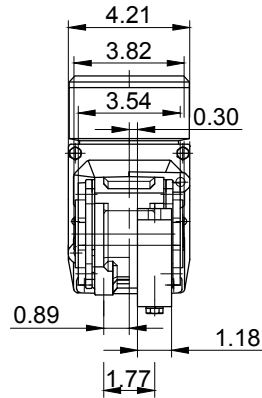
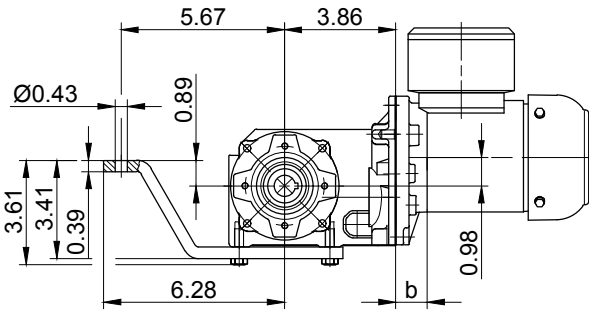
BK-series bevel-geared motors

Dimension - Standard Imperial

BK06

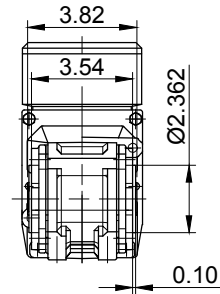
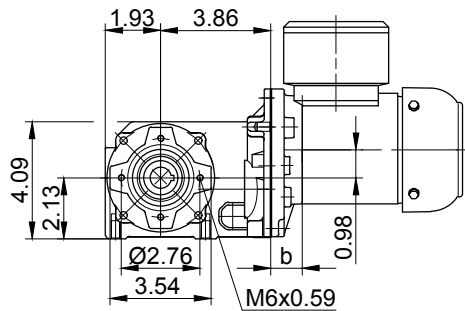
Torque arm at front

Code -5.V/



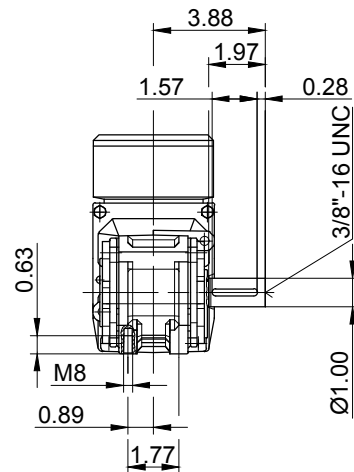
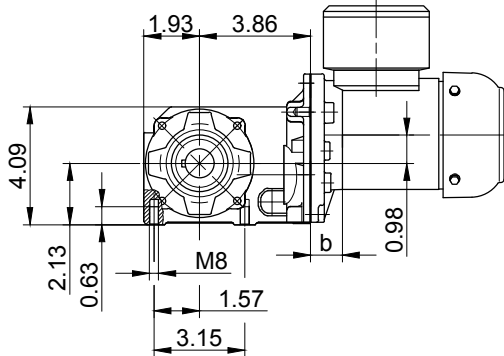
Flange with tapped holes at front

Code -7.V/



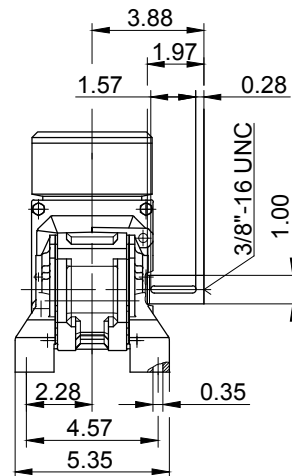
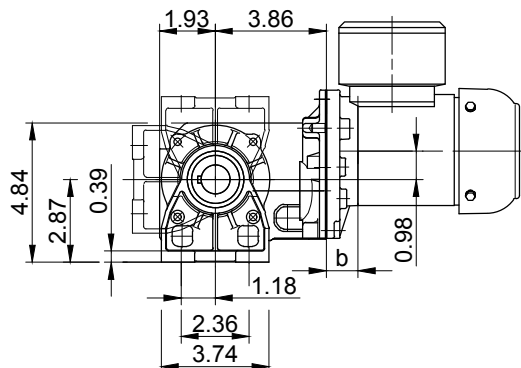
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

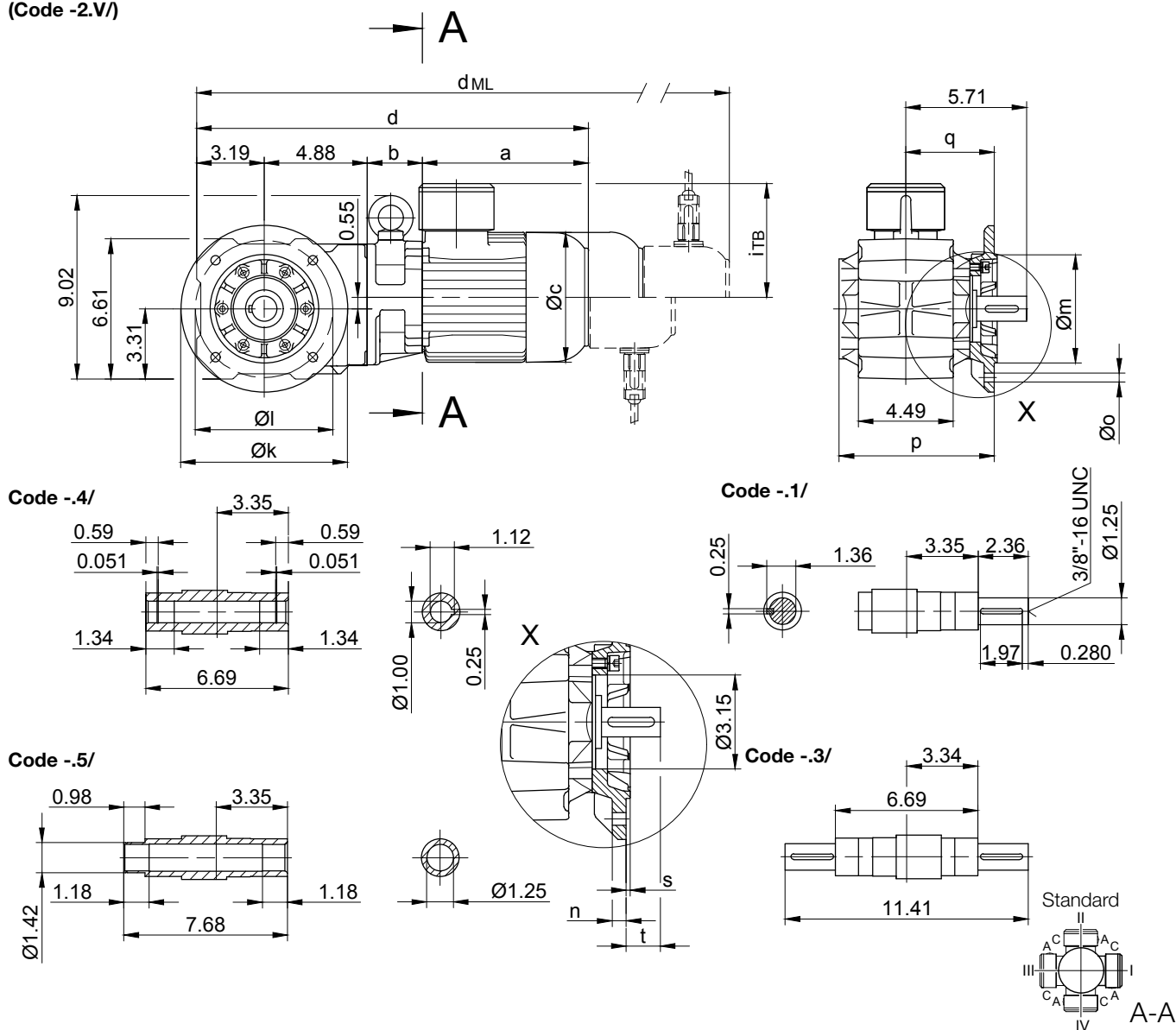
Dimension - Standard Imperial

BK10 - BK10Z

Flange with clearance holes at front

Code -3.V/

(Code -2.V/)



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK10..	Code -3.V/	7.874	6.496	5.118	0.472	0.433	7.343	4.173	0.138	1.533	-
BK10..	Code -2.V/	6.299	5.118	4.331	0.394	0.354	7.067	3.898	0.138	1.809	-

Dimensions in inch

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK10Z-../D04.A.	5.61	3.39	4.35	17.07	3.54	4.41	18.78	20.51	22.22	-
BK10-../D..05.A.	6.72	2.44	4.84	17.23	3.98	4.61	18.88	21.26	22.74	-
BK10Z-../D..05.A.	6.72	3.46	4.84	18.25	3.98	4.61	19.91	22.29	23.76	-
BK10-../D..06.A.	6.70	2.44	4.84	17.22	3.90	4.69	18.87	21.25	22.73	-
BK10Z-../D..06.A.	6.70	3.46	4.84	18.24	3.90	4.69	19.89	22.28	23.75	-
BK10-../D..07.A.	7.49	2.44	4.84	18.00	3.90	4.69	19.66	22.04	23.52	-
BK10Z-../D..07.A.	7.49	3.46	4.84	19.03	3.90	4.69	20.68	23.06	24.54	-
BK10-../D..08.A.	7.85	2.60	6.14	18.52	4.51	5.37	21.12	22.93	25.35	21.12
BK10Z-../D..08.A.	7.85	5.20	6.14	21.12	4.51	5.37	23.72	25.53	27.95	23.72
BK10-../D..08.B.	9.04	2.60	6.14	19.70	4.51	5.37	22.30	24.11	26.52	22.30
BK10Z-../D..08.B.	9.04	5.20	6.14	22.30	4.51	5.37	24.90	26.71	29.11	24.90
BK10-../D..09.A.	9.86	3.17	6.93	21.10	4.88	6.18	24.76	25.34	28.86	24.76
BK10-../D..09.B.	12.15	3.17	6.93	23.39	4.88	6.18	27.05	27.60	31.15	27.05

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

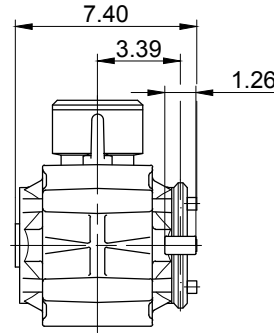
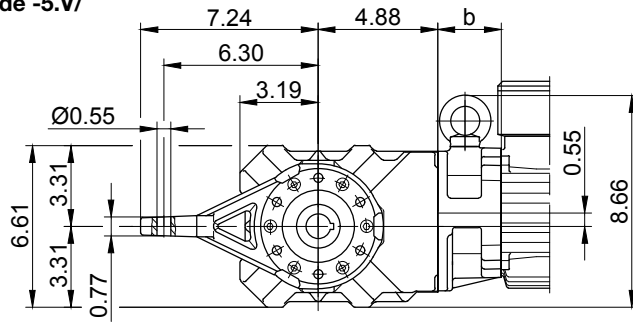
BK-series bevel-geared motors

Dimension - Standard Imperial

BK10 - BK10Z

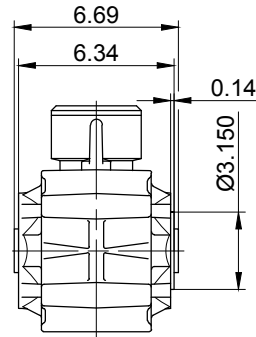
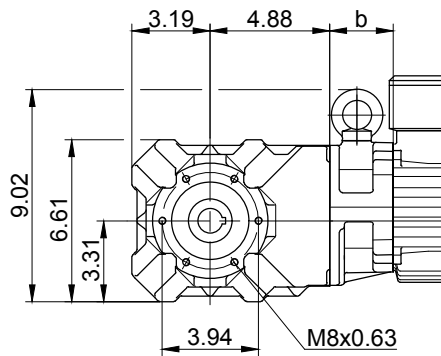
Torque arm at front

Code -5.V/



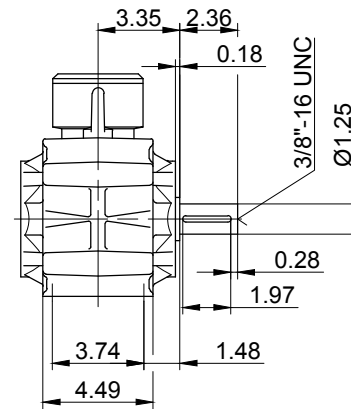
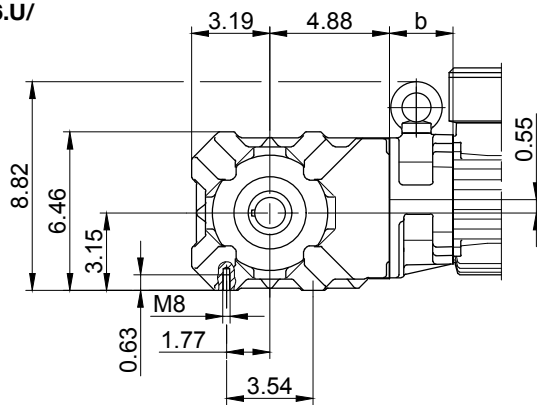
Foot with tapped holes at bottom

Code -7.V/



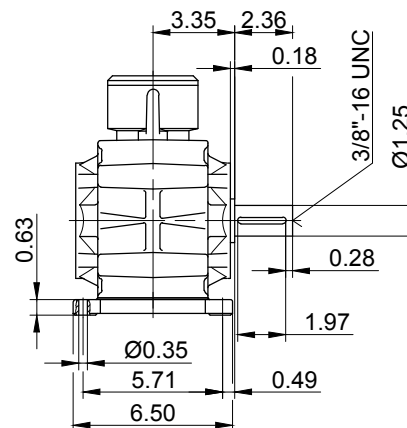
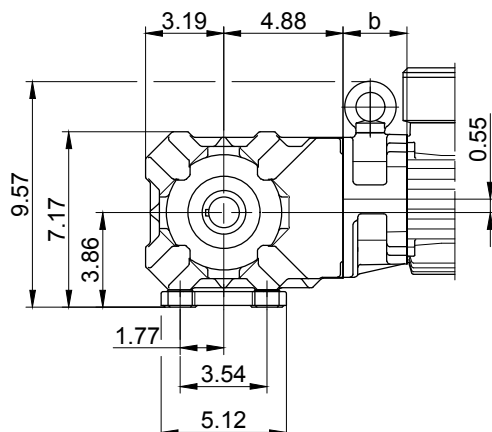
Foot with tapped holes at bottom

Code -6.U/



Foot with tapped holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

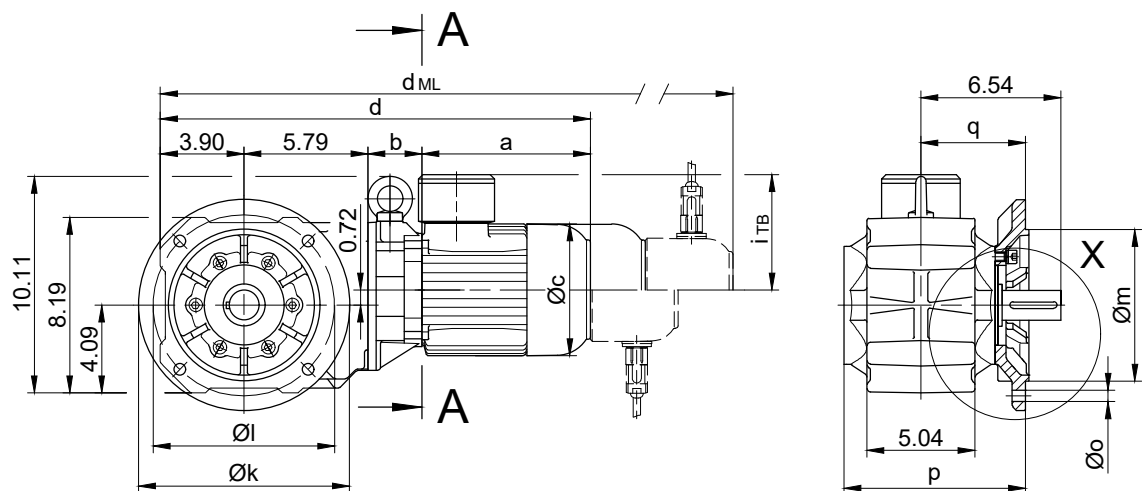
Dimension - Standard Imperial

BK20 - BK20Z

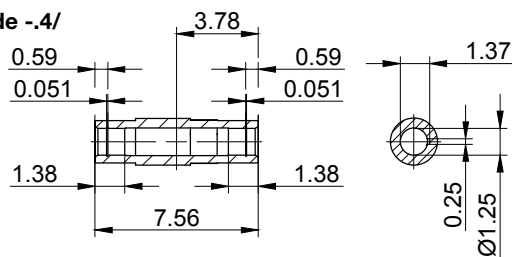
Flange with clearance holes at front

Code -3.V/

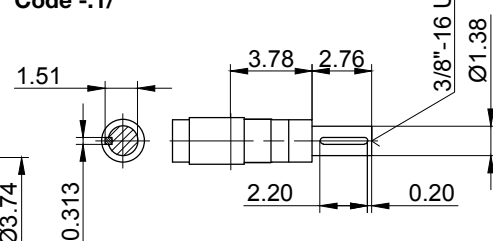
(Code -2.V/)



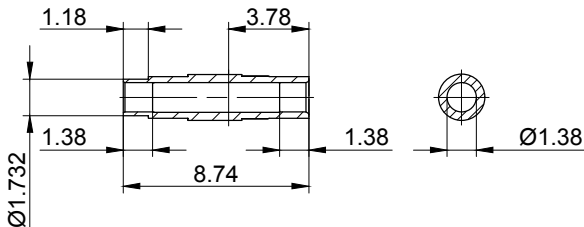
Code -4/



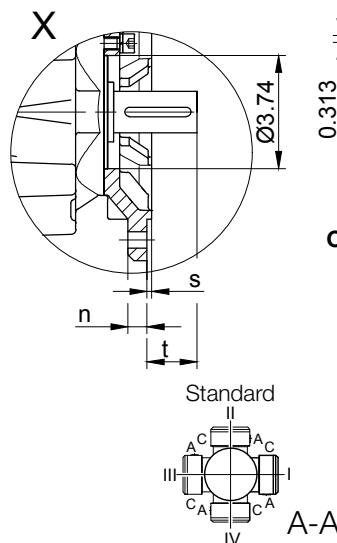
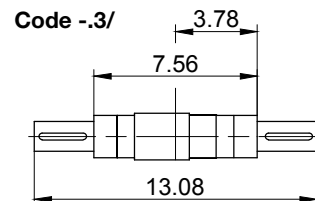
Code -1/



Code -5/



Code -3/



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	
BK20..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	8.484	4.882	0.157	1.677	
BK20..	Code -2.V/	7.874	6.496	5.118	0.472	0.433	8.130	4.528	0.138	2.012	

Type	a	b	c	d	i	i_{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK20Z-../D04.A.	5.61	3.94	4.35	19.23	3.54	4.41	20.94	22.67	24.39	-
BK20-../D..05.A.	6.72	2.36	4.84	18.76	3.98	4.61	20.42	22.80	24.28	-
BK20Z-../D..05.A.	6.72	4.02	4.84	20.42	3.98	4.61	22.07	24.45	25.93	-
BK20-../D..06.A.	6.70	2.36	4.84	18.75	3.90	4.69	20.41	22.79	24.26	-
BK20Z-../D..06.A.	6.70	4.02	4.84	20.41	3.90	4.69	22.06	24.44	25.92	-
BK20-../D..07.A.	7.49	2.36	4.84	19.54	3.90	4.69	21.19	23.57	25.05	-
BK20Z-../D..07.A.	7.49	4.02	4.84	21.19	3.90	4.69	22.85	25.23	26.70	-
BK20-../D..08.A.	7.85	2.52	6.14	20.06	4.51	5.37	22.66	24.47	26.89	22.66
BK20Z-../D..08.A.	7.85	5.75	6.14	23.29	4.51	5.37	25.89	27.70	30.12	25.89
BK20-../D..08.B.	9.04	2.52	6.14	21.24	4.51	5.37	23.84	25.65	28.05	23.84
BK20Z-../D..08.B.	9.04	5.75	6.14	24.47	4.51	5.37	27.07	28.88	31.28	27.07
BK20-../D..09.A.	9.86	3.09	6.93	22.64	4.88	6.18	29.19	26.87	30.40	26.30
BK20-../D..09.B.	12.15	3.09	6.93	24.92	4.88	6.18	24.41	29.14	32.68	28.58

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

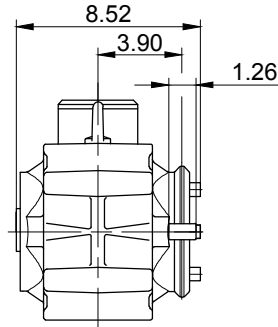
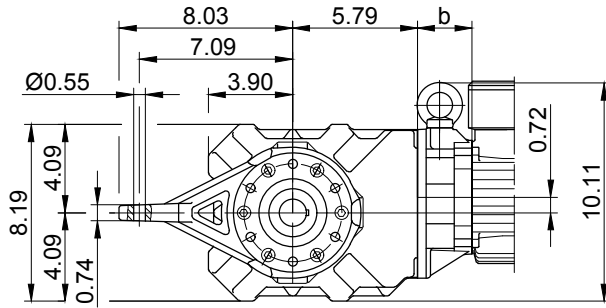
BK-series bevel-geared motors

Dimension - Standard Imperial

BK20 - BK20Z

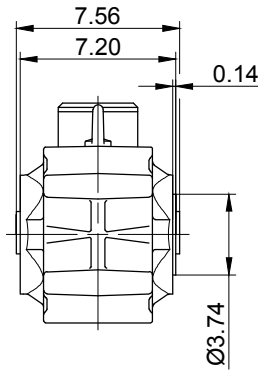
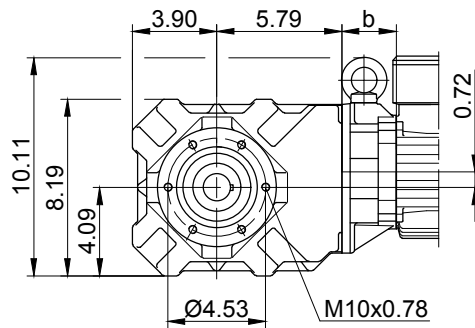
Torque arm at front

Code -5.V/



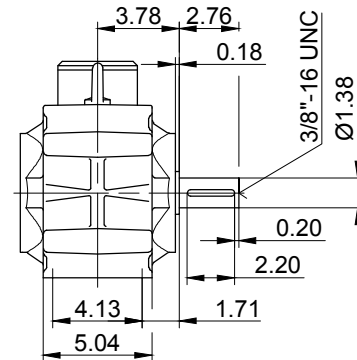
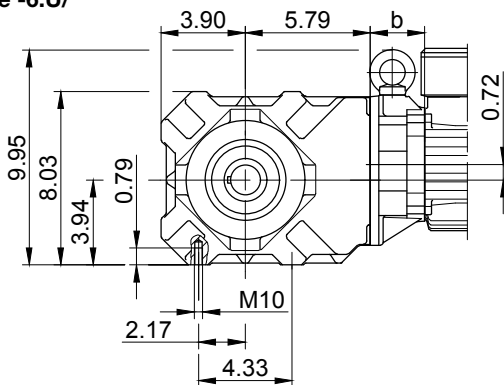
Flange with tapped holes at front

Code -7.V/



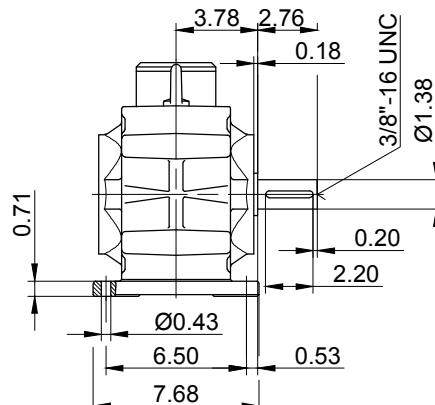
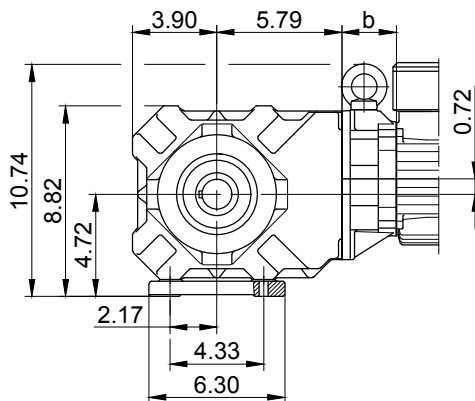
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

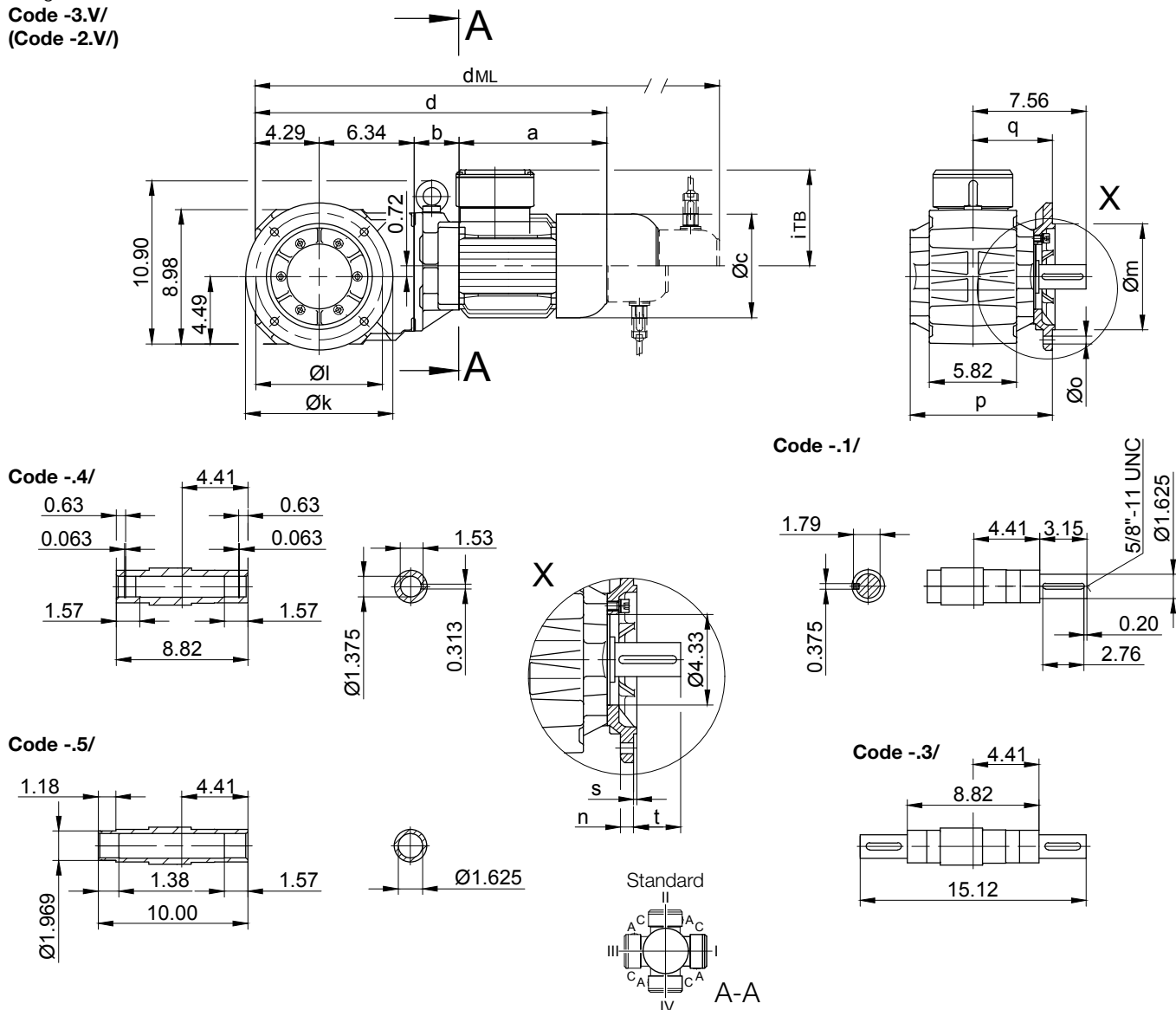
Dimension - Standard Imperial

BK30 - BK30Z

Flange with clearance holes at front

Code -3.V/

(Code -2.V/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BK30..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	9.528	5.315	0.157	2.244	-	
BK30..	Code -2.V/	7.874	6.496	5.118	0.472	0.433	9.409	5.197	0.138	2.343	-	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK30-../D..05.A.	6.72	2.28	4.84	19.63	3.98	4.61	21.28	23.67	25.14	-
BK30Z-../D..05.A.	6.72	5.26	4.84	22.60	3.98	4.61	24.26	26.64	28.11	-
BK30-../D..06.A.	6.70	2.28	4.84	19.62	3.90	4.69	21.27	23.65	25.13	-
BK30Z-../D..06.A.	6.70	5.26	4.84	22.59	3.90	4.69	24.24	26.63	28.10	-
BK30-../D..07.A.	7.49	2.28	4.84	20.41	3.90	4.69	22.06	24.44	25.92	-
BK30Z-../D..07.A.	7.49	5.26	4.84	23.38	3.90	4.69	25.03	27.41	28.89	-
BK30-../D..08.A.	7.85	2.44	6.14	20.93	4.51	5.37	23.52	25.33	27.76	23.52
BK30Z-../D..08.A.	7.85	5.41	6.14	23.90	4.51	5.37	26.50	28.31	30.73	26.50
BK30-../D..08.B.	9.04	2.44	6.14	22.11	4.51	5.37	24.70	26.52	28.92	24.70
BK30Z-../D..08.B.	9.04	5.41	6.14	25.08	4.51	5.37	27.68	29.49	31.89	27.68
BK30-../D..09.A.	9.86	3.01	6.93	23.50	4.88	6.18	27.17	27.74	31.26	27.17
BK30Z-../D..09.A.	9.86	5.98	6.93	26.48	4.88	6.18	30.14	30.71	34.24	30.14
BK30-../D..09.B.	12.15	3.01	6.93	25.79	4.88	6.18	29.45	30.00	33.55	29.45
BK30Z-../D..09.B.	12.15	5.98	6.93	28.76	4.88	6.18	32.42	32.98	36.52	32.42
BK30-../D..11.A.	12.56	3.27	8.58	26.46	6.50	6.93	30.31	30.69	34.33	30.31
BK30-../D..11.B.	15.24	3.27	8.58	29.13	6.50	6.93	32.91	33.37	37.01	32.91

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

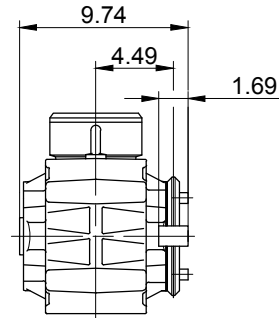
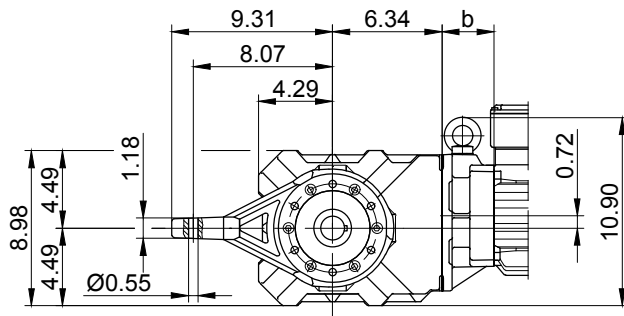
BK-series bevel-geared motors

Dimension - Standard Imperial

BK30 - BK30Z

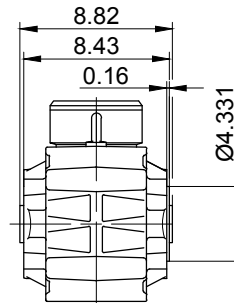
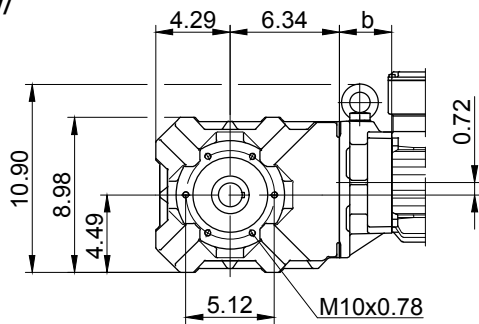
Torque arm at front

Code -5.V/



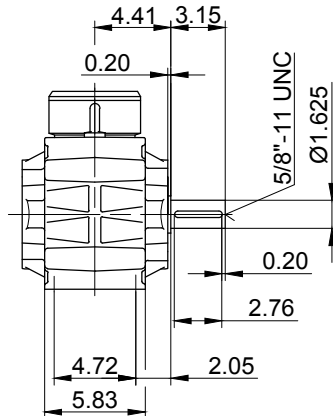
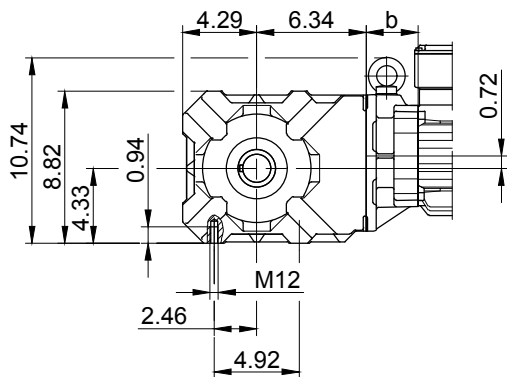
Flange with tapped holes at front

Code -7.V/



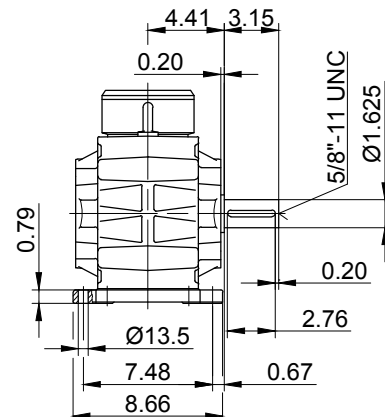
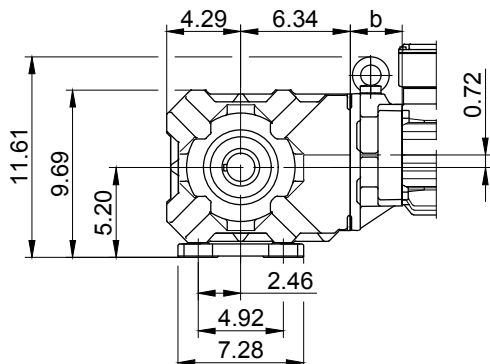
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

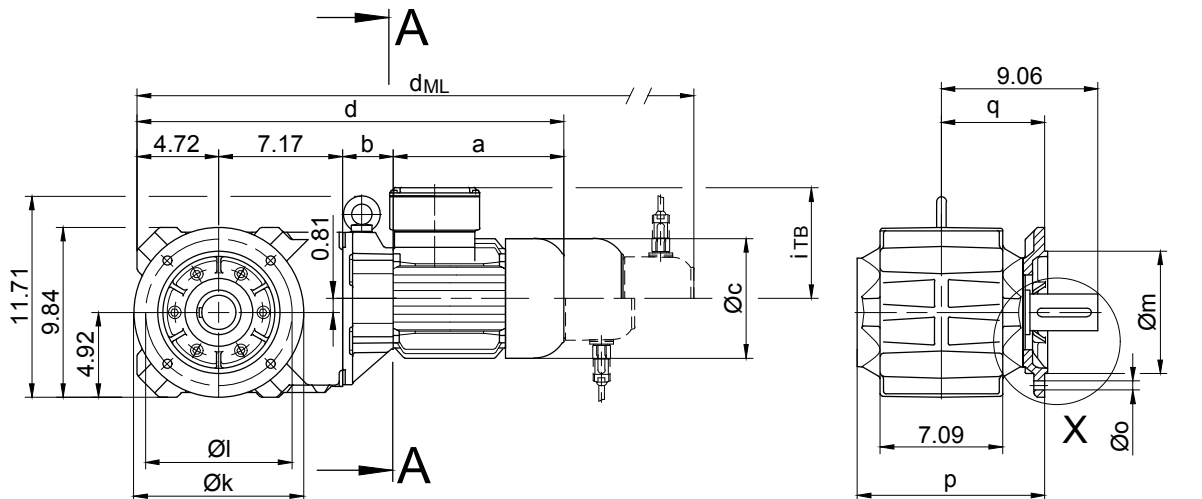
BK-series bevel-geared motors

Dimension - Standard Imperial

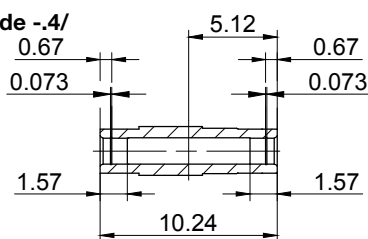
BK40 - BK40Z

Flange with clearance holes at front

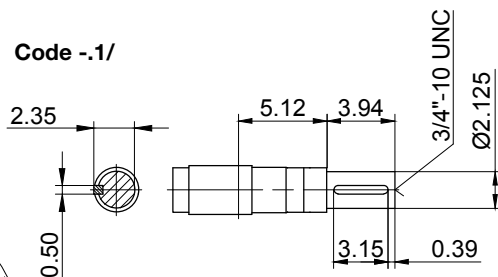
Code -3.V/
(Code -4.V/)



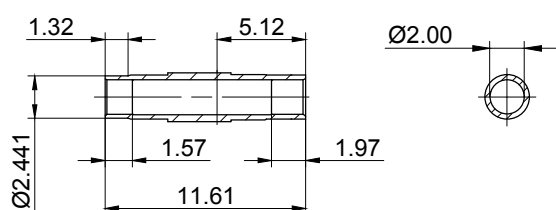
Code -4/



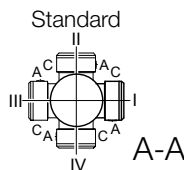
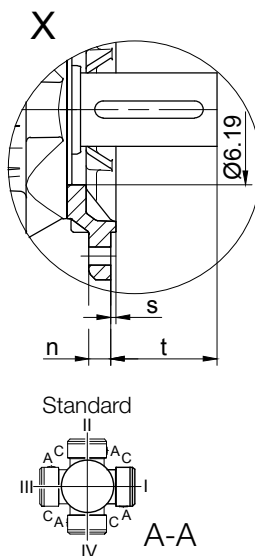
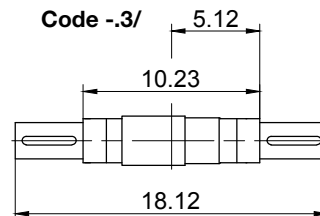
Code -1/



Code -5/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK40..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	10.866	5.984	0.157	3.074	-
BK40..	Code -4.V/	11.811	10.433	9.055	0.787	0.531	11.102	6.220	0.157	2.838	-

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK40Z-../D..05.A.	6.72	5.45	4.84	24.06	3.98	4.61	25.71	28.09	29.57	-
BK40Z-../D..06.A.	6.70	5.45	4.84	24.05	3.90	4.69	25.70	28.08	29.56	-
BK40Z-../D..07.A.	7.49	5.45	4.84	24.83	3.90	4.69	26.49	28.87	30.35	-
BK40-../D..08.A.	7.85	2.36	6.14	22.11	4.51	5.37	24.70	26.52	28.94	24.70
BK40Z-../D..08.A.	7.85	5.61	6.14	25.35	4.51	5.37	27.95	29.76	32.19	27.95
BK40-../D..08.B.	9.04	2.36	6.14	23.29	4.51	5.37	25.89	27.70	30.10	25.89
BK40Z-../D..08.B.	9.04	5.61	6.14	26.54	4.51	5.37	29.13	30.94	33.35	29.13
BK40-../D..09.A.	9.86	2.93	6.93	24.69	4.88	6.18	28.35	28.92	32.44	28.35
BK40Z-../D..09.A.	9.86	6.18	6.93	27.93	4.88	6.18	31.59	32.17	35.69	31.59
BK40-../D..09.B.	12.15	2.93	6.93	26.97	4.88	6.18	30.63	31.19	34.73	30.63
BK40Z-../D..09.B.	12.15	6.18	6.93	30.22	4.88	6.18	33.88	34.43	37.98	33.88
BK40-../D..11.A.	12.56	3.19	8.58	27.64	6.50	6.93	31.50	31.87	35.52	31.50
BK40-../D..11.B.	15.24	3.19	8.58	30.31	6.50	6.93	34.09	34.55	38.19	34.09

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

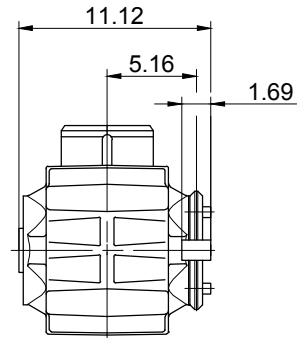
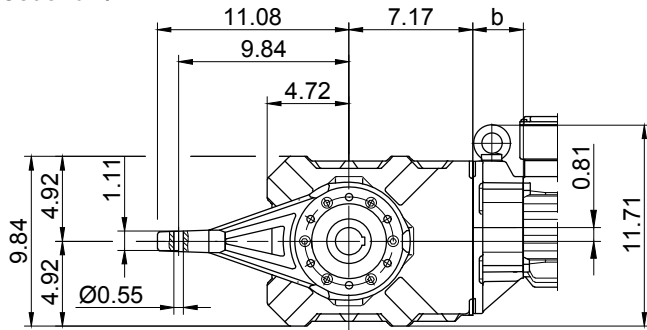
BK-series bevel-geared motors

Dimension - Standard Imperial

BK40 - BK40Z

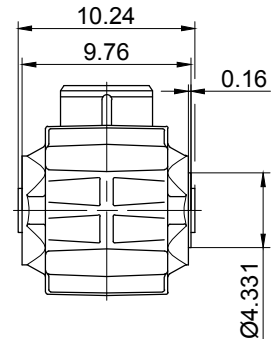
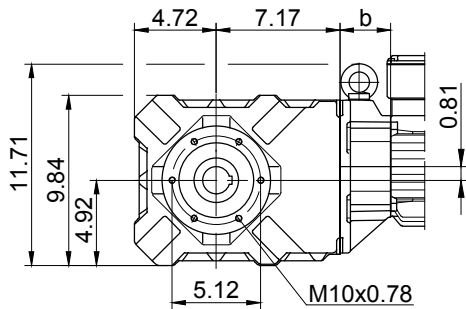
Torque arm at front

Code -5.V/



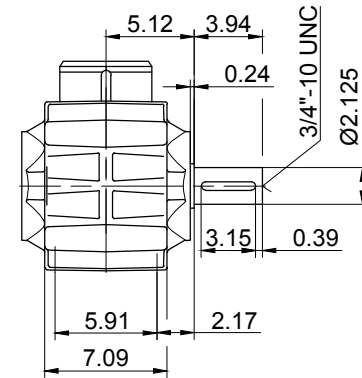
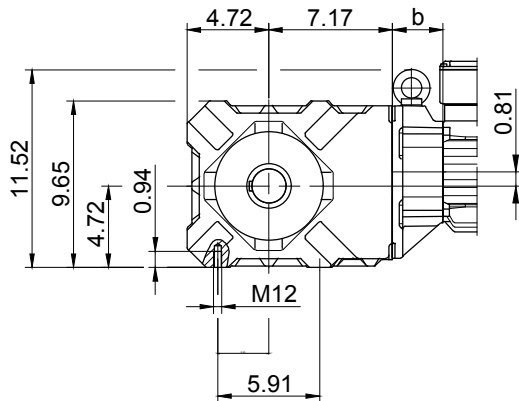
Flange with tapped holes at front

Code -7.V/



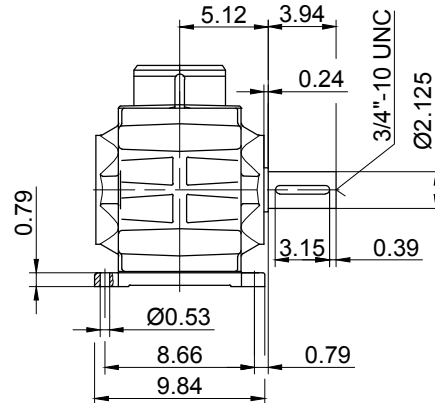
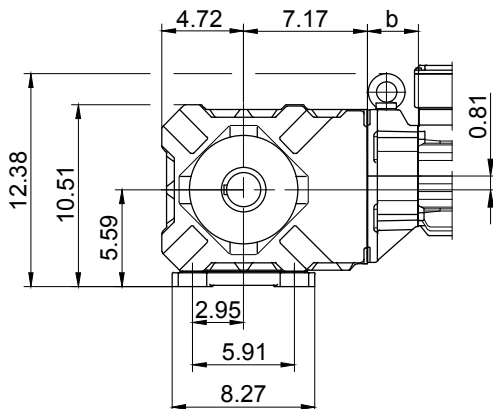
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

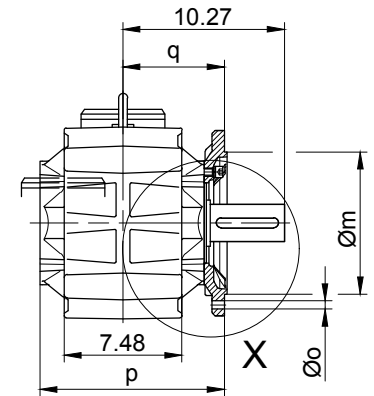
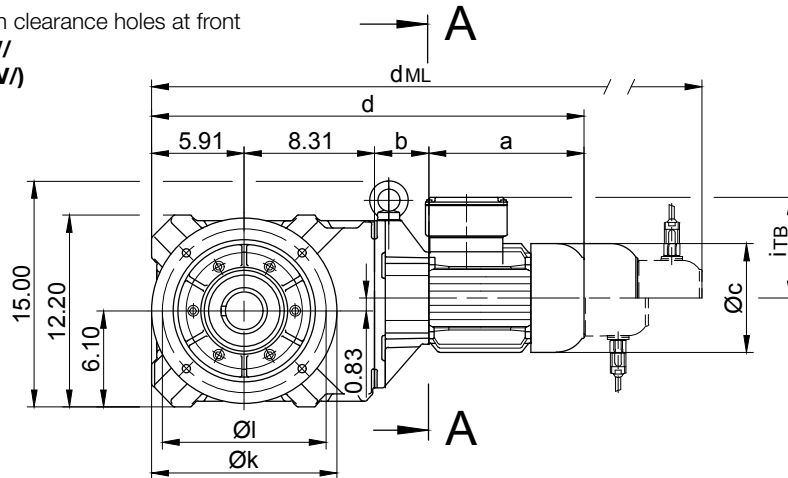
BK-series bevel-geared motors

Dimension - Standard Imperial

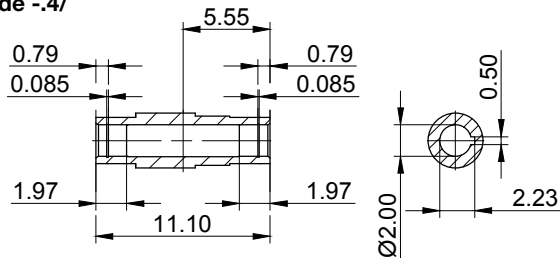
BK50 - BK50Z

Flange with clearance holes at front

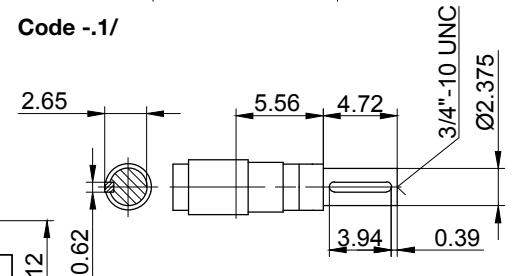
Code -3.V/
(Code -2.V/)



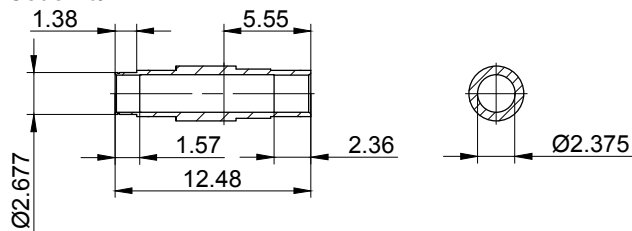
Code -4/



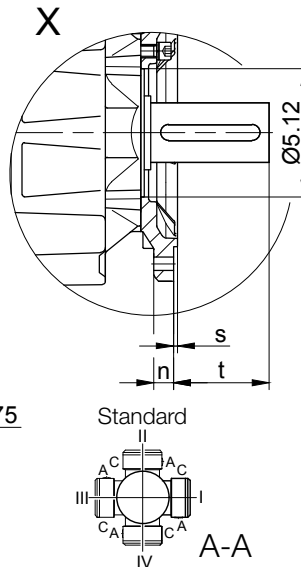
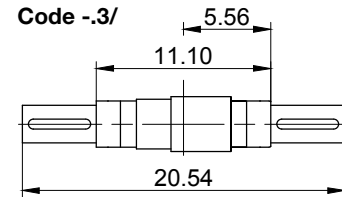
Code -1/



Code -5/



Code -3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BK50..	Code -3.V/	11.811	10.433	9.055	0.787	0.531	11.772	6.457	0.157	3.814	-	
BK50..	Code -2.V/	9.843	8.465	7.087	0.630	0.531	11.654	6.339	0.157	3.933	-	

Type	a	b	c	d	i	Design with motor extensions				
						iT _B	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK50Z-../D..05.A.	6.72	6.10	4.84	27.03	3.98	4.61	28.69	31.07	32.54	-
BK50Z-../D..06.A.	6.70	6.10	4.84	27.02	3.90	4.69	28.67	31.06	32.53	-
BK50Z-../D..07.A.	7.49	6.10	4.84	27.81	3.90	4.69	29.46	31.84	33.32	-
BK50-../D..08.A.	7.85	2.87	6.14	24.94	4.51	5.37	27.54	29.35	31.77	27.54
BK50Z-../D..08.A.	7.85	6.26	6.14	28.33	4.51	5.37	30.93	32.74	35.16	30.93
BK50-../D..08.B.	9.04	2.87	6.14	26.12	4.51	5.37	28.72	30.53	32.93	28.72
BK50Z-../D..08.B.	9.04	6.26	6.14	29.51	4.51	5.37	32.11	33.92	36.32	32.11
BK50-../D..09.A.	9.86	3.44	6.93	27.52	4.88	6.18	31.18	31.76	35.28	31.18
BK50Z-../D..09.A.	9.86	6.83	6.93	30.91	4.88	6.18	34.57	35.14	38.67	34.57
BK50-../D..09.B.	12.15	3.44	6.93	29.80	4.88	6.18	33.46	34.02	37.56	33.46
BK50Z-../D..09.B.	12.15	6.83	6.93	33.19	4.88	6.18	36.85	37.41	40.95	36.85
BK50-../D..11.A.	12.56	3.70	8.58	30.47	6.50	6.93	34.33	34.71	38.35	34.33
BK50-../D..11.B.	15.24	3.70	8.58	33.15	6.50	6.93	36.93	37.39	41.03	36.93
BK50-../D..13.A.	15.47	4.21	10.16	33.90	8.54	8.54	38.27	38.11	42.25	38.15
BK50-../D..16.B.	17.89	4.76	12.20	36.87	9.57	9.57	42.52	41.09	46.60	42.52
BK50-../D..18.B.	21.34	5.63	13.70	41.18	11.34	11.34	47.07	45.34	51.15	47.07

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

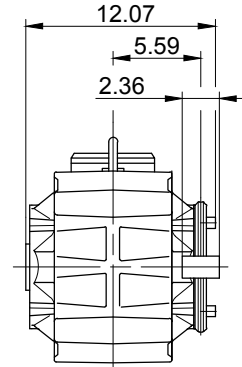
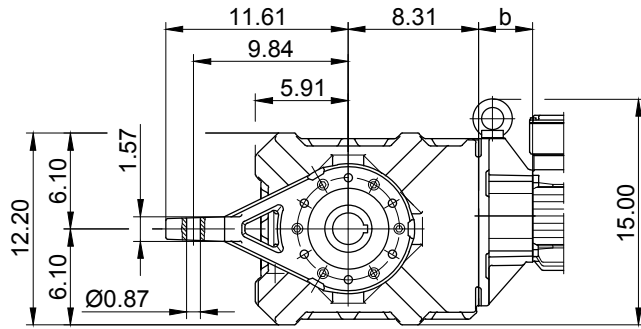
BK-series bevel-gear motors

Dimension - Standard Imperial

BK50 - BK50Z

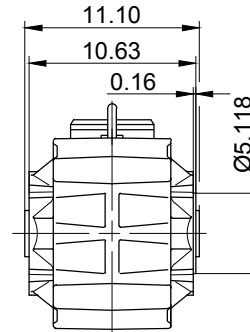
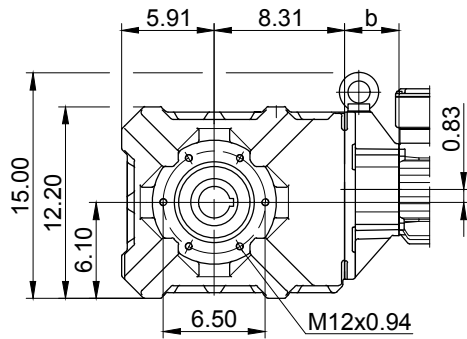
Torque arm at front

Code -5.V/



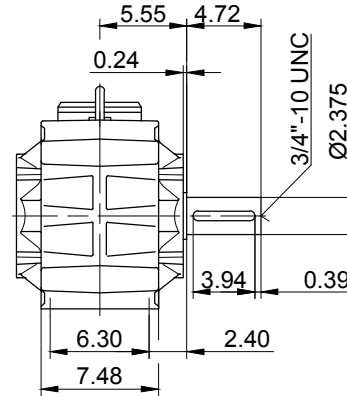
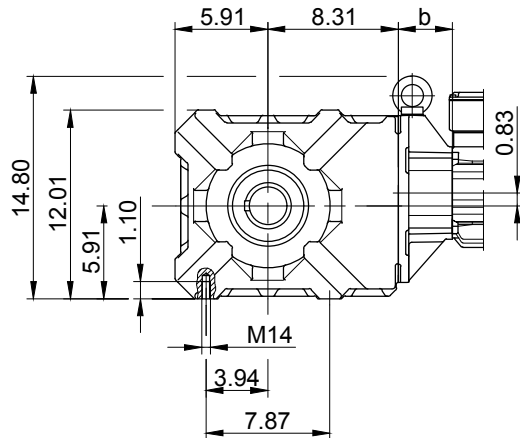
Flange with tapped holes at front

Code -7.V/



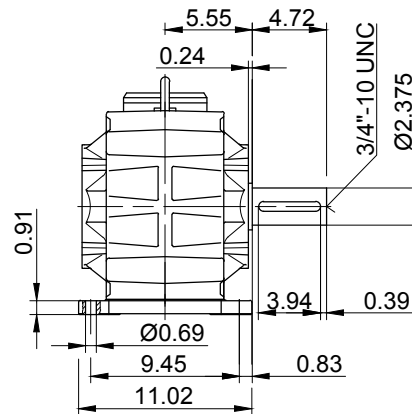
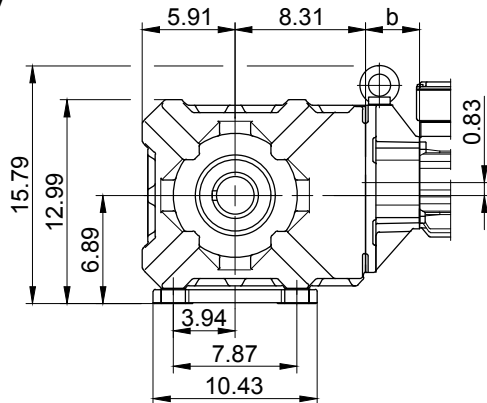
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

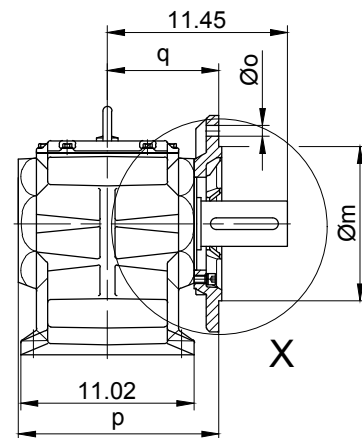
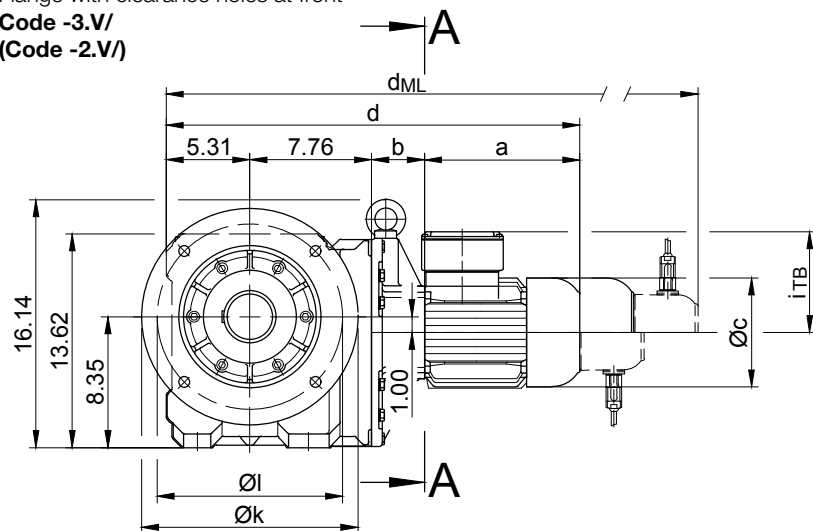
BK-series bevel-geared motors

Dimension - Standard Imperial

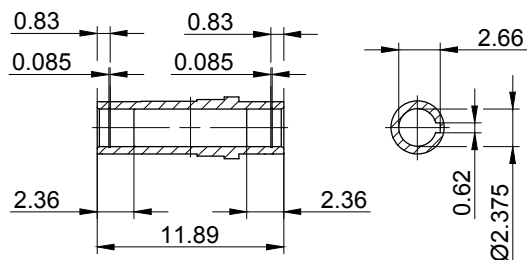
BK60 - BK60Z

Flange with clearance holes at front

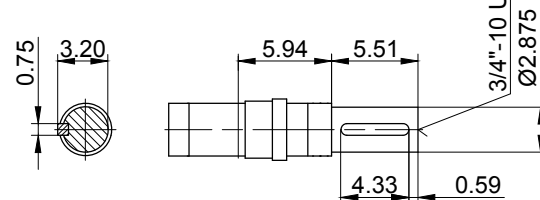
Code -3.V/
(Code -2.V/)



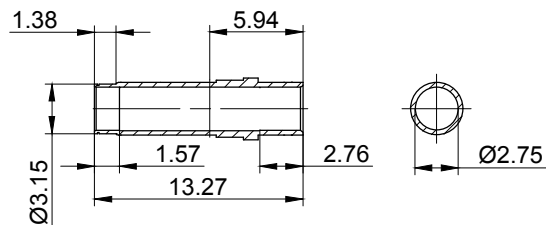
Code -4/



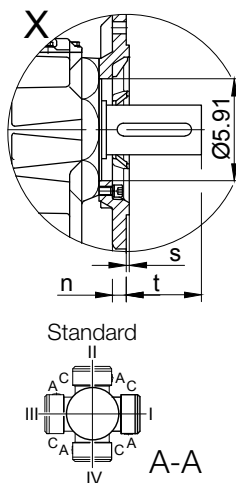
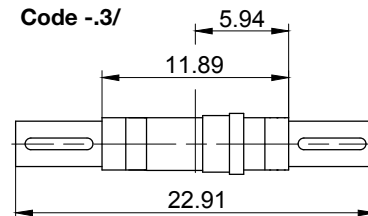
Code -1/



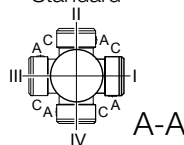
Code -5/



Code -3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK60..	Code -3.V/	13.780	11.811	9.843	0.787	0.689	12.756	7.087	0.197	4.408	-
BK60..	Code -2.V/	11.811	10.433	9.055	0.787	0.531	13.071	7.402	0.157	4.053	-

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK60Z-../D..08.A.	7.85	7.13	6.14	28.05	4.51	5.37	30.65	32.46	34.88	30.65
BK60Z-../D..08.B.	9.04	7.13	6.14	29.23	4.51	5.37	31.83	33.64	36.04	31.83
BK60-../D..09.A.	9.86	3.37	6.93	26.30	4.88	6.18	29.96	30.54	34.06	29.96
BK60Z-../D..09.A.	9.86	7.70	6.93	30.63	4.88	6.18	34.29	34.87	38.39	34.29
BK60-../D..09.B.	12.15	3.37	6.93	28.58	4.88	6.18	32.24	32.80	36.34	32.24
BK60Z-../D..09.B.	12.15	7.70	6.93	32.91	4.88	6.18	36.57	37.13	40.67	36.57
BK60-../D..11.A.	12.56	3.62	8.58	29.25	6.50	6.93	33.11	33.49	37.13	33.11
BK60Z-../D..11.A.	12.56	7.95	8.58	33.58	6.50	6.93	37.44	37.82	41.46	37.44
BK60-../D..11.B.	15.24	3.62	8.58	31.93	6.50	6.93	35.71	36.17	39.81	35.71
BK60Z-../D..11.B.	15.24	7.95	8.58	36.26	6.50	6.93	40.04	40.50	44.14	40.04
BK60-../D..13.A.	15.47	4.13	10.16	32.68	8.54	8.54	37.05	36.89	41.03	36.93
BK60-../D..16.B.	17.89	4.69	12.20	35.65	9.57	9.57	41.30	39.87	45.38	41.30
BK60-../D..18.B.	21.34	5.55	13.70	39.96	11.34	11.34	45.85	44.12	49.93	45.85

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

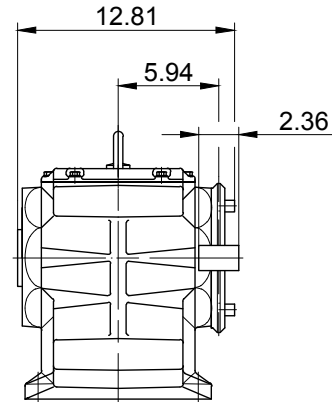
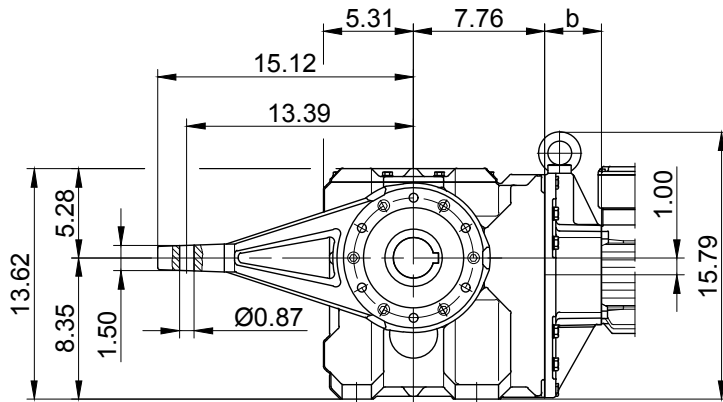
BK-series bevel-geared motors

Dimension - Standard Imperial

BK60 - BK60Z

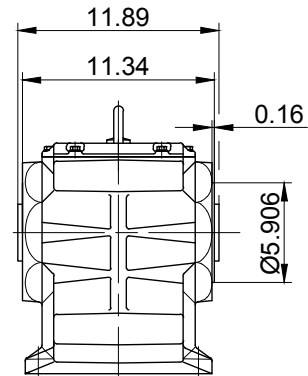
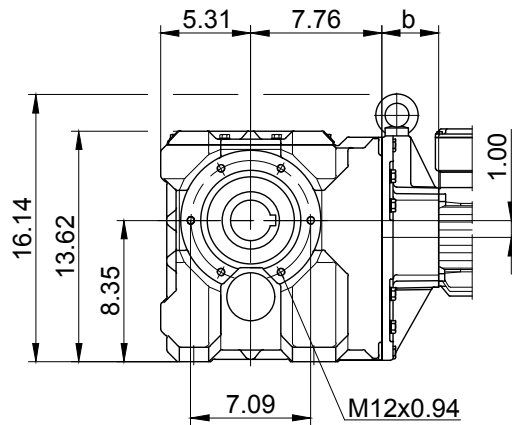
Torque arm at front

Code -5.V/



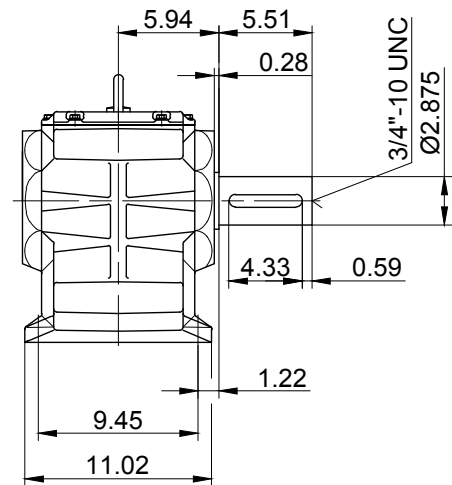
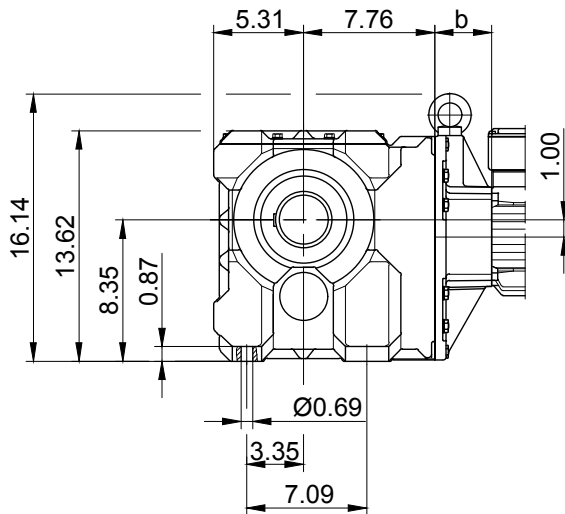
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



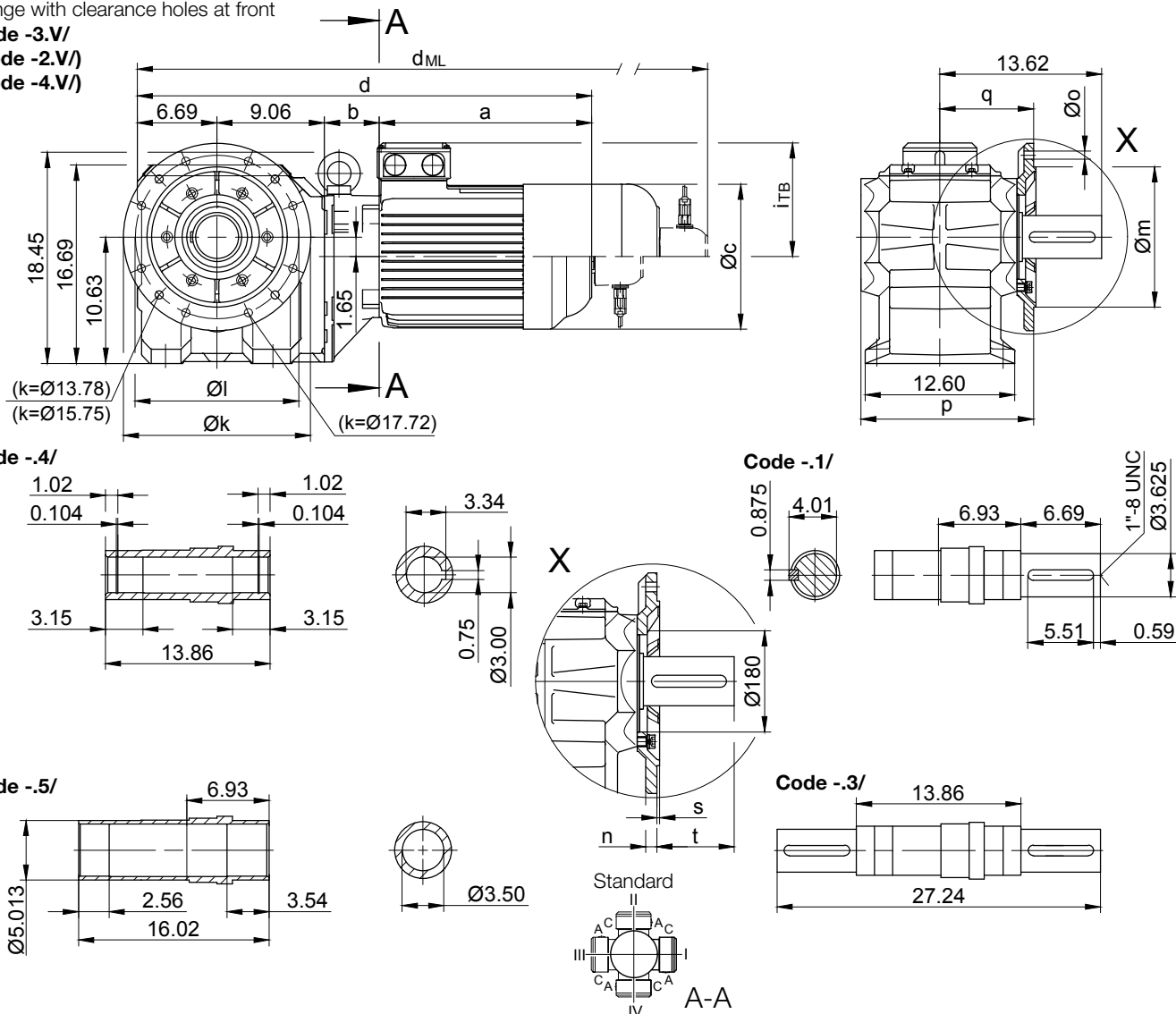
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Imperial

BK70 - BK70Z

Flange with clearance holes at front

Code -3.V/
(Code -2.V/)
(Code -4.V/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BK70..	Code -3.V/	15.748	13.780	11.811	0.787	4 x 0,689	14.528	7.874	0.197	5.784	-	
BK70...	Code -2.V/	13.780	11.811	9.843	0.787	4 x 0,689	14.528	7.874	0.197	5.784	-	
BK70...	Code -4.V/	17.117	15.748	13.780	0.866	8 x 0,689	14.921	8.268	0.197	5.391	-	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK70Z-../D..08.A.	7.85	7.95	6.14	31.56	4.51	5.37	34.15	35.96	38.39	34.15
BK70Z-../D..08.B.	9.04	7.95	6.14	32.74	4.51	5.37	35.33	37.15	39.55	35.33
BK70-../D..09.A.	9.86	3.29	6.93	28.90	4.88	6.18	32.56	33.13	36.66	32.56
BK70Z-../D..09.A.	9.86	8.52	6.93	34.13	4.88	6.18	37.80	38.37	41.89	37.80
BK70-../D..09.B.	12.15	3.29	6.93	31.18	4.88	6.18	34.84	35.40	38.94	34.84
BK70Z-../D..09.B.	12.15	8.52	6.93	36.42	4.88	6.18	40.08	40.63	44.18	40.08
BK70-../D..11.A.	12.56	3.54	8.58	31.85	6.50	6.93	35.71	36.09	39.73	35.71
BK70Z-../D..11.A.	12.56	8.78	8.58	37.09	6.50	6.93	40.94	41.32	44.96	40.94
BK70-../D..11.B.	15.24	3.54	8.58	34.53	6.50	6.93	38.31	38.76	42.41	38.31
BK70Z-../D..11.B.	15.24	8.78	8.58	39.76	6.50	6.93	43.54	44.00	47.64	43.54
BK70-../D..13.A.	15.47	4.06	10.16	35.28	8.54	8.54	39.65	39.49	43.63	39.53
BK70Z-../D..13.A.	15.47	9.29	10.16	40.51	8.54	8.54	44.88	44.73	48.86	44.76
BK70-../D..16.B.	17.89	4.61	12.20	38.25	9.57	9.57	43.90	42.46	47.98	43.90
BK70Z-../D..16.B.	17.89	9.84	12.20	43.48	9.57	9.57	49.13	47.70	53.21	49.13
BK70-../D..18.B.	21.34	5.47	13.70	42.56	11.34	11.34	48.44	46.72	52.52	48.44
BK70Z-../D..18.B.	21.34	10.71	13.70	47.80	11.34	11.34	53.68	51.95	57.76	53.68
BK70-../D..20.A.	27.70	6.14	14.29	49.59	11.89	11.89	54.61	53.74	58.76	49.59
BK70-../D..22.A.	27.70	6.14	14.29	49.59	11.89	11.89	54,61	53,74	58,76	49,59

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

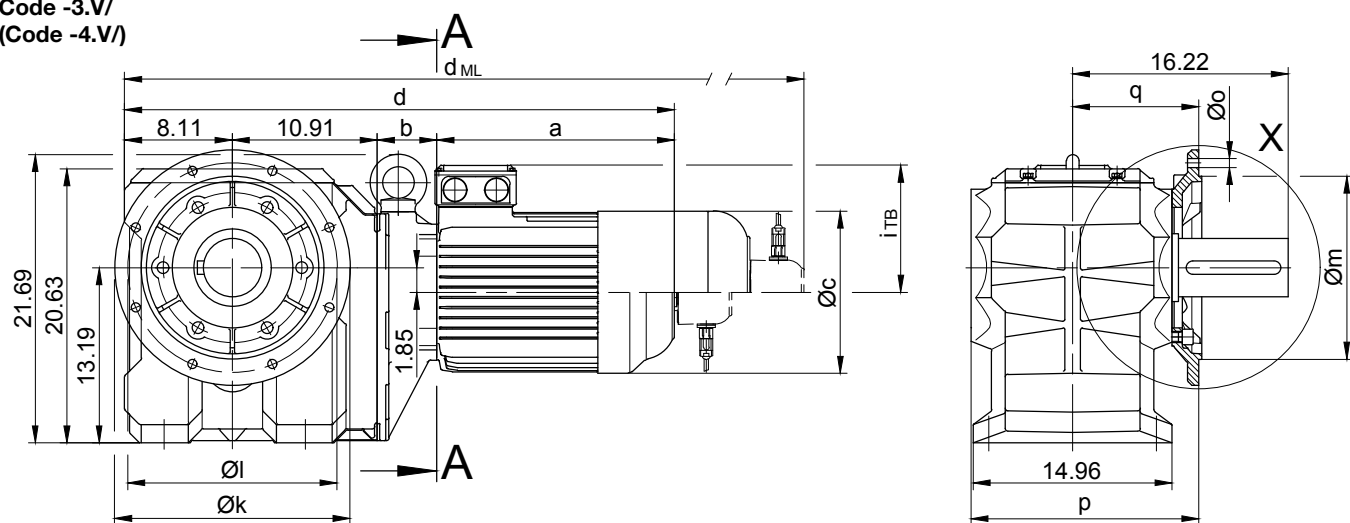
Dimension - Standard Imperial

BK80 - BK80Z

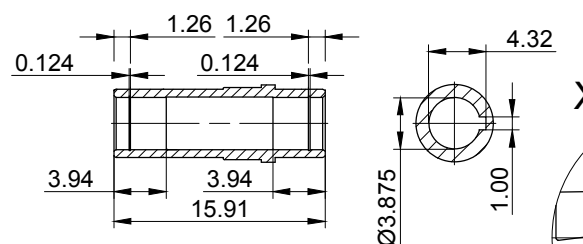
Flange with clearance holes at front

Code -3.V/

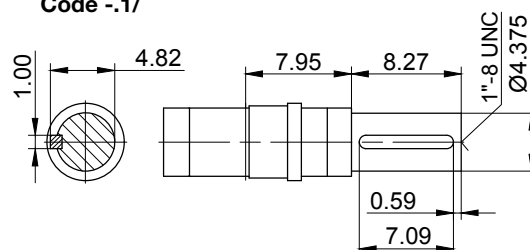
(Code -4.V/)



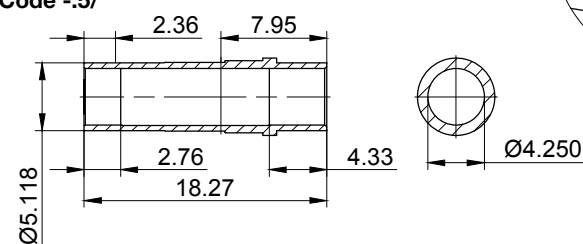
Code -.4/



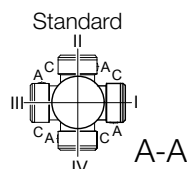
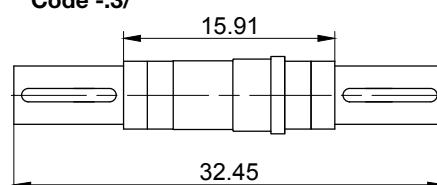
Code -.1/



Code -.5/



Code -.3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BK80..	Code -3.V/	17.717	15.748	13.780	0.866	0.689	17.283	9.646	0.197	6.616	-	
BK80..	Code -4.V/	21.654	19.685	17.717	0.866	0.689	17.480	9.843	0.197	6.420	-	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK80Z-../D..09.A.	9.86	9.94	6.93	38.82	4.88	6.18	42.48	43.06	46.58	42.48
BK80Z-../D..09.B.	12.15	9.94	6.93	41.10	4.88	6.18	44.76	45.32	48.86	44.76
BK80-../D..11.A.	12.56	3.43	8.58	35.00	6.50	6.93	38.86	39.24	42.88	38.86
BK80Z-../D..11.A.	12.56	10.20	8.58	41.77	6.50	6.93	38.86	46.01	49.65	45.63
BK80-../D..11.B.	15.24	3.43	8.58	37.68	6.50	6.93	41.46	41.91	45.56	41.46
BK80Z-../D..11.B.	15.24	10.20	8.58	44.45	6.50	6.93	48.23	48.69	52.33	48.23
BK80-../D..13.A.	15.47	3.94	10.16	38.43	8.54	8.54	42.80	42.64	46.78	42.68
BK80Z-../D..13.A.	15.47	10.71	10.16	45.20	8.54	8.54	49.57	49.41	53.55	49.45
BK80-../D..16.B.	17.89	4.49	12.20	41.40	9.57	9.57	47.05	45.61	51.13	47.05
BK80Z-../D..16.B.	17.89	11.26	12.20	48.17	9.57	9.57	53.82	52.39	57.90	53.82
BK80-../D..18.B.	21.34	5.35	13.70	45.71	11.34	11.34	47.91	49.87	55.67	51.59
BK80Z-../D..18.B.	21.34	12.13	13.70	52.48	11.34	11.34	54.69	56.64	62.44	58.37
BK80-../D..20.A.	27.70	6.02	14.29	52.74	11.89	11.89	57.76	56.89	61.91	52.74
BK80-../D..22.A.	27,70	6.02	14.29	52,74	11.89	11.89	57,76	56,89	61,91	52,74

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

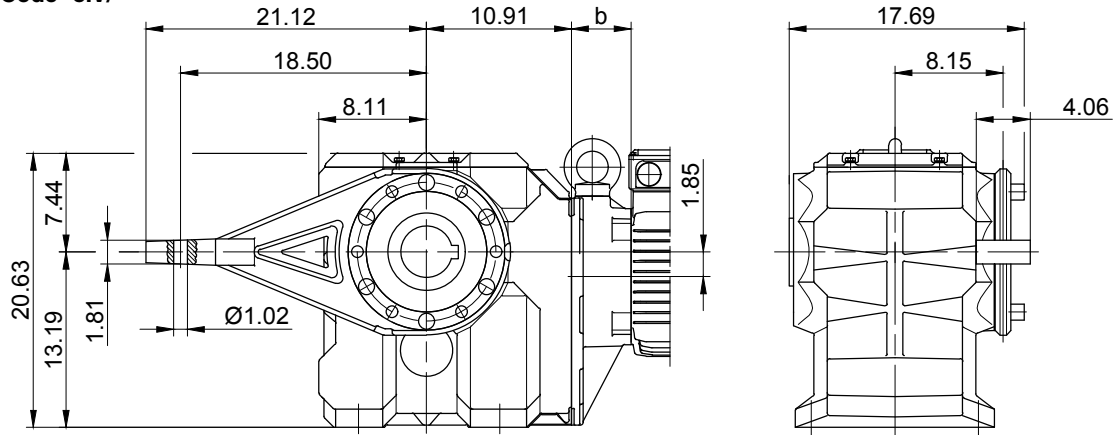
BK-series bevel-geared motors

Dimension - Standard Imperial

BK80 - BK80Z

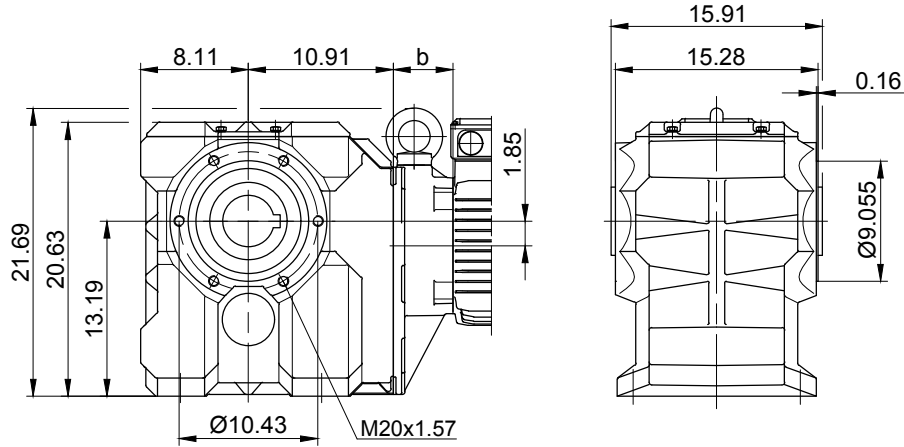
Torque arm at front

Code -5.V/



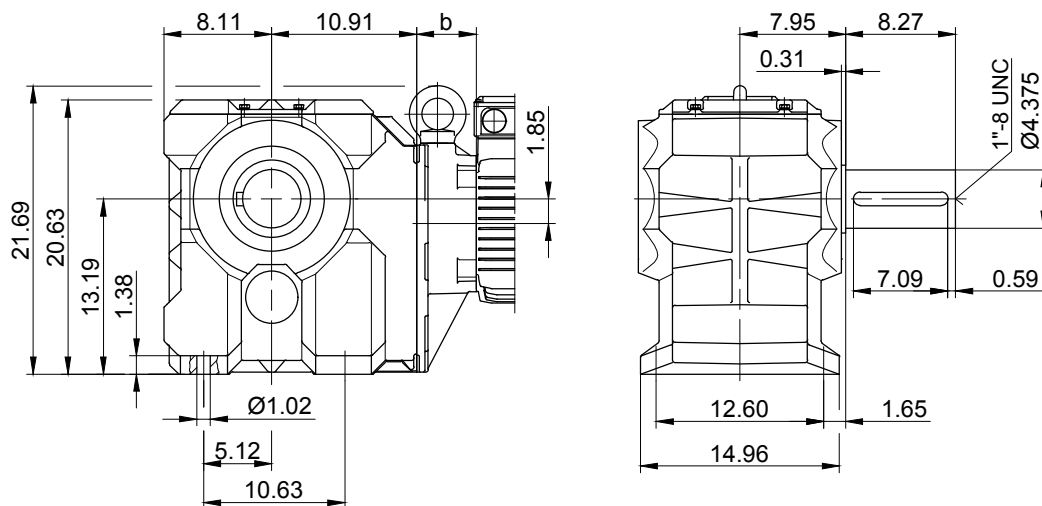
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

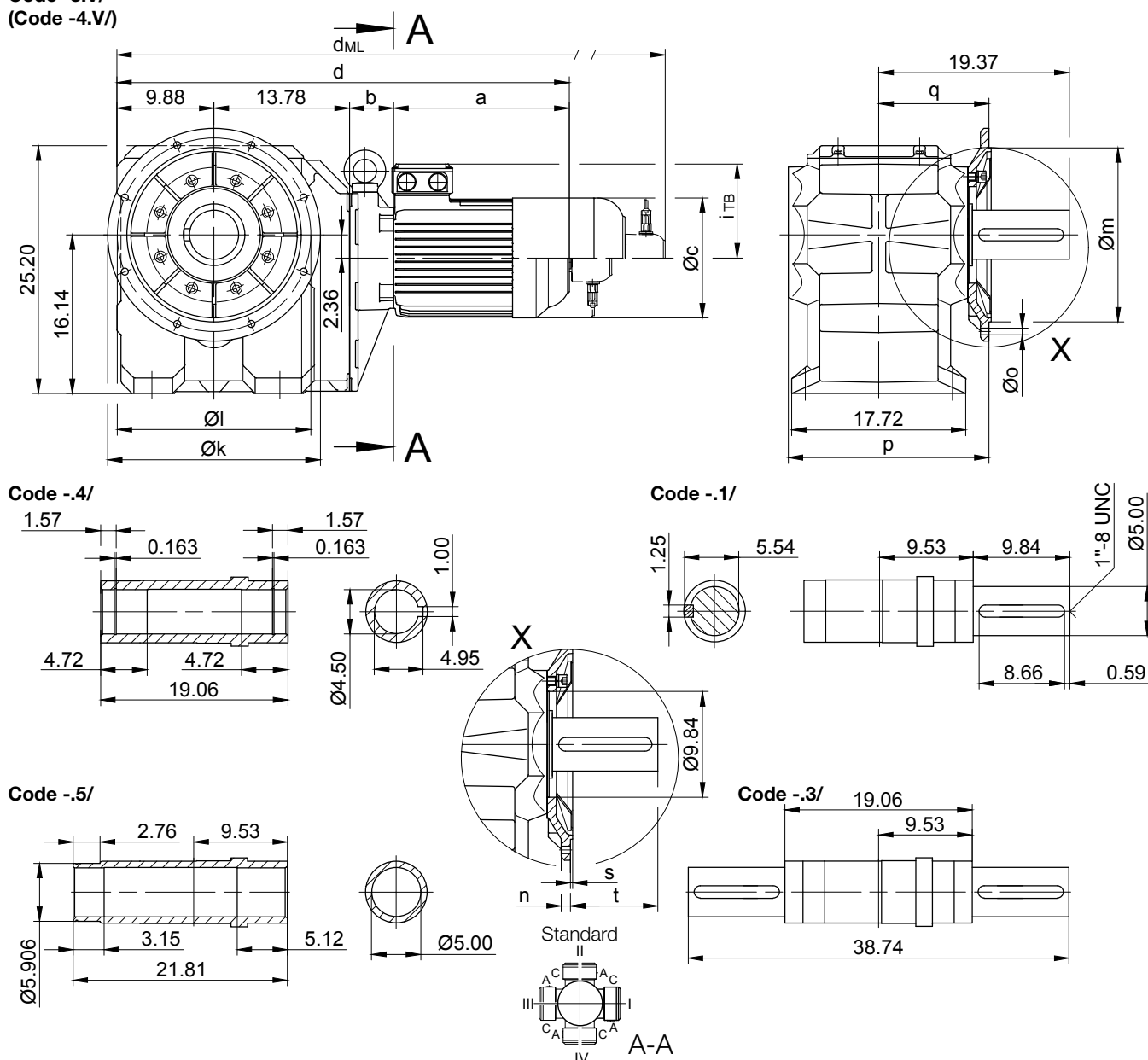
Dimension - Standard Imperial

BK90 - BK90Z

Flange with clearance holes at front

Code -3.V/

(Code -4.V/)



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BK90..	Code -3.V/	21.654	19.685	17.717	0.866	0.689	20.433	11.220	0.197	8.186	-	
BK90..	Code -4.V/	25.984	23.622	21.654	0.984	0.866	20.197	10.984	0.236	8.462	-	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK90Z-../D..09.A.	9.86	10.51	6.93	44.04	4.88	6.18	47.70	48.27	51.80	47.70
BK90Z-../D..09.B.	12.15	10.51	6.93	46.32	4.88	6.18	49.98	50.54	54.08	49.98
BK90Z-../D..11.A.	12.56	10.77	8.58	46.99	6.50	6.93	50.85	51.22	54.87	50.85
BK90Z-../D..11.B.	15.24	10.77	8.58	49.67	6.50	6.93	53.44	53.90	57.54	53.44
BK90-../D..13.A.	15.47	3.94	10.16	43.07	8.54	8.54	47.44	47.29	51.42	47.32
BK90Z-../D..13.A.	15.47	11.28	10.16	50.41	8.54	8.54	54.78	54.63	58.76	54.67
BK90-../D..16.B.	17.89	4.49	12.20	46.04	9.57	9.57	51.69	50.26	55.77	51.69
BK90Z-../D..16.B.	17.89	11.83	12.20	53.39	9.57	9.57	59.04	57.60	63.11	59.04
BK90-../D..18.B.	21.34	5.35	13.70	50.35	11.34	11.34	56.24	54.51	60.32	56.24
BK90Z-../D..18.B.	21.34	12.70	13.70	57.70	11.34	11.34	63.58	61.85	67.66	63.58
BK90-../D..20.A.	27.70	6.02	14.29	57.38	11.89	11.89	62.40	61.54	66.56	57.38
BK90-../D..22.A.	27.70	6.02	14.29	57.38	11.89	11.89	62.40	61.54	66.56	57.38

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

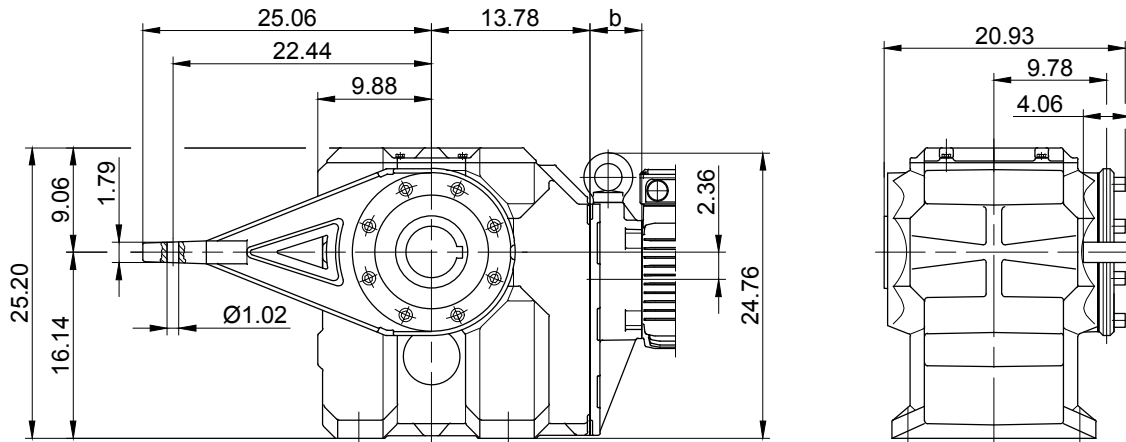
BK-series bevel-geared motors

Dimension - Standard Imperial

BK90 - BK90Z

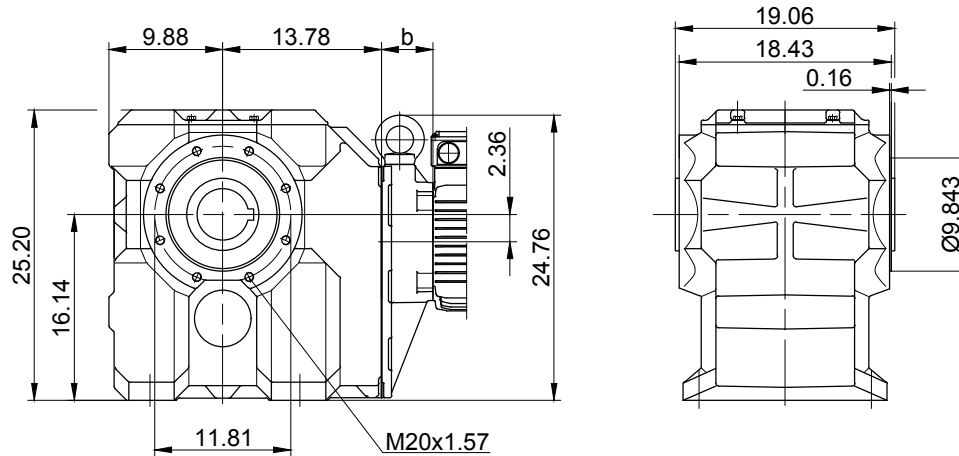
Torque arm at front

Code -5.V/



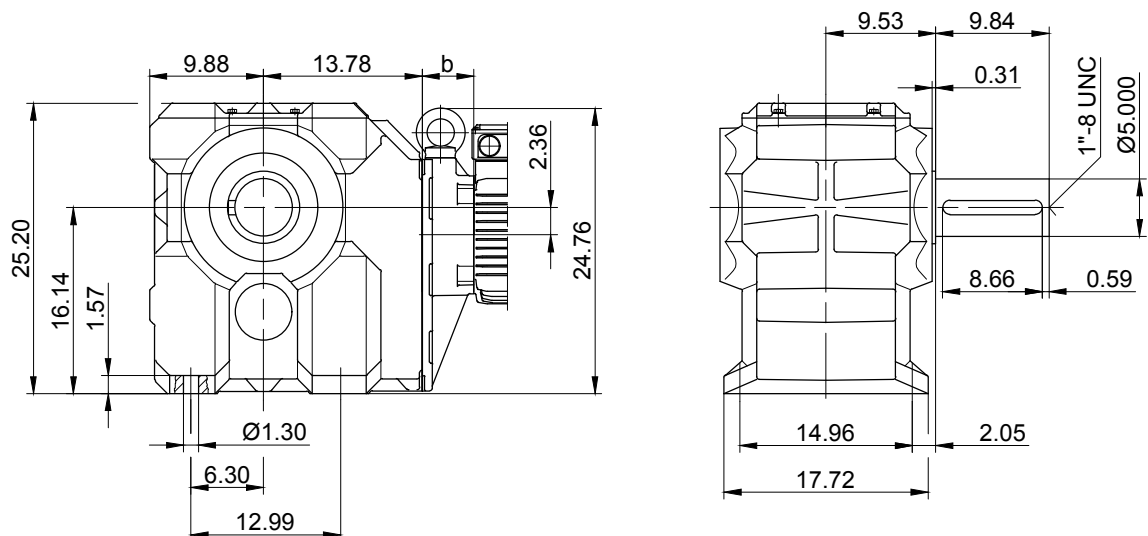
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

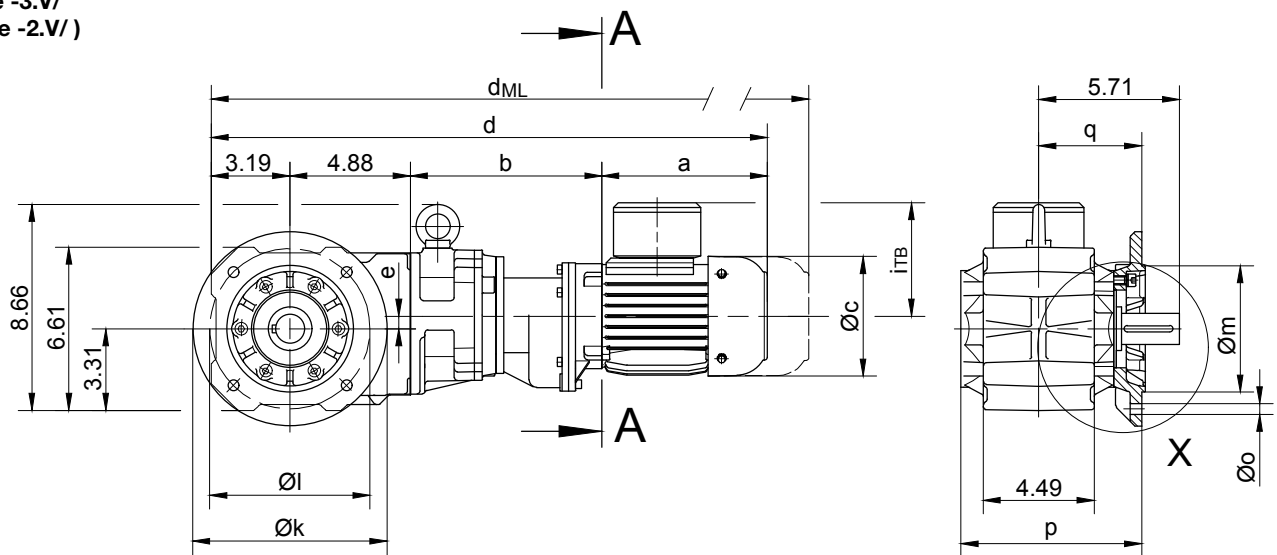
Dimension -Tandem Gearbox Imperial

BK10G06

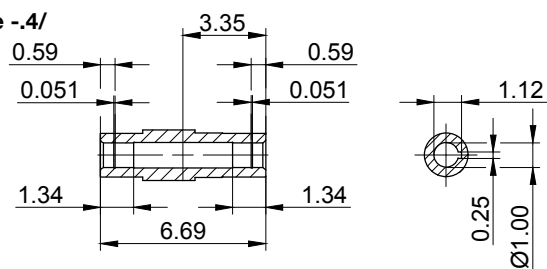
Flange with clearance holes at front

Code -3.V/

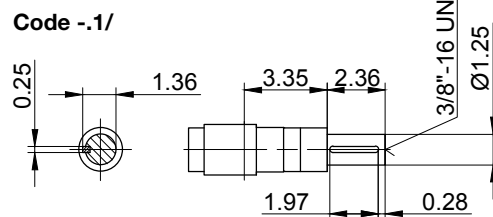
(Code -2.V/)



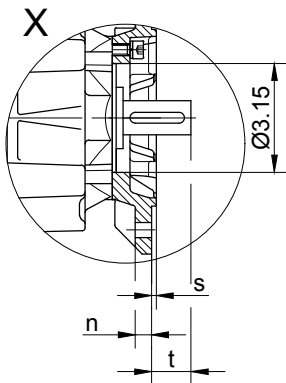
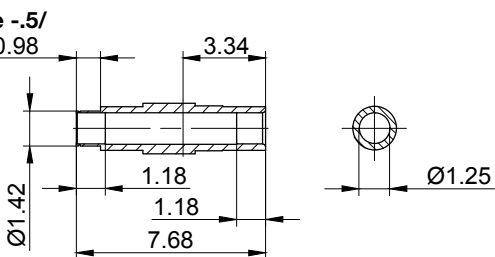
Code -4/



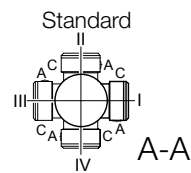
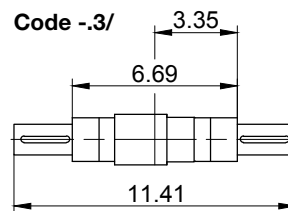
Code -1/



Code -5/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK10..	Code -3.V/	7.874	6.496	5.118	0.472	0.433	7.343	4.173	0.138	1.533	-
BK10..	Code -2.V/	6.299	5.118	4.331	0.394	0.354	7.067	3.898	0.138	1.809	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK10G06-.../D04.A.	5.61	7.60	4.35	21.28	3.54	4.41	22.99	24.72	26.43	-
BK10G06-.../D..05.A.	6.72	7.68	4.84	22.46	3.98	4.61	24.12	26.50	27.98	-
BK10G06-.../D..06.A.	6.70	7.68	4.84	22.45	3.90	4.69	24.11	26.49	27.96	-
BK10G06-.../D..07.A.	7.49	7.68	4.84	23.24	3.90	4.69	24.89	27.28	28.75	-
BK10G06-.../D..08.A.	7.85	9.41	6.14	25.33	4.51	5.37	27.93	29.74	32.17	27.93
BK10G06-.../D..08.B.	9.04	9.41	6.14	26.52	4.51	5.37	29.11	30.93	33.33	29.11

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

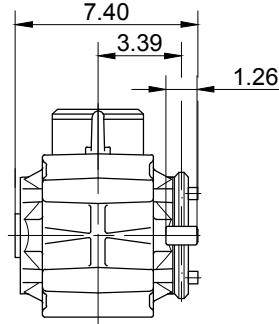
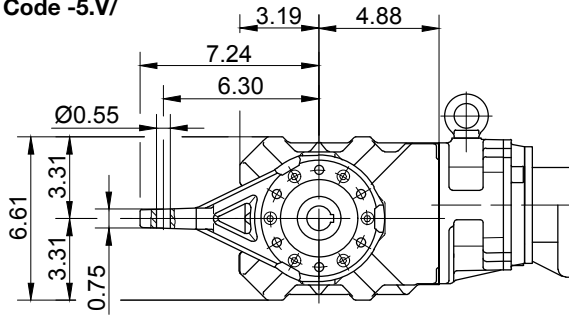
BK-series bevel-gear motors

Dimension -Tandem Gearbox Imperial

BK10G06

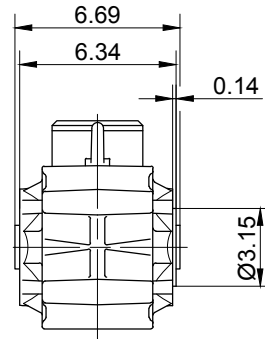
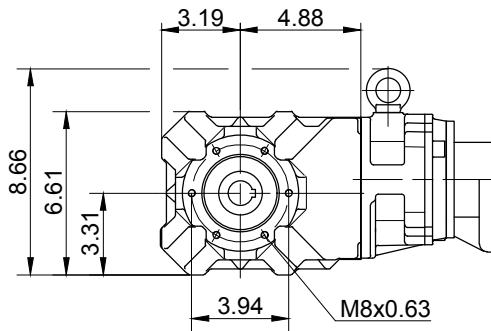
Torque arm at front

Code -5.V/



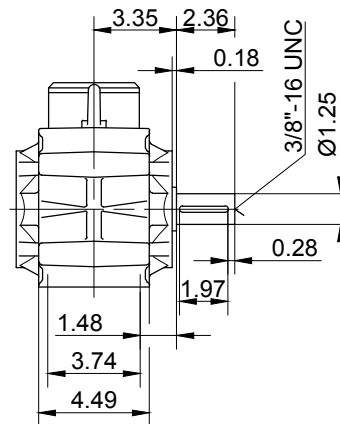
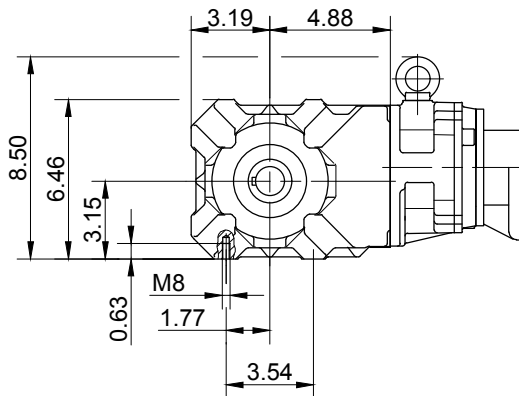
Flange with tapped holes at front

Code -7.V/



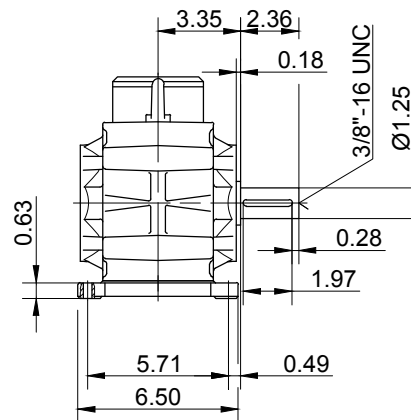
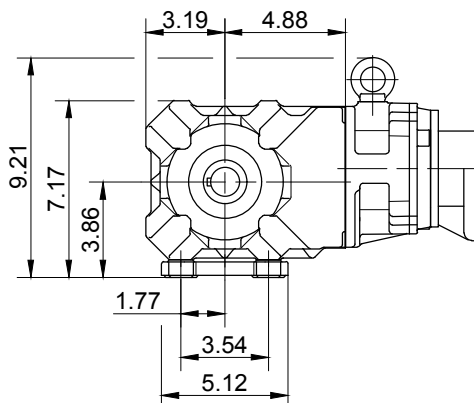
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

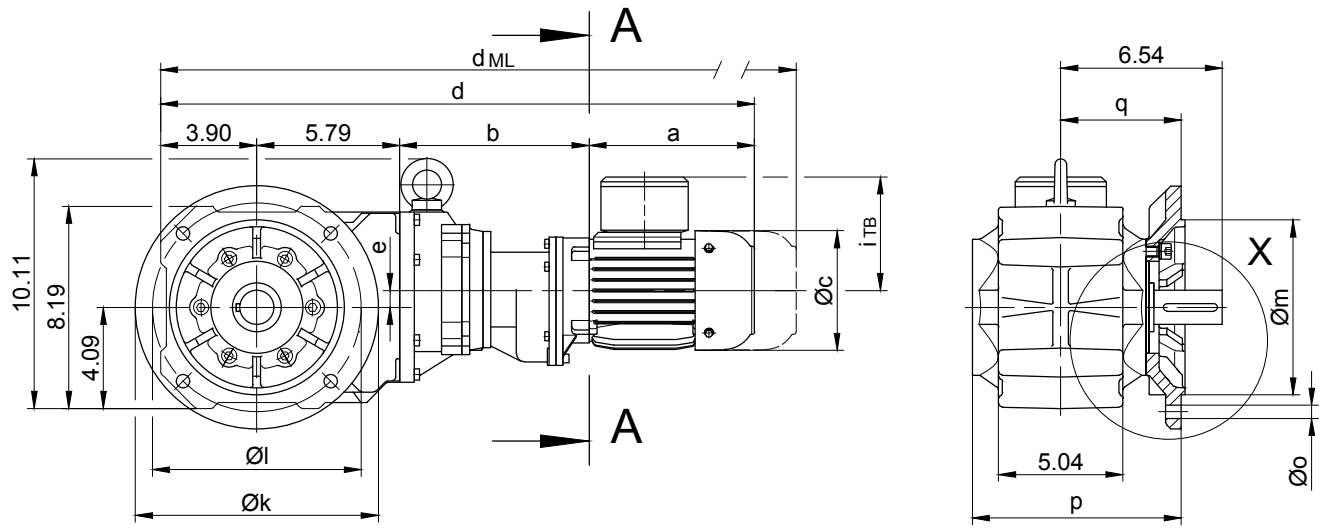
Dimension -Tandem Gearbox Imperial

BK20G06

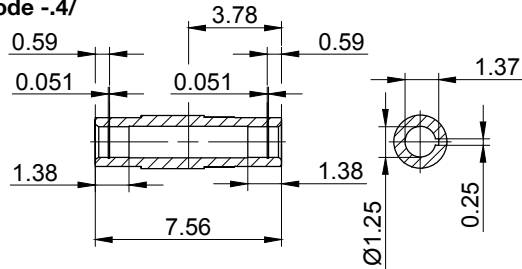
Flange with clearance holes at front

Code -3.V/

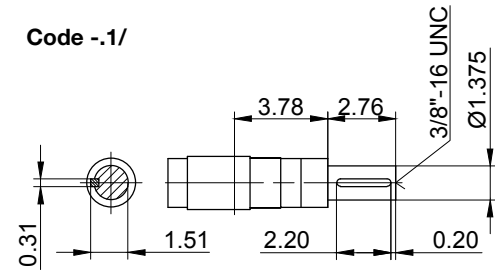
(Code -2.V/)



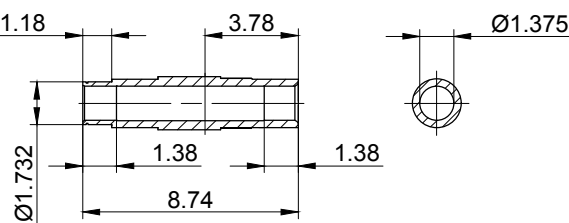
Code -.4/



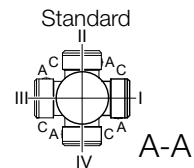
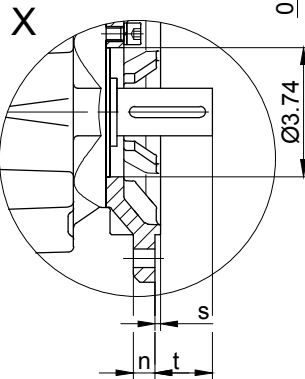
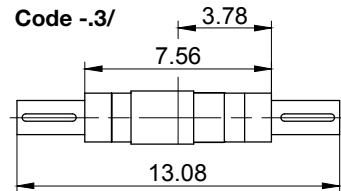
Code -.1/



Code -.5/



Code -.3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK20..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	8.484	4.882	0.157	1.677	-
BK20..	Code -2.V/	7.874	6.496	5.118	0.472	0.433	8.130	4.528	0.138	2.012	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions			
						i_TB	Brake	Encoder	Brake with Encoder
							d_ML	d_ML	d_ML
BK20G06-.../D04.A.	5.61	7.60	4.35	21.28	3.54	4.41	22.99	24.72	26.43
BK20G06-.../D..05.A.	6.72	7.68	4.84	22.46	3.98	4.61	24.12	26.50	27.98
BK20G06-.../D..06.A.	6.70	7.68	4.84	22.45	3.90	4.69	24.11	26.49	27.96
BK20G06-.../D..07.A.	7.49	7.68	4.84	23.24	3.90	4.69	24.89	27.28	28.75
BK20G06-.../D..08.A.	7.85	9.41	6.14	25.33	4.51	5.37	27.93	29.74	32.17
BK20G06-.../D..08.B.	9.04	9.41	6.14	26.52	4.51	5.37	29.11	30.93	33.33

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

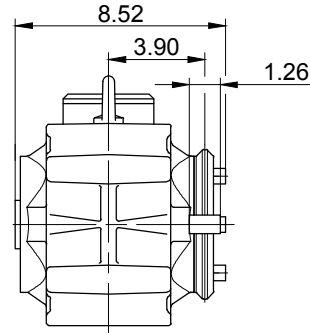
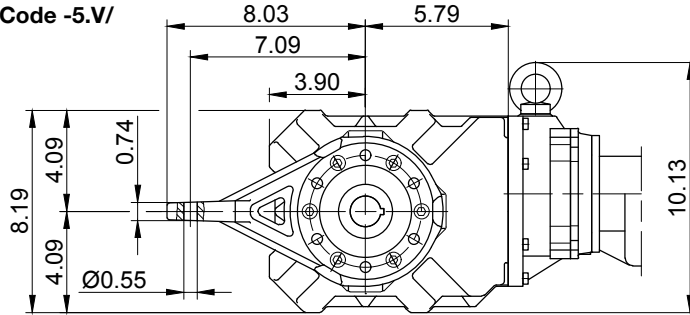
BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

BK20G06

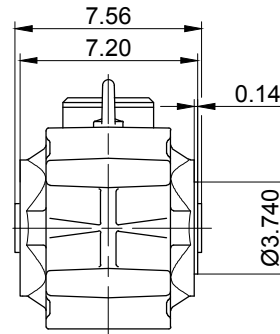
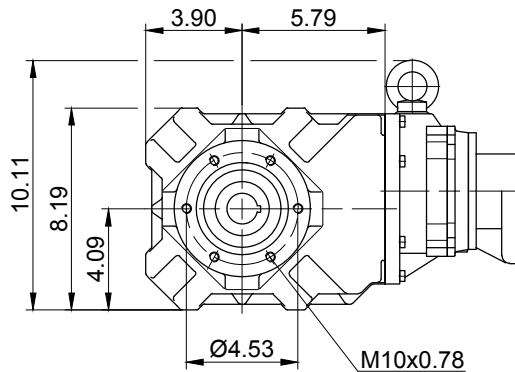
Torque arm at front

Code -5.V/



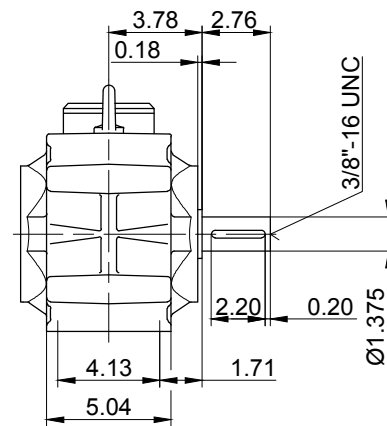
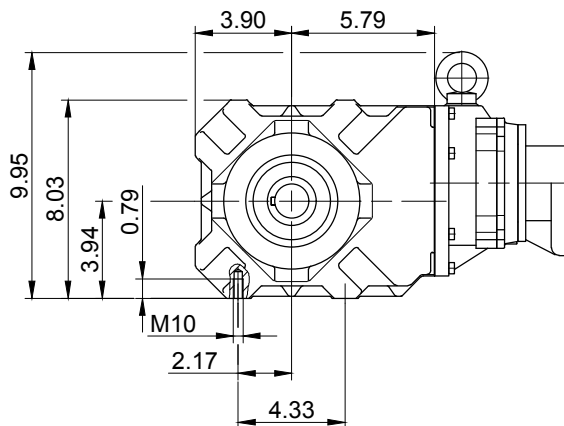
Flange with tapped holes at front

Code -7.V/



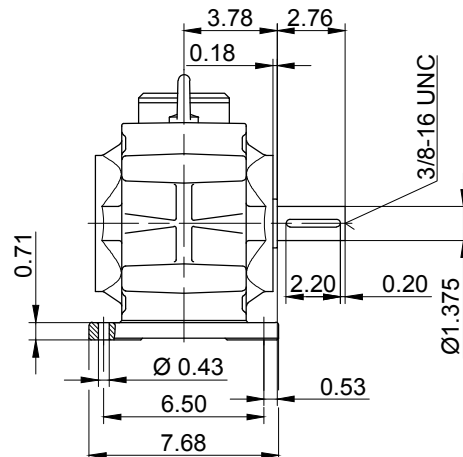
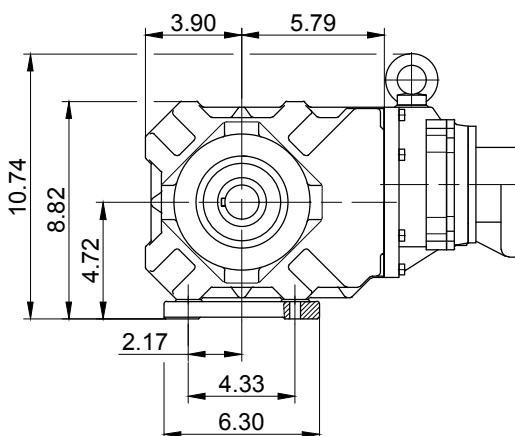
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

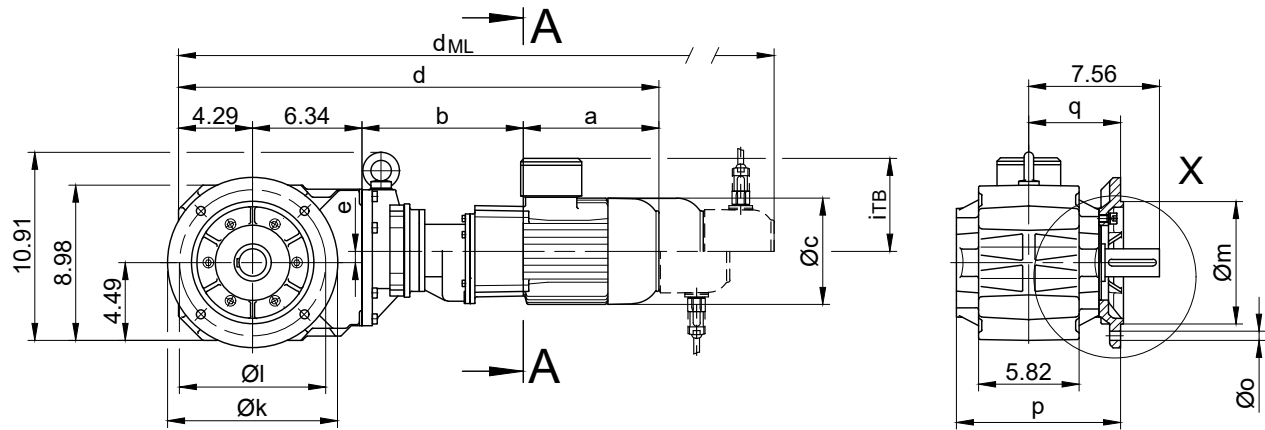
BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

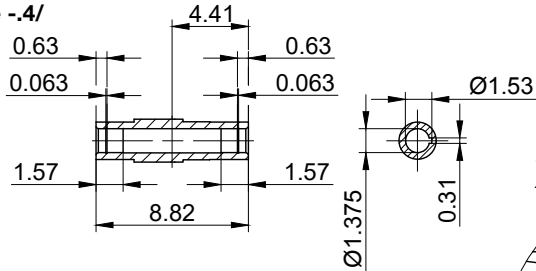
BK30G06

Flange with clearance holes at front

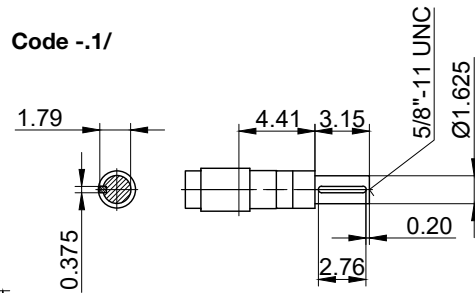
Code -3.V/
(Code -2.V/)



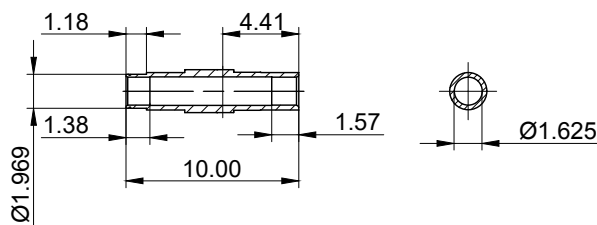
Code -4/



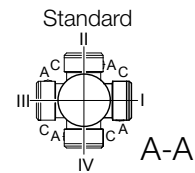
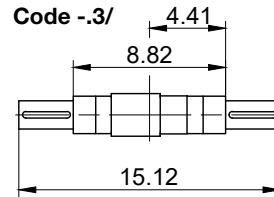
Code -1/



Code -5/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK30..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	9.528	5.315	0.157	2.244	-
BK30..	Code -2.V/	7.874	6.496	5.118	0.472	0.433	9.409	5.197	0.138	2.343	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						iT _B	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK30G06-.../D04.A.	5.61	7.52	4.35	23.76	3.54	4.41	25.47	27.20	28.91	-
BK30G06-.../D..05.A.	6.72	7.60	4.84	24.94	3.98	4.61	26.59	28.98	30.46	-
BK30G06-.../D..06.A.	6.70	7.60	4.84	24.93	3.90	4.69	26.59	28.97	30.44	-
BK30G06-.../D..07.A.	7.49	7.60	4.84	25.72	3.90	4.69	27.37	29.76	31.23	-
BK30G06-.../D..08.A.	7.85	9.33	6.14	27.81	4.51	5.37	30.41	32.22	34.65	30.41
BK30G06-.../D..08.B.	9.04	9.33	6.14	29.00	4.51	5.37	31.59	33.41	35.81	31.59

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

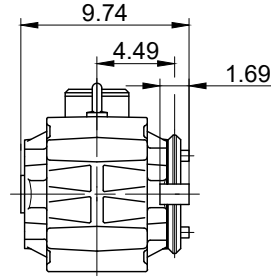
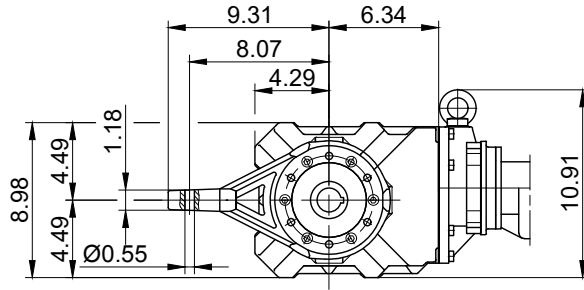
BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

BK30G06

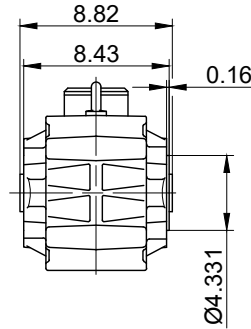
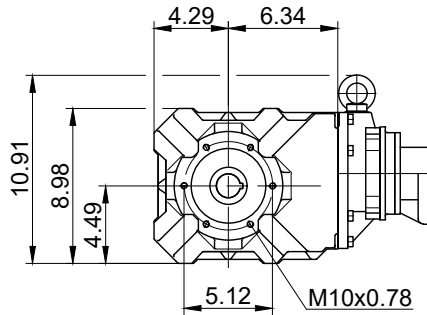
Torque arm at front

Code -5.V/



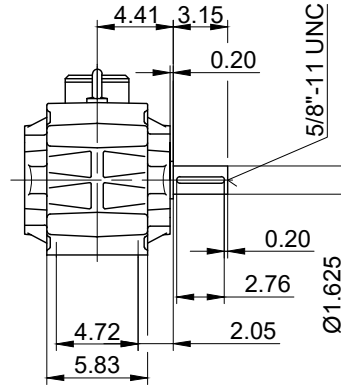
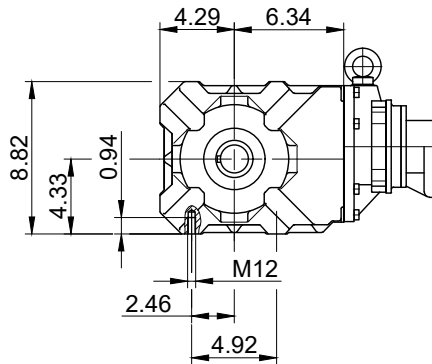
Flange with tapped holes at front

Code -7.V/



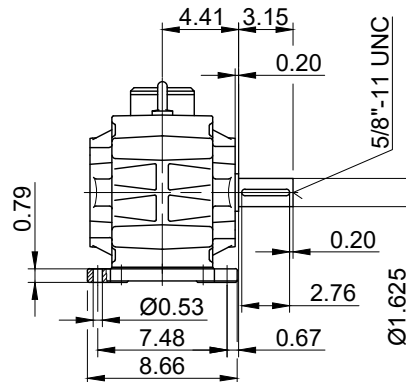
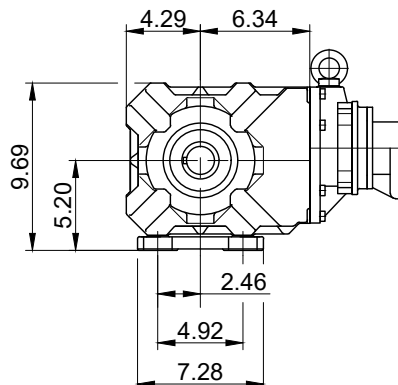
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

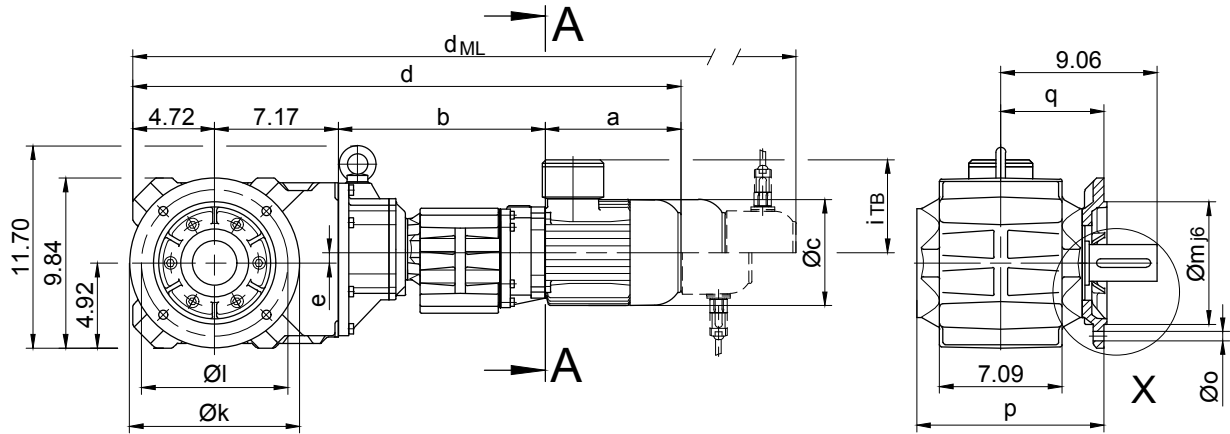
Dimension -Tandem Gearbox Imperial

BK40G10

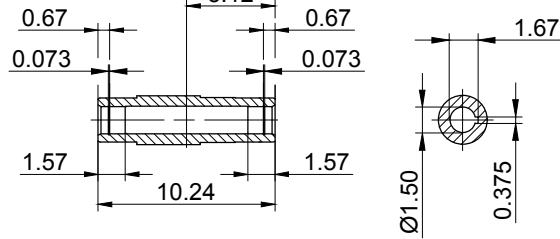
Flange with clearance holes at front

Code -3.V/

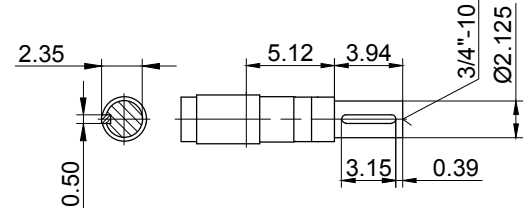
(Code -4.V/)



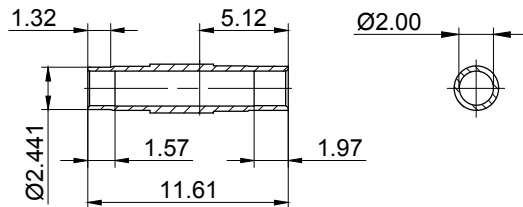
Code -4/



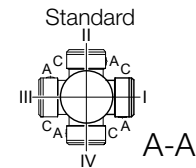
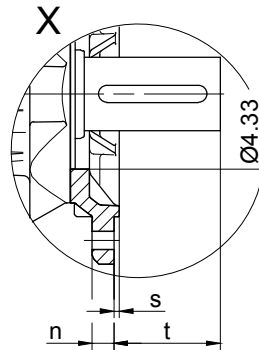
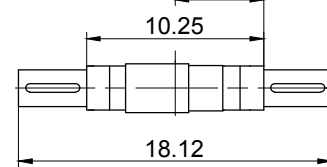
Code -1/



Code -5/



Code -3/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK40..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	10.866	5.984	0.157	3.074	-
BK40..	Code -4.V/	11.811	10.433	9.055	0.787	0.531	11.102	6.220	0.157	2.838	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK40G10-.../D..05.A.	6.72	11.81	4.84	30.42	3.98	4.61	32.07	34.45	35.93	-
BK40G10-.../D..06.A.	6.70	11.81	4.84	30.41	3.90	4.69	32.06	34.44	35.92	-
BK40G10-.../D..07.A.	7.49	11.81	4.84	31.19	3.90	4.69	32.85	35.23	36.70	-
BK40G10-.../D..08.A.	7.85	11.97	6.14	31.71	4.51	5.37	34.31	36.12	38.54	34.31
BK40G10-.../D..08.B.	9.04	11.97	6.14	32.89	4.51	5.37	35.49	37.30	39.70	35.49
BK40G10-.../D..09.A.	9.86	12.54	6.93	34.29	4.88	6.18	37.95	38.53	42.05	37.95
BK40G10-.../D..09.B.	12.15	12.54	6.93	36.57	4.88	6.18	40.24	40.79	44.33	40.24

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

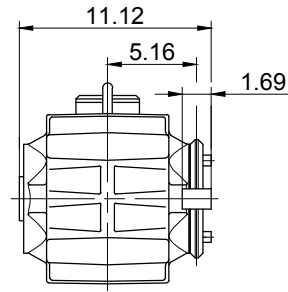
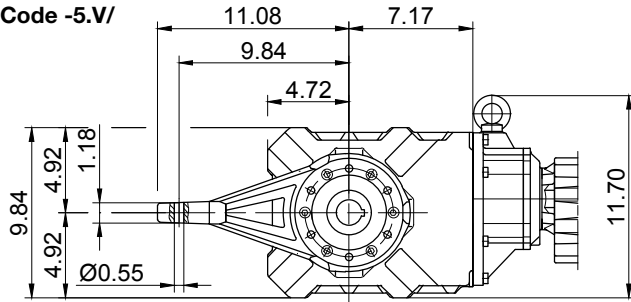
BK-series bevel-gear motors

Dimension -Tandem Gearbox Imperial

BK40G10

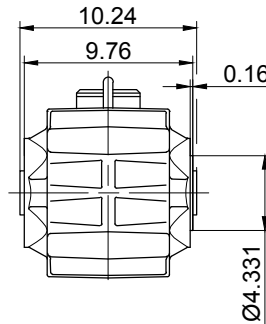
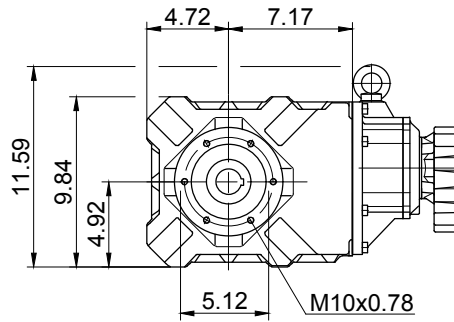
Torque arm at front

Code -5.V/



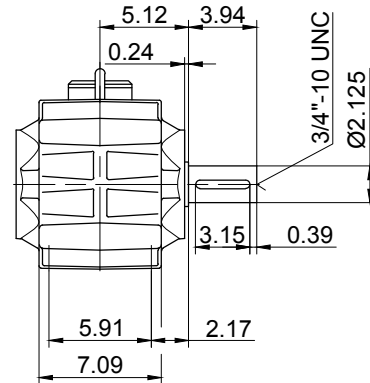
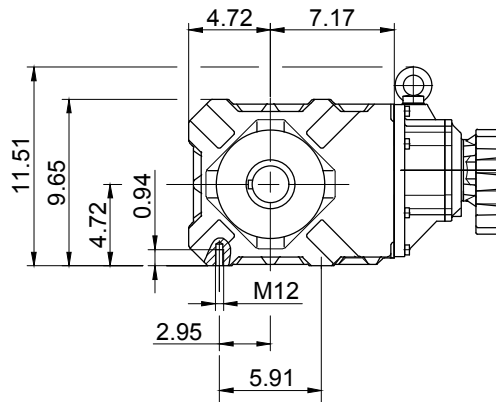
Flange with tapped holes at front

Code -7.V/



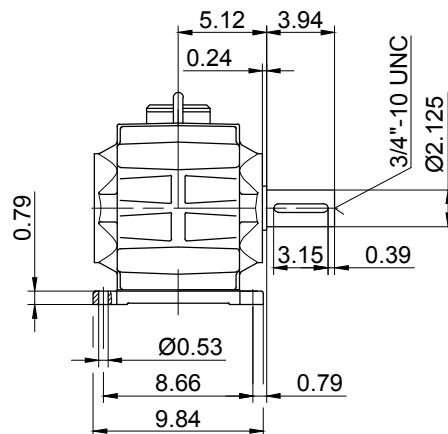
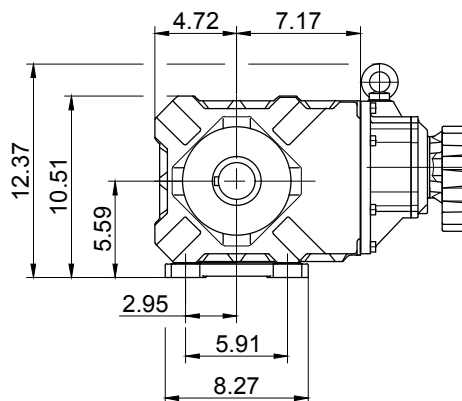
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

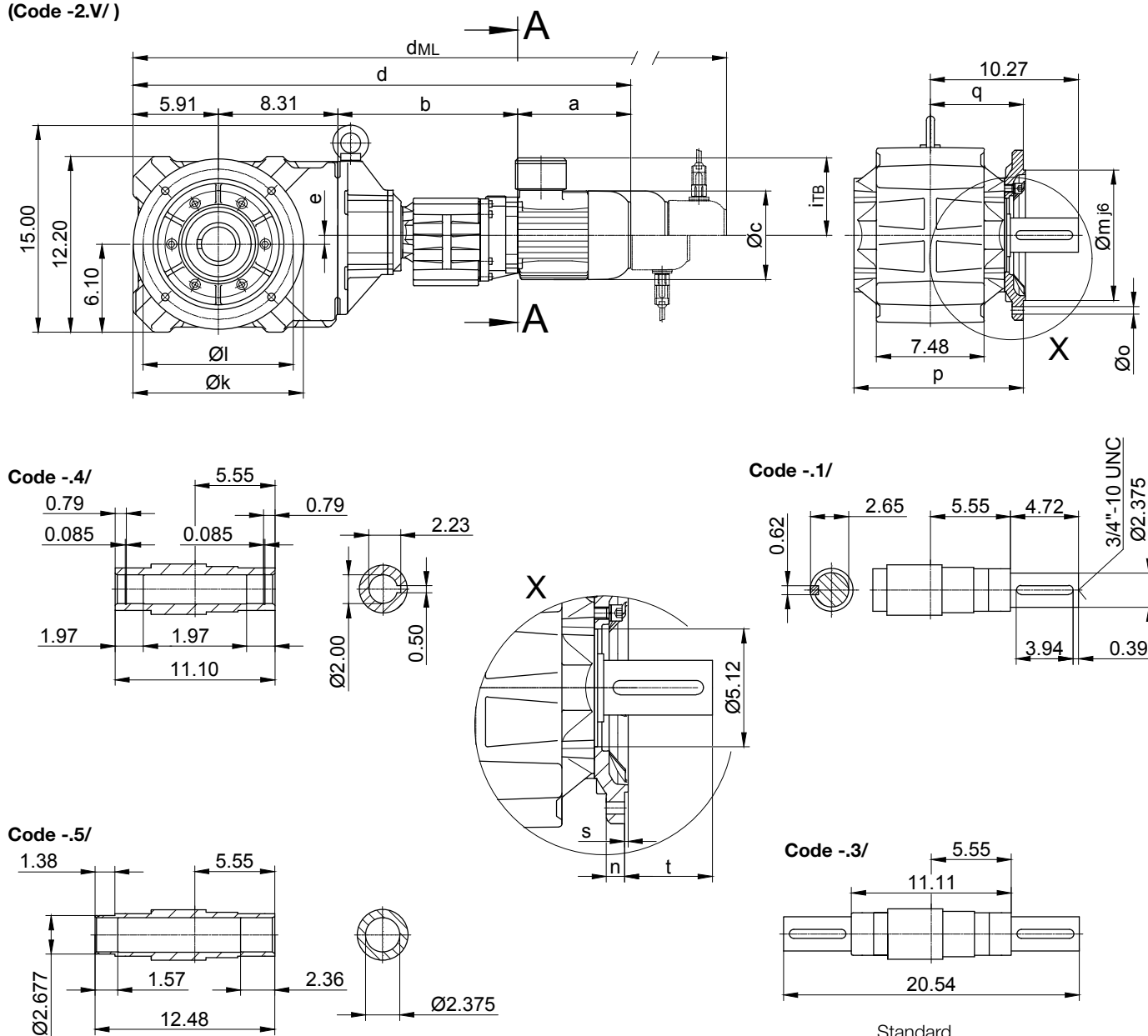
Dimension -Tandem Gearbox Imperial

BK50G10

Flange with clearance holes at front

Code -3.V/

(Code -2.V/)



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK50..	Code -3.V/	11.811	10.433	9.055	0.787	0.531	11.772	6.457	0.157	3.814	-
BK50..	Code -2.V/	9.843	8.465	7.087	0.630	0.531	11.654	6.339	0.157	3.933	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BK50G10-.../D..05.A.	6.72	12.32	4.84	33.25	3.98	4.61	34.91	37.29	38.76	-
BK50G10-.../D..06.A.	6.70	12.32	4.84	33.24	3.90	4.69	34.89	37.28	38.75	-
BK50G10-.../D..07.A.	7.49	12.32	4.84	34.03	3.90	4.69	35.68	38.06	39.54	-
BK50G10-.../D..08.A.	7.85	12.48	6.14	34.55	4.51	5.37	37.15	38.96	41.38	37.15
BK50G10-.../D..08.B.	9.04	12.48	6.14	35.73	4.51	5.37	38.33	40.14	42.54	38.33
BK50G10-.../D..09.A.	9.86	13.05	6.93	37.13	4.88	6.18	40.79	41.36	44.89	40.79
BK50G10-.../D..09.B.	12.15	13.05	6.93	39.41	4.88	6.18	43.07	43.63	47.17	43.07

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

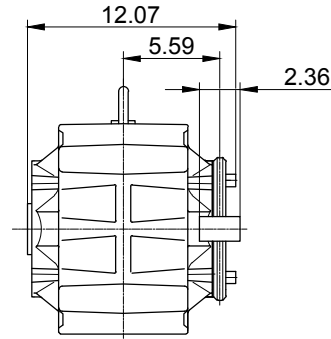
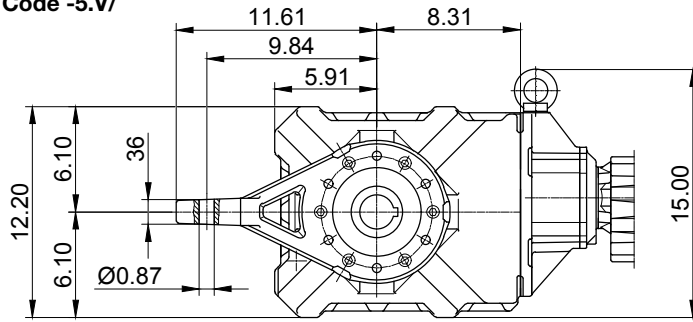
BK-series bevel-gear motors

Dimension -Tandem Gearbox Imperial

BK50G10

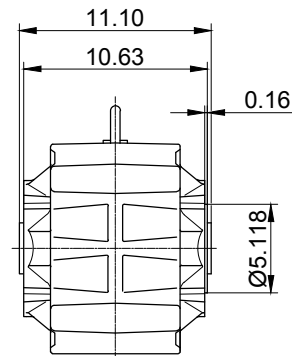
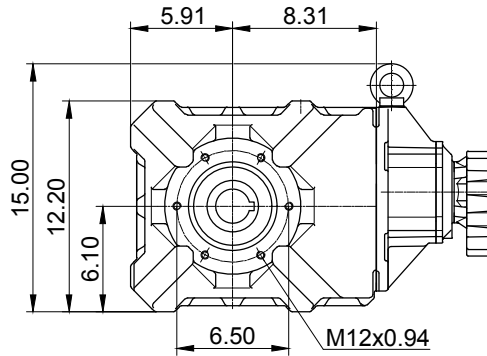
Torque arm at front

Code -5.V/



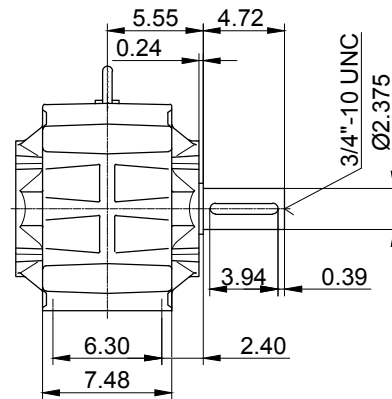
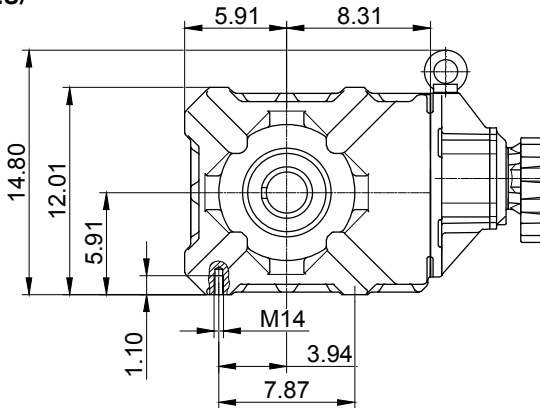
Flange with tapped holes at front

Code -7.V/



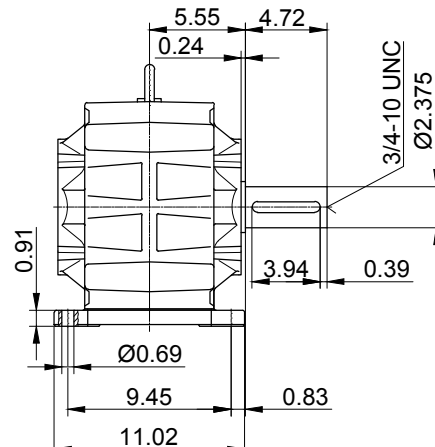
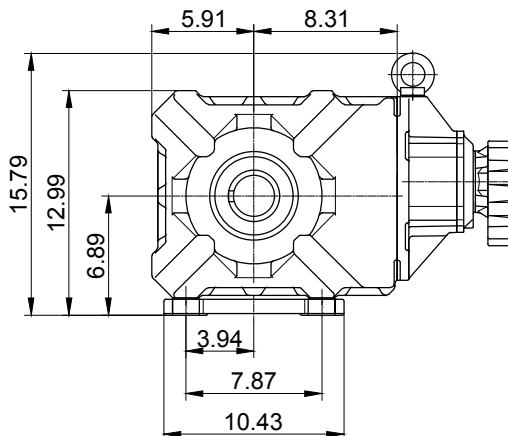
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

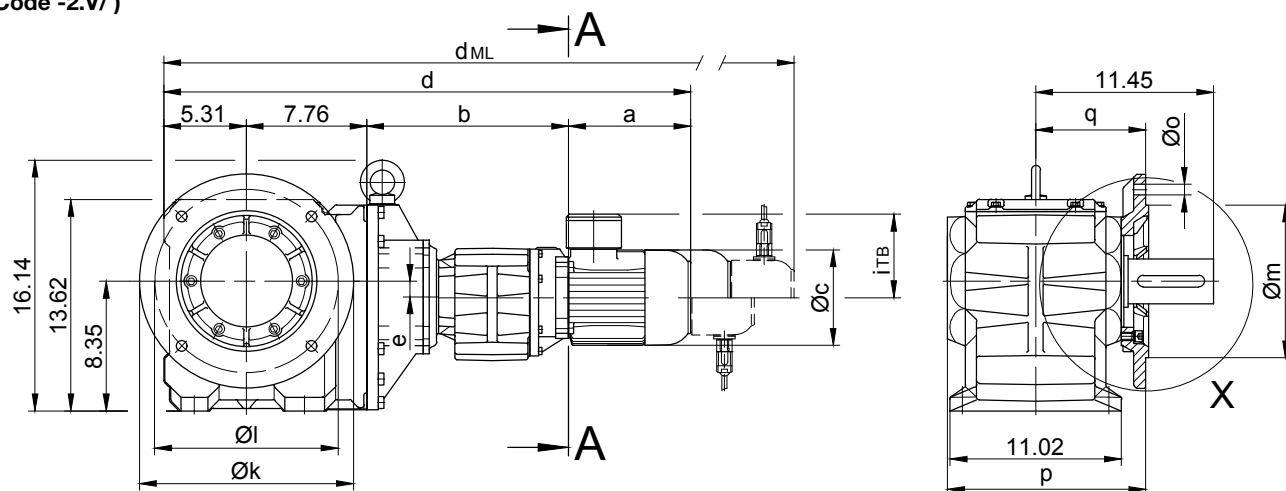
Dimension -Tandem Gearbox Imperial

BK60G20

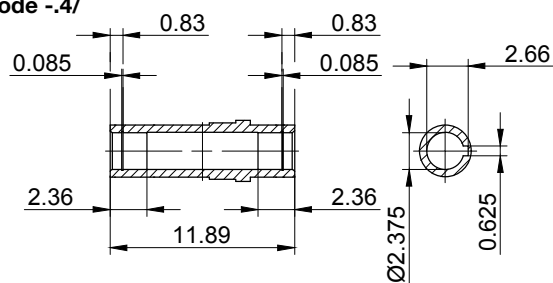
Flange with clearance holes at front

Code -3.V/

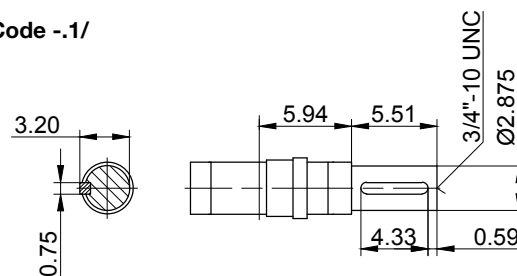
(Code -2.V/)



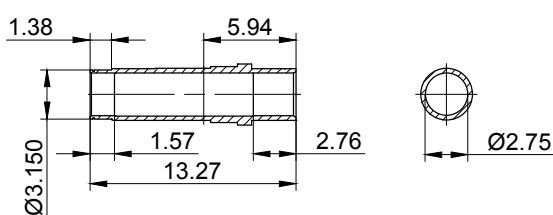
Code -.4/



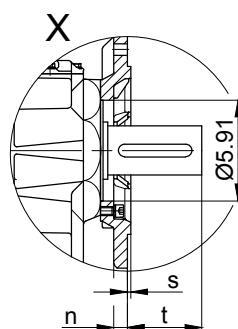
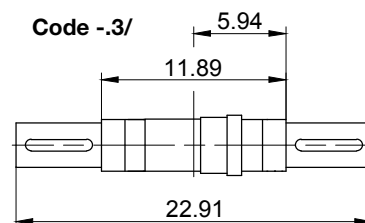
Code -.1/



Code -.5/

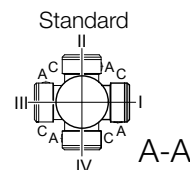


Code -.3/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK60..	Code -3.V/	13.780	11.811	9.843	0.787	0.689	12.756	7.087	0.197	4.408	-
BK60..	Code -2.V/	11.811	10.433	9.055	0.787	0.531	13.071	7.402	0.157	4.053	-

Dimensions in inch



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK60G20-../D..05.A.	6.72	12.83	4.84	32.62	3.98	4.61	34.28	36.66	38.13	-
BK60G20-../D..06.A.	6.70	12.83	4.84	32.61	3.90	4.69	34.26	36.65	38.12	-
BK60G20-../D..07.A.	7.49	12.83	4.84	33.40	3.90	4.69	35.05	37.43	38.91	-
BK60G20-../D..08.A.	7.85	12.99	6.14	33.92	4.51	5.37	36.52	38.33	40.75	36.52
BK60G20-../D..08.B.	9.04	12.99	6.14	35.10	4.51	5.37	37.70	39.51	41.91	37.70
BK60G20-../D..09.A.	9.86	13.56	6.93	36.50	4.88	6.18	40.16	40.73	44.26	40.16
BK60G20-../D..09.B.	12.15	13.56	6.93	38.78	4.88	6.18	42.44	43.00	46.54	42.44

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

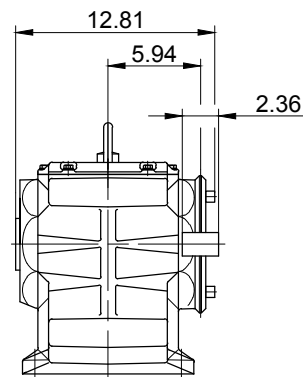
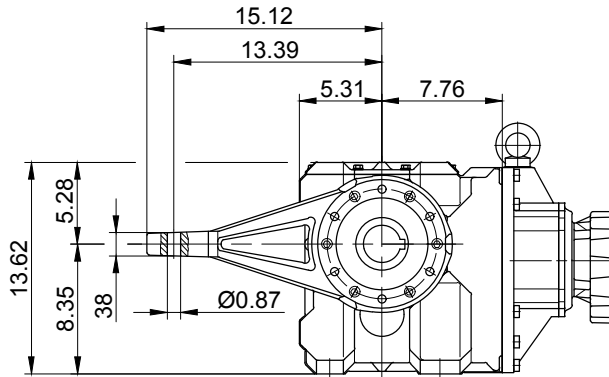
BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

BK60G20

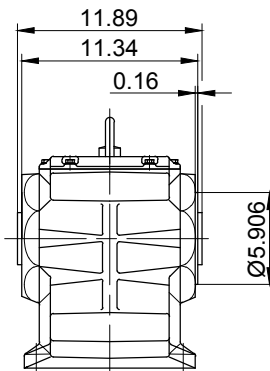
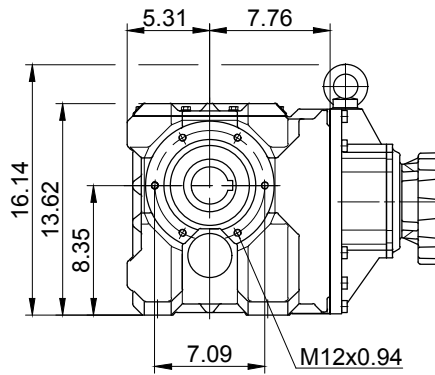
Torque arm at front

Code -5.V/



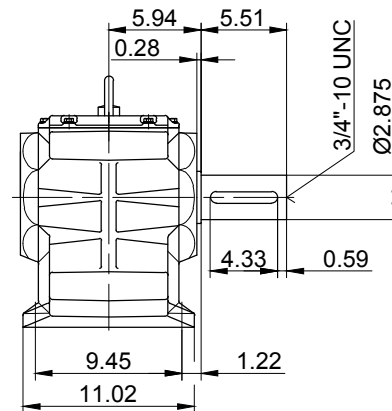
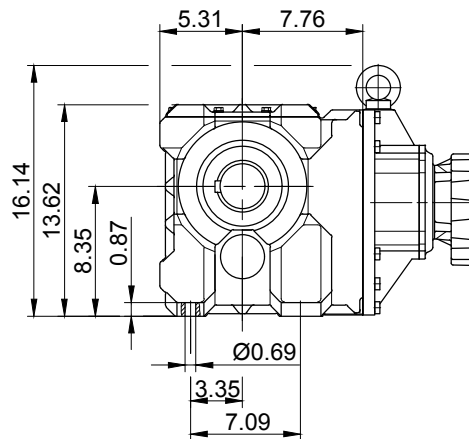
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



12

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

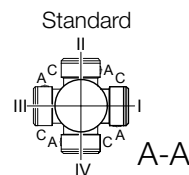
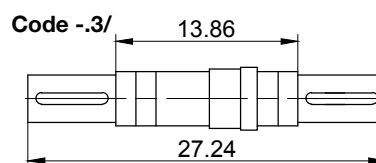
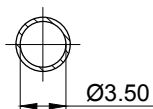
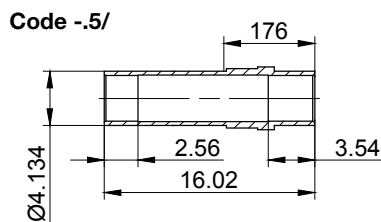
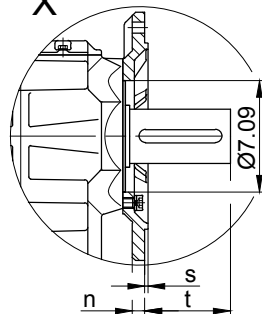
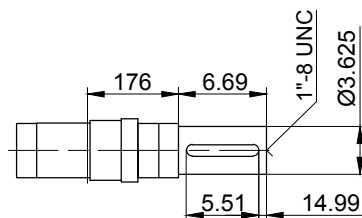
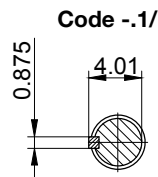
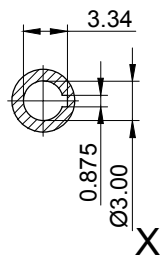
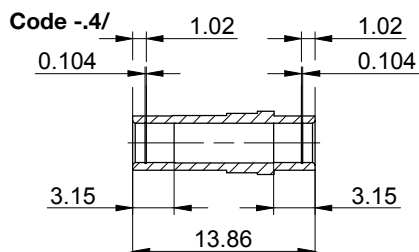
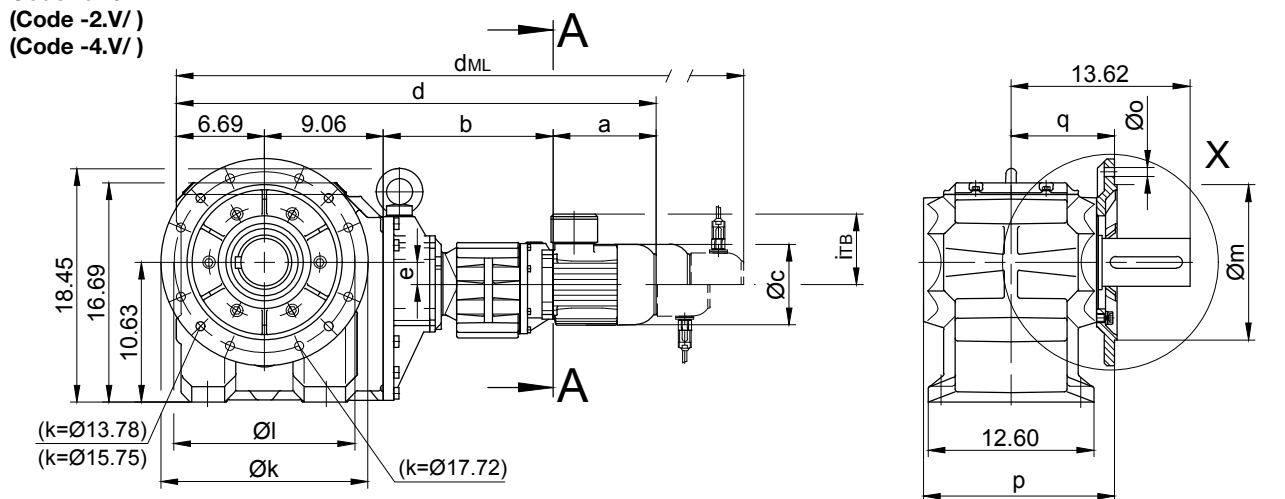
BK70G20

Flange with clearance holes at front

Code -3.V/

(Code -2.V/)

(Code -4.V/)



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK70..	Code -3.V/	15.748	13.780	11.811	0.787	4 x 0.689	14.528	7.874	0.197	5.784	-
BK70..	Code -2.V/	13.780	11.811	9.843	0.787	4 x 0.689	14.528	7.874	0.197	5.784	-
BK70..	Code -4.V/	17.717	15.748	13.780	0.866	8 x 0.689	14.921	8.268	0.197	5.391	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BK70G20-.../D..05.A.	6.72	12.83	4.84	35.30	3.98	4.61	36.95	39.33	40.81	-
BK70G20-.../D..06.A.	6.70	12.83	4.84	35.29	3.90	4.69	36.94	39.32	40.80	-
BK70G20-.../D..07.A.	7.49	12.83	4.84	36.07	3.90	4.69	37.73	40.11	41.59	-
BK70G20-.../D..08.A.	7.85	12.99	6.14	36.59	4.51	5.37	39.19	41.00	43.43	39.19
BK70G20-.../D..08.B.	9.04	12.99	6.14	37.78	4.51	5.37	40.37	42.19	44.59	40.37
BK70G20-.../D..09.A.	9.86	13.56	6.93	39.17	4.88	6.18	42.83	43.41	46.93	42.83
BK70G20-.../D..09.B.	12.15	13.56	6.93	41.46	4.88	6.18	45.12	45.67	49.22	45.12

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

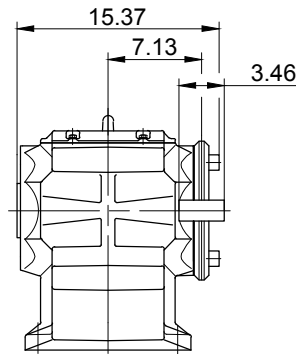
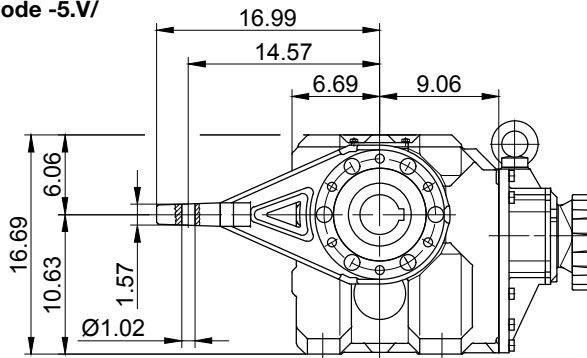
BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

BK70G20

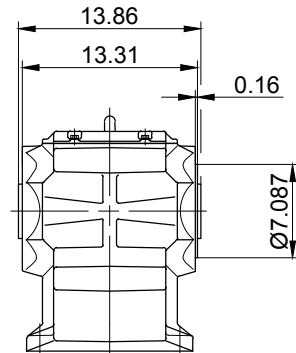
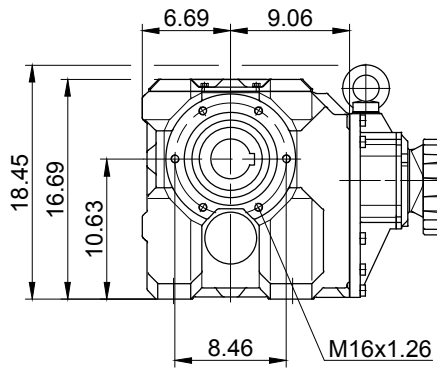
Torque arm at front

Code -5.V/



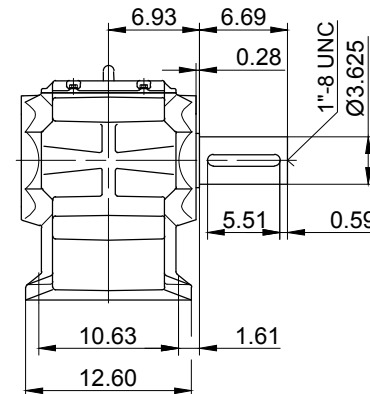
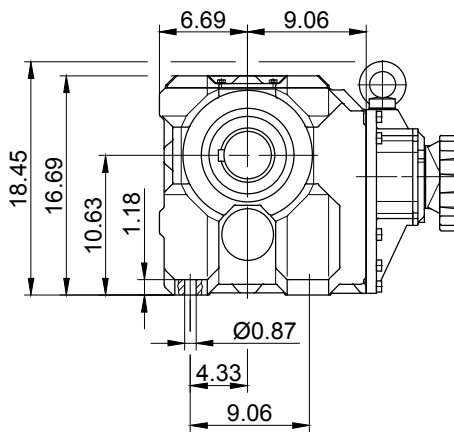
Flange with tapped holes at front

Code -7.V/

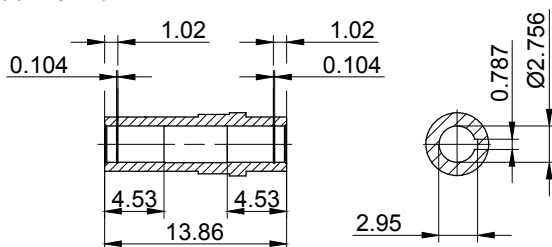


Foot with clearance holes at bottom

Code -1.U/



Code -4/K70



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

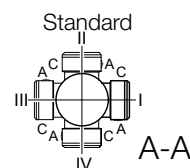
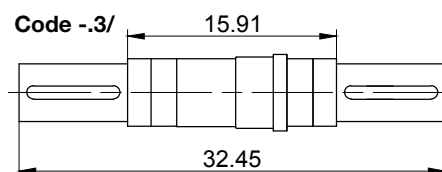
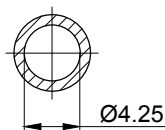
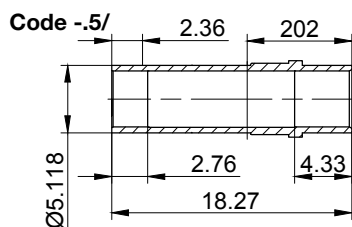
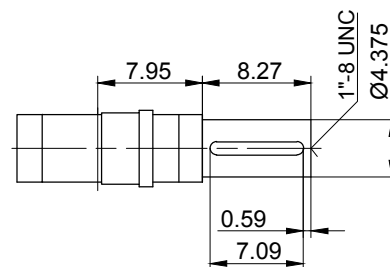
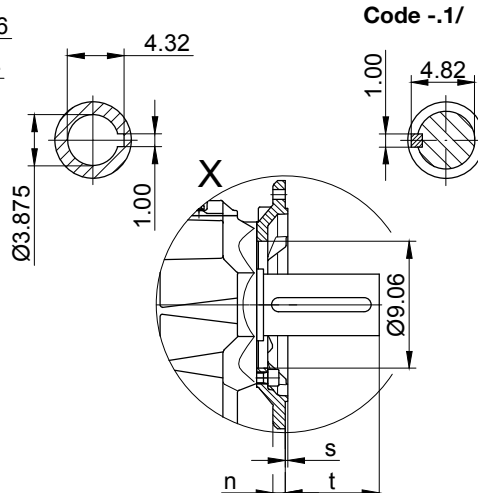
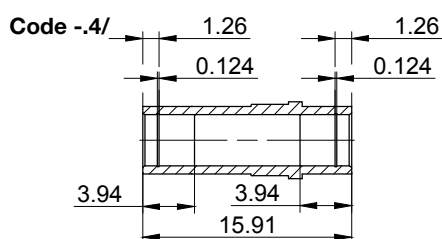
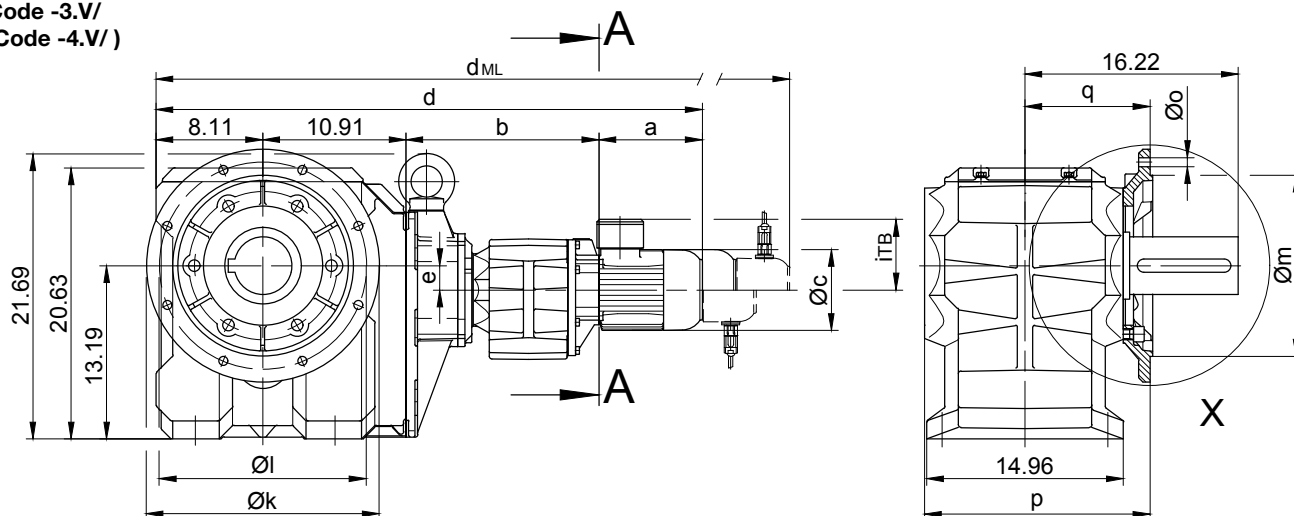
Dimension -Tandem Gearbox Imperial

BK80G40

Flange with clearance holes at front

Code -3.V/

(Code -4.V/)



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK80..	Code -3.V/	17.717	15.748	13.780	0.866	0.689	17.283	9.646	0.197	6.616	-
BK80..	Code -4.V/	21.654	19.685	17.717	0.866	0.689	17.480	9.843	0.197	6.420	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK80G40-../D..08.A.	7.85	14.06	6.14	40.93	4.51	5.37	43.52	45.33	47.76	43.52
BK80G40-../D..08.B.	9.04	14.06	6.14	42.11	4.51	5.37	44.70	46.52	48.92	44.70
BK80G40-../D..09.A.	9.86	14.63	6.93	43.50	4.88	6.18	47.17	47.74	51.26	47.17
BK80G40-../D..09.B.	12.15	14.63	6.93	45.79	4.88	6.18	49.45	50.00	53.55	49.45
BK80G40-../D..11.A.	12.56	14.88	8.58	46.46	6.50	6.93	50.31	50.69	54.33	50.31
BK80G40-../D..11.B.	15.24	14.88	8.58	49.13	6.50	6.93	52.91	53.37	57.01	52.91

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

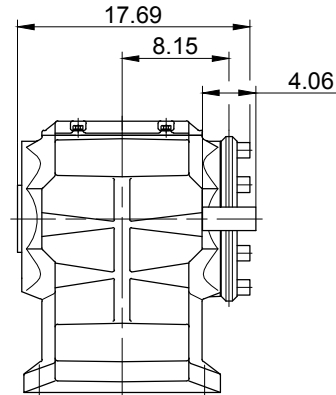
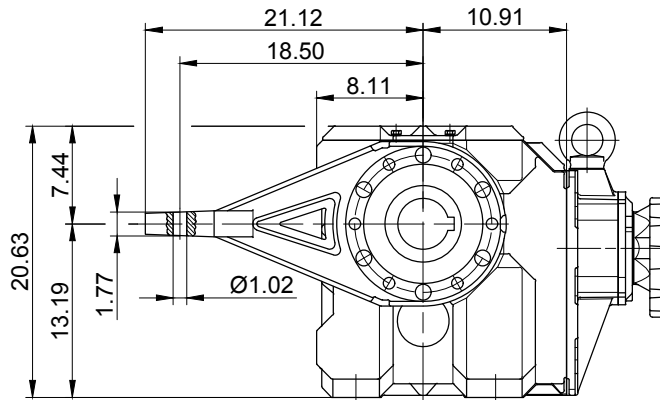
BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

BK80G40

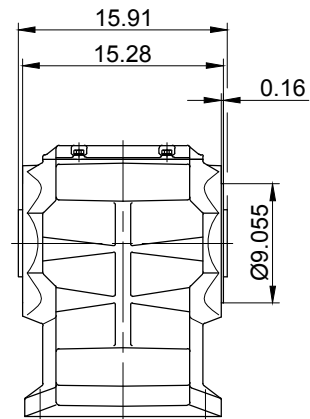
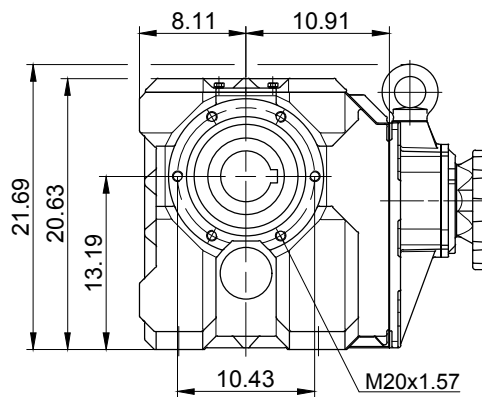
Torque arm at front

Code -5.V/



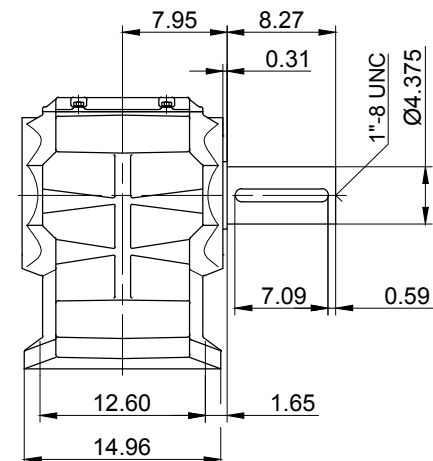
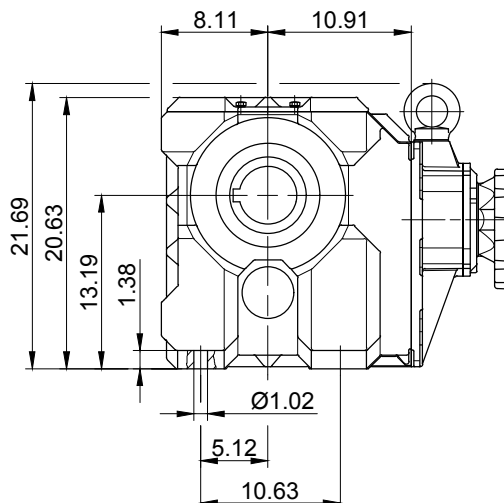
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



12

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

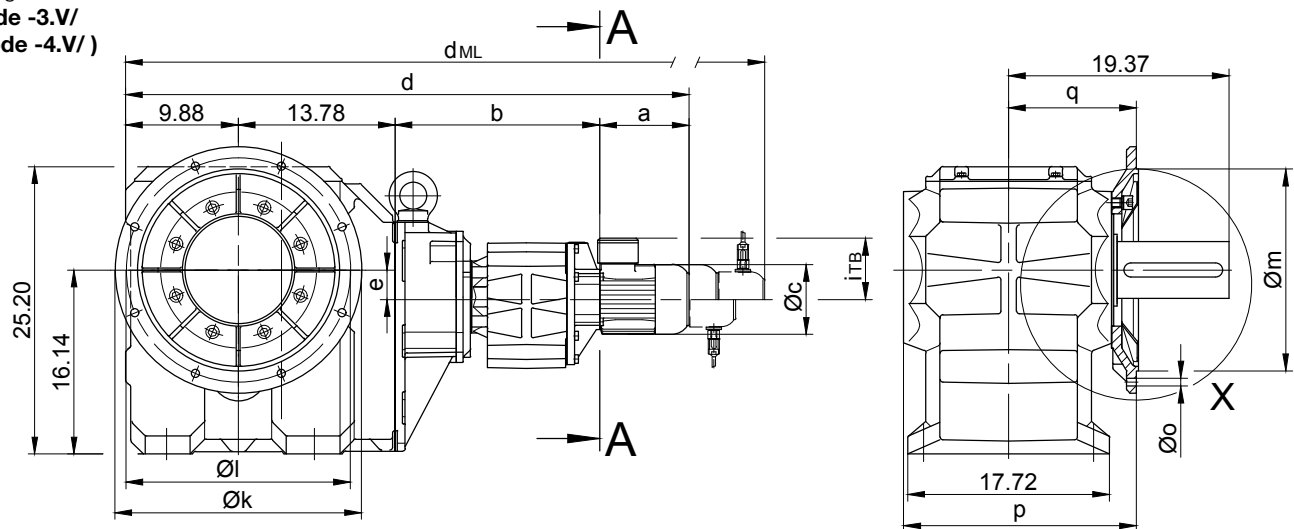
BK-series bevel-geared motors

Dimension -Tandem Gearbox Imperial

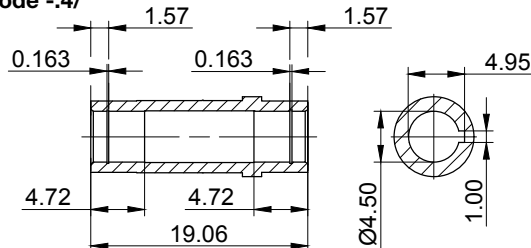
BK90G50

Flange with clearance holes at front

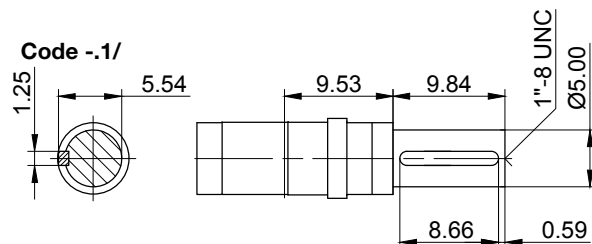
Code -3.V/
(Code -4.V/)



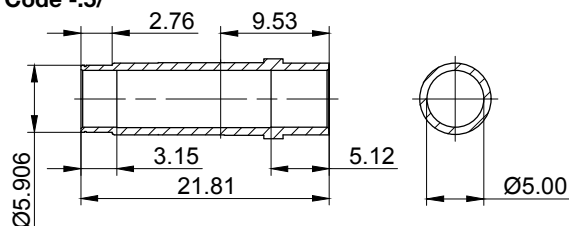
Code -4/



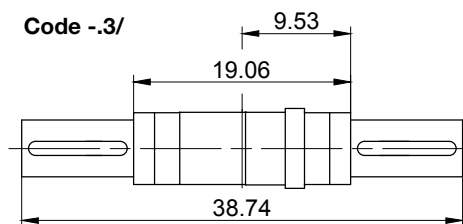
Code -1/



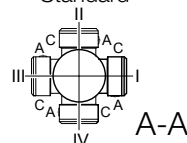
Code -5/



Code -3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK90..	Code -3.V/	21.654	19.685	17.717	0.866	0.689	20.433	11.220	0.197	8.186	-
BK90..	Code -4.V/	25.984	23.622	21.654	0.984	0.866	20.197	10.984	0.236	8.462	-

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK90G50-.../D..08.A.	7.85	16.81	6.14	48.33	4.51	5.37	50.93	52.74	55.16	50.93
BK90G50-.../D..08.B.	9.04	16.81	6.14	49.51	4.51	5.37	52.11	53.92	56.32	52.11
BK90G50-.../D..09.A.	9.86	17.38	6.93	50.91	4.88	6.18	54.57	55.14	58.67	54.57
BK90G50-.../D..09.B.	12.15	17.38	6.93	53.19	4.88	6.18	56.85	57.41	60.95	56.85
BK90G50-.../D..11.A.	12.56	17.64	8.58	53.86	6.50	6.93	57.72	58.09	61.74	57.72
BK90G50-.../D..11.B.	15.24	17.64	8.58	56.54	6.50	6.93	60.31	60.77	64.41	60.31
BK90G50-.../D..13.A.	15.47	18.15	10.16	57.28	8.54	8.54	61.65	61.50	65.63	61.54
BK90G50-.../D..16.B.	17.89	18.70	12.20	60.26	9.57	9.57	65.91	64.47	69.98	65.91
BK90G50-.../D..18.B.	21.34	19.57	13.70	64.57	11.34	11.34	70.45	68.72	74.53	70.45

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

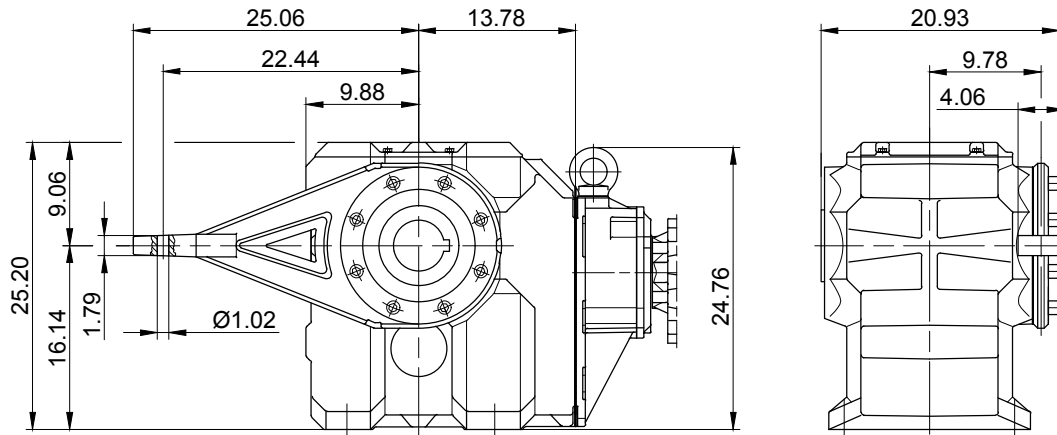
BK-series bevel-gear motors

Dimension - Tandem Gearbox Imperial

BK90G50

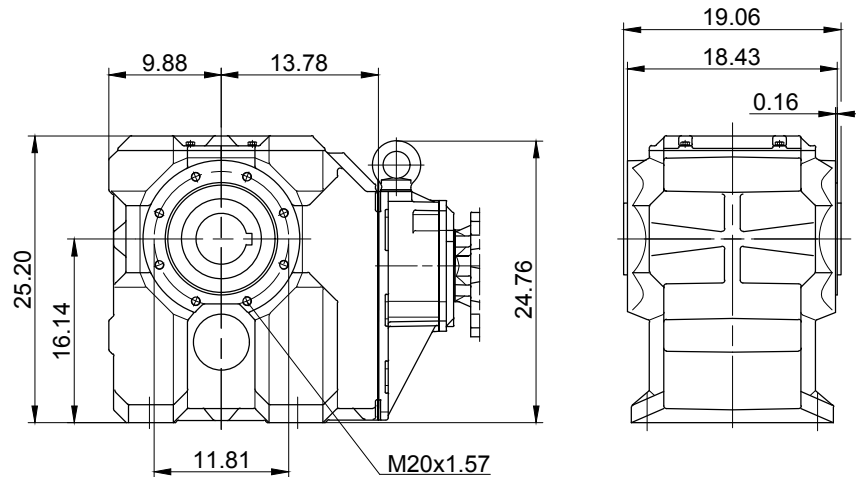
Torque arm at front

Code -5.V/



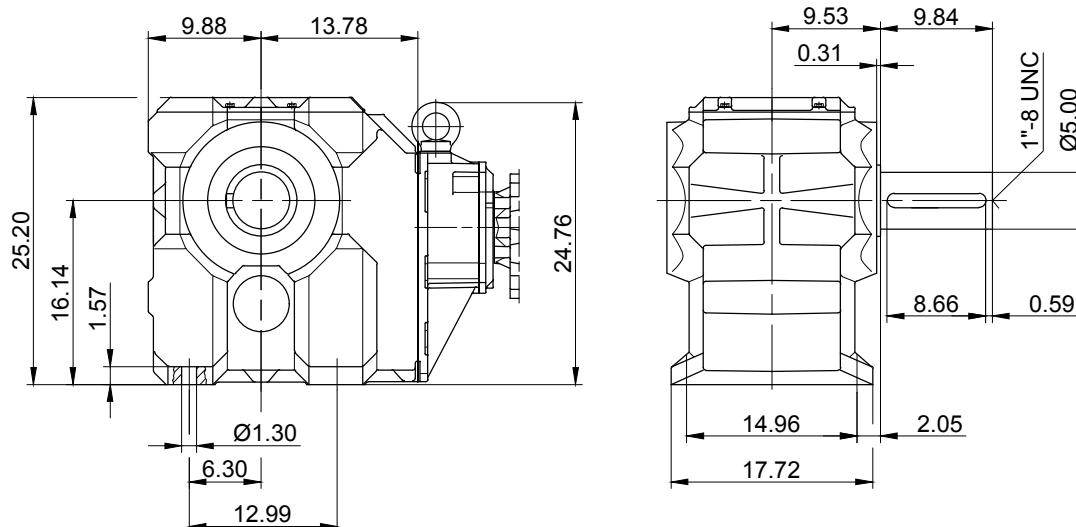
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



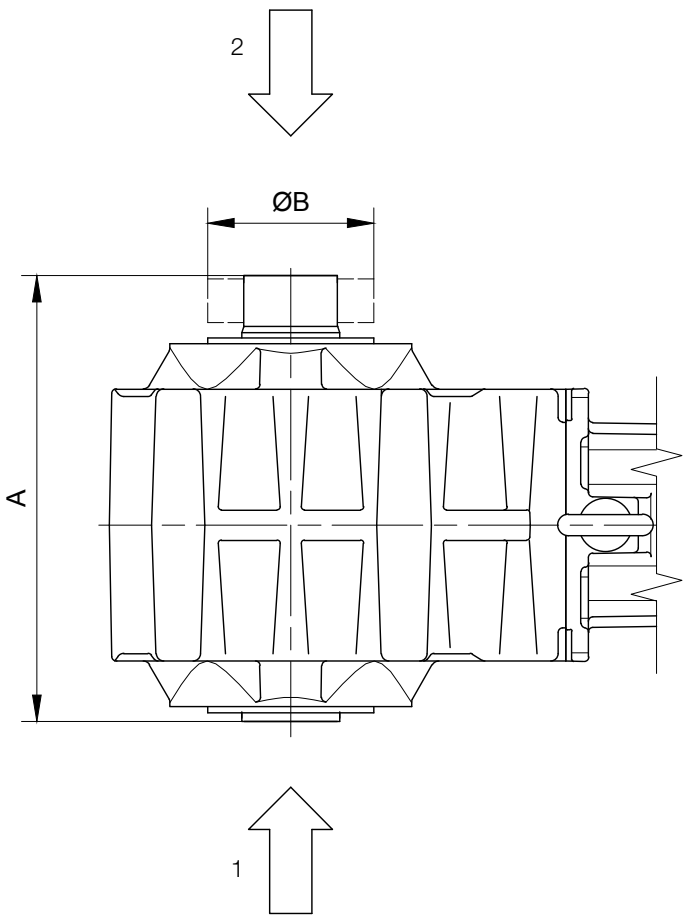
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

Additional Dimension Sheet Imperial

Shrink disk couplings (SSV)

(Code BK10-.5/...)
(Code BK10Z-.5/...)



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

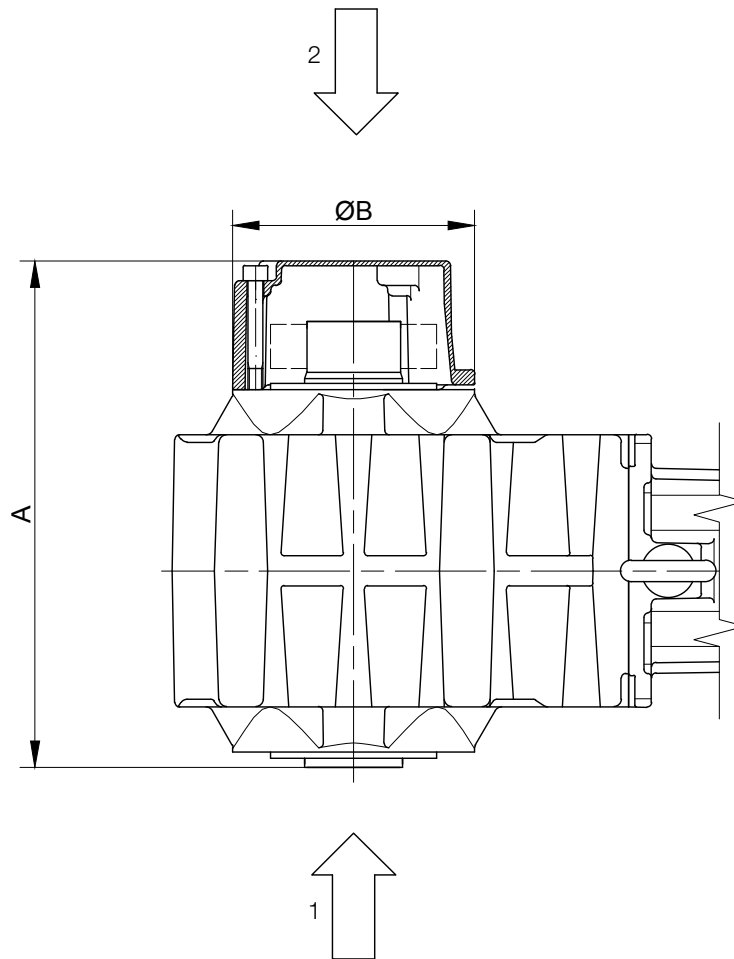
Typ	SSV Ringfeder	SSV STÜWE	A	B
BK06	RfN 4161 024x050	HSD 24-22x24	4.65	1.97
BK10	RfN 4161 036x072	HSD 36-22x36	7.68	2.83
BK20	RfN 4161 044x080	HSD 44-22x44	8.74	3.15
BK30	RfN 4161 050x090	HSD 50-22x50	10.00	3.54
BK40	RfN 4161 062x110	HSD 62-22x62	11.61	4.33
BK50	RfN 4161 068x115	HSD 68-22x68	12.48	4.53
BK60	RfN 4161 080x141	HSD 80-22x80	13.27	5.51
BK70	RfN 4161 105x185	HSD 110-22x105	16.02	7.28
BK80	RfN 4161 130x215	HSD 125-22x130	18.27	8.46
BK90	RfN 4161 150x263	HSD 155-22x150	21.81	10.35
Dimensions in inch				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disk connection with cover (SSV)

(Code BK10-.5A/...)

(Code BK10Z-.5A/...)



1 Gear side FRONT (V)

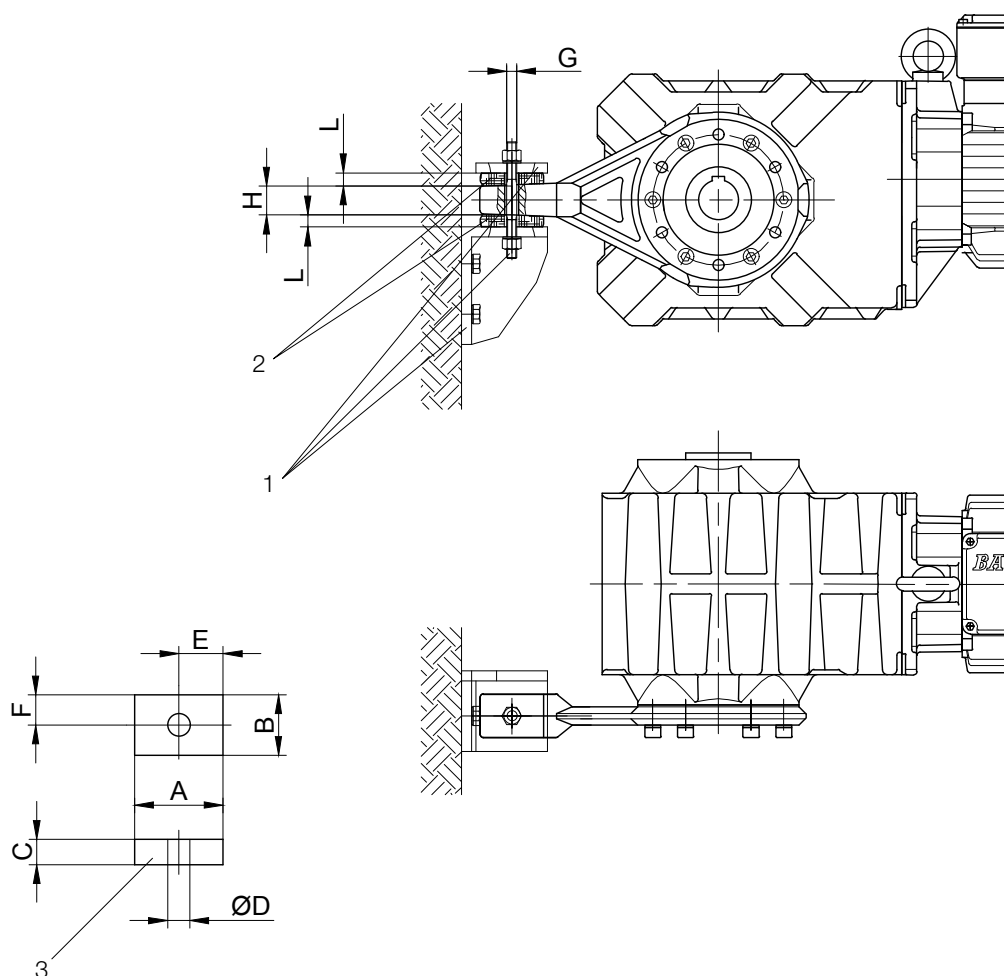
2 Gear side REAR (H)

Typ	SSV Ringfeder	SSV STÜWE	A	B
BK10	RfN 4161 036x072	HSD 36-22x36	8.54	4.72
BK20	RfN 4161 044x080	HSD 44-22x44	10.63	5.51
BK30	RfN 4161 050x090	HSD 50-22x50	11.81	6.30
BK40	RfN 4161 062x110	HSD 62-22x62	13.19	6.30
BK50	RfN 4161 068x115	HSD 68-22x68	12.95	7.87
BK60	RfN 4161 080x141	HSD 80-22x80	15.20	8.27
BK70	RfN 4161 105x185	HSD110-22x105	18.31	9.84
BK80	RfN 4161 130x215	HSD125-22x130	19.76	11.81
BK90	RfN 4161 150x263	HSD155-22x150	23.70	13.78
Dimensions in inch				

BK-series bevel-geared motors

Additional Dimension Sheet Imperial

Rubber buffer for torque arm



1 not included in delivery

2 Rubber buffers pretensioned

3 Rubber buffer

G maximaler Schraubendurchmesser

Material: Natural rubber Hardness 50 +/-5 Shore A

Dimensions of the transverse hole: See dimensioned sketch of the respective shaft mounted gearbox

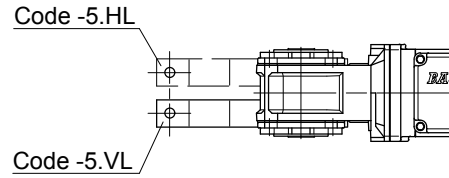
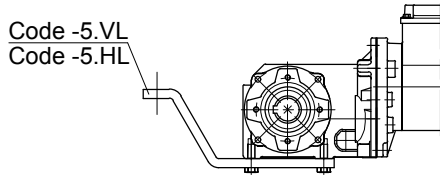
Gear	Position	A	B	C	D	E	F	G	H	L
BK06	Position 0	30	30	12	12	15	15	M10	10	10
BK08	Position 1	48	32	15	14	24	16	M10	19	13.5
BK10	Position 1	48	32	15	14	24	16	M10	19	13.5
BK17	Position 1	48	32	15	14	24	16	M10	19	13
BK20	Position 1	48	32	15	14	24	16	M10	19	13
BK30	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BK40	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BK50	Position 3	88	60	25	22	44	30	M18	36	21.5
BK60	Position 3	88	60	25	22	44	30	M18	38	21
BK70	Position 4	123	88	30	26	61.5	44	M20	40	25.5
BK80	Position 5	133	103	35	26	66.5	51.5	M20	45	30
BK90	Position 5	133	103	35	26	66.5	51.5	M20	45	29.5

Dimensions in inch

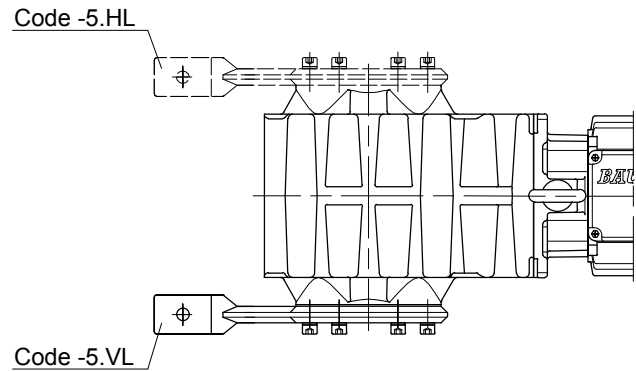
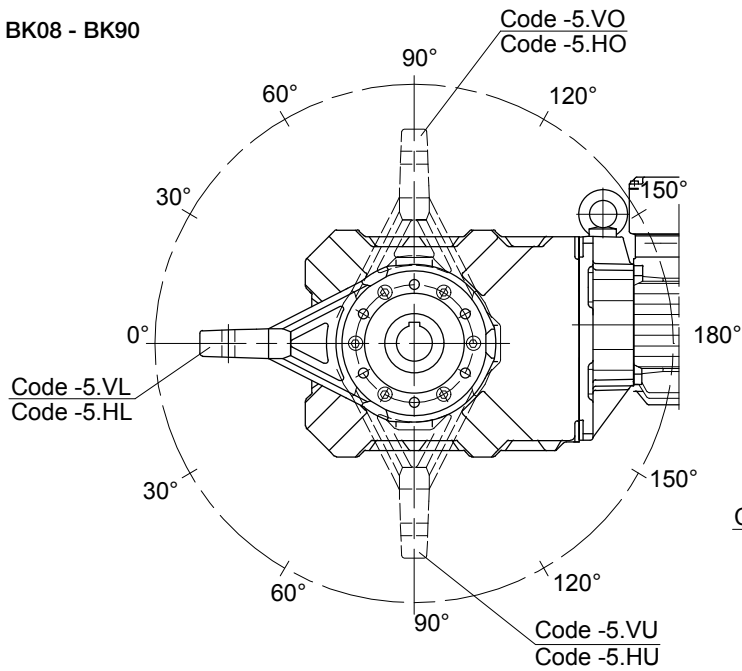
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Position of the torque arm

BK06



BK08 - BK90



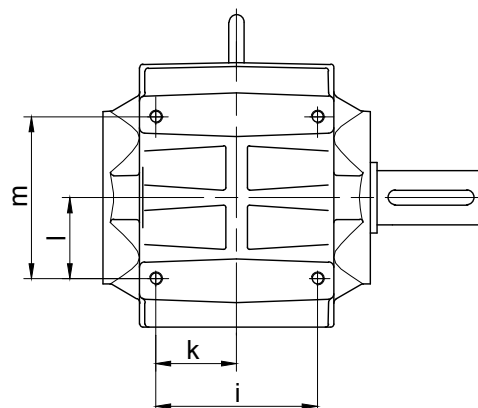
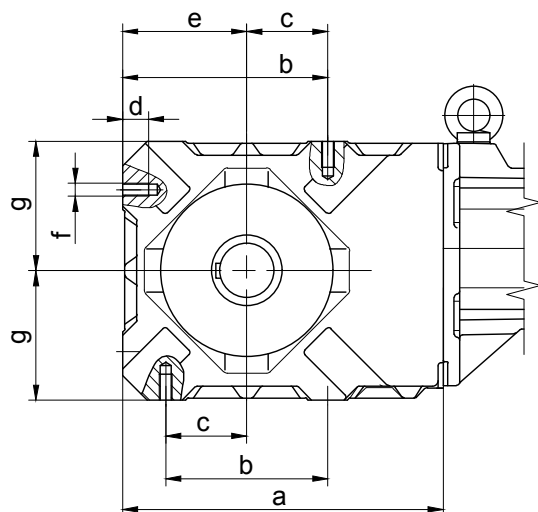
Gear	Position						
	VL/HL	VO/HO/VU/HU					VR/HR
BK06	0°	-	-	-	-	-	-
BK08	0°	30°	60°	90°	120°	-	-
BK10	0°	30°	60°	90°	120°	150°	-
BK17	0°	30°	60°	90°	120°	-	-
BK20	0°	30°	60°	90°	120°	150°	-
BK30	0°	30°	60°	90°	120°	150°	-
BK40	0°	30°	60°	90°	120°	150°	-
BK50	0°	30°	60°	90°	120°	150°	-
BK60	0°	30°	60°	90°	120°	150°	-
BK70	0°	30°	60°	90°	120°	150°	-
BK80	0°	30°	60°	90°	120°	150°	-
BK90	0°	45°		90°	135°		-

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

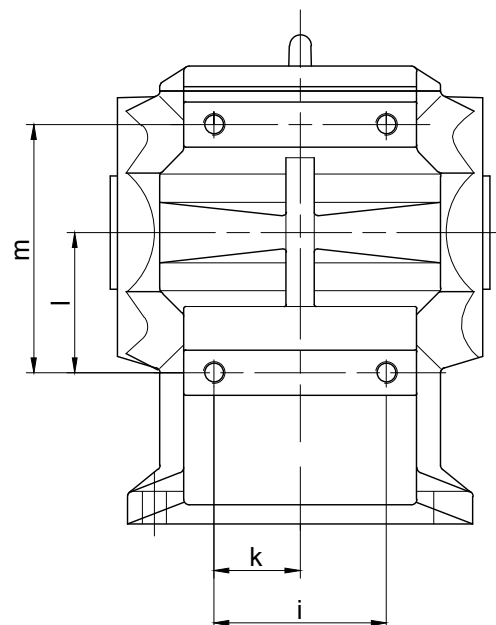
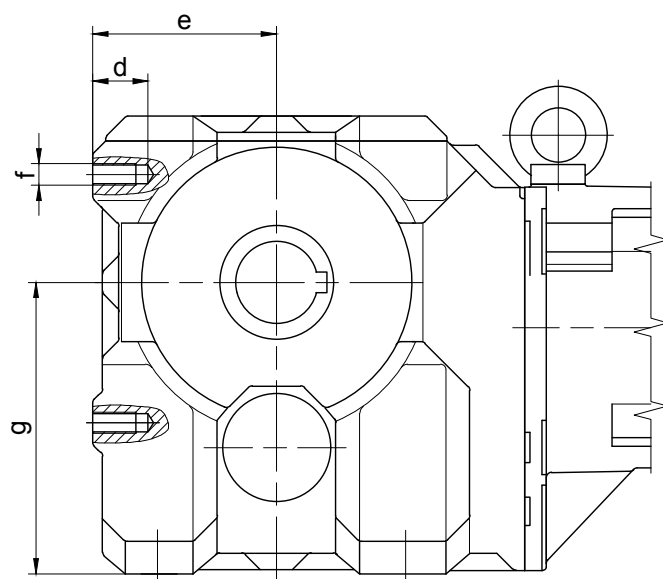
BK-series bevel-geared motors

Additional Dimension Sheet Imperial

Foot with tapped holes



Type	a	b	c	d	e	f	g	i	k	l	m
BK10-BK10Z	7.95	3.54	1.77	0.63	3.07	M8	3.15	3.74	1.87	1.77	3.54
BK20-BK20Z	9.53	4.33	2.17	0.79	3.74	M10	3.94	4.13	2.07	2.17	4.33
BK30-BK30Z	10.47	4.92	2.46	0.94	4.13	M12	4.33	4.72	2.36	2.46	4.92
BK40-BK40Z	11.69	5.91	2.95	0.94	4.53	M12	4.72	5.91	2.95	2.95	5.91
BK50-BK50Z	14.02	7.87	3.94	1.10	5.71	M14	5.91	6.30	3.15	3.94	7.87



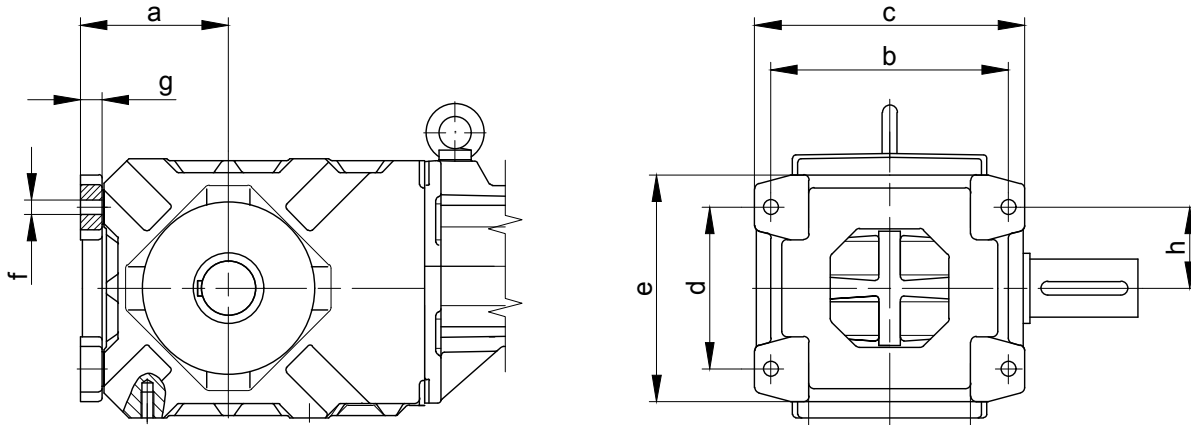
Type	a	b	c	d	e	f	g	i	k	l	m
BK60-BK60Z	-	-	-	1.57	5.12	M20	8.35	6.30	3.15	5.71	9.06
BK70-BK70Z	-	-	-	1.57	6.50	M20	10.63	6.30	3.15	5.12	9.06
BK80-BK80Z	-	-	-	2.36	7.87	M30	13.19	8.27	4.13	9.45	14.17
BK90-BK90Z	-	-	-	2.36	9.65	M30	16.14	8.27	4.13	8.46	14.17

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

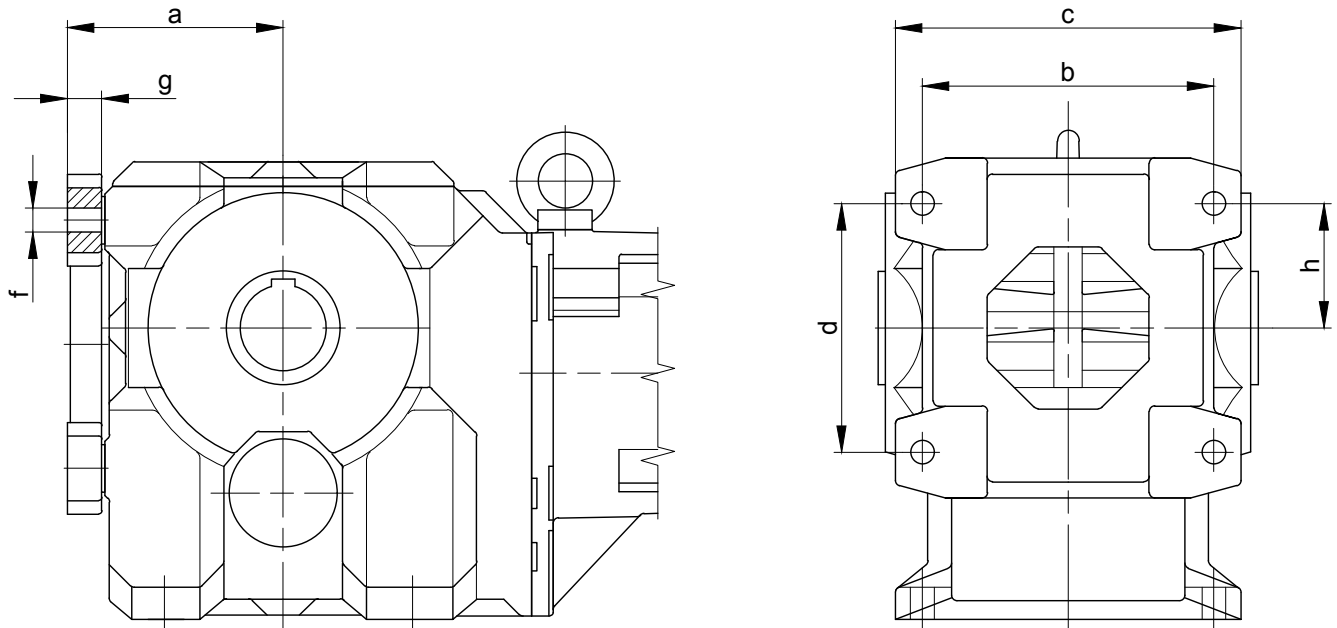
BK-series bevel-geared motors

Additional Dimension Sheet Imperial

Foot plate with clearance holes



Type	a	b	c	d	e	f	g	h
BK10-BK10Z	3.78	5.71	6.50	3.54	5.12	Ø0.35	0.63	1.77
BK20-BK20Z	4.53	6.50	7.68	4.33	6.30	Ø0.43	0.71	2.17
BK30-BK30Z	5.00	7.48	8.66	4.92	7.28	Ø0.53	0.79	2.46
BK40-BK40Z	5.39	8.66	9.84	5.91	8.27	Ø0.53	0.79	2.95
BK50-BK50Z	6.69	9.45	11.02	7.87	10.43	Ø0.69	0.91	3.94



12

Type	a	b	c	d	e	f	g	h
BK60-BK60Z	6.50	10.63	12.60	9.06	12.40	Ø0.87	1.26	3.35
BK70-BK70Z	7.87	10.63	12.60	9.06	12.40	Ø0.87	1.26	3.94
BK80-BK80Z	9.84	15.75	18.90	14.17	18.90	Ø1.30	1.85	4.72
BK90-BK90Z	11.61	15.75	18.90	14.17	18.90	Ø1.30	1.85	5.71

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

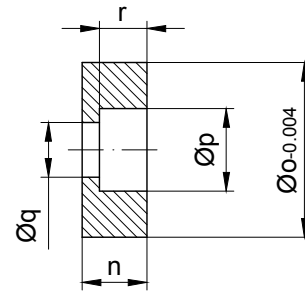
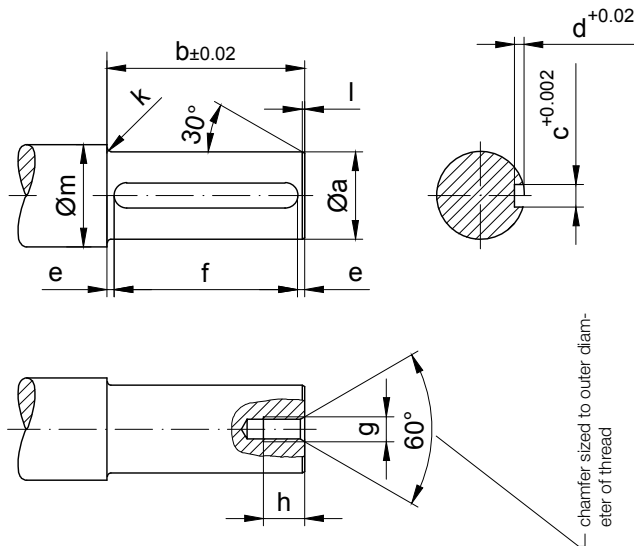
BK-series bevel-geared motors

Additional Dimension Sheet Imperial

Assembly tools for hollow shaft and keyway

Position 1 Shaft

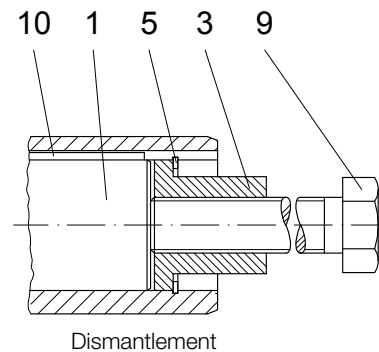
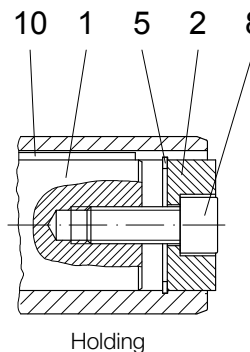
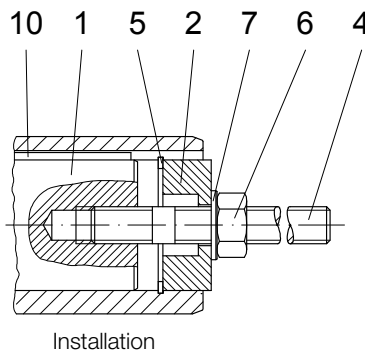
* Position 2 Disc



✓ Edges cut
Material:
C45 DIN 17200

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	Dimensions (mm)															
	Position 1 Shaft											Position 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BK06	0.75	2.95	0.188	0.106	0.235	2.48	M6	0.63	0.08	0.04	1.10	0.53	0.74	0.43	0.26	0.26
BK10	1.00	5.83	0.25	0.141	0.455	4.92	M8	0.71	0.10	0.06	1.30	0.53	0.99	0.59	0.35	0.33
BK20	1.25	6.69	0.25	0.138	0.59	5.51	M10	0.79	0.12	0.06	1.50	0.59	1.24	0.71	0.43	0.39
BK30	1.375	7.91	0.313	0.174	0.41	7.09	M10	0.79	0.12	0.06	1.69	0.63	1.365	0.71	0.43	0.39
BK40	1.50	9.25	0.375	0.211	0.69	7.87	M12	0.87	0.12	0.08	1.89	0.71	1.49	0.79	0.53	0.47
BK50	2.00	10.00	0.50	0.282	0.67	8.66	M16	1.18	0.14	0.08	2.28	0.83	1.99	1.02	0.69	0.59
BK60	2.375	10.75	0.625	0.354	0.455	9.84	M20	1.50	0.14	0.08	2.68	0.94	2.365	1.30	0.87	0.71
BK70	3.00	12.44	0.75	0.423	0.71	11.02	M20	1.50	0.16	0.08	3.54	1.06	2.99	1.30	0.87	0.79
BK80	3.875	14.17	1.00	0.566	0.785	12.60	M24	1.77	0.16	0.12	4.33	1.26	3.865	1.57	1.02	0.98
BK90	4.50	17.01	1.00	0.566	0.63	15.75	M24	1.77	0.18	0.12	5.12	1.38	4.49	1.57	1.02	1.10



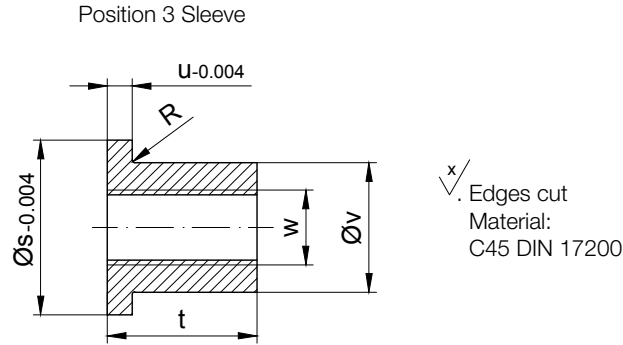
The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos.8 against loosening!

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

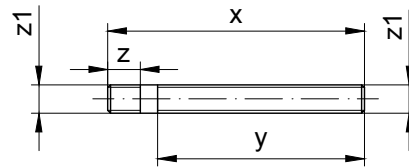
BK-series bevel-geared motors

Additional Dimension Sheet Imperial

Assembly tools for hollow shaft and keyway



* Position 4 Stud bolt



Material: Steel. tensile strength
 $\geq 1000\text{N/mm}^2$
 Threads rolled

Shaft extension tolerance:
 up to 1.5 in diameter: +0.000 / -0.0005 in
 over 1.5 in diameter: +0.000 / -0.001 in
 Flange spigot diameter: +0.0003 / -0.0015 in

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1							
BK06	0.74	0.79	0.20	0.41	M8	0.03	5.12	3.94	0.79	M6	19x1	M6	6.4	M6x30	44.25	M6x120	3/16x3/16x2.48
BK10	0.99	0.94	0.20	0.61	M12	0.03	7.87	6.69	0.79	M8	25x1.2	M8	8.4	M8x30		M12x190	1/4x1/4x920
BK20	1.24	1.10	0.20	0.81	M14	0.03	9.06	7.68	0.91	M10	32x1.2	M10	10.5	M10x30	70.81	M14x210	1/4x1/4x5.510
BK30	1.365	1.10	0.20	0.93	M14	-	10.24	8.66	0.91	M10	35x1.5	M10	10x35	M10x35		M14x240	5/16x5/16x7.09
BK40	1.49	1.57	0.24	1.04	M20	0.03	11.81	10.24	1.10	M12	38x1.75	M12	13	M12x35	141.61	M20x290	3/8x3/8x7.87
BK50	1.99	1.89	0.24	1.43	M24	-	13.39	11.42	1.46	M16	50x2.0	M16	17	M16x40	265.52	M24x320	1/2x1/2x8.66
BK60	2.365	2.36	0.24	1.76	M30	-	14.57	12.20	1.77	M20	60x2.0	M20	21	M20x50	371.73	M30x350	5/8x5/8x9.84
BK70	2.99	2.36	0.32	2.29	M30	-	16.54	14.17	1.77	M20	78x2.5	M20	21	M20x50		M30x400	3/4x3/4x11.02
BK80	3.865	2.83	0.39	3.11	M36	-	18.90	16.14	2.17	M24	98x3.0	M24	25	M24x60	885.07	M36x450	1x1x12.6
BK90	4.49	2.83	0.39	3.66	M36	-	22.05	18.90	2.17	M24	115x4.0	M24	25	M24x60		M36x520	1x1x15.75

The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
 Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

Optional

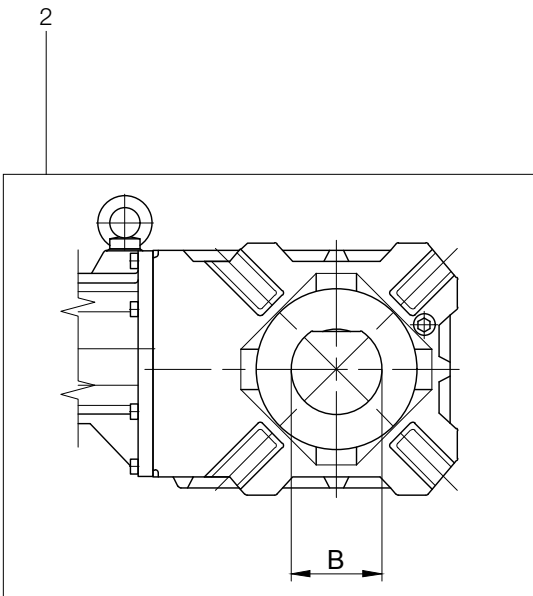
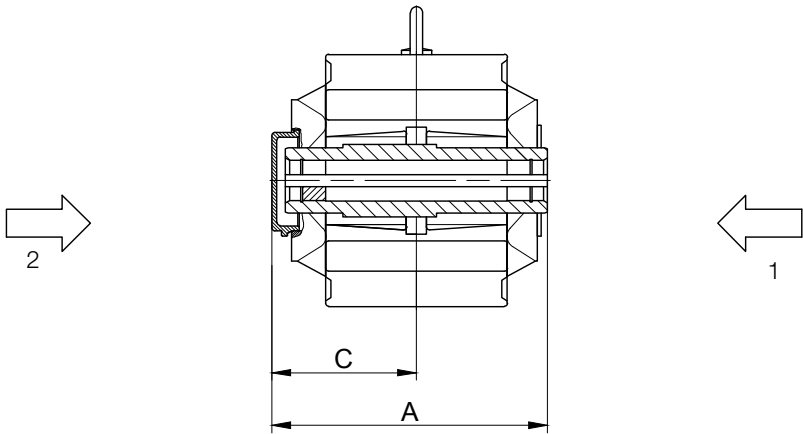
Type	Ø s	Order text
BK06	20	Available only on request
BK10	25	Available only on request
BK20	30	Available only on request
BK30	35	Available only on request
BK40	40	Available only on request
BK50	50	Available only on request
BK60	60	Available only on request
BK70	80	Available only on request
BK80	100	Available only on request
BK90	120	Available only on request

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-gear motors

Additional Dimension Sheet Imperial

Shaft cap (VK)

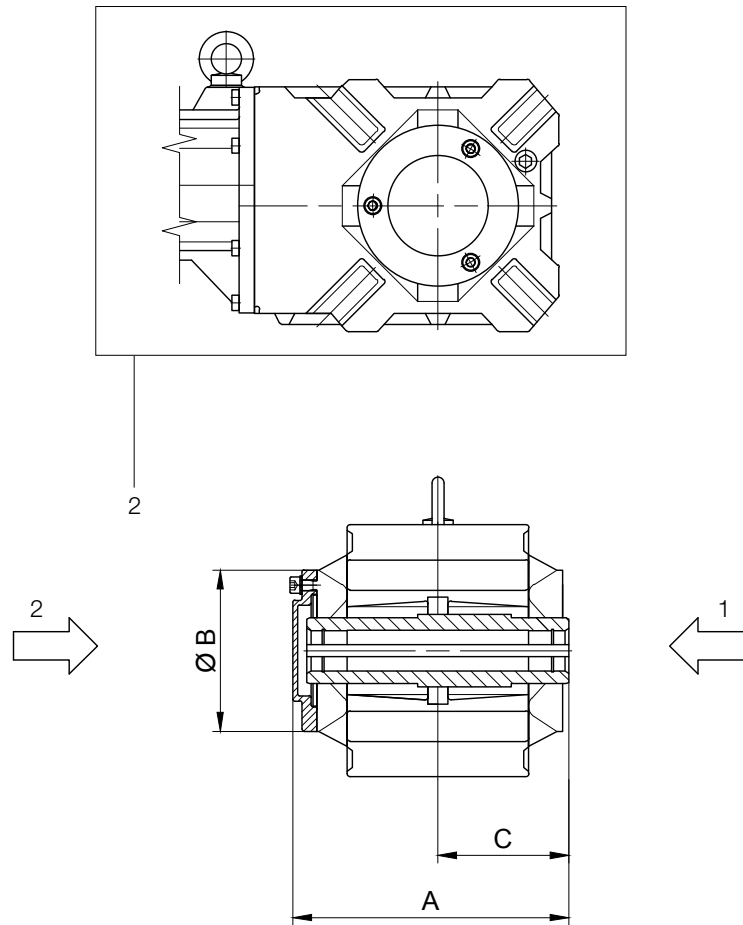


- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BK10	7.19	3.35	3.84
BK20	8.05	3.54	4.27
BK40	10.77	3.94	5.65
BK50	11.73	4.53	6.18
BK60	12.68	5.12	6.73
BK70	14.57	6.30	7.64
Dimensions in inch			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shaft cover (VD)



1 Gear side FRONT (V)

2 Gear side REAR (H)

Type	A	B	C
BK10	7.13	4.72	3.35
BK20	8.11	5.49	3.78
BK30	9.41	6.30	4.41
BK40	10.79	6.30	5.12
BK50	11.69	7.83	5.55
BK60	12.64	8.27	5.94
BK70	14.49	9.84	6.93
BK80	16.50	11.81	7.95
BK90	19.37	13.82	9.53

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

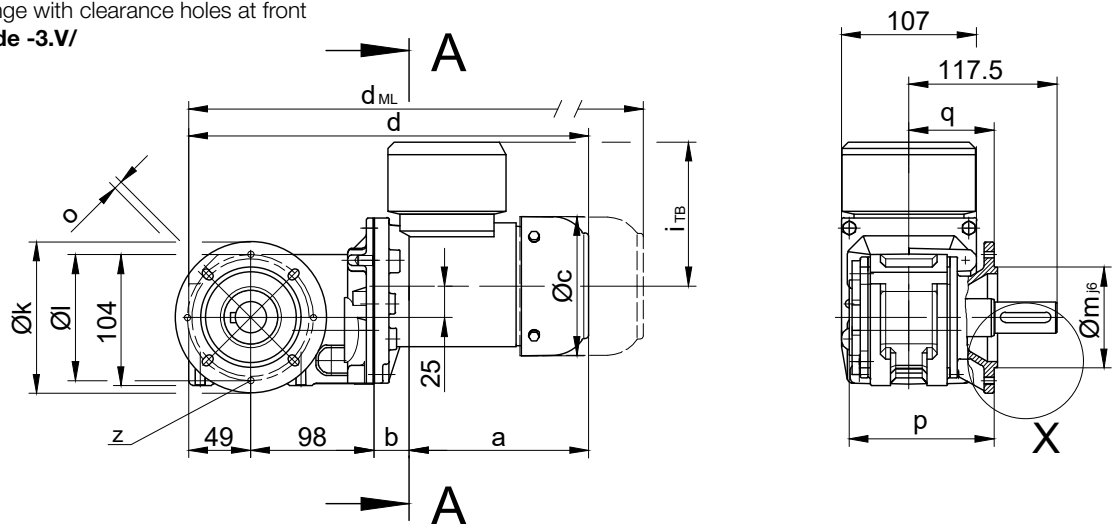
BK-series bevel-geared motors

Dimension - Standard Metric

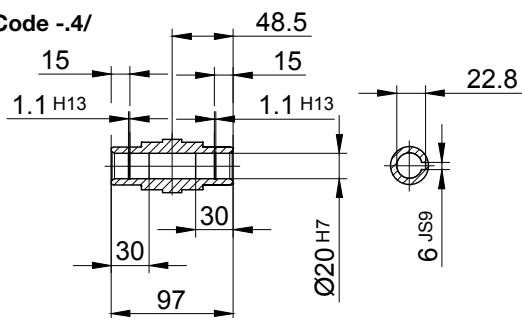
BK06

Flange with clearance holes at front

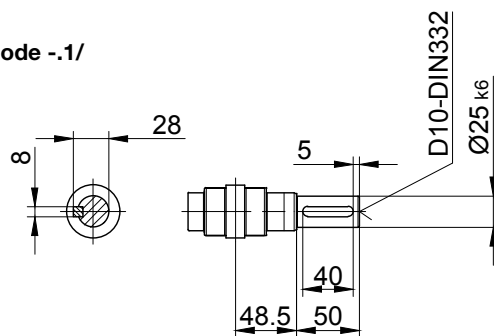
Code -3.V/



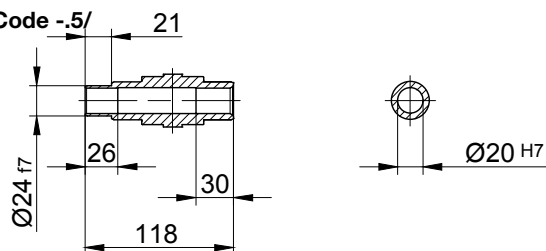
Code -4/



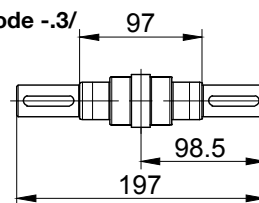
Code -1/



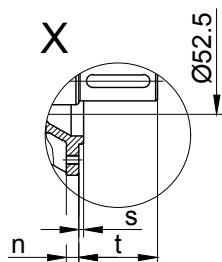
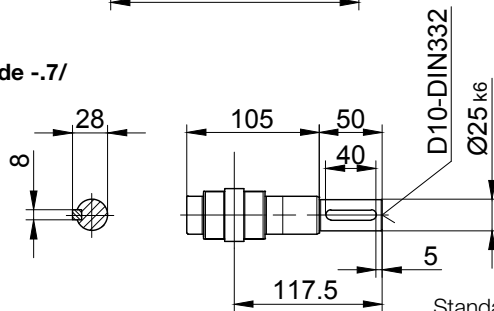
Code -5/



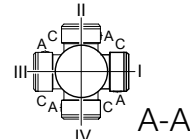
Code -3/



Code -7/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK06	Code -3.V/	120	100	80	8	6.6	115	67.5	3	50	-
BK06	Code -3.V/	120	100	80	8	6.6	115	67.5	3	50	4xM6

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK06-.../D04.A.	142.5	28	110.5	317.5	90	112	361	405	448.5	-
BK06-.../D...05.A.	170.5	30	123	347.5	101	117	389.5	450	487.5	-
BK06-.../D...06.A.	170.5	30	123	347.5	99	119	389.5	450	487.5	-
BK06-.../D...07.A.	190.5	30	123	367.5	99	119	409.5	470	507.5	-
BK06-.../D...08.A.	199.5	74	156	420.5	114.5	136.5	486.5	532.5	594	486.5
BK06-.../D...08.B.	229.5	74	156	450.5	114.5	136.5	516.5	562.5	623.5	516.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

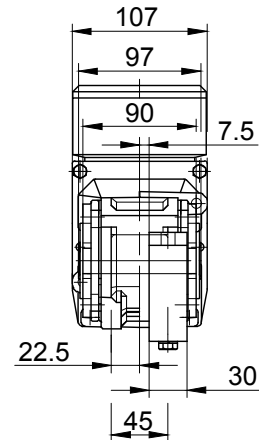
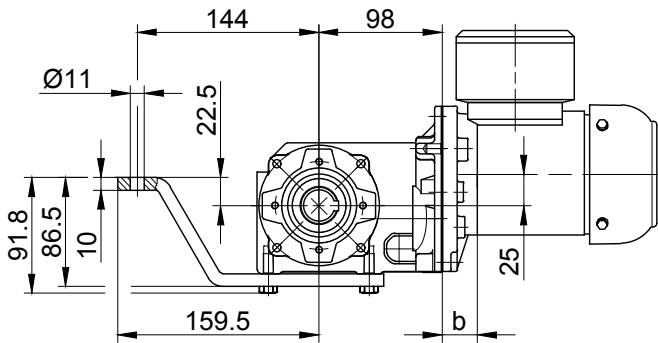
BK-series bevel-geared motors

Dimension - Standard Metric

BK06

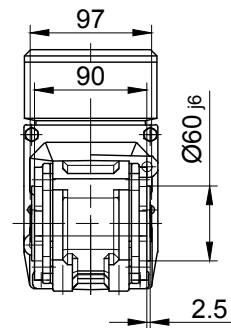
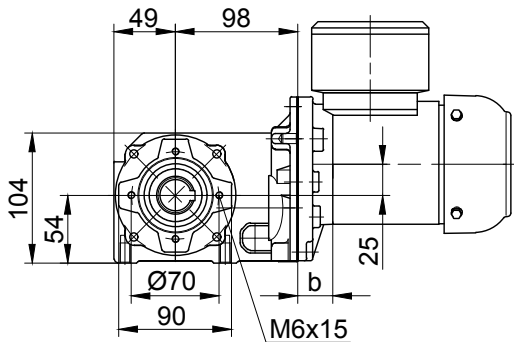
Torque arm at front

Code -5.V/



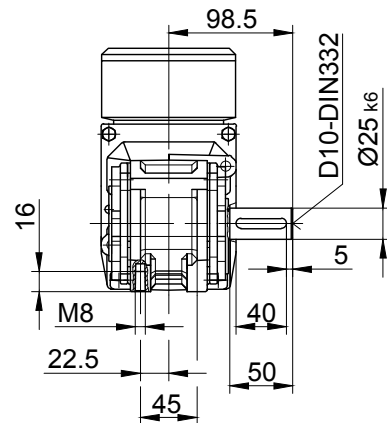
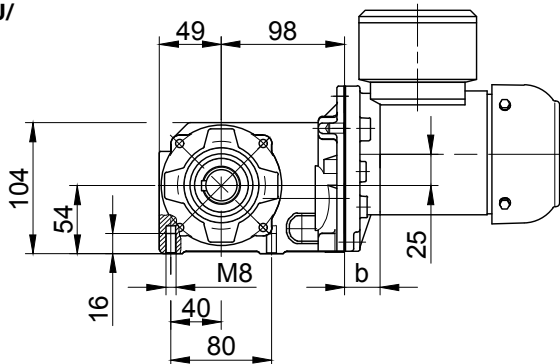
Flange with tapped holes at front

Code -7.V/



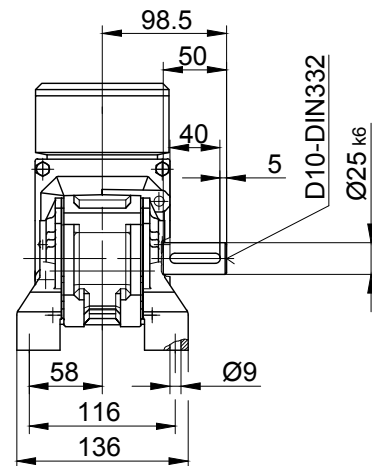
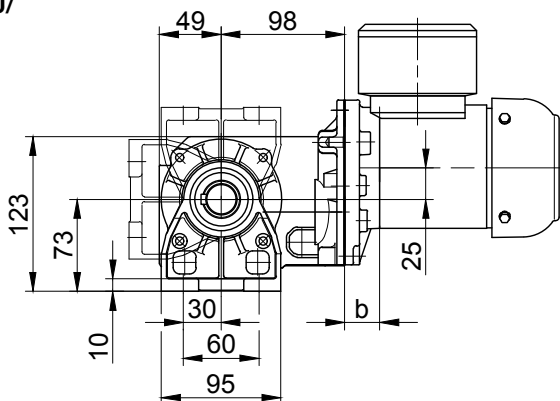
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

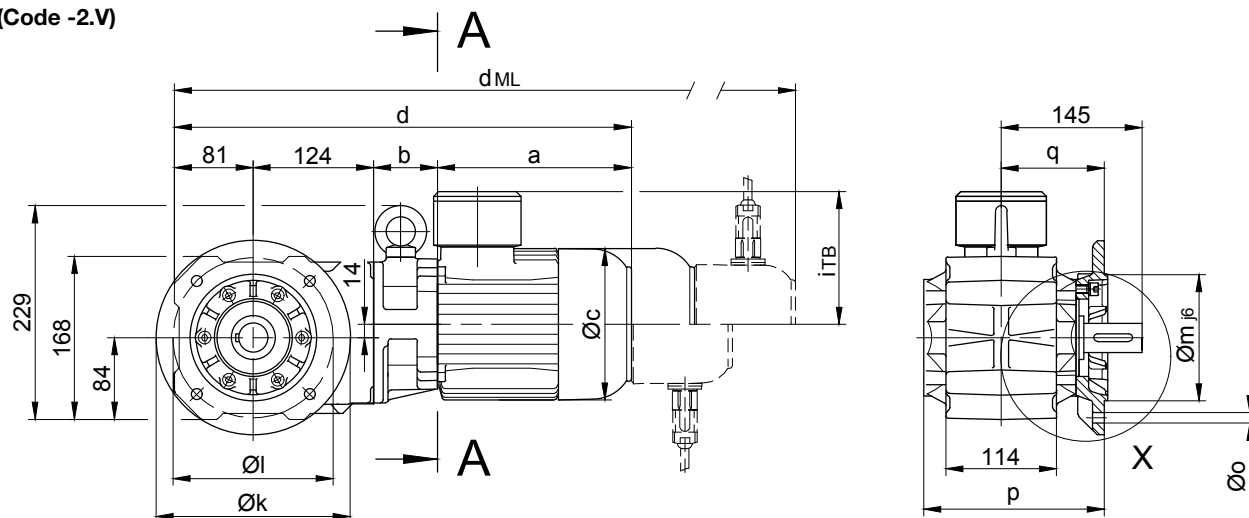
BK-series bevel-geared motors

Dimension - Standard Metric

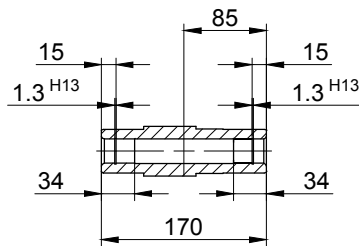
BK10 - BK10Z

Flange with clearance holes at front

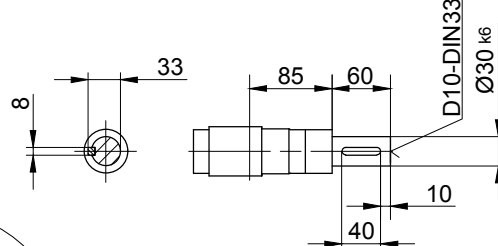
Code -3.V/
(Code -2.V)



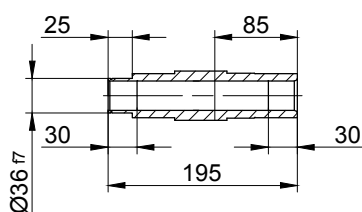
Code -4/



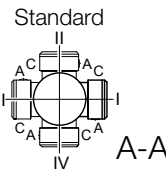
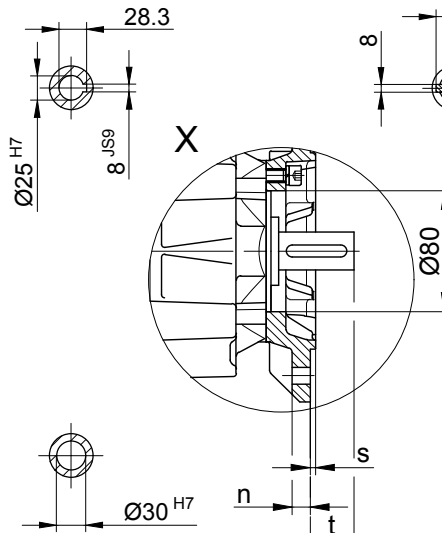
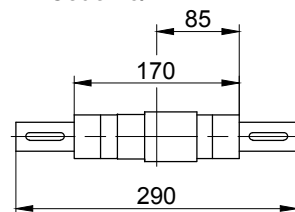
Code -1/



Code -5/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK10..	Code -3.V/	200	165	130	12	11	186.5	106	3.5	39	-
BK10..	Code -2.V/	160	130	110	10	9	179.5	99	3.5	46	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BK10Z-../D04.A.	142.5	86	110.5	433.5	90	112	477	521	564.5	-
BK10-../D..05.A.	170.5	62	123	437.5	101	117	479.5	540	577.5	-
BK10Z-../D..05.A.	170.5	88	123	463.5	101	117	505.5	566	603.5	-
BK10-../D..06.A.	170.5	62	123	437.5	99	119	479.5	540	577.5	-
BK10Z-../D..06.A.	170.5	88	123	463.5	99	119	505.5	566	603.5	-
BK10-../D..07.A.	190.5	62	123	457.5	99	119	499.5	560	597.5	-
BK10Z-../D..07.A.	190.5	88	123	483.5	99	119	525.5	586	623.5	-
BK10-../D..08.A.	199.5	66	156	470.5	114.5	136.5	536.5	582.5	644	536.5
BK10Z-../D..08.A.	199.5	132	156	536.5	114.5	136.5	602.5	648.5	710	602.5
BK10-../D..08.B.	229.5	66	156	500.5	114.5	136.5	566.5	612.5	673.5	566.5
BK10Z-../D..08.B.	229.5	132	156	566.5	114.5	136.5	632.5	678.5	739.5	632.5
BK10-../D..09.A.	250.5	80.5	176	536	124	157	629	643.5	733	629
BK10-../D..09.B.	308.5	80.5	176	594	124	157	687	701	791	687

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

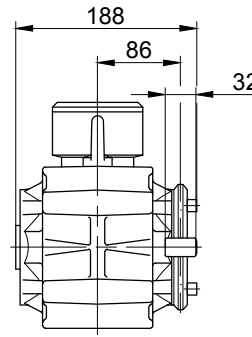
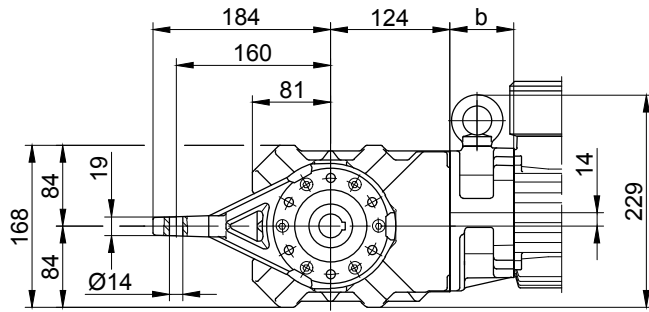
BK-series bevel-geared motors

Dimension - Standard Metric

BK10 - BK10Z

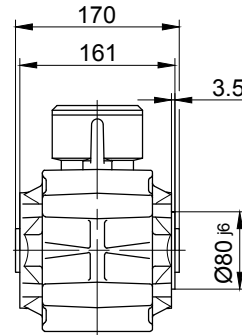
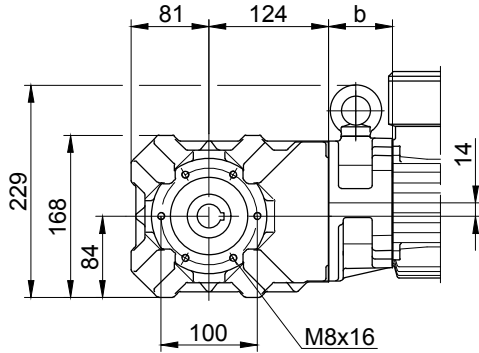
Torque arm at front

Code -5.V/



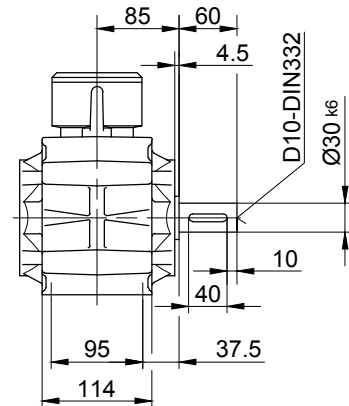
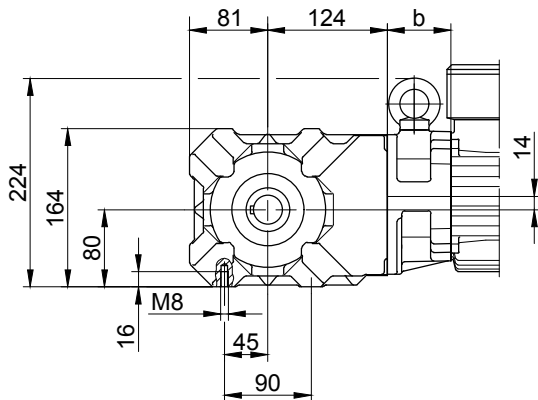
Flange with tapped holes at front

Code -7.V/



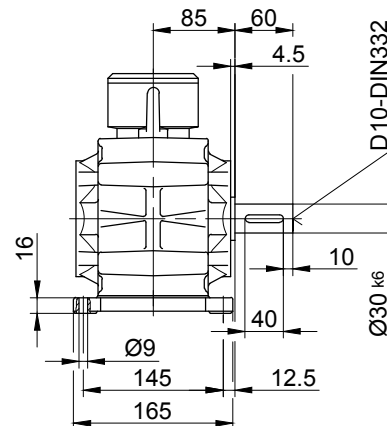
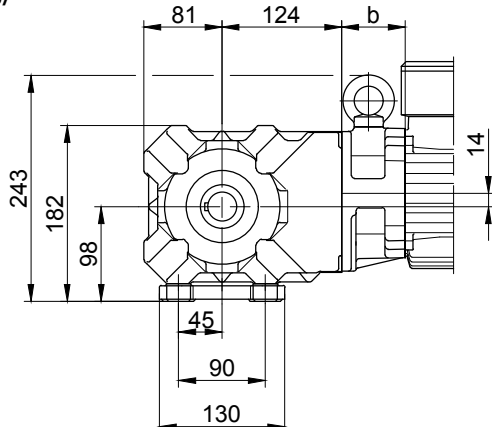
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

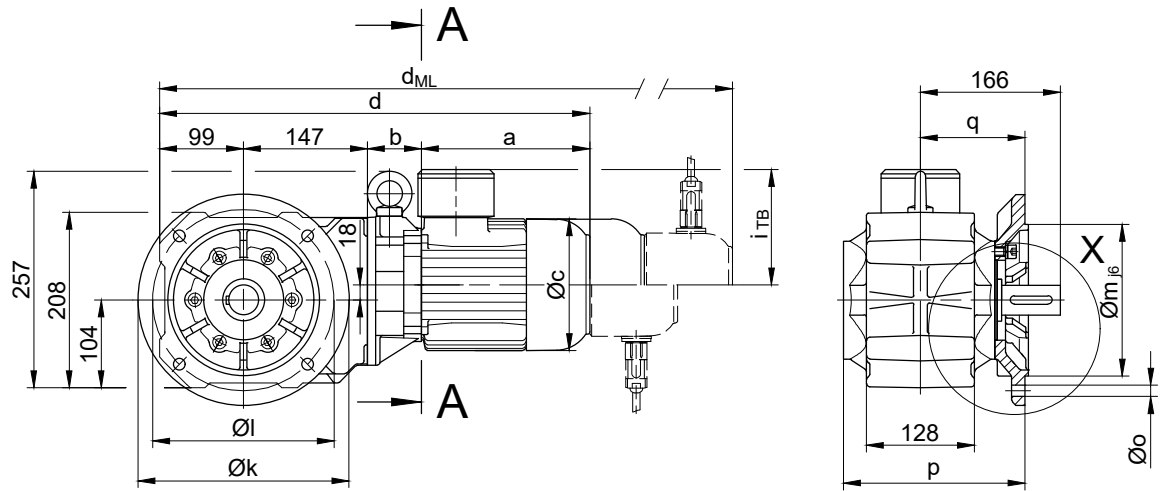
Dimension - Standard Metric

BK20 - BK20Z

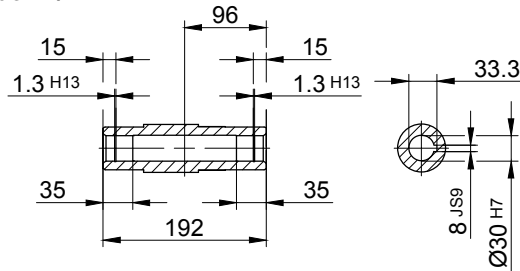
Flange with clearance holes at front

Code -3.V/

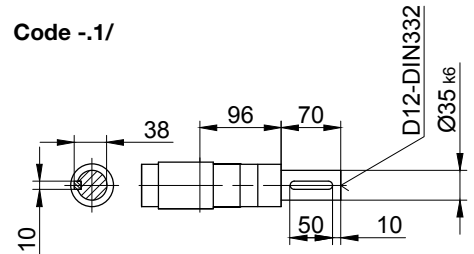
(Code -2.V)



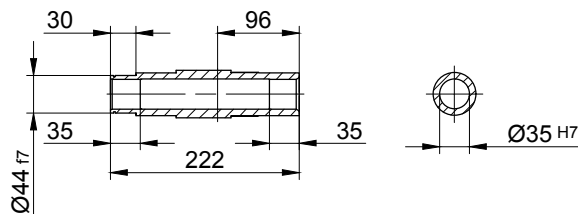
Code -4/



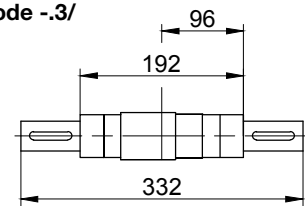
Code -1/



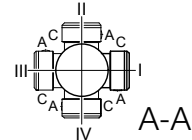
Code -5/



Code -3/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK20..	Code -3.V/	250	215	180	16	13.5	215.5	124	4	42.5	-
BK20..	Code -2.V/	200	165	130	12	11	206.5	115	3.5	51	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK20Z-../D04.A.	142.5	100	110.5	488.5	90	112	532	576	619.5	-
BK20-../D..05.A.	170.5	60	123	476.5	101	117	518.5	579	616.5	-
BK20Z-../D..05.A.	170.5	102	123	518.5	101	117	560.5	621	658.5	-
BK20-../D..06.A.	170.5	60	123	476.5	99	119	518.5	579	616.5	-
BK20Z-../D..06.A.	170.5	102	123	518.5	99	119	560.5	621	658.5	-
BK20-../D..07.A.	190.5	60	123	496.5	99	119	538.5	599	636.5	-
BK20Z-../D..07.A.	190.5	102	123	538.5	99	119	580.5	641	678.5	-
BK20-../D..08.A.	199.5	64	156	509.5	114.5	136.5	575.5	621.5	683	575.5
BK20Z-../D..08.A.	199.5	146	156	591.5	114.5	136.5	657.5	703.5	765	657.5
BK20-../D..08.B.	229.5	64	156	539.5	114.5	136.5	605.5	651.5	712.5	605.5
BK20Z-../D..08.B.	229.5	146	156	621.5	114.5	136.5	687.5	733.5	794.5	687.5
BK20-../D..09.A.	250.5	78.5	176	575	124	157	741.5	682.5	772	668
BK20-../D..09.B.	308.5	78.5	176	633	124	157	620	740	830	726

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

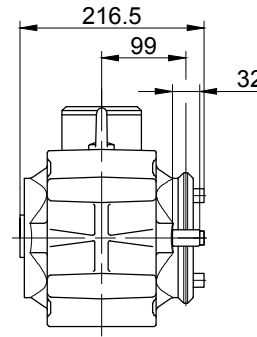
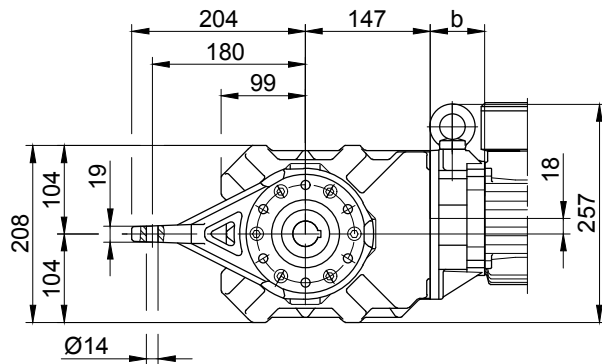
BK-series bevel-gear motors

Dimension - Standard Metric

BK20 - BK20Z

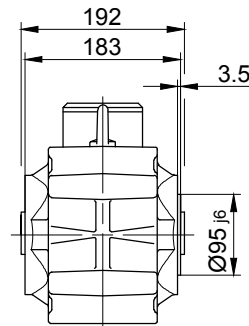
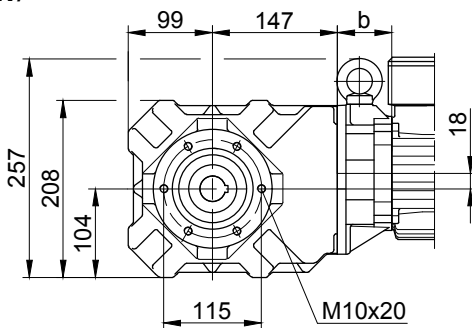
Torque arm at front

Code -5.V/



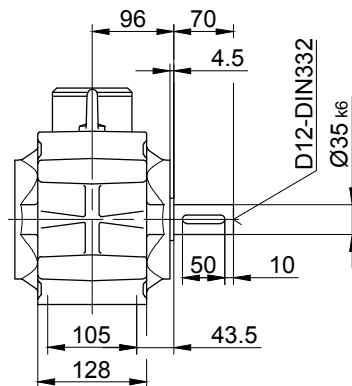
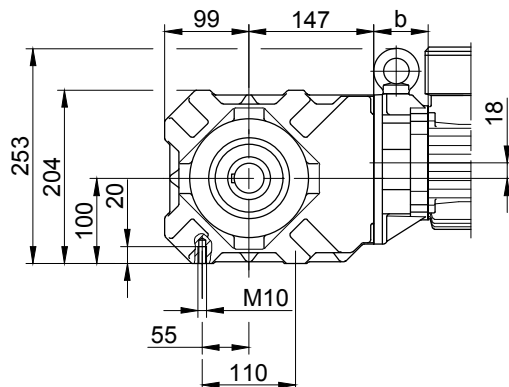
Flange with tapped holes at front

Code -7.V/



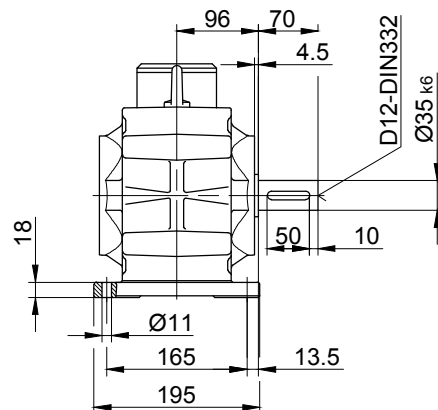
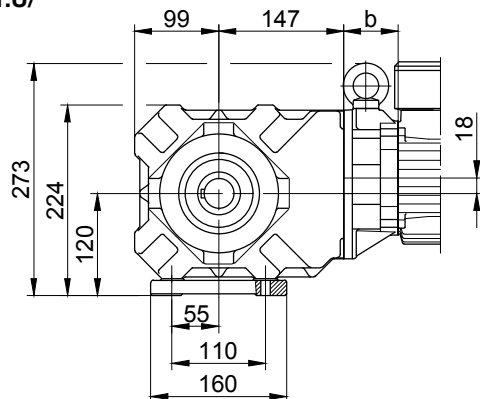
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

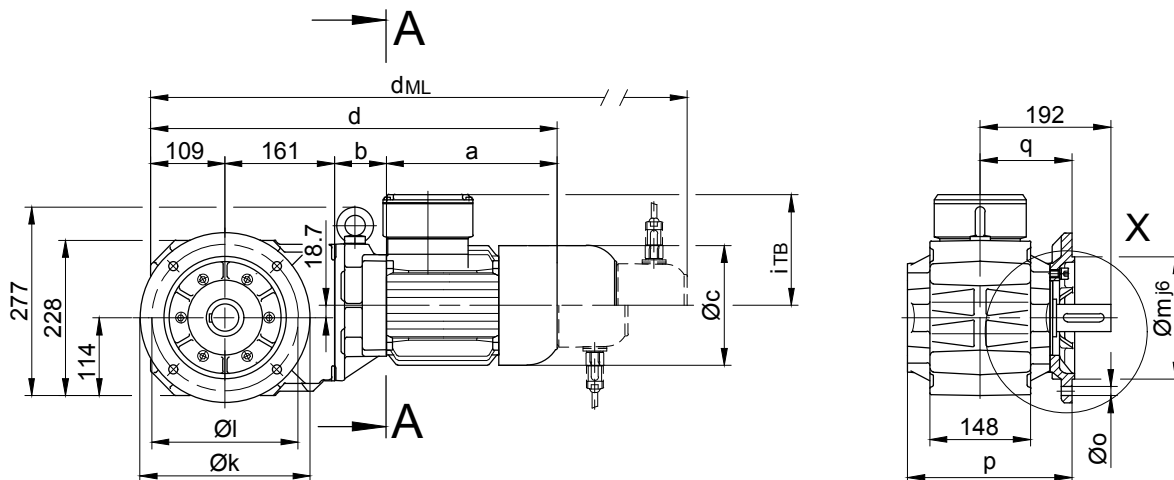
Dimension - Standard Metric

BK30 - BK30Z

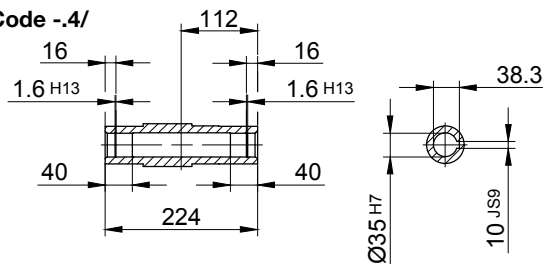
Flange with clearance holes at front

Code -3.V/

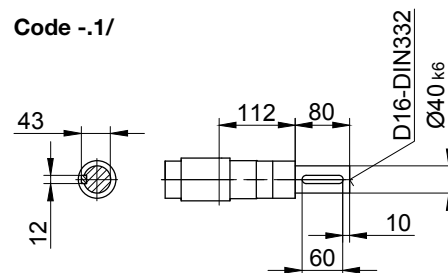
(Code -2.V)



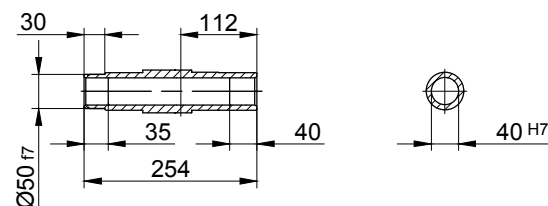
Code -4/



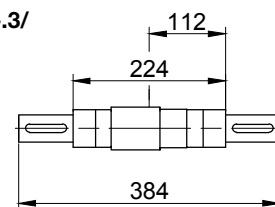
Code -1/



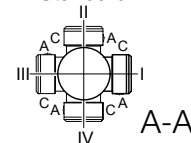
Code -5/



Code -3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK30..	Code -3.V/	250	215	180	16	13.5	242	135	4	57	-
BK30..	Code -2.V/	200	165	130	12	11	239	132	3.5	59.5	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK30-../D..05.A.	170.5	58	123	498.5	101	117	540.5	601	638.5	-
BK30Z-../D..05.A.	170.5	133.5	123	574	101	117	616	676.5	714	-
BK30-../D..06.A.	170.5	58	123	498.5	99	119	540.5	601	638.5	-
BK30Z-../D..06.A.	170.5	133.5	123	574	99	119	616	676.5	714	-
BK30-../D..07.A.	190.5	58	123	518.5	99	119	560.5	621	658.5	-
BK30Z-../D..07.A.	190.5	133.5	123	594	99	119	636	696.5	734	-
BK30-../D..08.A.	199.5	62	156	531.5	114.5	136.5	597.5	643.5	705	597.5
BK30Z-../D..08.A.	199.5	137.5	156	607	114.5	136.5	673	719	780.5	673
BK30-../D..08.B.	229.5	62	156	561.5	114.5	136.5	627.5	673.5	734.5	627.5
BK30Z-../D..08.B.	229.5	137.5	156	637	114.5	136.5	703	749	810	703
BK30-../D..09.A.	250.5	76.5	176	597	124	157	690	704.5	794	690
BK30Z-../D..09.A.	250.5	152	176	672.5	124	157	765.5	780	869.5	765.5
BK30-../D..09.B.	308.5	76.5	176	655	124	157	748	762	852	748
BK30Z-../D..09.B.	308.5	152	176	730.5	124	157	823.5	837.5	927.5	823.5
BK30-../D..11.A.	319	83	218	672	165	176	770	779.5	872	770
BK30-../D..11.B.	387	83	218	740	165	176	836	847.5	940	836

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

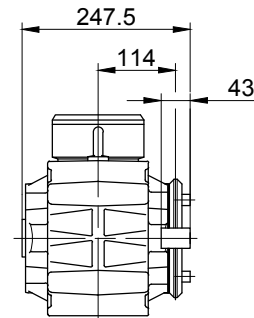
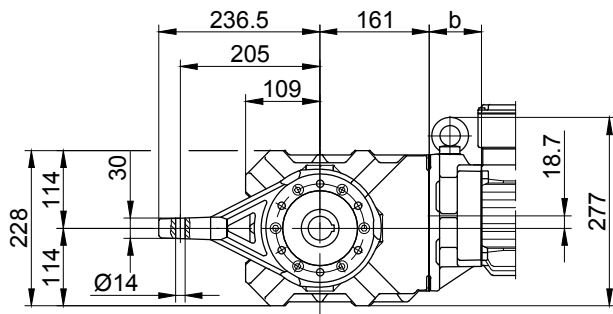
BK-series bevel-geared motors

Dimension - Standard Metric

BK30 - BK30Z

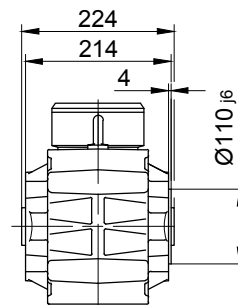
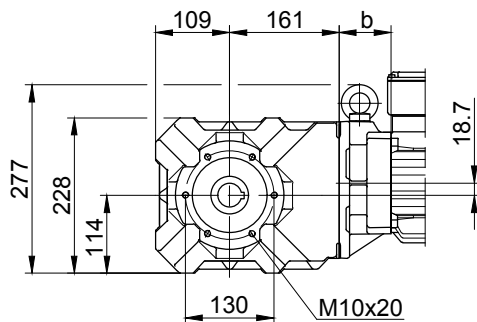
Torque arm at front

Code -5.V/



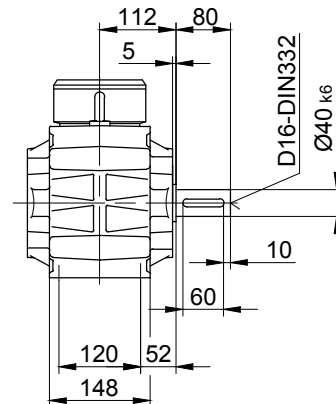
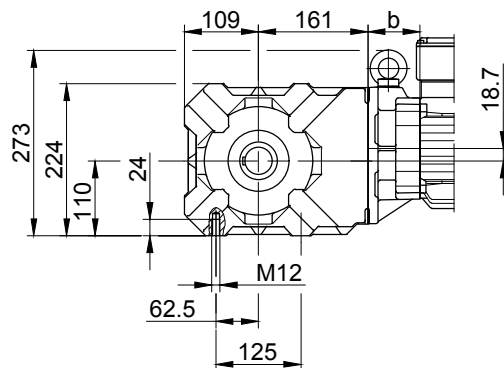
Flange with tapped holes at front

Code -7.V/



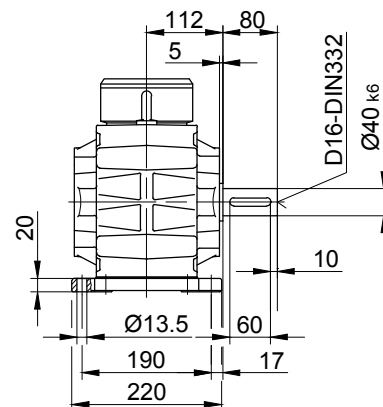
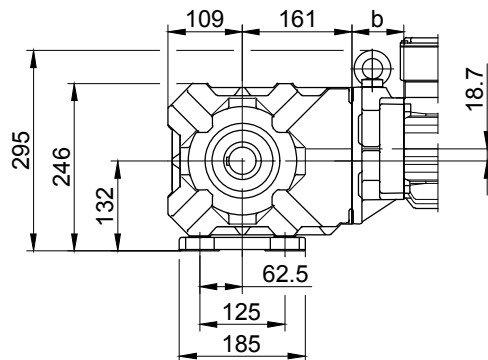
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

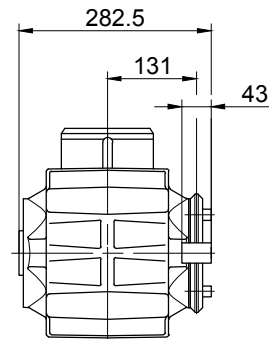
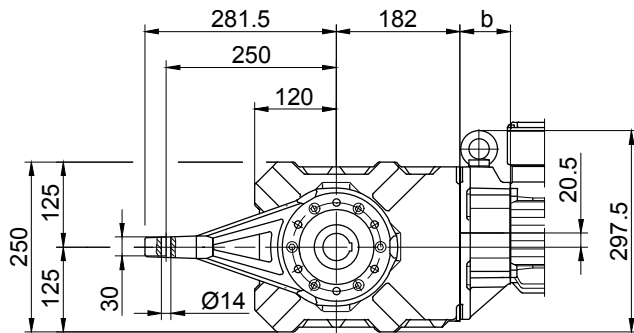
BK-series bevel-geared motors

Dimension - Standard Metric

BK40 - BK40Z

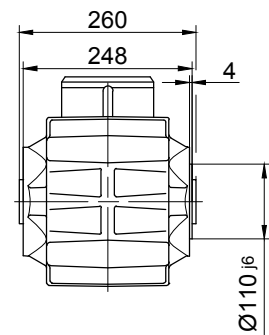
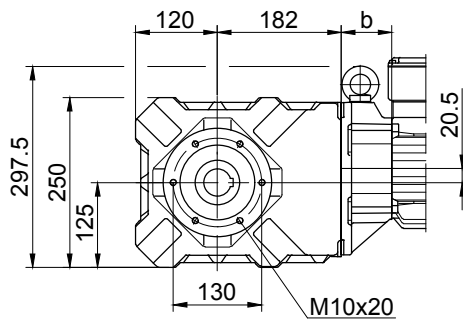
Torque arm at front

Code -5.V/



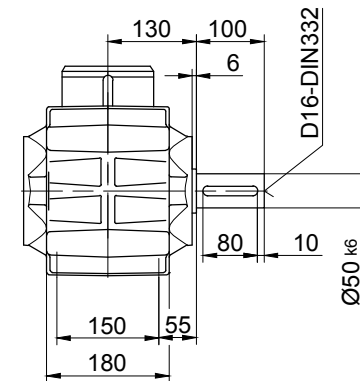
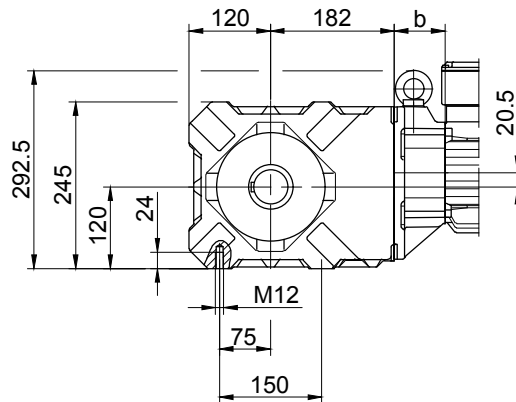
Flange with tapped holes at front

Code -7.V/



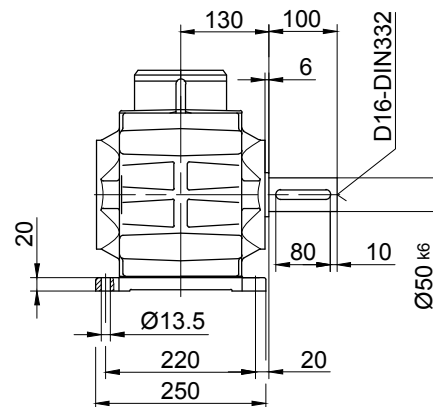
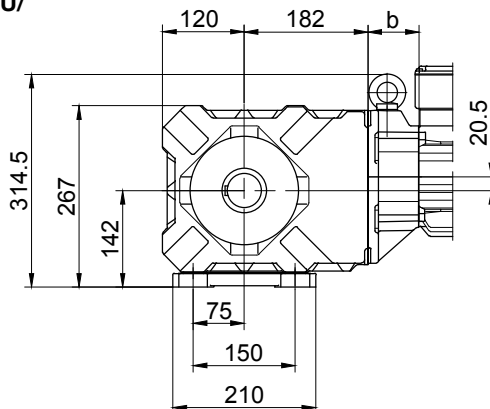
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

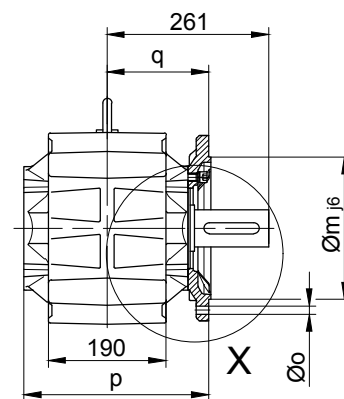
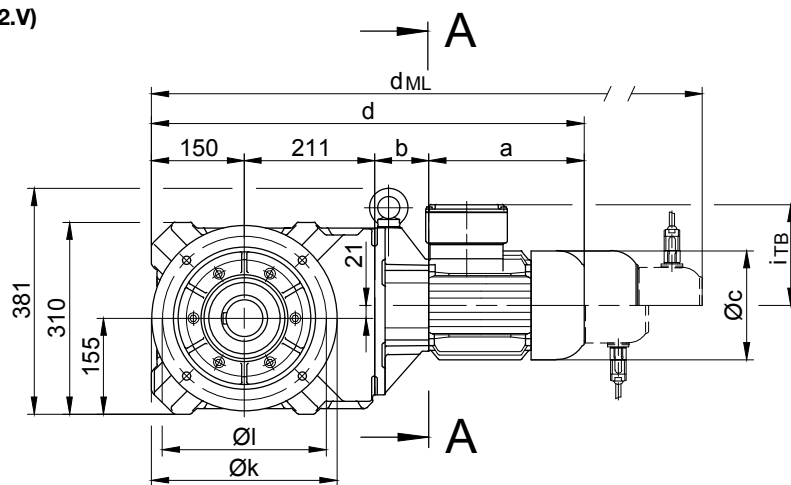
Dimension - Standard Metric

BK50 - BK50Z

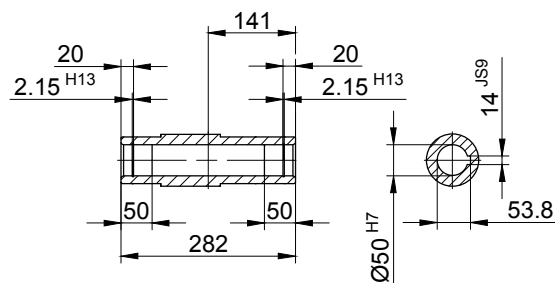
Flange with clearance holes at front

Code -3.V/

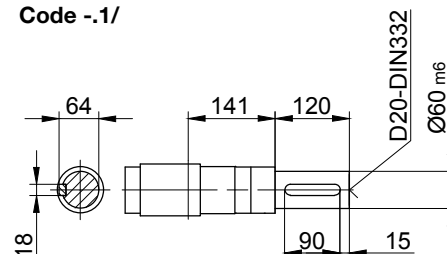
(Code -2.V)



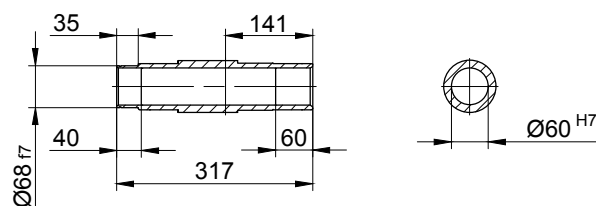
Code -4/



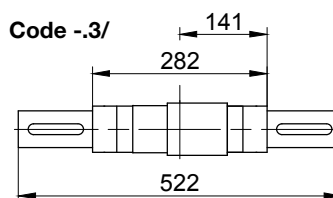
Code -1/



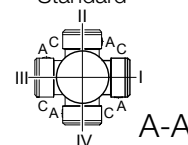
Code -5/



Code -3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK50..	Code -3.V/	300	265	230	20	13.5	299	164	4	97	-
BK50..	Code -2.V/	250	215	180	16	13.5	296	161	4	100	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK50Z-../D..05.A.	170.5	155	123	686.5	101	117	728.5	789	826.5	-
BK50Z-../D..06.A.	170.5	155	123	686.5	99	119	728.5	789	826.5	-
BK50Z-../D..07.A.	190.5	155	123	706.5	99	119	748.5	809	846.5	-
BK50-../D..08.A.	199.5	73	156	633.5	114.5	136.5	699.5	745.5	807	699.5
BK50Z-../D..08.A.	199.5	159	156	719.5	114.5	136.5	785.5	831.5	893	785.5
BK50-../D..08.B.	229.5	73	156	663.5	114.5	136.5	729.5	775.5	836.5	729.5
BK50Z-../D..08.B.	229.5	159	156	749.5	114.5	136.5	815.5	861.5	922.5	815.5
BK50-../D..09.A.	250.5	87.5	176	699	124	157	792	806.5	896	792
BK50Z-../D..09.A.	250.5	173.5	176	785	124	157	878	892.5	982	878
BK50-../D..09.B.	308.5	87.5	176	757	124	157	850	864	954	850
BK50Z-../D..09.B.	308.5	173.5	176	843	124	157	936	950	1040	936
BK50-../D..11.A.	319	94	218	774	165	176	872	881.5	974	872
BK50-../D..11.B.	387	94	218	842	165	176	938	949.5	1042	938
BK50-../D..13.A.	393	107	258	861	217	217	972	968	1073	969
BK50-../D..16.B.	454.5	121	310	936.5	243	243	1080	1043.5	1183.5	1080
BK50-../D..18.B.	542	143	348	1046	288	288	1195.5	1151.5	1299	1195.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

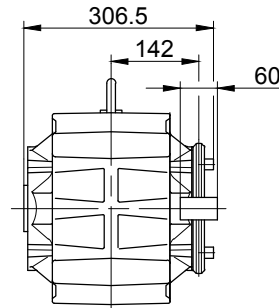
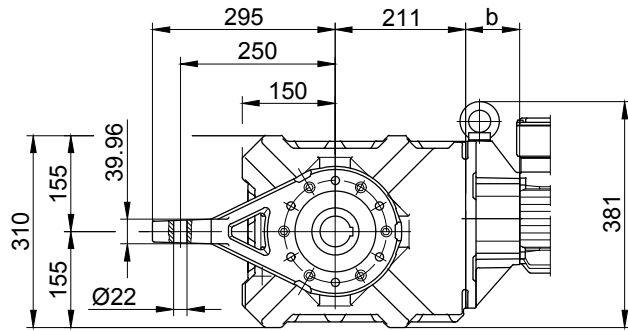
BK-series bevel-geared motors

Dimension - Standard Metric

BK50 - BK50Z

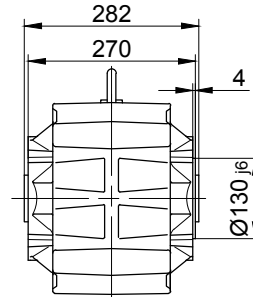
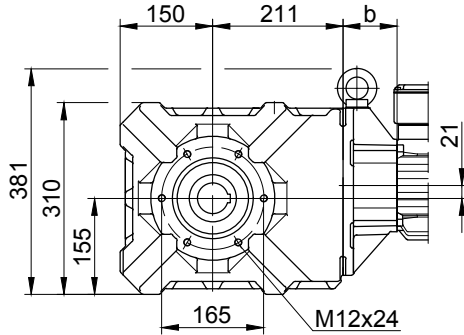
Torque arm at front

Code -5.V/



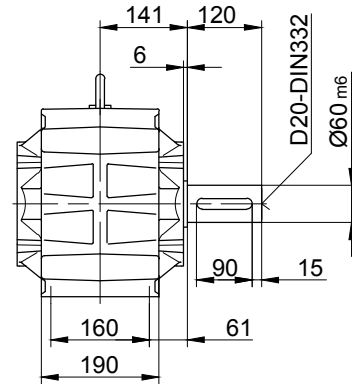
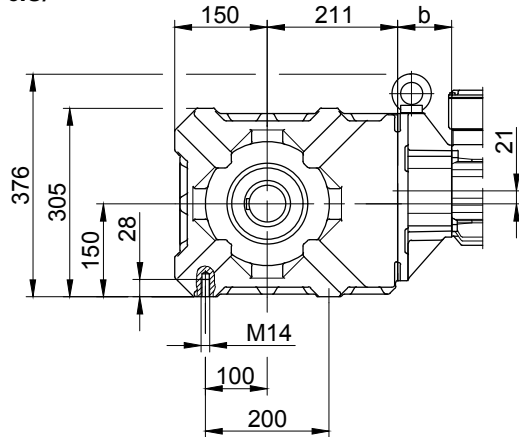
Flange with tapped holes at front

Code -7.V/



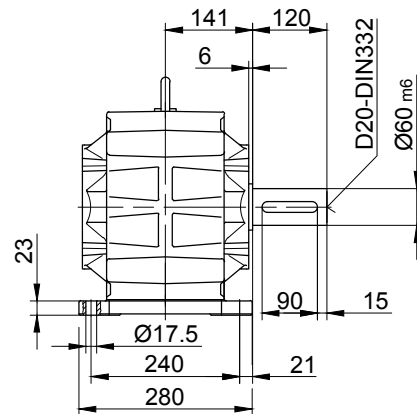
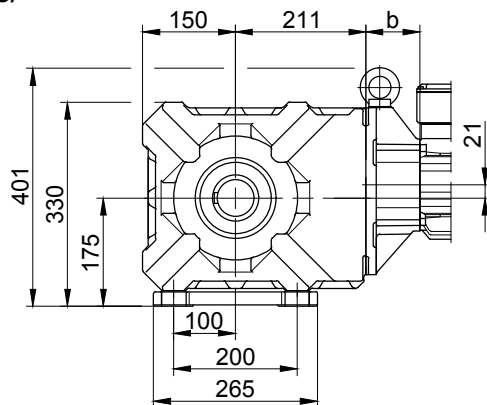
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

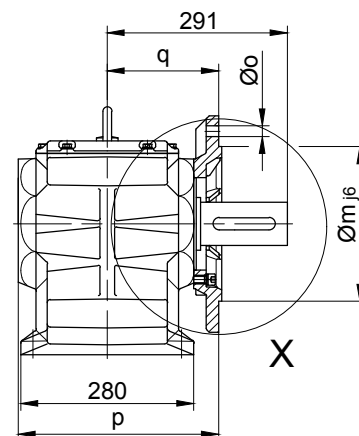
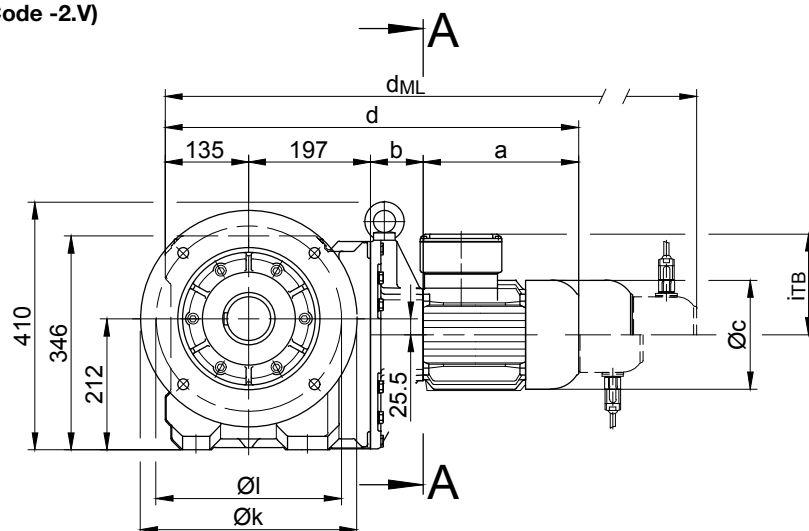
Dimension - Standard Metric

BK60 - BK60Z

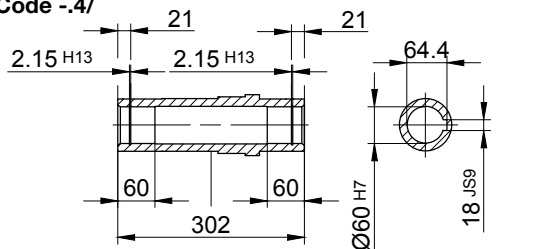
Flange with clearance holes at front

Code -3.V/

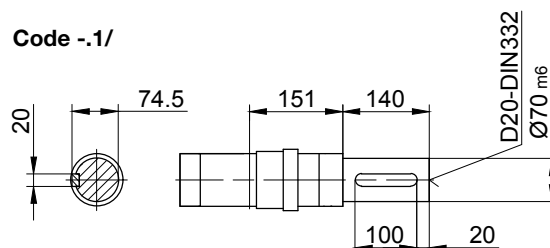
(Code -2.V)



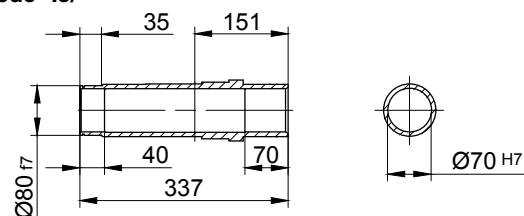
Code -4/



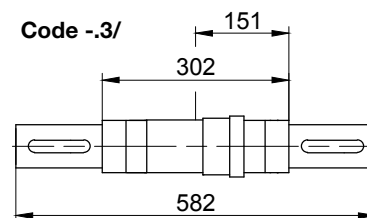
Code -1/



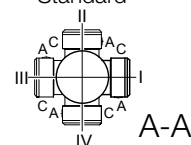
Code -5/



Code -3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK60..	Code -3.V/	350	300	250	20	17.5	324	180	5	112	-
BK60..	Code -2.V/	300	265	230	20	13.5	332	188	4	103	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK60Z-../D..08.A.	199.5	181	156	712.5	114.5	136.5	778.5	824.5	886	778.5
BK60Z-../D..08.B.	229.5	181	156	742.5	114.5	136.5	808.5	854.5	915.5	808.5
BK60-../D..09.A.	250.5	85.5	176	668	124	157	761	775.5	865	761
BK60Z-../D..09.A.	250.5	195.5	176	778	124	157	871	885.5	975	871
BK60-../D..09.B.	308.5	85.5	176	726	124	157	819	833	923	819
BK60Z-../D..09.B.	308.5	195.5	176	836	124	157	929	943	1033	929
BK60-../D..11.A.	319	92	218	743	165	176	841	850.5	943	841
BK60Z-../D..11.A.	319	202	218	853	165	176	951	960.5	1053	951
BK60-../D..11.B.	387	92	218	811	165	176	907	918.5	1011	907
BK60Z-../D..11.B.	387	202	218	921	165	176	1017	1028.5	1121	1017
BK60-../D..13.A.	393	105	258	830	217	217	941	937	1042	938
BK60-../D..16.B.	454.5	119	310	905.5	243	243	1049	1012.5	1152.5	1049
BK60-../D..18.B.	542	141	348	1015	288	288	1164.5	1120.5	1268	1164.5

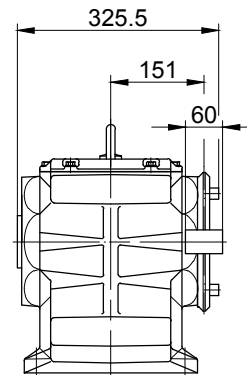
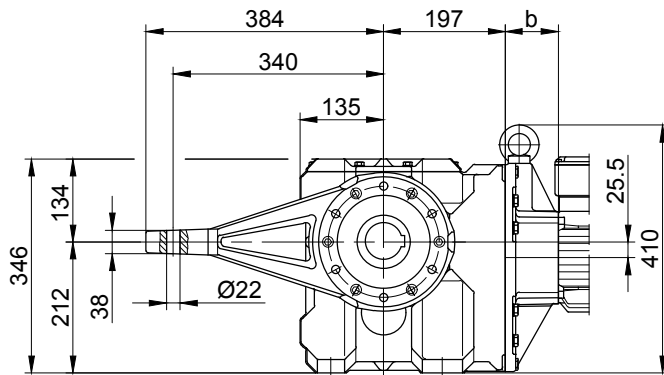
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK60 - BK60Z

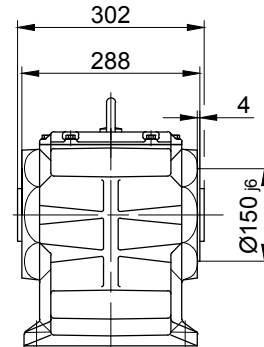
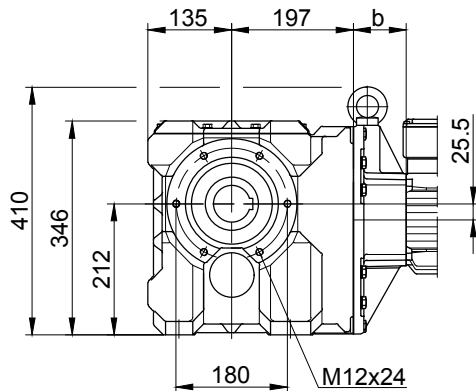
Torque arm at front

Code -5.V/



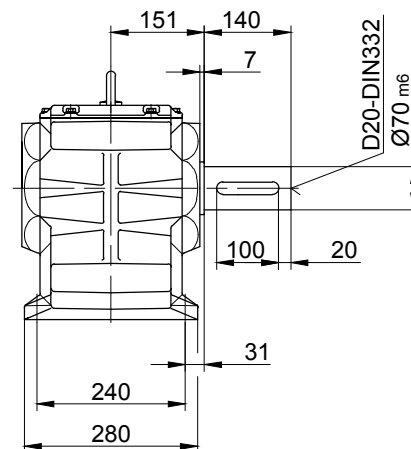
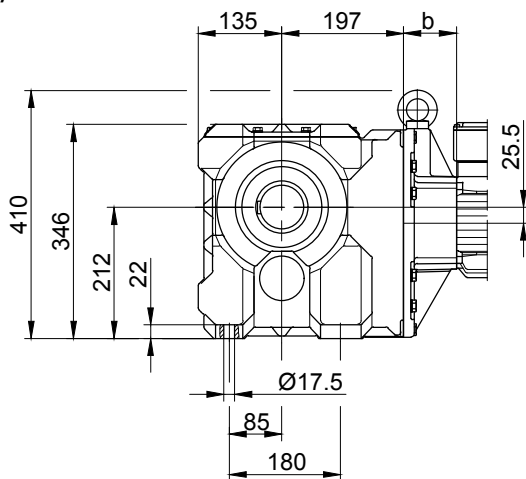
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



BK-series bevel-geared motors

Dimension - Standard Metric

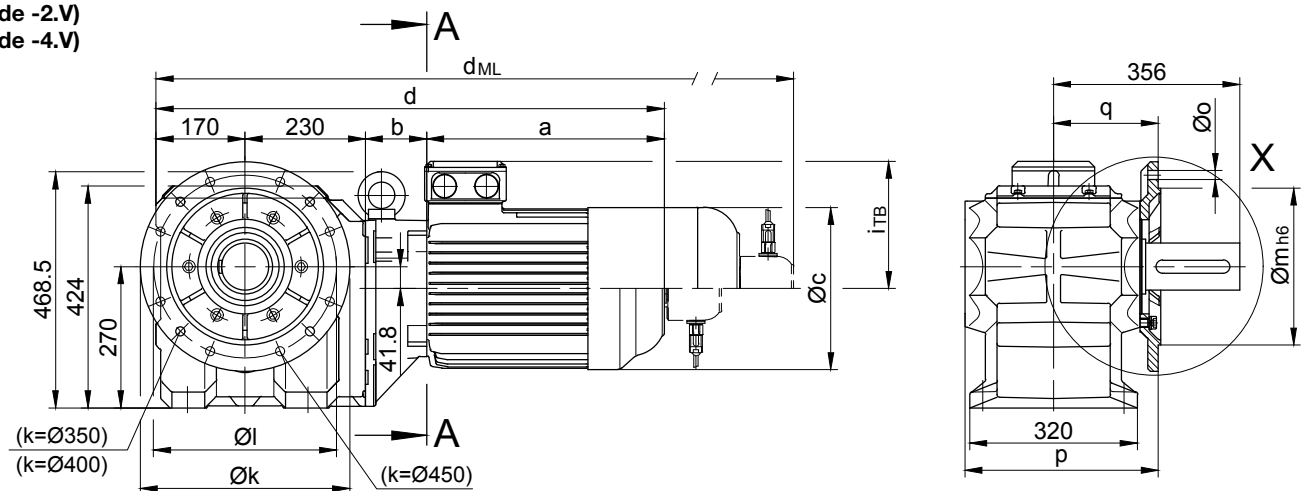
BK70 - BK70Z

Flange with clearance holes at front

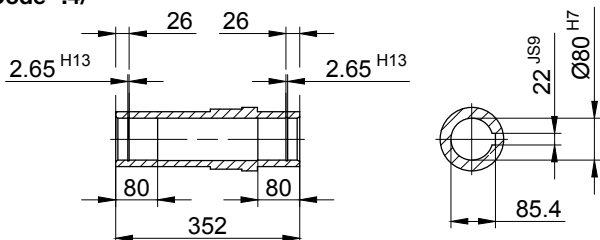
Code -3.V/

(Code -2.V)

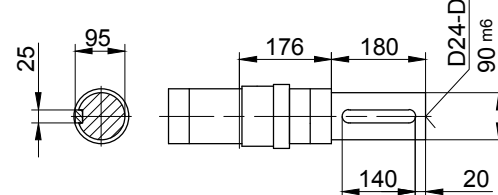
(Code -4.V)



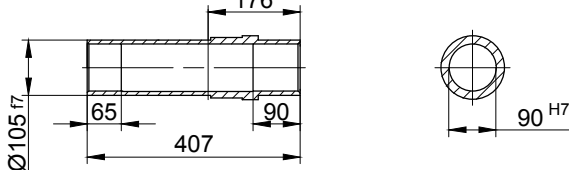
Code -4/



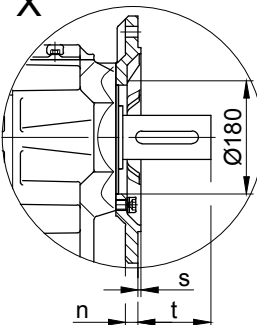
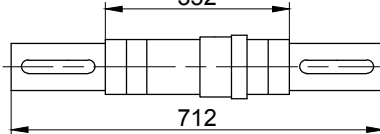
Code -1/



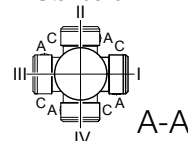
Code -5/



Code -3/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK70..	Code -3.V/	400	350	300	20	17.5	369	200	5	157	-
BK70..	Code -2.V/	350	300	250	20	17.5	369	200	5	157	-
BK70..	Code -4.V/	450	400	350	22	17.5	379	210	5	147	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK70Z-../D..08.A.	199.5	202	156	801.5	114.5	136.5	867.5	913.5	975	867.5
BK70Z-../D..08.B.	229.5	202	156	831.5	114.5	136.5	897.5	943.5	1004.5	897.5
BK70-../D..09.A.	250.5	83.5	176	734	124	157	827	841.5	931	827
BK70Z-../D..09.A.	250.5	216.5	176	867	124	157	960	974.5	1064	960
BK70-../D..09.B.	308.5	83.5	176	792	124	157	885	899	989	885
BK70Z-../D..09.B.	308.5	216.5	176	925	124	157	1018	1032	1122	1018
BK70-../D..11.A.	319	90	218	809	165	176	907	916.5	1009	907
BK70Z-../D..11.A.	319	223	218	942	165	176	1040	1049.5	1142	1040
BK70-../D..11.B.	387	90	218	877	165	176	973	984.5	1077	973
BK70Z-../D..11.B.	387	223	218	1010	165	176	1106	1117.5	1210	1106
BK70-../D..13.A.	393	103	258	896	217	217	1007	1003	1108	1004
BK70Z-../D..13.A.	393	236	258	1029	217	217	1140	1136	1241	1137
BK70-../D..16.B.	454.5	117	310	971.5	243	243	1115	1078.5	1218.5	1115
BK70Z-../D..16.B.	454.5	250	310	1104.5	243	243	1248	1211.5	1351.5	1248
BK70-../D..18.B.	542	139	348	1081	288	288	1230.5	1186.5	1334	1230.5
BK70Z-../D..18.B.	542	272	348	1214	288	288	1363.5	1319.5	1467	1363.5
BK70-../D..20.A.	703.5	156	363	1259.5	302	302	1387	1365	1492.5	1259.5
BK70Z-../D..22.A.	703.5	156	363	1259.5	302	302	1387	1365	1492.5	1259.5

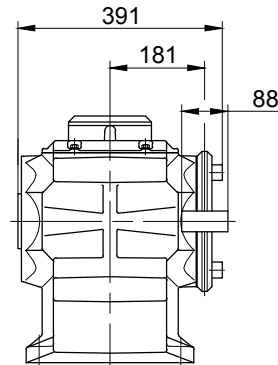
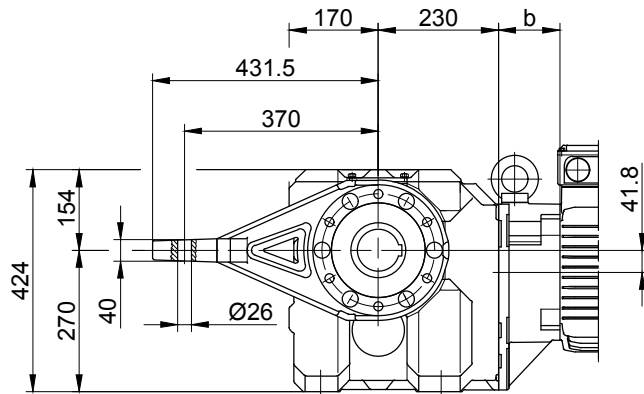
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK70 - BK70Z

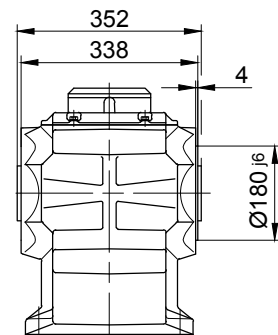
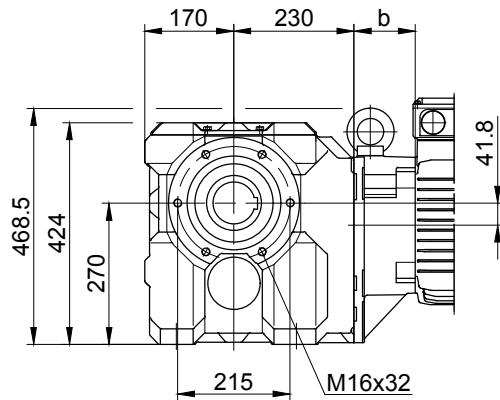
Torque arm at front

Code -5.V/



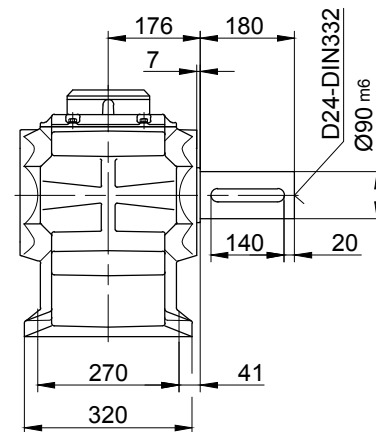
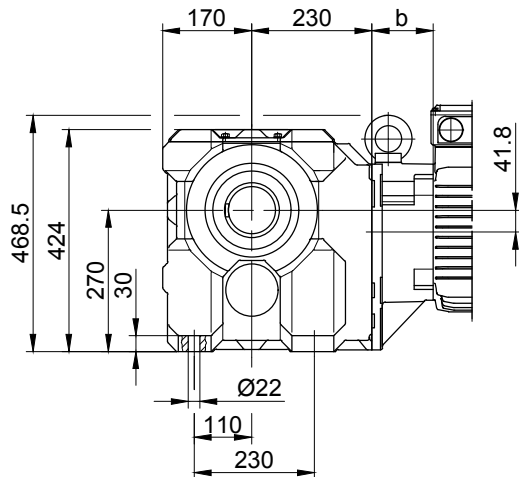
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



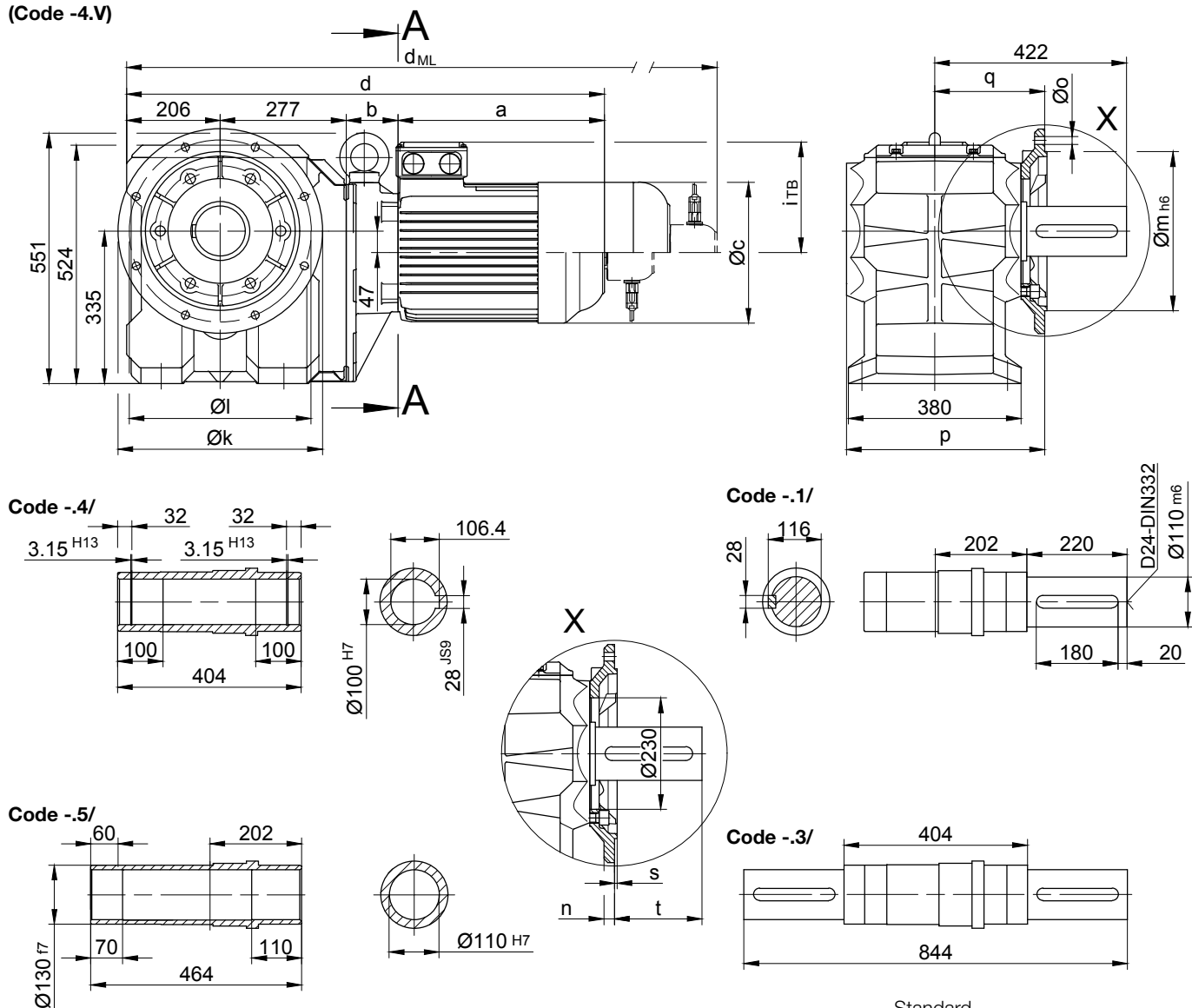
Dimension - Standard Metric

BK80 - BK80Z

Flange with clearance holes at front

Code -3.V/

(Code -4.V)

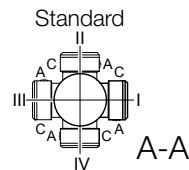


Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK80..	Code -3.V/	450	400	350	22	17.5	439	245	5	178	-
BK80..	Code -4.V/	550	500	450	22	17.5	444	250	5	173	-

Dimensions in millimetres (mm)

Dimensions in millimetres (mm)



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK80Z-../D..09.A.	250.5	252.5	176	986	124	157	1079	1093.5	1183	1079
BK80Z-../D..09.B.	308.5	252.5	176	1044	124	157	1137	1151	1241	1137
BK80-../D..11.A.	319	87	218	889	165	176	987	996.5	1089	987
BK80Z-../D..11.A.	319	259	218	1061	165	176	987	1168.5	1261	1159
BK80-../D..11.B.	387	87	218	957	165	176	1053	1064.5	1157	1053
BK80Z-../D..11.B.	387	259	218	1129	165	176	1225	1236.5	1329	1225
BK80-../D..13.A.	393	100	258	976	217	217	1087	1083	1188	1084
BK80Z-../D..13.A.	393	272	258	1148	217	217	1259	1255	1360	1256
BK80-../D..16.B.	454.5	114	310	1051.5	243	243	1195	1158.5	1298.5	1195
BK80Z-../D..16.B.	454.5	286	310	1223.5	243	243	1367	1330.5	1470.5	1367
BK80-../D..18.B.	542	136	348	1161	288	288	1217	1266.5	1414	1310.5
BK80Z-../D..18.B.	542	308	348	1333	288	288	1389	1438.5	1586	1482.5
BK80-../D..20.A.	703.5	153	363	1339.5	302	302	1467	1445	1572.5	1339.5
BK80-../D..22.A.	703.5	153	363	1339.5	302	302	1467	1445	1572.5	1339.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

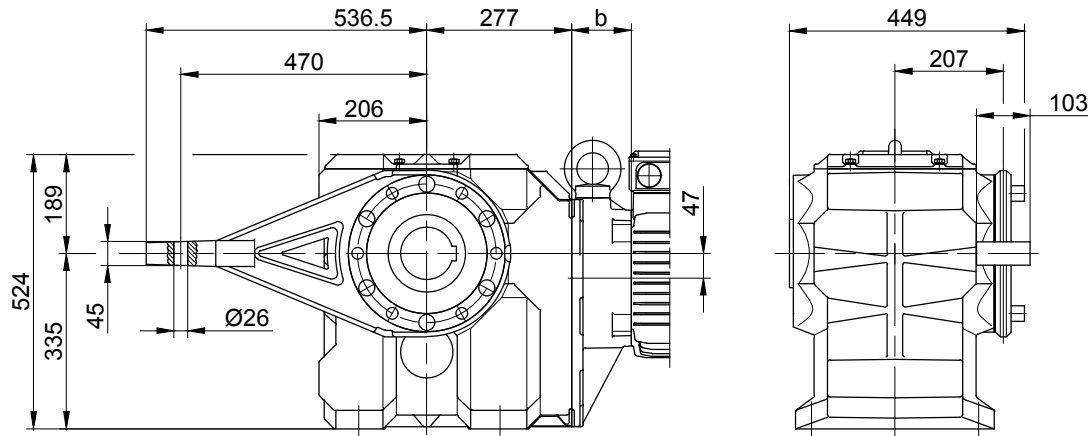
BK-series bevel-geared motors

Dimension - Standard Metric

BK80 - BK80Z

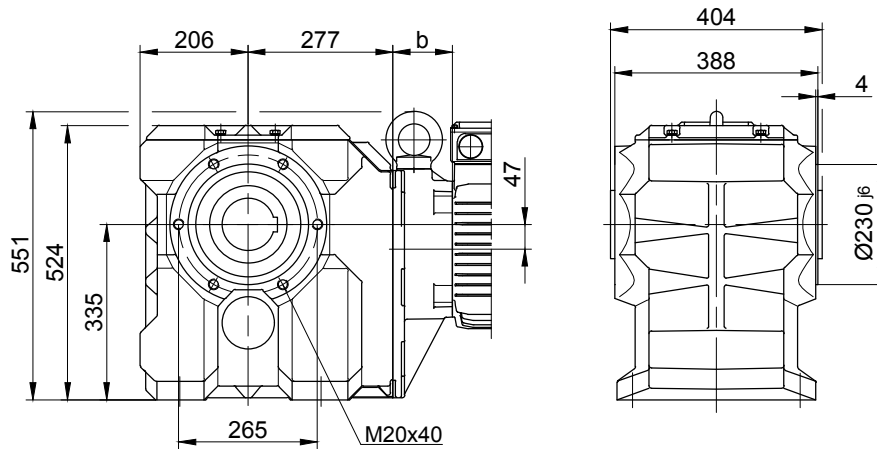
Torque arm at front

Code -5.V/



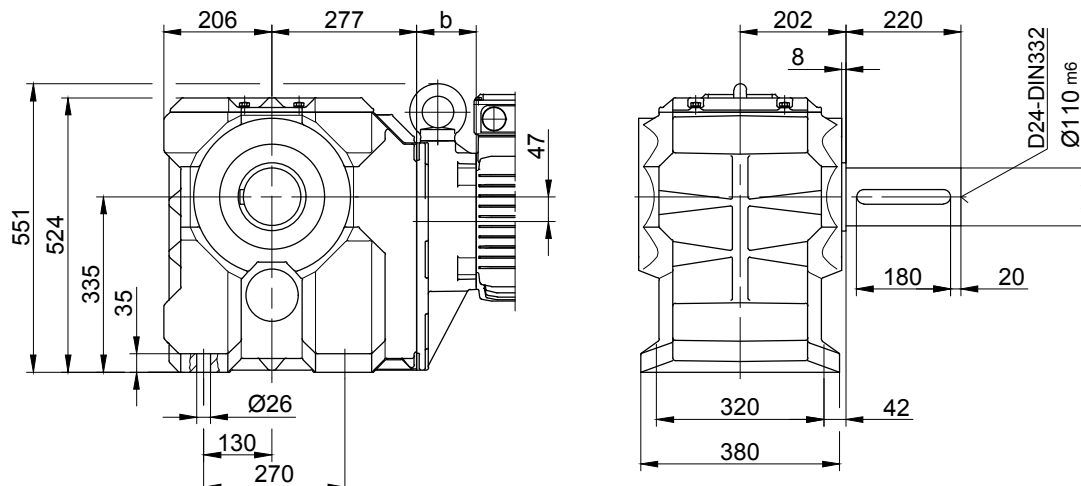
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

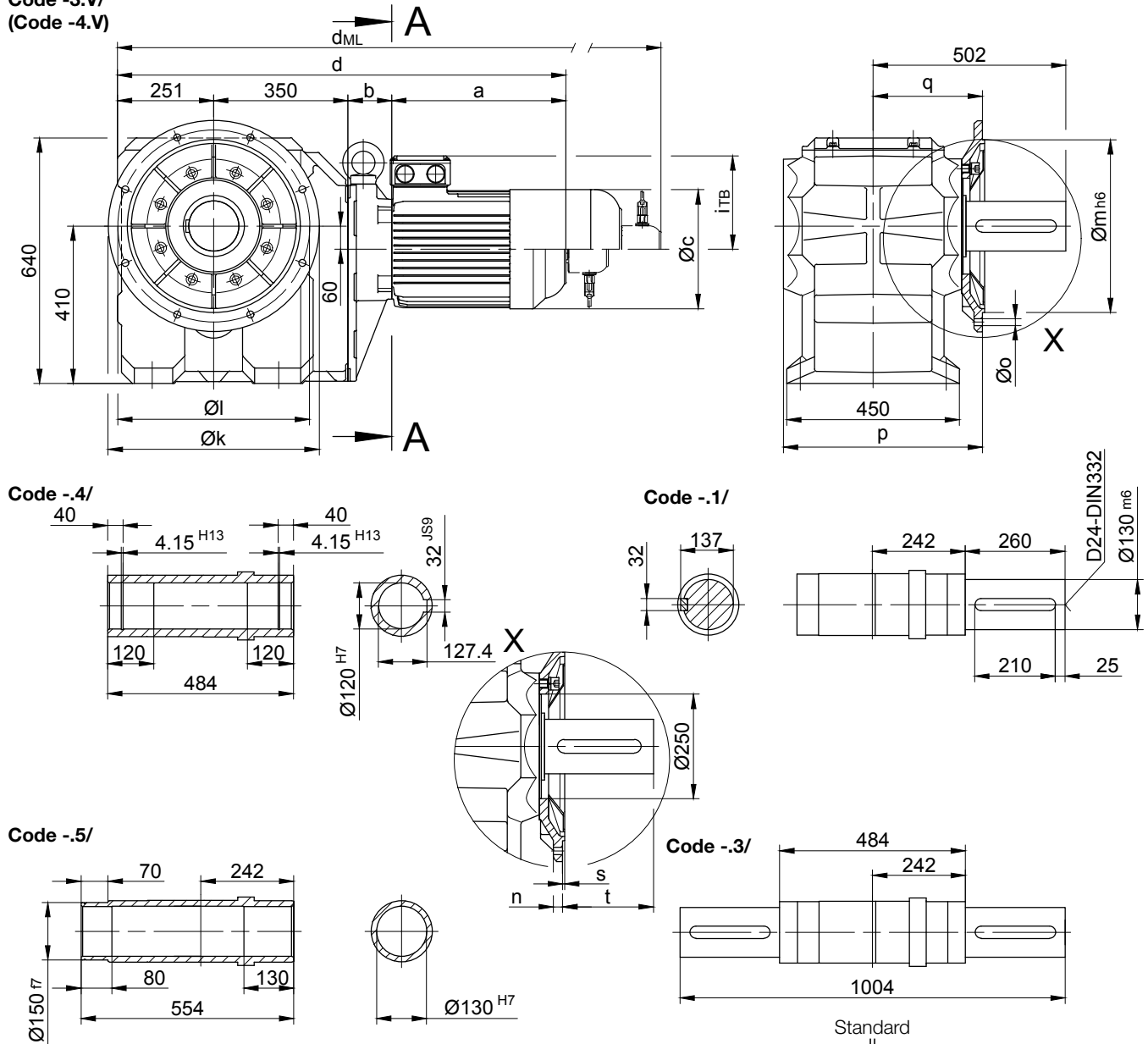
BK-series bevel-geared motors

Dimension - Standard Metric

BK90 - BK90Z

Flange with clearance holes at front

Code -3.V/
(Code -4.V)



Type	Design	k	l	m	n	o	p	q	s	t	z
BK90..	Code -3.V/	550	500	450	22	17.5	519	285	5	218	-
BK90..	Code -4.V/	660	600	550	25	22	513	279	6	225	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						Brake	Encoder	Brake with Encoder	Back Stop	
						d_{ML}	d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK90Z-../D..09.A.	250.5	267	176	1118.5	124	1211.5	1226	1315.5	1211.5	1211.5
BK90Z-../D..09.B.	308.5	267	176	1176.5	124	1269.5	1283.5	1373.5	1269.5	1269.5
BK90Z-../D..11.A.	319	273.5	218	1193.5	165	1291.5	1301	1393.5	1291.5	1291.5
BK90Z-../D..11.B.	387	273.5	218	1261.5	165	1357.5	1369	1461.5	1357.5	1357.5
BK90-../D..13.A.	393	100	258	1094	217	1205	1201	1306	1202	1202
BK90Z-../D..13.A.	393	286.5	258	1280.5	217	1391.5	1387.5	1492.5	1388.5	1388.5
BK90-../D..16.B.	454.5	114	310	1169.5	243	1313	1276.5	1416.5	1313	1313
BK90Z-../D..16.B.	454.5	300.5	310	1356	243	1499.5	1463	1603	1499.5	1499.5
BK90-../D..18.B.	542	136	348	1279	288	1428.5	1384.5	1532	1428.5	1428.5
BK90Z-../D..18.B.	542	322.5	348	1465.5	288	1615	1571	1718.5	1615	1615
BK90-../D..20.A.	703.5	153	363	1457.5	302	1585	1563	1690.5	1457.5	1457.5
BK90-../D..22.A.	703.5	153	363	1457.5	302	1585	1563	1690.5	1457.5	1457.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

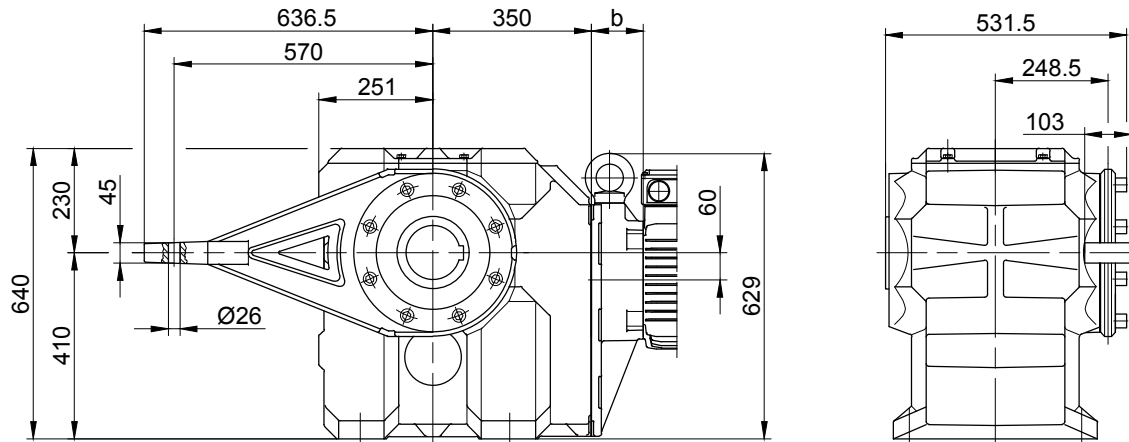
BK-series bevel-gear motors

Dimension - Standard Metric

BK90 - BK90Z

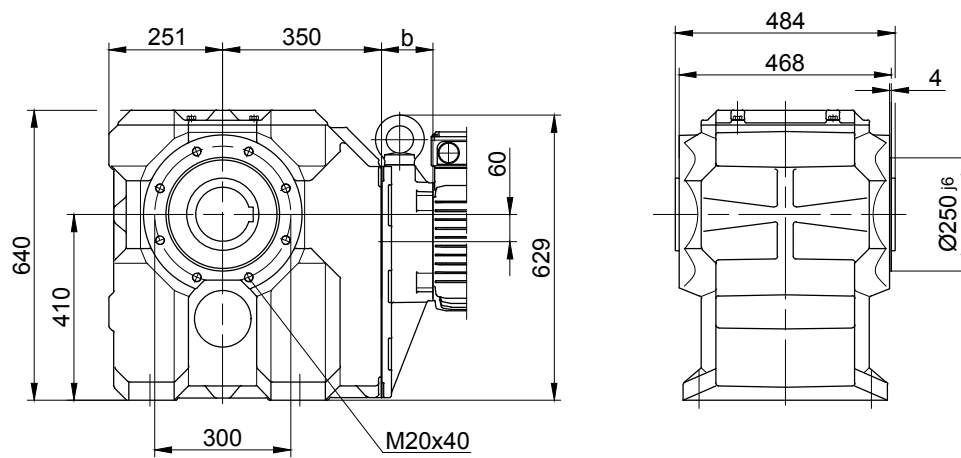
Torque arm at front

Code -5.V/



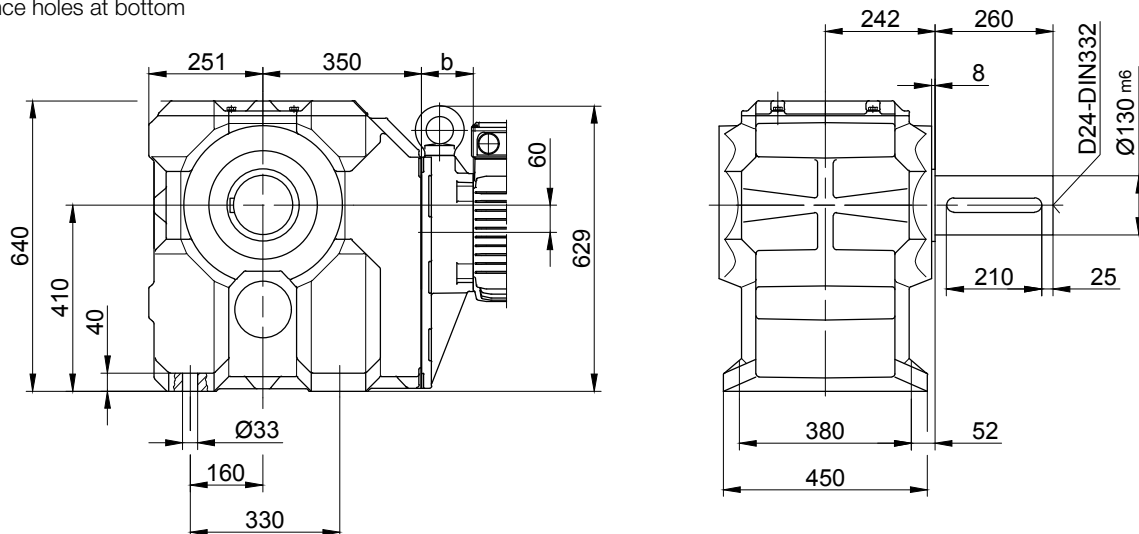
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

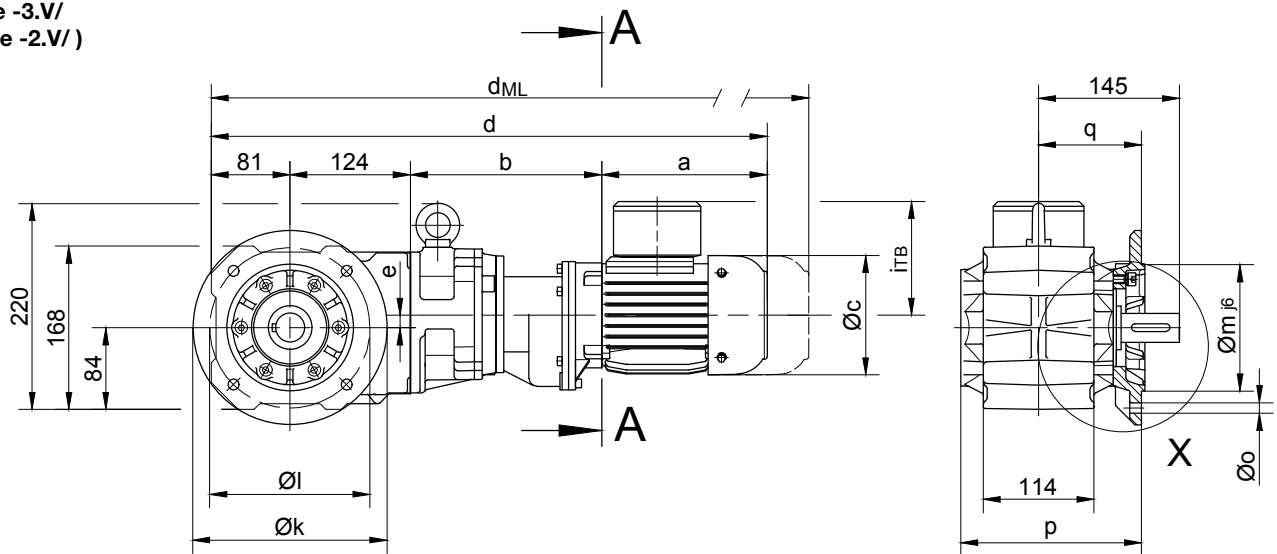
Dimension - Tandem Gearbox Metric

BK10G06

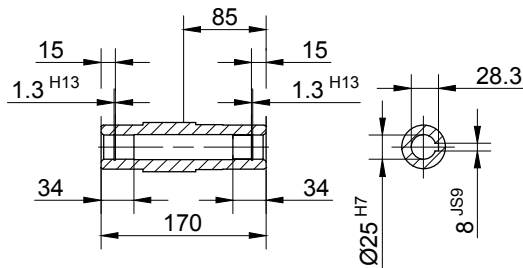
Flange with clearance holes at front

Code -3.V/

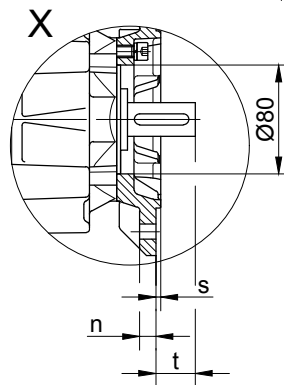
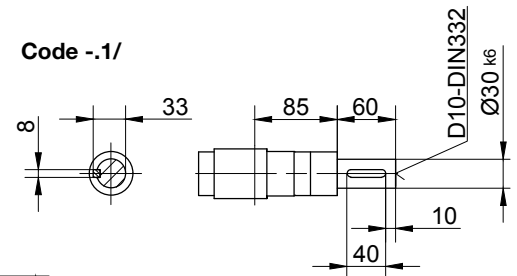
(Code -2.V/)



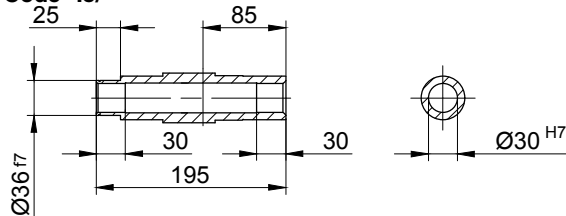
Code -4/



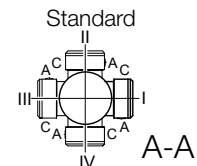
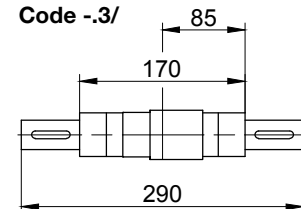
Code -1/



Code -5/



Code -3/



Flange Dimensions												
Type	Design	k	l	m	n	o	p	q	s	t	z	
BK10..	Code -3.V/	200	165	130	12	11	186.5	106	3.5	39	-	
BK10..	Code -2.V/	160	130	110	10	9	179.5	99	3.5	46	-	

Dimensions in millimeters (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK10G06-.../D04.A.	142.5	193	110.5	540.5	90	112	584	628	671.5	-
BK10G06-.../D..05.A.	170.5	195	123	570.5	101	117	612.5	673	710.5	-
BK10G06-.../D..06.A.	170.5	195	123	570.5	99	119	612.5	673	710.5	-
BK10G06-.../D..07.A.	190.5	195	123	590.5	99	119	632.5	693	730.5	-
BK10G06-.../D..08.A.	199.5	239	156	643.5	114.5	136.5	709.5	755.5	817	709.5
BK10G06-.../D..08.B.	229.5	239	156	673.5	114.5	136.5	739.5	785.5	846.5	739.5

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

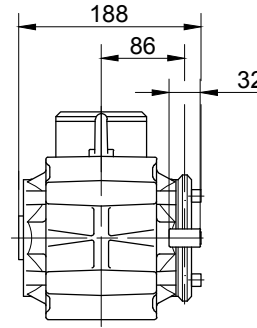
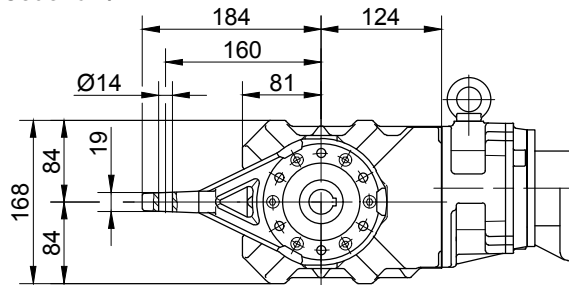
BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

BK10G06

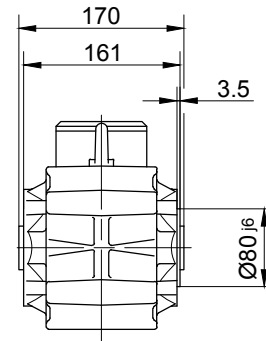
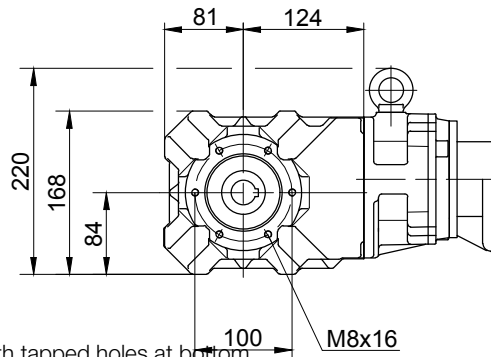
Torque arm at front

Code -5.V/



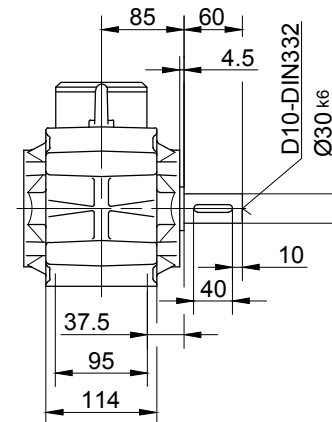
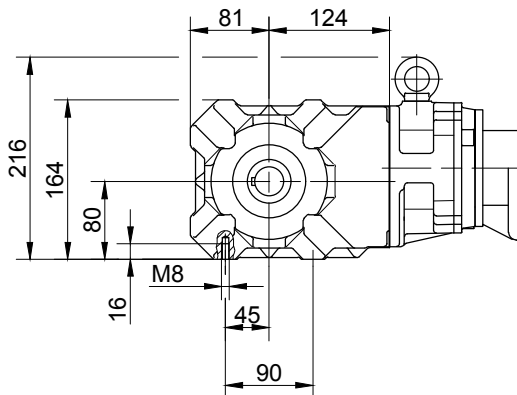
Flange with tapped holes at front

Code -7.V/



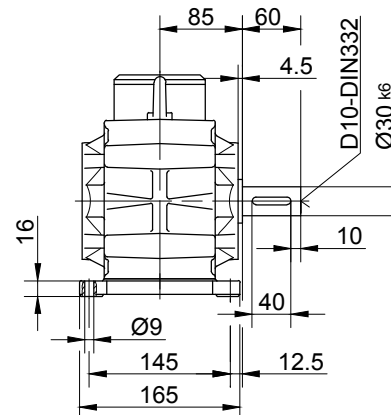
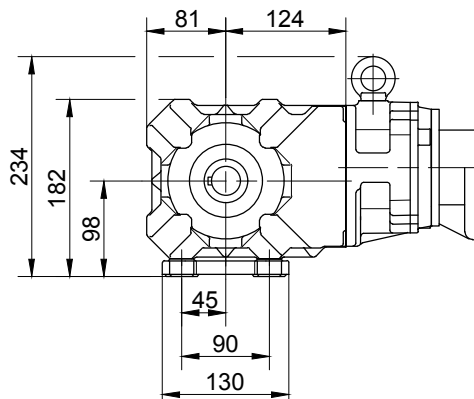
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

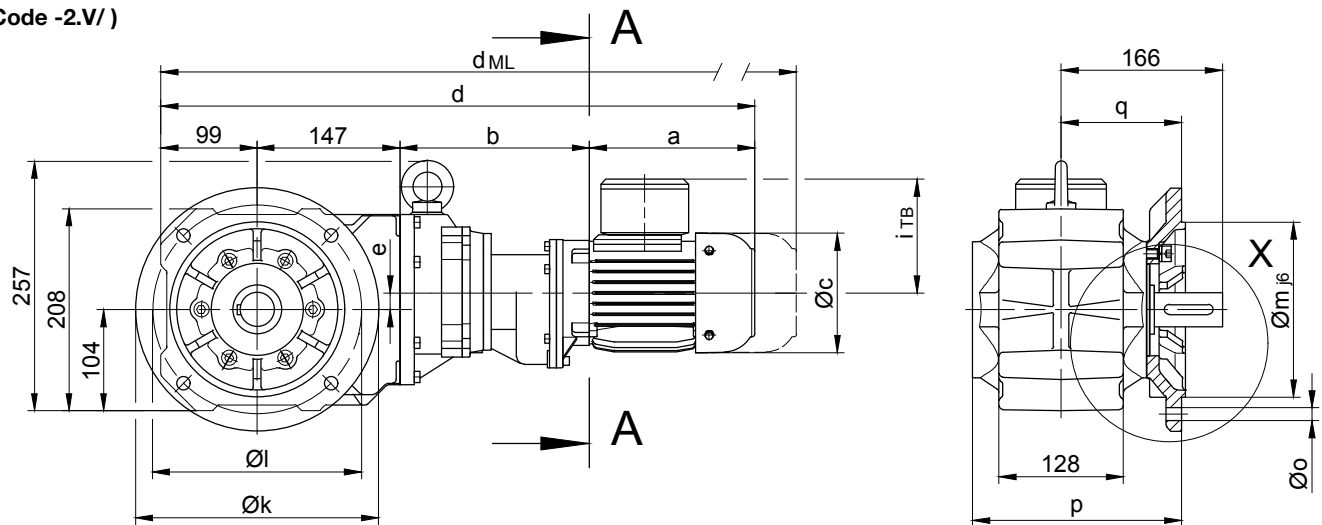
Dimension - Tandem Gearbox Metric

BK20G06

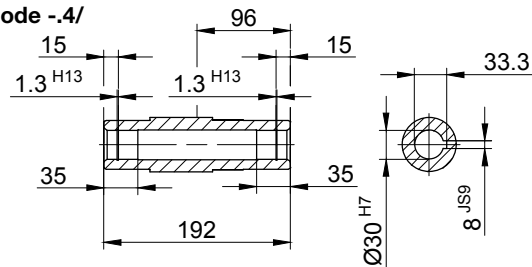
Flange with clearance holes at front

Code -3.V/

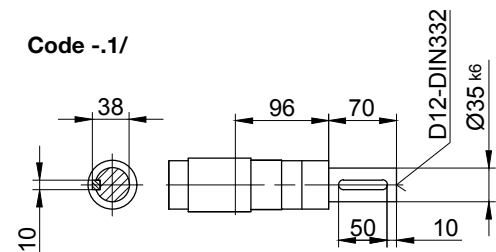
(Code -2.V/)



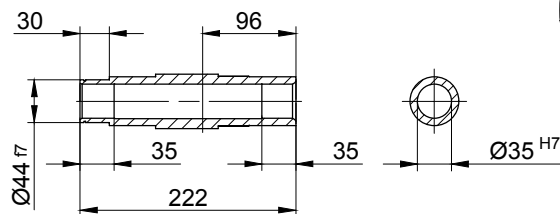
Code -4/



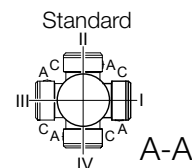
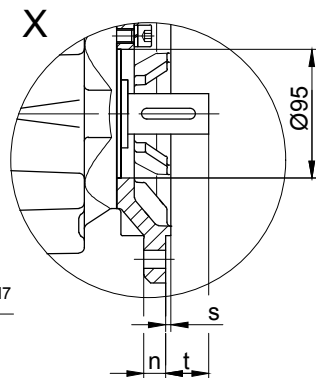
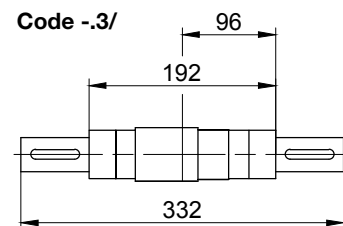
Code -1/



Code -5/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK20..	Code -3.V/	250	215	180	16	13.5	215.5	124	4	42.5	-
BK20..	Code -2.V/	200	165	130	12	11	206.5	115	3.5	51	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BK20G06-.../D04.A.	142.5	193	110.5	581.5	90	112	625	669	712.5	-
BK20G06-.../D..05.A.	170.5	195	123	611.5	101	117	653.5	714	751.5	-
BK20G06-.../D..06.A.	170.5	195	123	611.5	99	119	653.5	714	751.5	-
BK20G06-.../D..07.A.	190.5	195	123	631.5	99	119	673.5	734	771.5	-
BK20G06-.../D..08.A.	199.5	239	156	684.5	114.5	136.5	750.5	796.5	858	750.5
BK20G06-.../D..08.B.	229.5	239	156	714.5	114.5	136.5	780.5	826.5	887.5	780.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

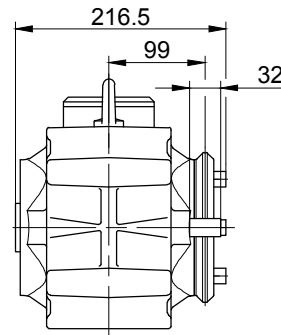
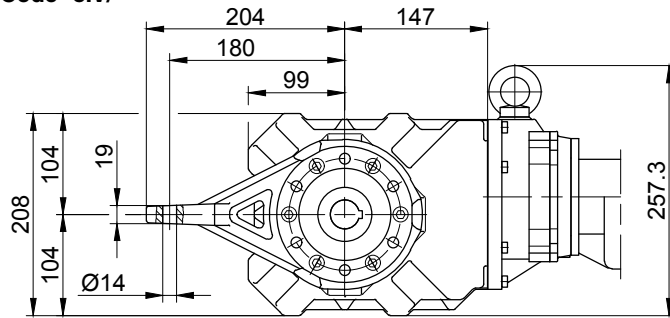
BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

BK20G06

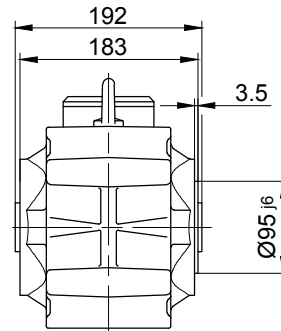
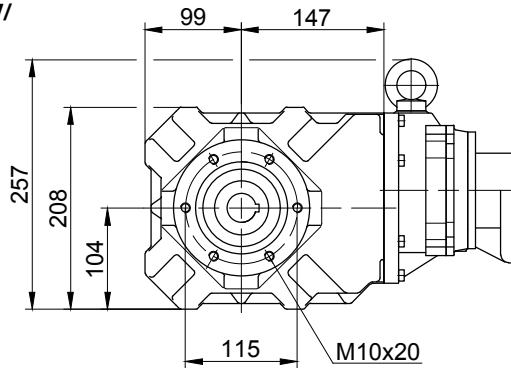
Torque arm at front

Code -5.V/



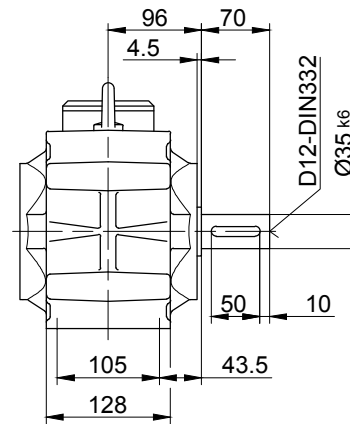
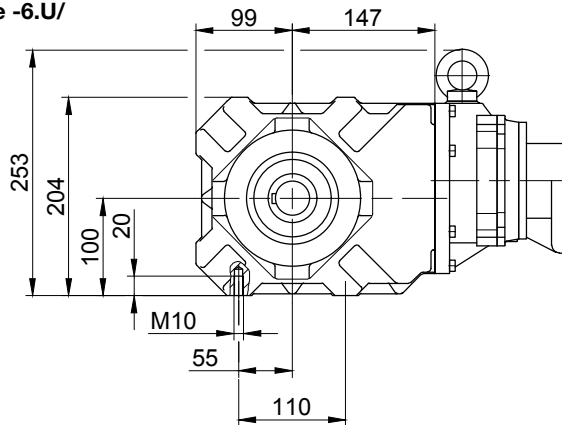
Flange with tapped holes at front

Code -7.V/



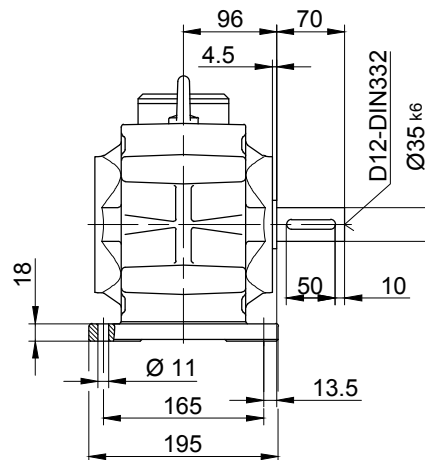
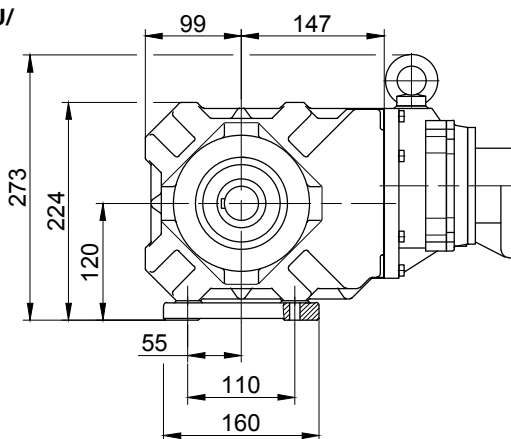
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

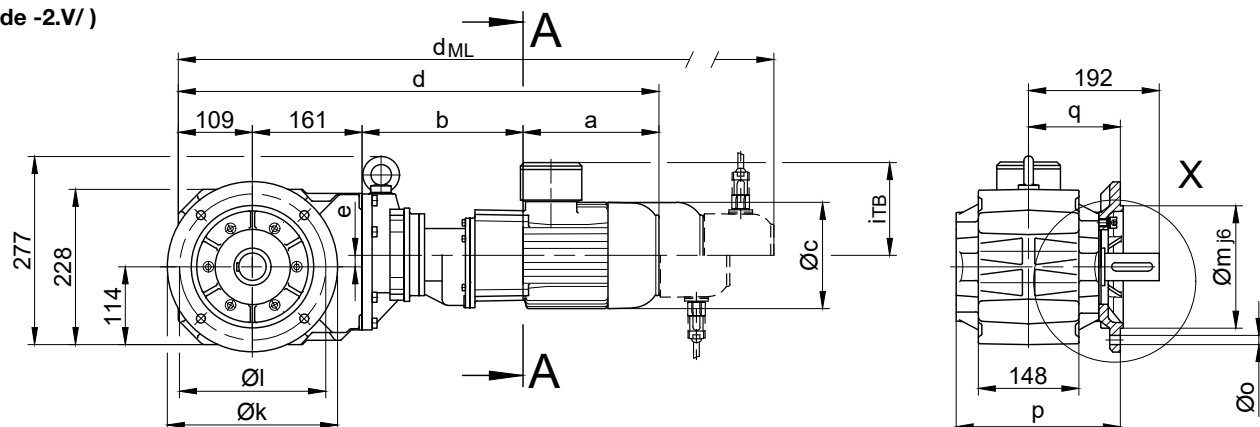
Dimension - Tandem Gearbox Metric

BK30G06

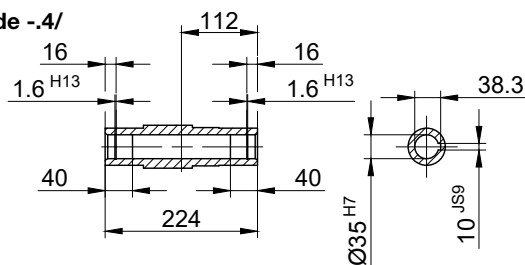
Flange with clearance holes at front

Code -3.V/

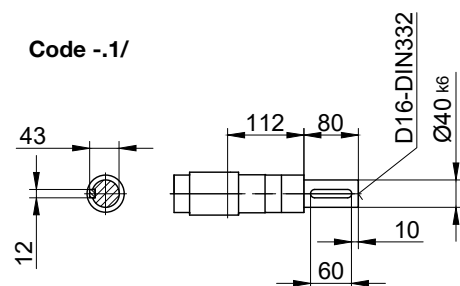
(Code -2.V/)



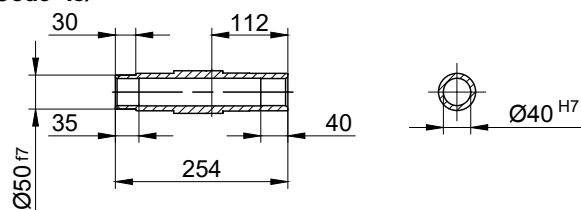
Code -.4/



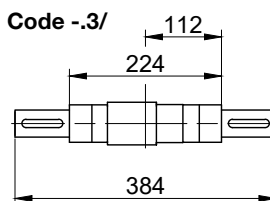
Code -.1/



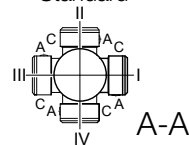
Code -.5/



Code -.3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK30..	Code -3.V/	250	215	180	16	13.5	242	135	4	57	-
BK30..	Code -2.V/	200	165	130	12	11	239	132	3.5	59.5	-

Dimensions in millimeters (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BK30G06-.../D04.A.	142.5	191	110.5	603.5	90	112	647	691	734.5	-
BK30G06-.../D..05.A.	170.5	193	123	633.5	101	117	675.5	736	773.5	-
BK30G06-.../D..06.A.	170.5	193	123	633.5	99	119	675.5	736	773.5	-
BK30G06-.../D..07.A.	190.5	193	123	653.5	99	119	695.5	756	793.5	-
BK30G06-.../D..08.A.	199.5	237	156	706.5	114.5	136.5	772.5	818.5	880	772.5
BK30G06-.../D..08.B.	229.5	237	156	736.5	114.5	136.5	802.5	848.5	909.5	802.5

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

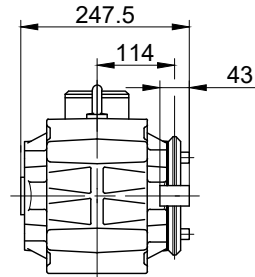
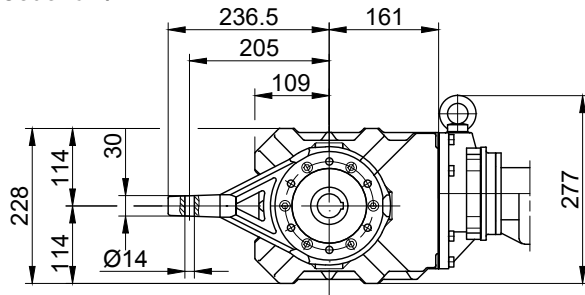
BK-series bevel-gearbed motors

Dimension - Tandem Gearbox Metric

BK30G06

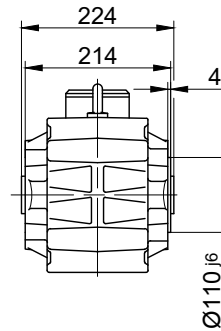
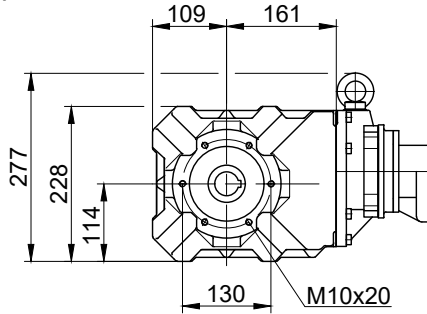
Torque arm at front

Code -5.V/



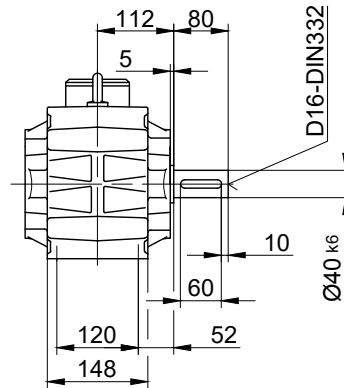
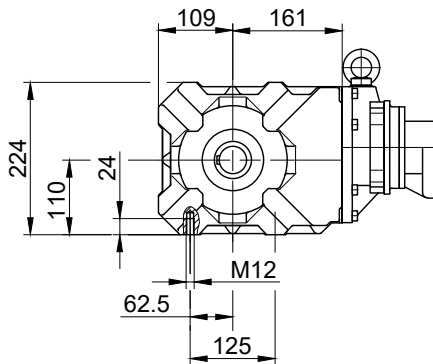
Flange with tapped holes at front

Code -7.V/



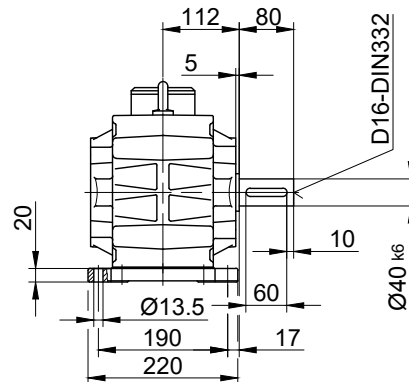
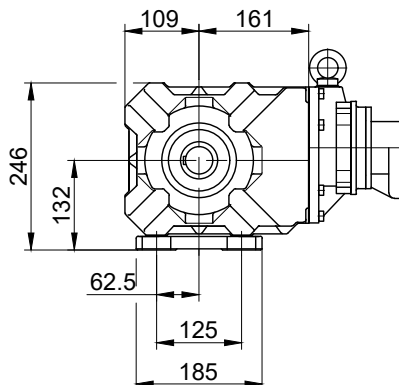
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

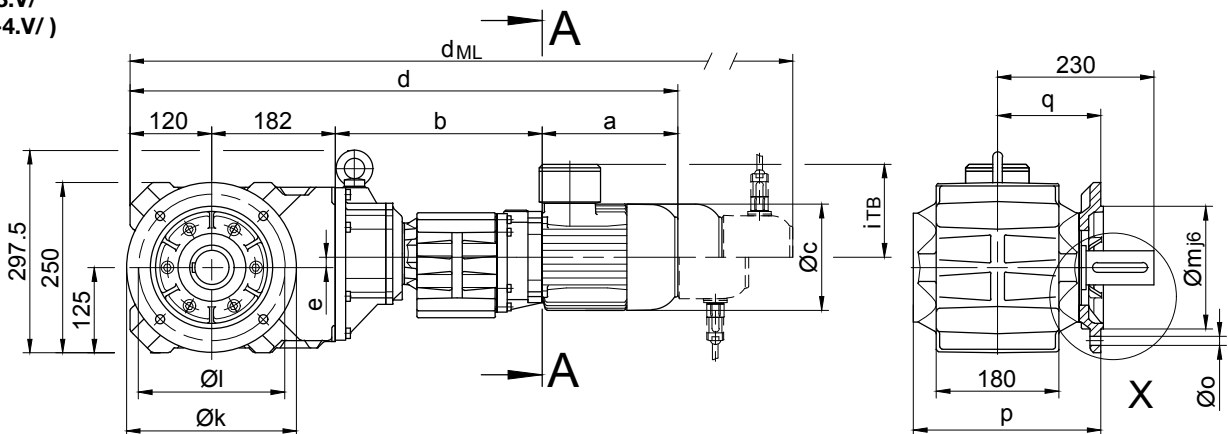
Dimension - Tandem Gearbox Metric

BK40G10

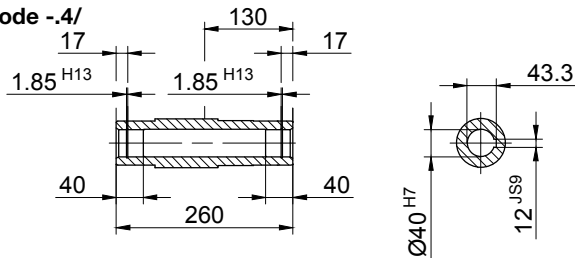
Flange with clearance holes at front

Code -3.V/

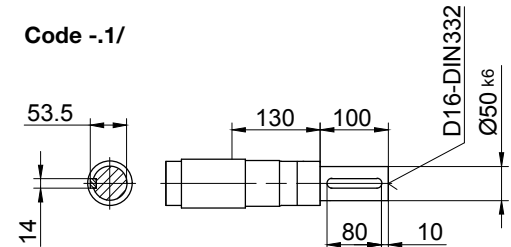
(Code -4.V/)



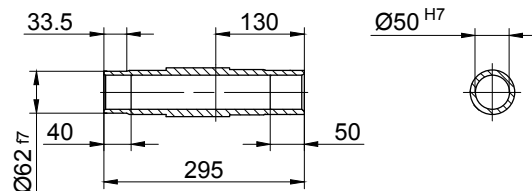
Code -4./



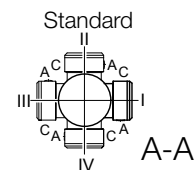
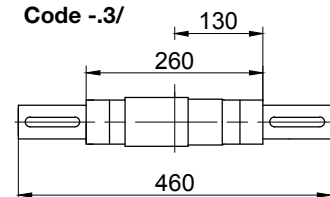
Code -1./



Code -5./



Code -3./



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK40..	Code -3.V/	250	215	180	16	13.5	276	152	4	78	-
BK40..	Code -4.V/	300	265	230	20	13.5	282	158	4	72	-

Dimensions in millimeters (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK40G10-.../D..05.A.	170.5	300	123	772.5	101	117	814.5	875	912.5	-
BK40G10-.../D..06.A.	170.5	300	123	772.5	99	119	814.5	875	912.5	-
BK40G10-.../D..07.A.	190.5	300	123	792.5	99	119	834.5	895	932.5	-
BK40G10-.../D..08.A.	199.5	304	156	805.5	114.5	136.5	871.5	917.5	979	871.5
BK40G10-.../D..08.B.	229.5	304	156	835.5	114.5	136.5	901.5	947.5	1008.5	901.5
BK40G10-.../D..09.A.	250.5	318.5	176	871	124	157	964	978.5	1068	964
BK40G10-.../D..09.B.	308.5	318.5	176	929	124	157	1022	1036	1126	1022

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

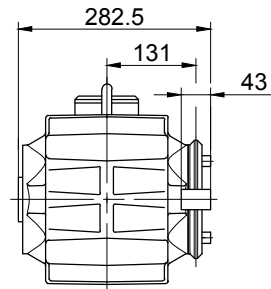
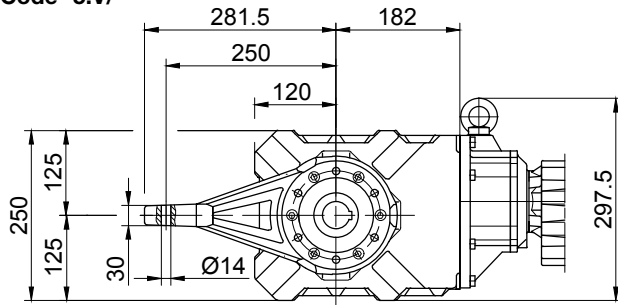
BK-series bevel-gear motors

Dimension - Tandem Gearbox Metric

BK40G10

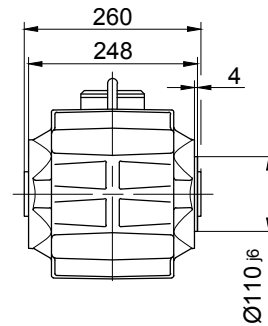
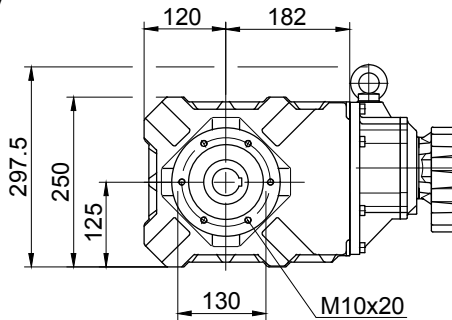
Torque arm at front

Code -5.V/



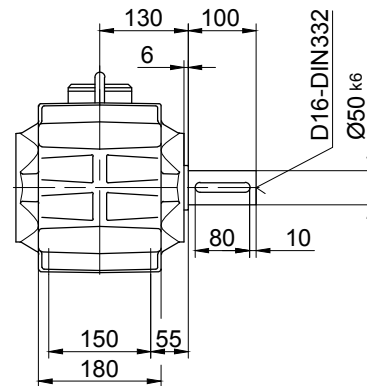
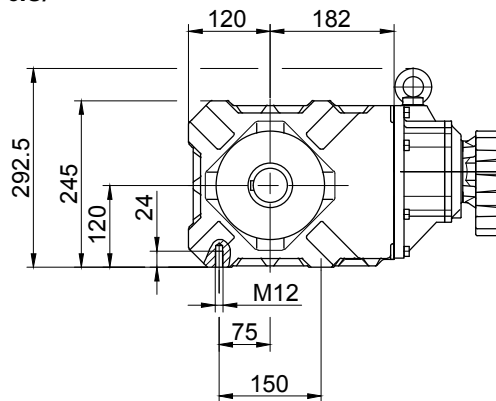
Flange with tapped holes at front

Code -7.V/



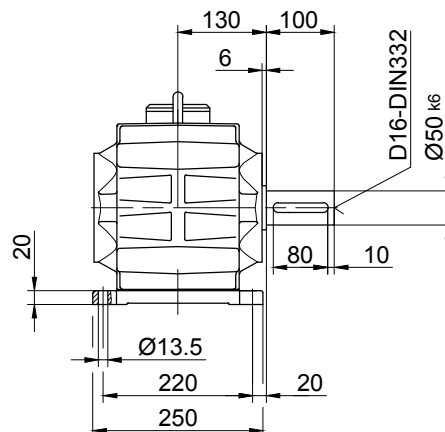
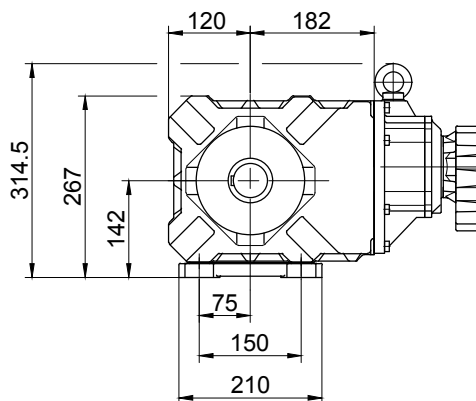
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

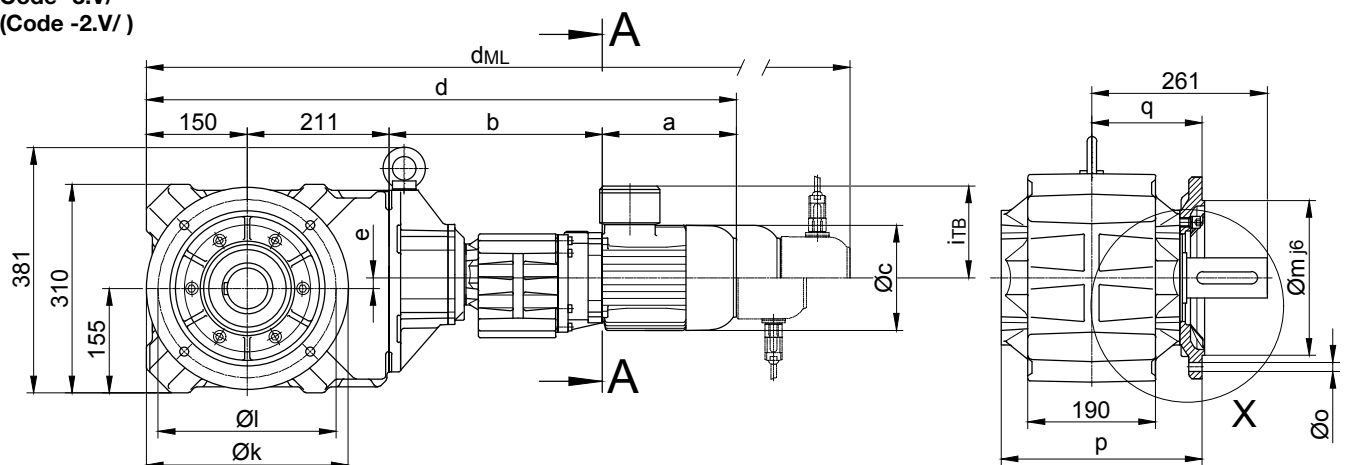
Dimension - Tandem Gearbox Metric

BK50G10

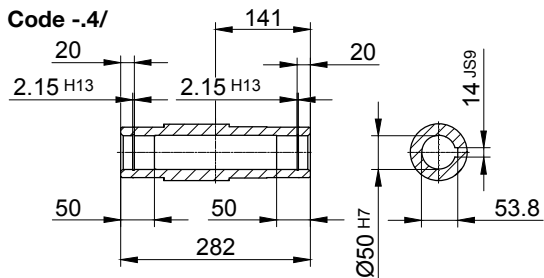
Flange with clearance holes at front

Code -3.V/

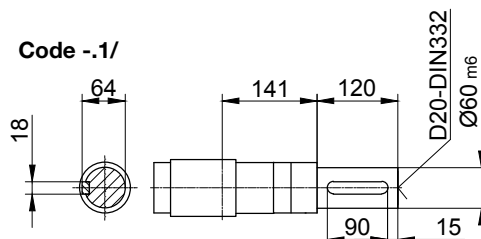
(Code -2.V/)



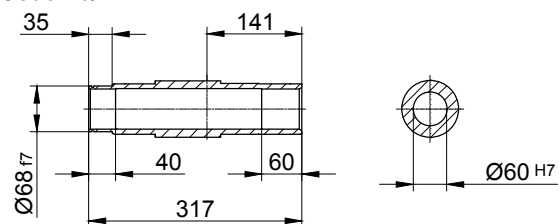
Code -4/



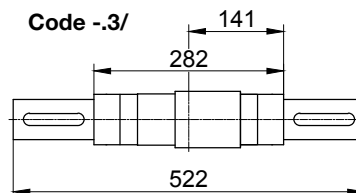
Code -1/



Code -5/



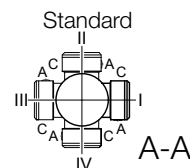
Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BK50..	Code -3.V/	300	265	230	20	13.5	299	164	4	97	-
BK50..	Code -2.V/	250	215	180	16	13.5	296	161	4	100	-

Dimensions in millimeters (mm)



Type	a	b	c	d	i	iTB	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
BK50G10-.../D...05.A.	170.5	313	123	844.5	101	117	886.5	947	984.5	-
BK50G10-.../D...06.A.	170.5	313	123	844.5	99	119	886.5	947	984.5	-
BK50G10-.../D...07.A.	190.5	313	123	864.5	99	119	906.5	967	1004.5	-
BK50G10-.../D...08.A.	199.5	317	156	877.5	114.5	136.5	943.5	989.5	1051	943.5
BK50G10-.../D...08.B.	229.5	317	156	907.5	114.5	136.5	973.5	1019.5	1080.5	973.5
BK50G10-.../D...09.A.	250.5	331.5	176	943	124	157	1036	1050.5	1140	1036
BK50G10-.../D...09.B.	308.5	331.5	176	1001	124	157	1094	1108	1198	1094

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

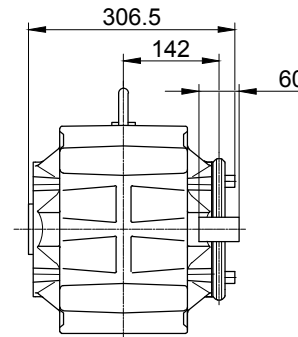
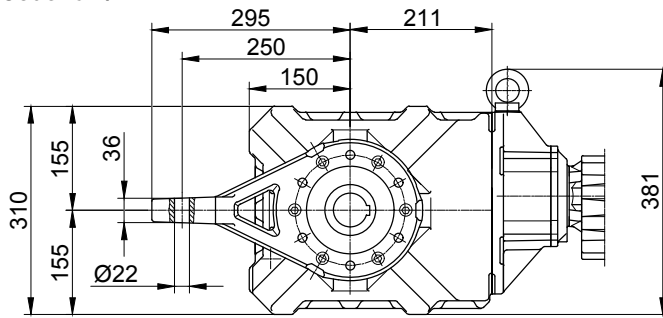
BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

BK50G10

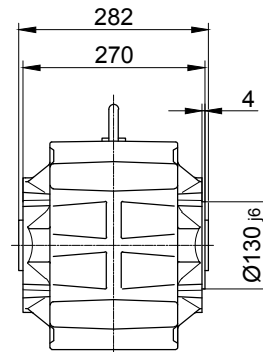
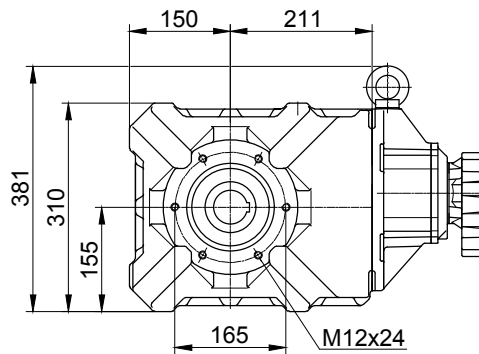
Torque arm at front

Code -5.V/



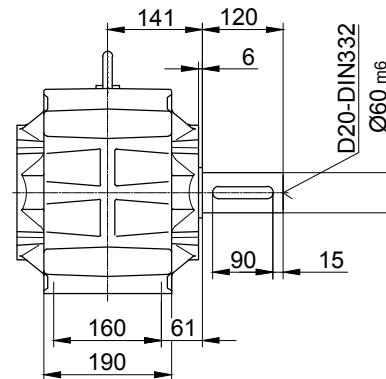
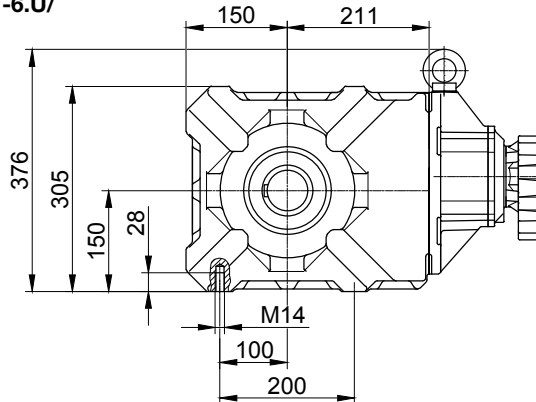
Flange with tapped holes at front

Code -7.V/



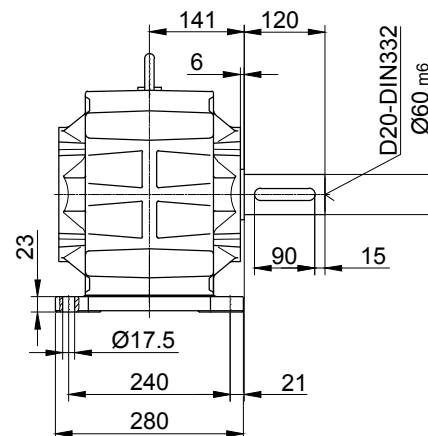
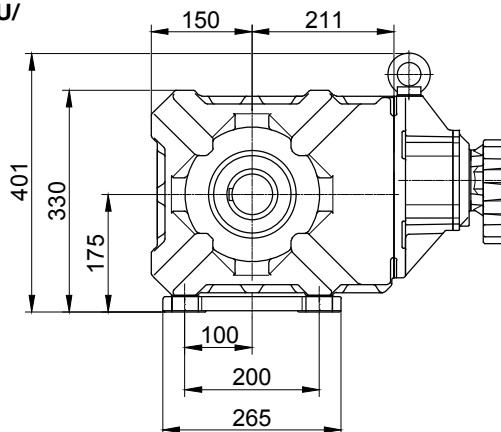
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

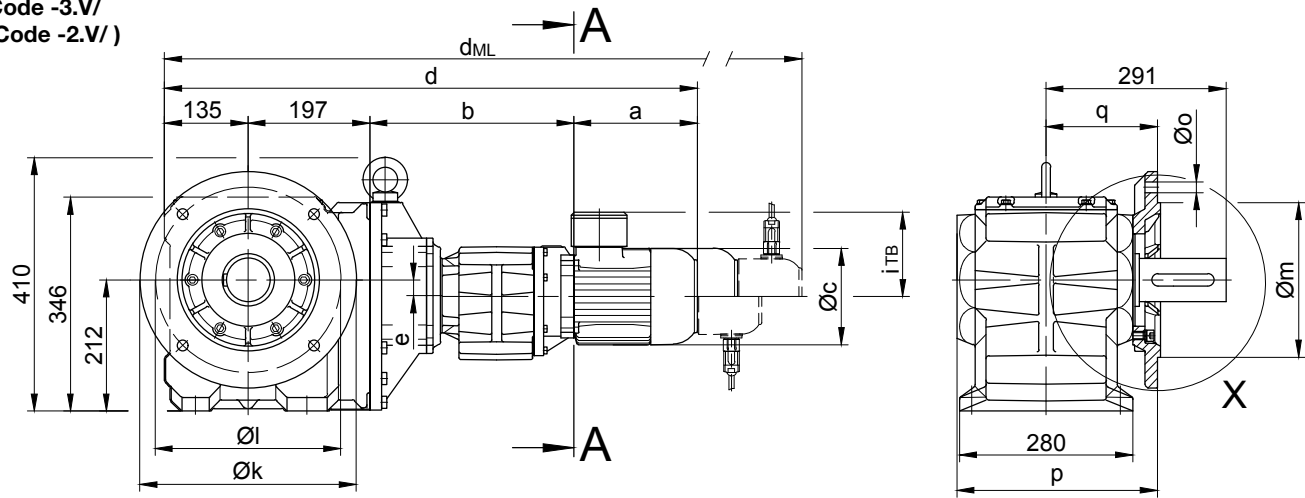
BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

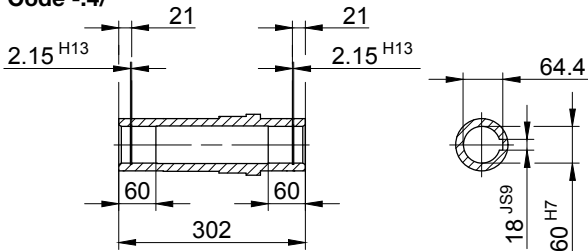
BK60G20

Flange with clearance holes at front

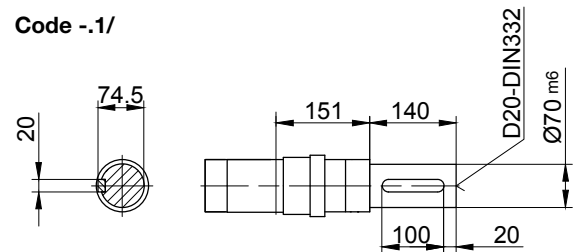
Code -3.V/
(Code -2.V/)



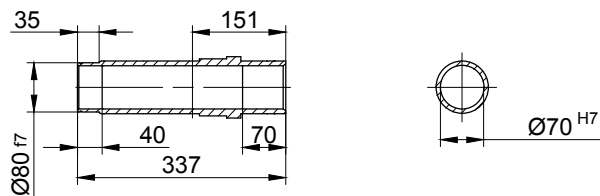
Code -.4/



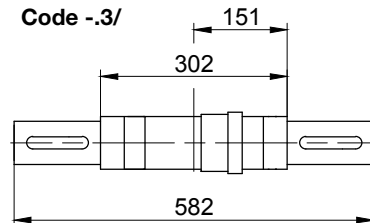
Code -.1/



Code -.5/

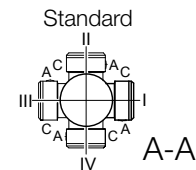


Code -.3/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK60..	Code -3.V/	350	300	250	20	17.5	324	180	5	112	-
BK60..	Code -2.V/	300	265	230	20	13.5	332	188	4	103	-

Dimensions in millimeters (mm)



Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK60G20-.../D...05.A.	170.5	326	123	828.5	101	117	870.5	931	968.5	-
BK60G20-.../D...06.A.	170.5	326	123	828.5	99	119	870.5	931	968.5	-
BK60G20-.../D...07.A.	190.5	326	123	848.5	99	119	890.5	951	988.5	-
BK60G20-.../D...08.A.	199.5	330	156	861.5	114.5	136.5	927.5	973.5	1035	927.5
BK60G20-.../D...08.B.	229.5	330	156	891.5	114.5	136.5	957.5	1003.5	1064.5	957.5
BK60G20-.../D...09.A.	250.5	344.5	176	927	124	157	1020	1034.5	1124	1020
BK60G20-.../D...09.B.	308.5	344.5	176	985	124	157	1078	1092	1182	1078

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

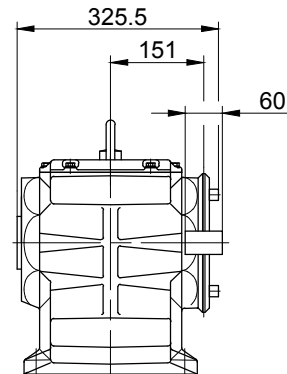
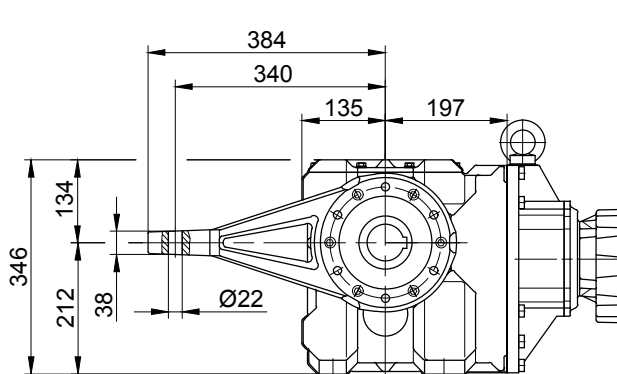
BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

BK60G20

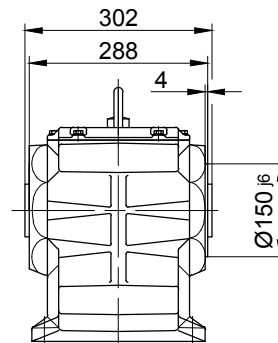
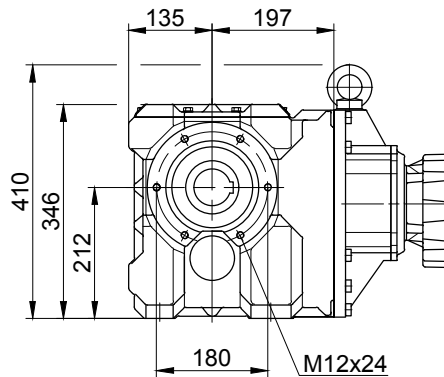
Torque arm at front

Code -5.V/



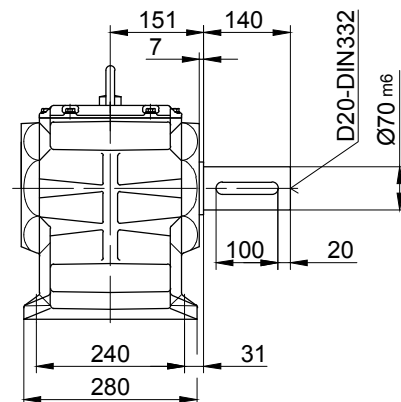
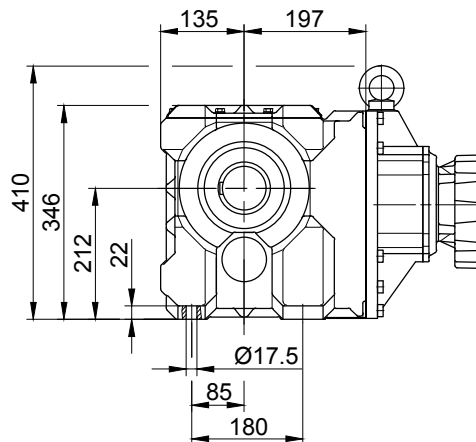
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

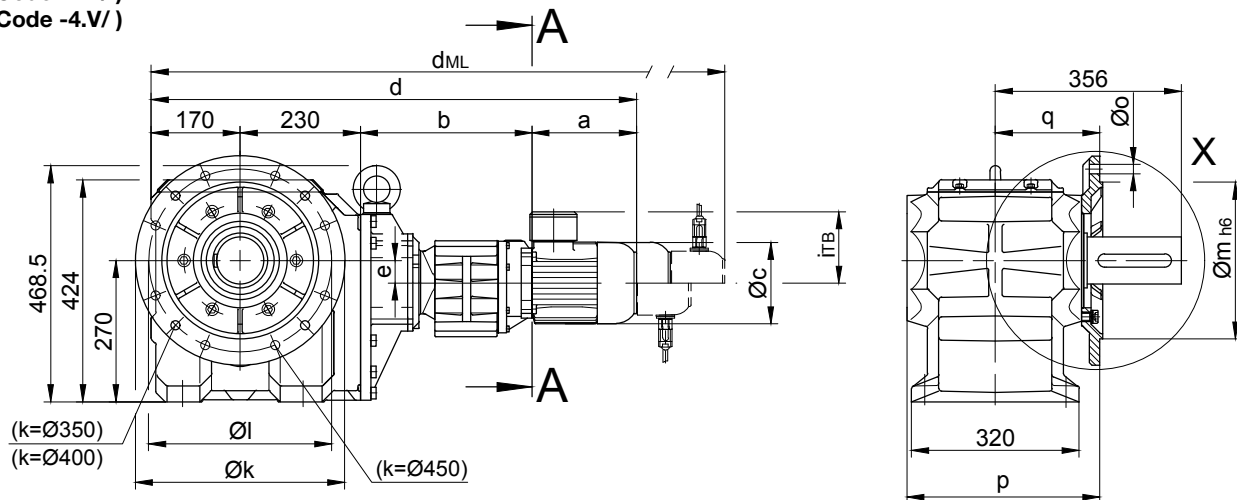
BK70G20

Flange with clearance holes at front

Code -3.V/

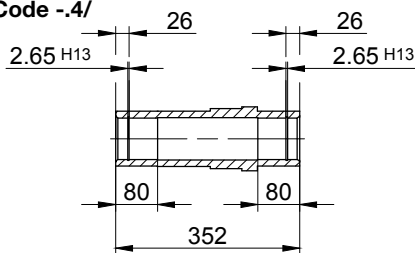
(Code -2.V/)

(Code -4.V/)

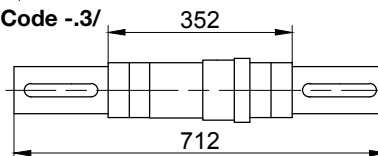


Code -1/

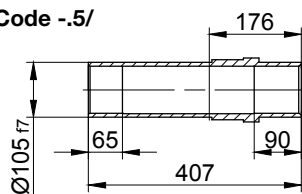
Code -4/



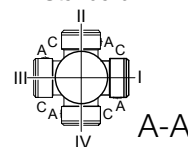
Code -3/



Code -5/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK70..	Code -3.V/	400	350	300	20	17.5	369	200	5	157	-
BK70..	Code -2.V/	350	300	250	20	17.5	369	200	5	157	-
BK70..	Code -4.V/	450	400	350	22	17.5	379	210	5	147	-

Dimensions in millimeters (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
BK70G20-.../D...05.A.	170.5	326	123	896.5	101	117	938.5	999	1036.5	-
BK70G20-.../D...06.A.	170.5	326	123	896.5	99	119	938.5	999	1036.5	-
BK70G20-.../D...07.A.	190.5	326	123	916.5	99	119	958.5	1019	1056.5	-
BK70G20-.../D...08.A.	199.5	330	156	929.5	114.5	136.5	995.5	1041.5	1103	995.5
BK70G20-.../D...08.B.	229.5	330	156	959.5	114.5	136.5	1025.5	1071.5	1132.5	1025.5
BK70G20-.../D...09.A.	250.5	344.5	176	995	124	157	1088	1102.5	1192	1088
BK70G20-.../D...09.B.	308.5	344.5	176	1053	124	157	1146	1160	1250	1146

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

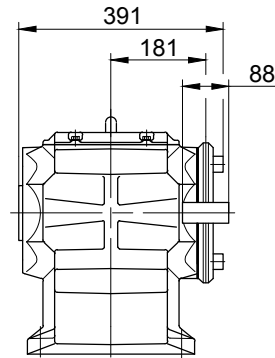
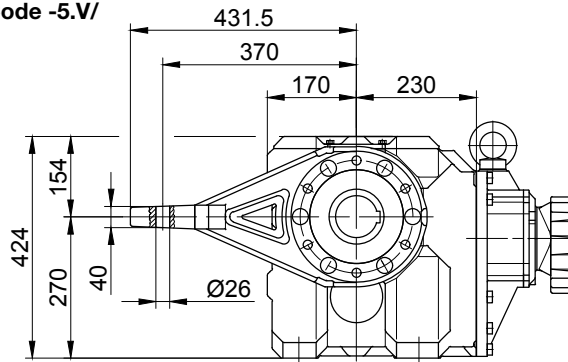
BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

BK70G20

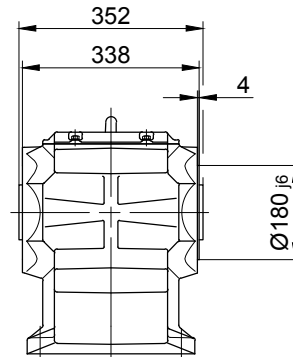
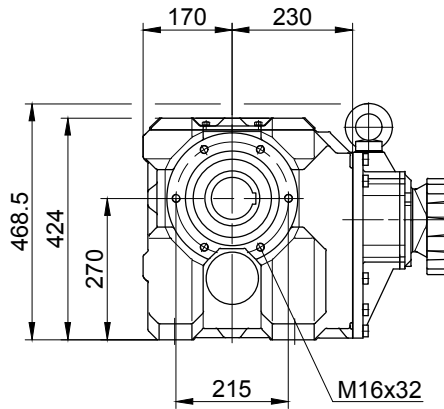
Torque arm at front

Code -5.V/



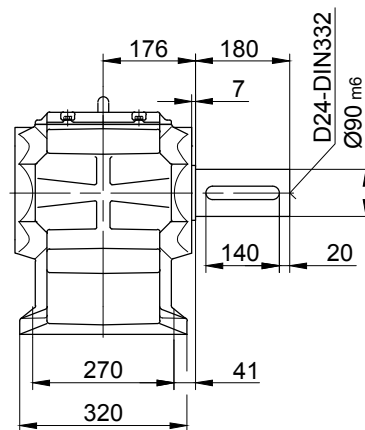
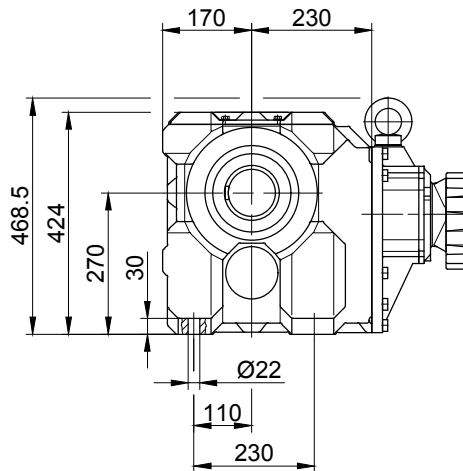
Flange with tapped holes at front

Code -7.V/

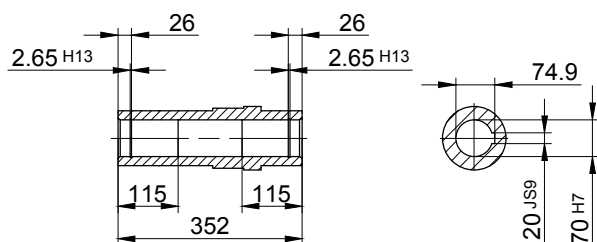


Foot with clearance holes at bottom

Code -1.U/



Code -.4/K70



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

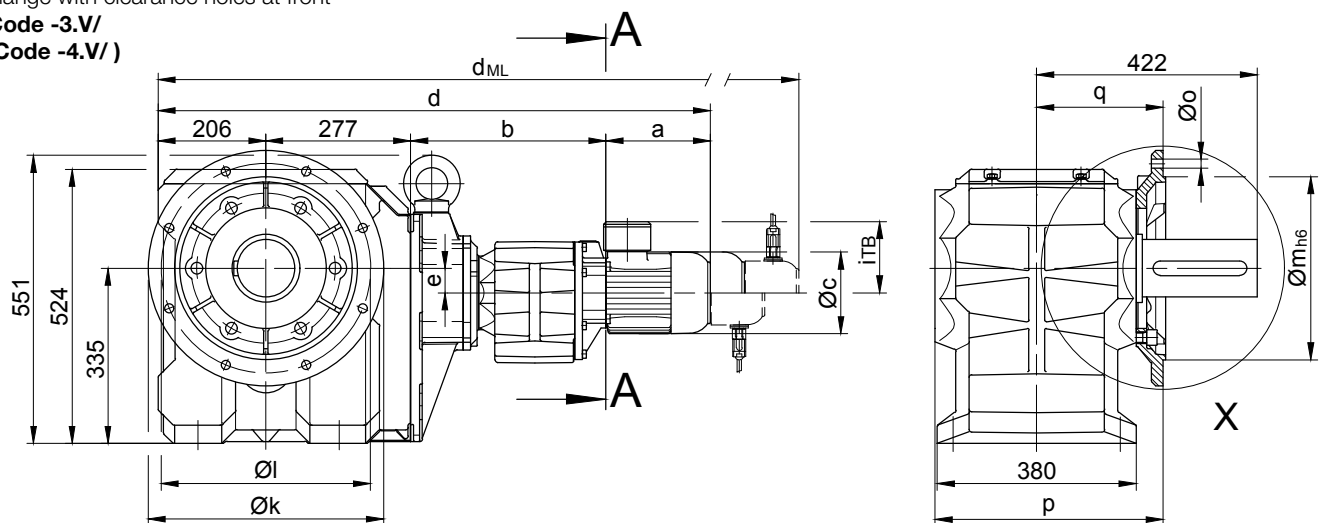
Dimension - Tandem Gearbox Metric

BK80G40

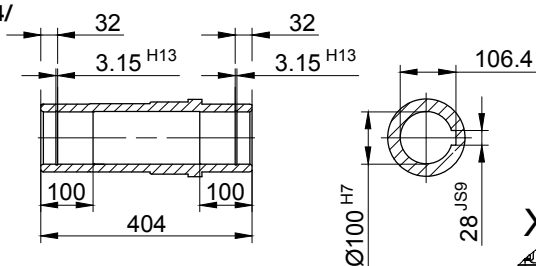
Flange with clearance holes at front

Code -3.V/

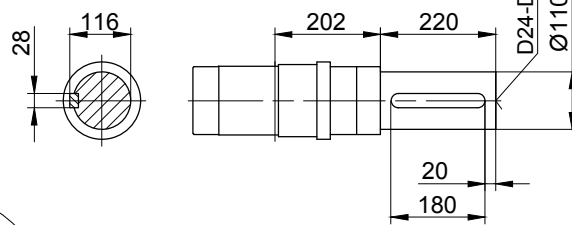
(Code -4.V/)



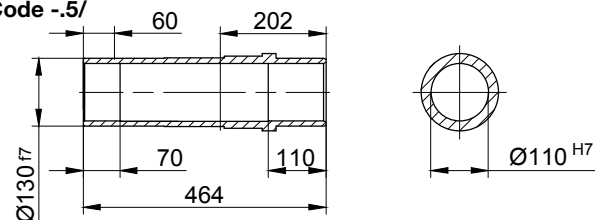
Code -.4/



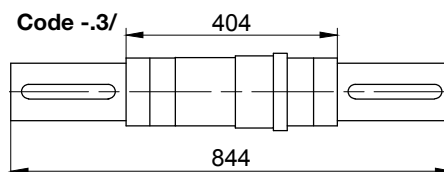
Code -.1/



Code -.5/

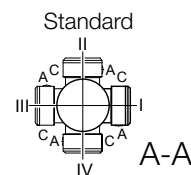


Code -.3/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK80..	Code -3.V/	450	400	350	22	17.5	439	245	5	178	-
BK80..	Code -4.V/	550	500	450	22	17.5	444	250	5	173	-

Dimensions in millimeters (mm)



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK80G40-../D..08.A.	199.5	357	156	1039.5	114.5	136.5	1105.5	1151.5	1213	1105.5
BK80G40-../D..08.B.	229.5	357	156	1069.5	114.5	136.5	1135.5	1181.5	1242.5	1135.5
BK80G40-../D..09.A.	250.5	371.5	176	1105	124	157	1198	1212.5	1302	1198
BK80G40-../D..09.B.	308.5	371.5	176	1163	124	157	1256	1270	1360	1256
BK80G40-../D..11.A.	319	378	218	1180	165	176	1278	1287.5	1380	1278
BK80G40-../D..11.B.	387	378	218	1248	165	176	1344	1355.5	1448	1344

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

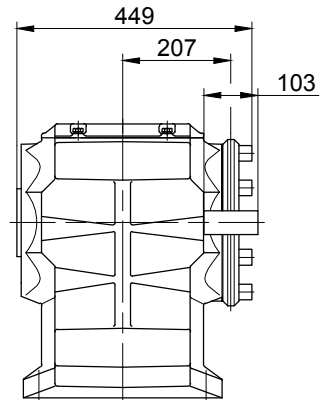
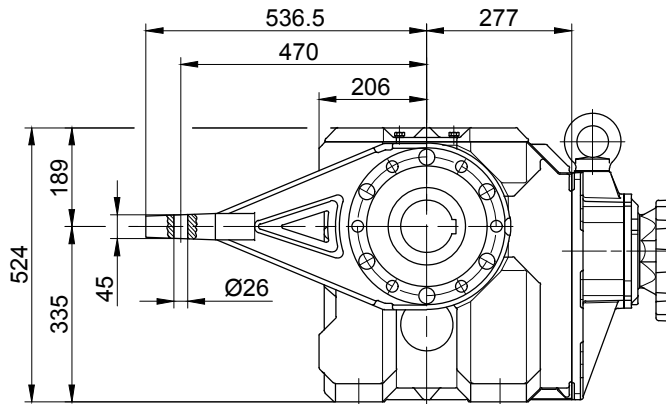
BK-series bevel-gear motors

Dimension - Tandem Gearbox Metric

BK80G40

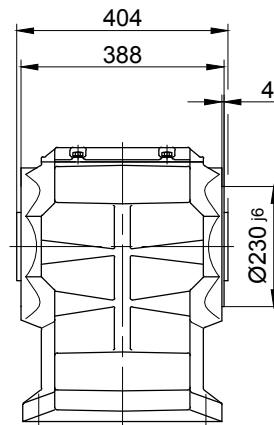
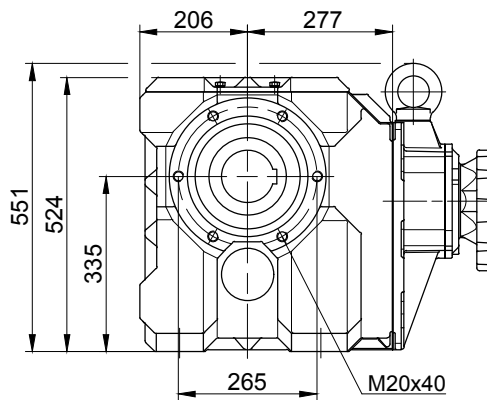
Torque arm at front

Code -5.V/



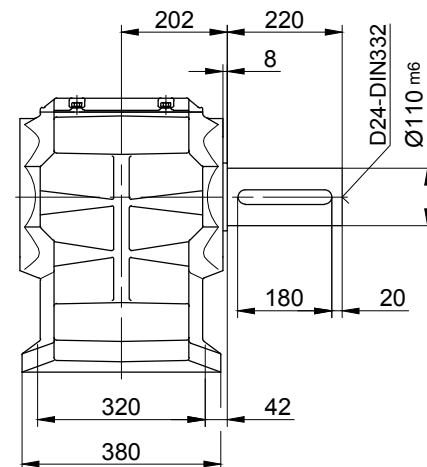
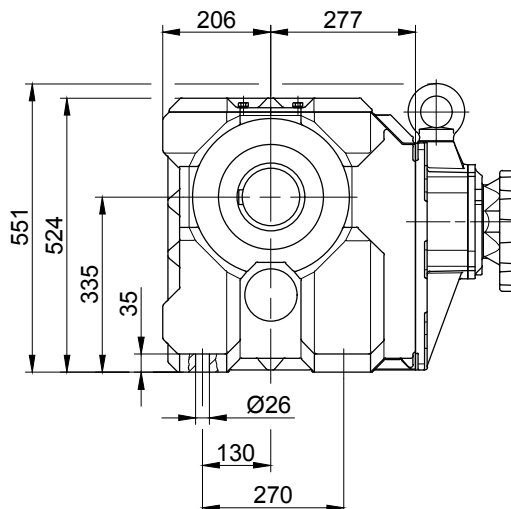
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

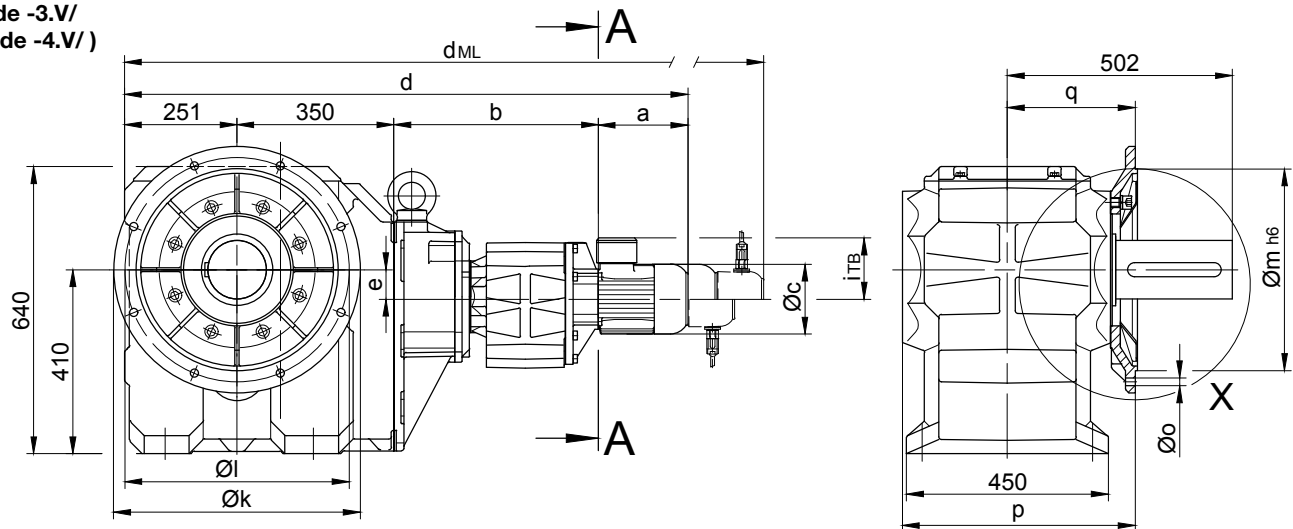
Dimension - Tandem Gearbox Metric

BK90G50

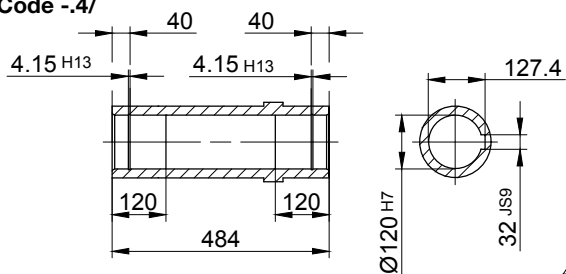
Flange with clearance holes at front

Code -3.V/

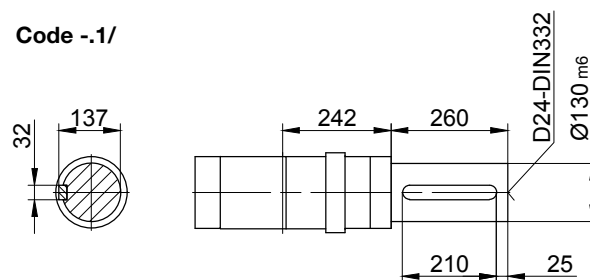
(Code -4.V/)



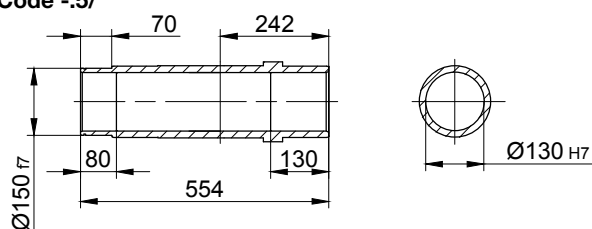
Code -.4/



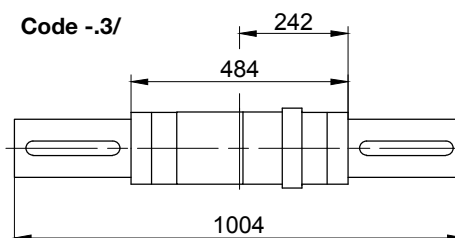
Code -.1/



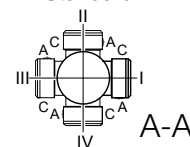
Code -.5/



Code -.3/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BK90..	Code -3.V/	550	500	450	22	17.5	519	285	5	218	-
BK90..	Code -4.V/	660	600	550	25	22	513	279	6	225	-

Dimensions in millimeters (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BK90G50-../D..08.A.	199.5	427	156	1227.5	114.5	136.5	1293.5	1339.5	1401	1293.5
BK90G50-../D..08.B.	229.5	427	156	1257.5	114.5	136.5	1323.5	1369.5	1430.5	1323.5
BK90G50-../D..09.A.	250.5	441.5	176	1293	124	157	1386	1400.5	1490	1386
BK90G50-../D..09.B.	308.5	441.5	176	1351	124	157	1444	1458	1548	1444
BK90G50-../D..11.A.	319	448	218	1368	165	176	1466	1475.5	1568	1466
BK90G50-../D..11.B.	387	448	218	1436	165	176	1532	1543.5	1636	1532
BK90G50-../D..13.A.	393	461	258	1455	217	217	1566	1562	1667	1563
BK90G50-../D..16.B.	454.5	475	310	1530.5	243	243	1674	1637.5	1777.5	1674
BK90G50-../D..18.B.	542	497	348	1640	288	288	1789.5	1745.5	1893	1789.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

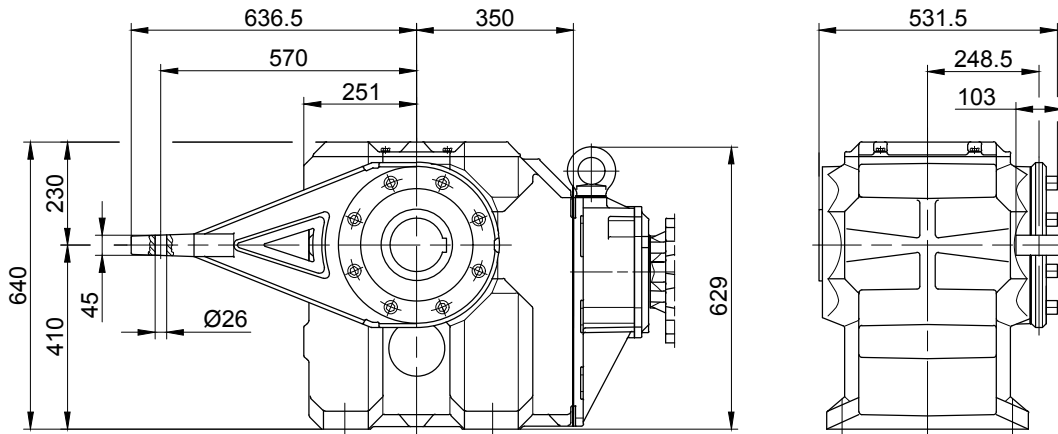
BK-series bevel-geared motors

Dimension - Tandem Gearbox Metric

BK90G50

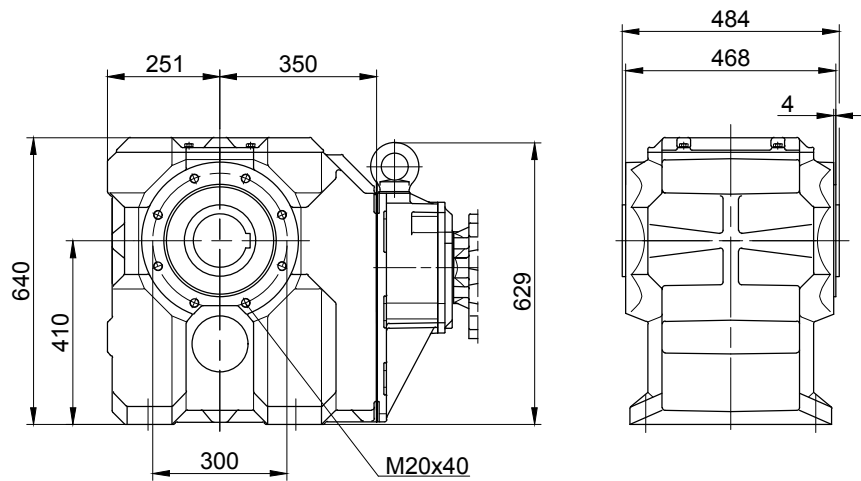
Torque arm at front

Code -5.V/



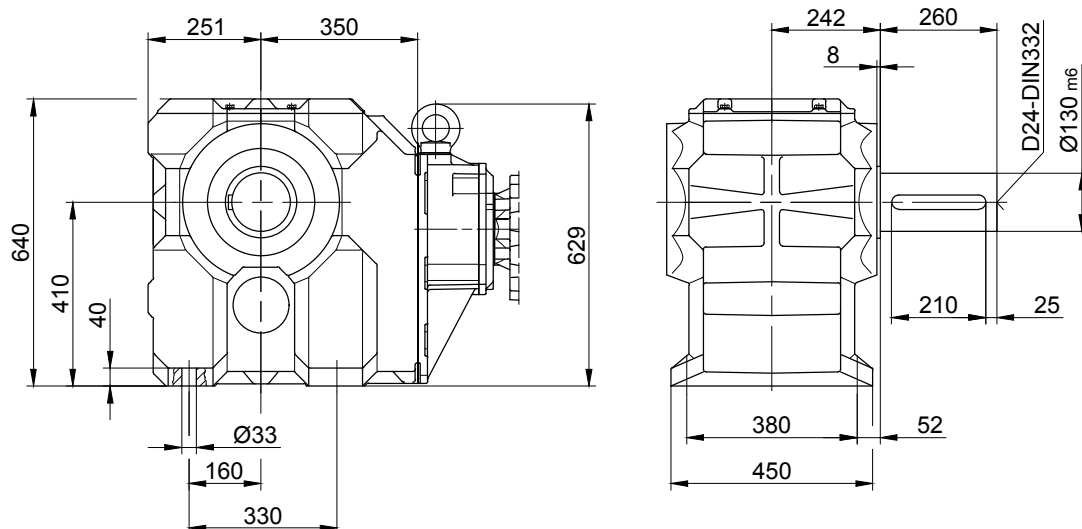
Flange with tapped holes at front

Code -7.V/



Foot with clearance holes at bottom

Code -1.U/

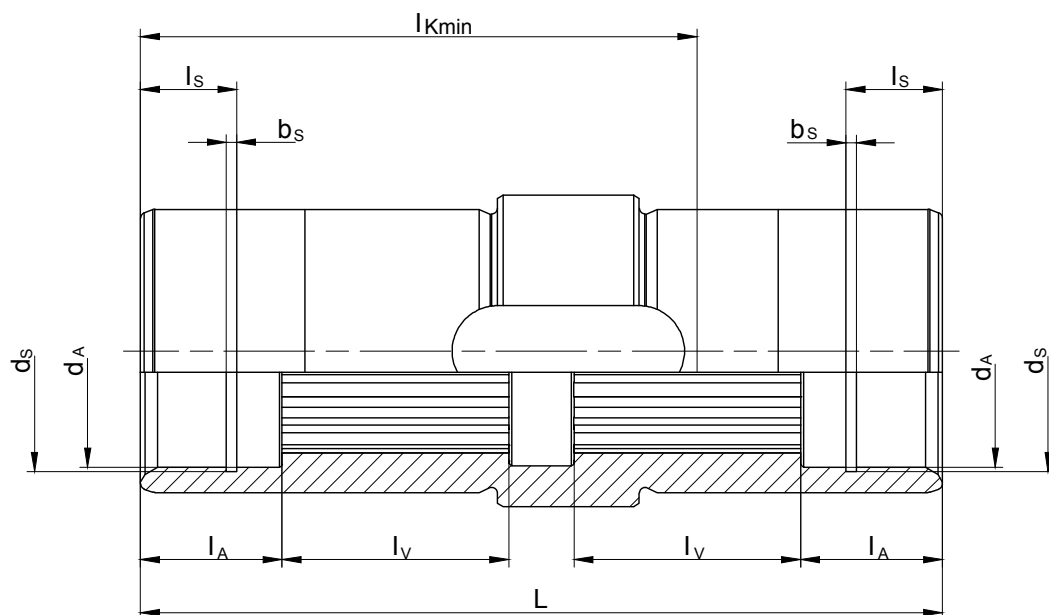


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America

Splined shaft BK



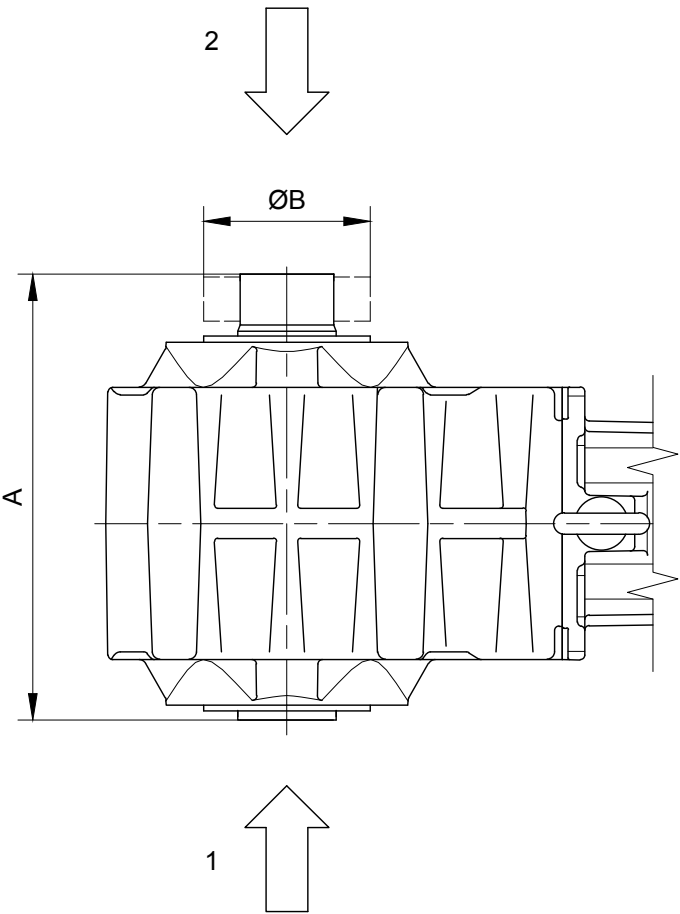
Type	Splined shaft acc. to DIN 5480	d_A	l_A	l_v	l_{Kmin}	L	d_s	l_s	b_s
BK10	N30x1.25x22x9H	35 ^{G7}	28	35	132	170	37 ^{H12}	16	1.6 ^{H13}
BK20	N35x2x16x9H	36 ^{G7}	28	35	154	192	37 ^{H12}	16	1.6 ^{H13}
BK30	N40x2x18x9H	41 ^{G7}	25	42	179	224	42.5 ^{H12}	17	1.85 ^{H13}
BK40	N50x2x24x9H	51 ^{G7}	25	49	214	260	53 ^{H12}	17	2.15 ^{H13}
BK50	N60x2x28x9H	61 ^{G7}	25	58	229	282	63 ^{H12}	17	2.15 ^{H13}
BK60	N70x2x34x9H	72 ^{G7}	25	72	248	302	75 ^{H12}	17	2.65 ^{H13}
BK70	N85x3x27x9H	86 ^{G7}	26	100	295	352	88.5 ^{H12}	17	3.15 ^{H13}
BK80	N110x3x35x9H	112 ^{G7}	60	90	335	404	116 ^{H12}	30	4.15 ^{H13}
BK90	N130x5x24x9H	131.5 ^{G7}	60	110	410	484	134 ^{H12}	30	4.15 ^{H13}
Dimensions in millimetres (mm)									

BK-series bevel-geared motors

Additional Dimension Sheet Metric

Shrink disc coupling (SSV)

(Code BK10-.5/...)
(Code BK10Z-.5/...)



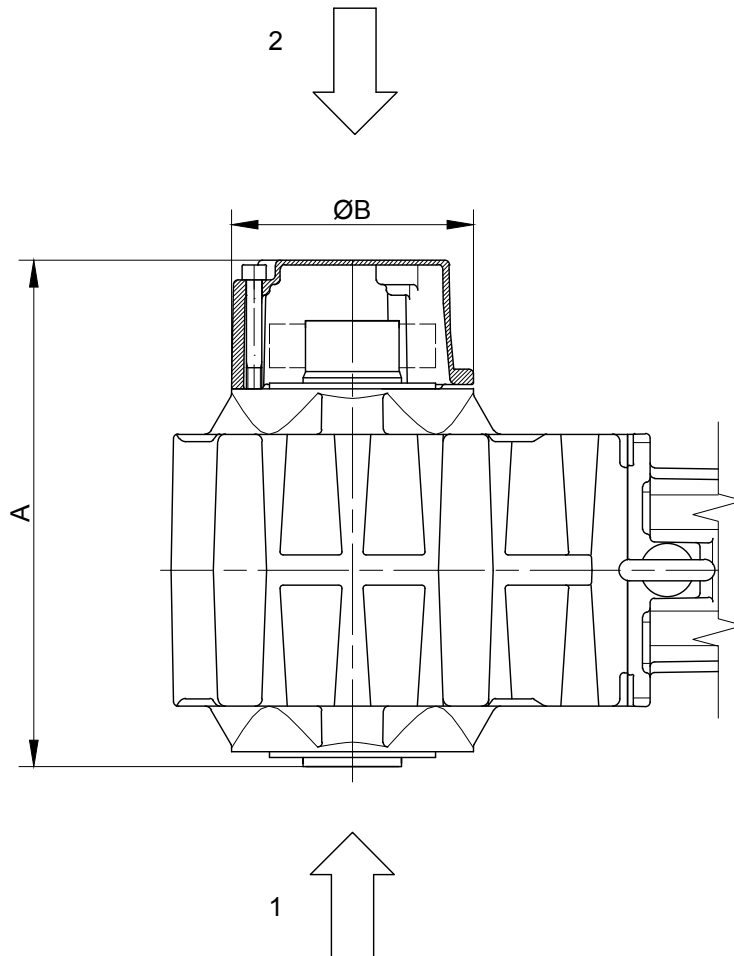
- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BK06	RfN 4161 024x050	HSD 24-22x24	118	50
BK10	RfN 4161 036x072	HSD 36-22x36	195	72
BK20	RfN 4161 044x080	HSD 44-22x44	222	80
BK30	RfN 4161 050x090	HSD 50-22x50	254	90
BK40	RfN 4161 062x110	HSD 62-22x62	295	110
BK50	RfN 4161 068x115	HSD 68-22x68	317	115
BK60	RfN 4161 080x141	HSD 80-22x80	337	140
BK70	RfN 4161 105x185	HSD 110-22x105	407	185
BK80	RfN 4161 130x215	HSD 125-22x130	464	215
BK90	RfN 4161 150x263	HSD 155-22x150	554	263
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc connection with cover (SSV)

(Code BK10-.5A/...)
(Code BK10Z-.5A/...)



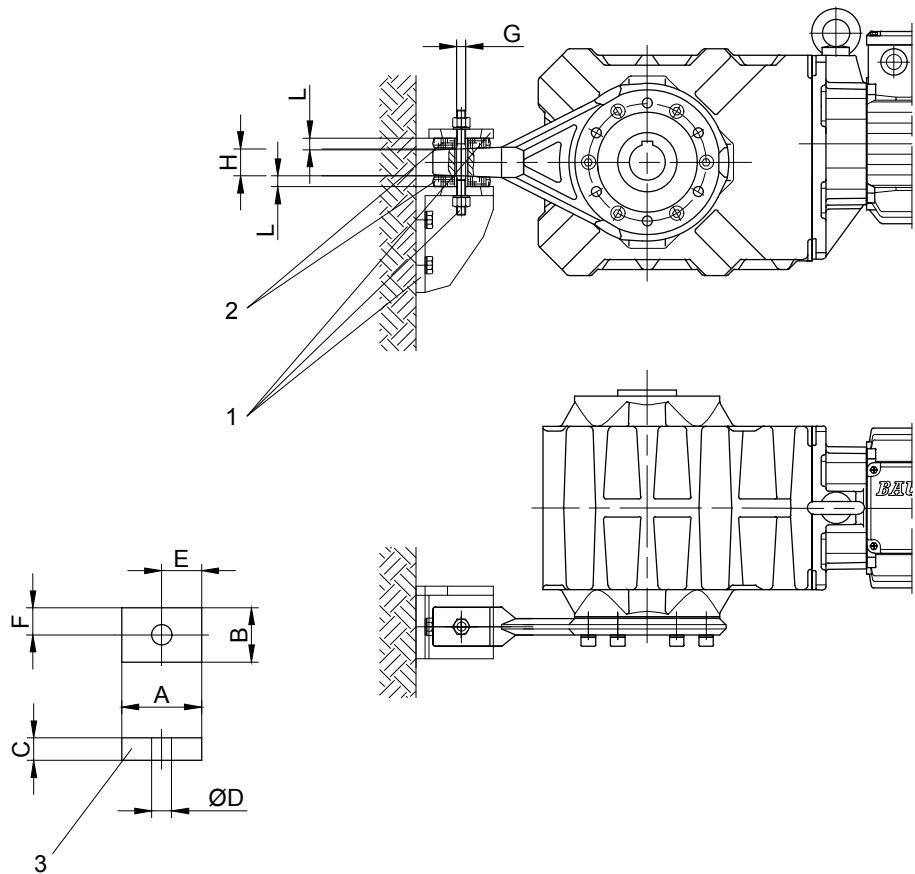
- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BK10	RfN 4161 036x072	HSD 36-22x36	217	120
BK20	RfN 4161 044x080	HSD 44-22x44	270	140
BK30	RfN 4161 050x090	HSD 50-22x50	300	160
BK40	RfN 4161 062x110	HSD 62-22x62	335	160
BK50	RfN 4161 068x115	HSD 68-22x68	329	200
BK60	RfN 4161 080x141	HSD 80-22x80	386	210
BK70	RfN 4161 105x185	HSD110-22x105	465	250
BK80	RfN 4161 130x215	HSD125-22x130	502	300
BK90	RfN 4161 150x263	HSD155-22x150	602	350
Dimensions in millimetres (mm)				

BK-series bevel-gear motors

Additional Dimension Sheet Metric

Rubber buffer for torque arm



1 not included in delivery

2 Rubber buffers pretensioned

3 Rubber buffer

G maximaler Schraubendurchmesser

Material: Natural rubber
Hardness 50 +/-5 Shore A

Dimensions of the transverse hole:
see dimensioned sketch of the respective shaft mounted gearbox

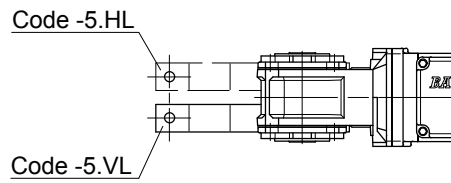
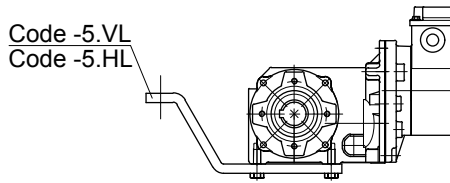
Gear	Position	A	B	C	D	E	F	G	H	L
BK06	Position 0	30	30	12	12	15	15	M10	10	10
BK08	Position 1	48	32	15	14	24	16	M10	19	13.5
BK10	Position 1	48	32	15	14	24	16	M10	19	13.5
BK17	Position 1	48	32	15	14	24	16	M10	19	13
BK20	Position 1	48	32	15	14	24	16	M10	19	13
BK30	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BK40	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BK50	Position 3	88	60	25	22	44	30	M18	36	21.5
BK60	Position 3	88	60	25	22	44	30	M18	38	21
BK70	Position 4	123	88	30	26	61.5	44	M20	40	25.5
BK80	Position 5	133	103	35	26	66.5	51.5	M20	45	30
BK90	Position 5	133	103	35	26	66.5	51.5	M20	45	29.5

Dimensions in millimetres (mm)

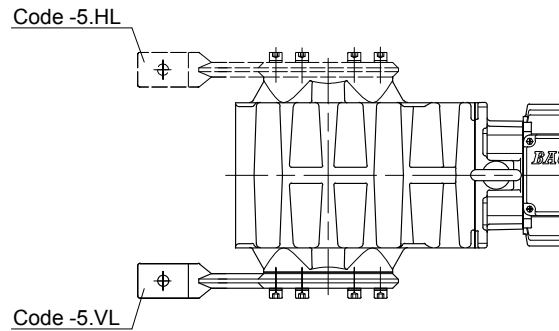
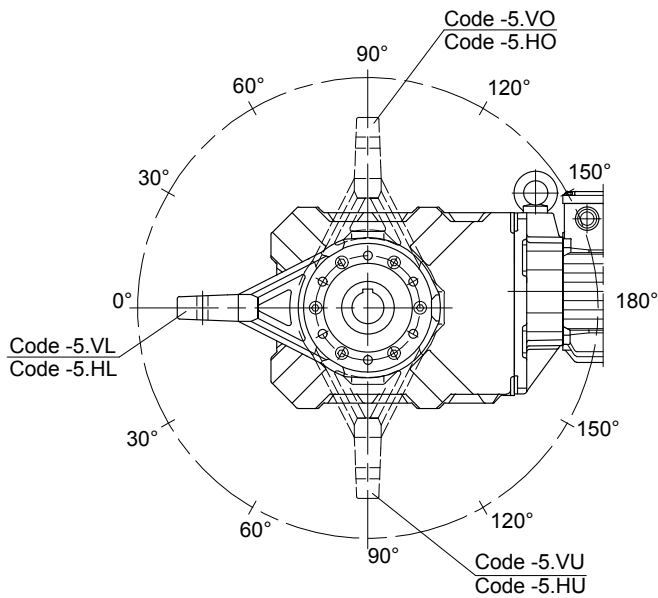
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Position of the torque arm

BK06



BK10 - BK70



12

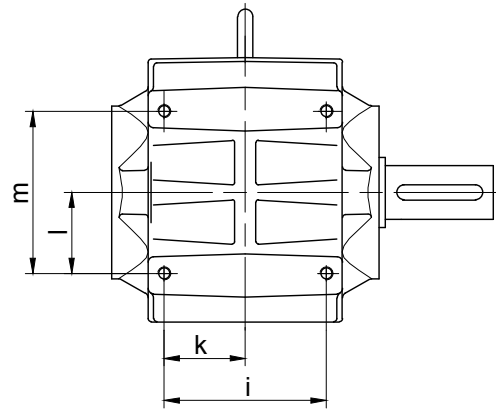
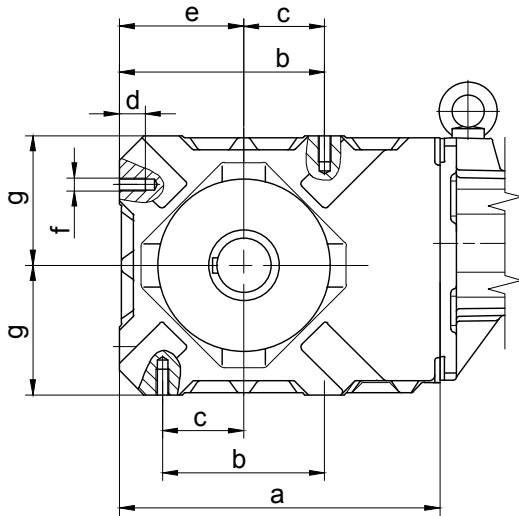
Gear	Position						
	VL/HL	VO/HO/VU/HU					VR/HR
BK06	0°	-	-	-	-	-	-
BK08	0°	30°	60°	90°	120°	-	-
BK10	0°	30°	60°	90°	120°	150°	-
BK17	0°	30°	60°	90°	120°	-	-
BK20	0°	30°	60°	90°	120°	150°	-
BK30	0°	30°	60°	90°	120°	150°	-
BK40	0°	30°	60°	90°	120°	150°	-
BK50	0°	30°	60°	90°	120°	150°	-
BK60	0°	30°	60°	90°	120°	150°	-
BK70	0°	30°	60°	90°	120°	150°	-
BK80	0°	30°	60°	90°	120°	150°	-
BK90	0°	45°		90°	135°		-

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

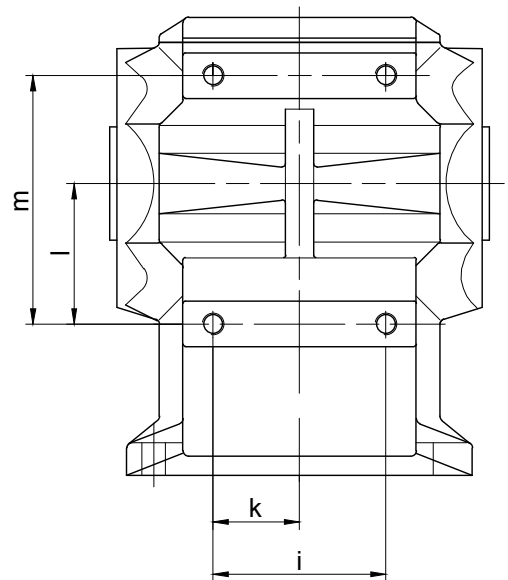
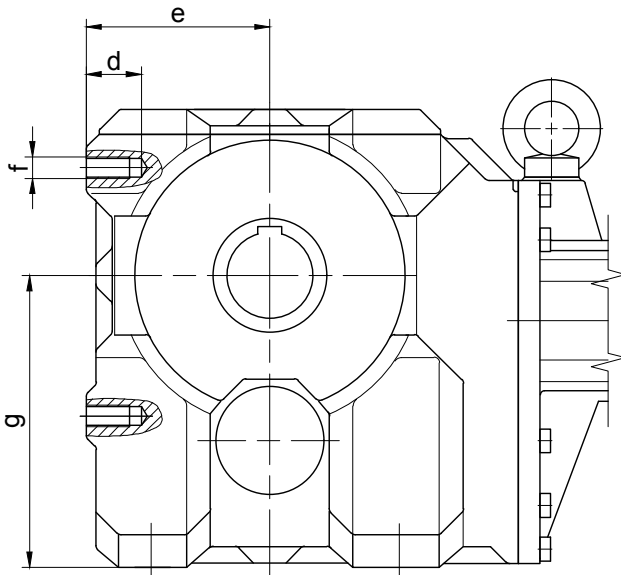
BK-series bevel-geared motors

Additional Dimension Sheet Metric

Foot with tapped holes



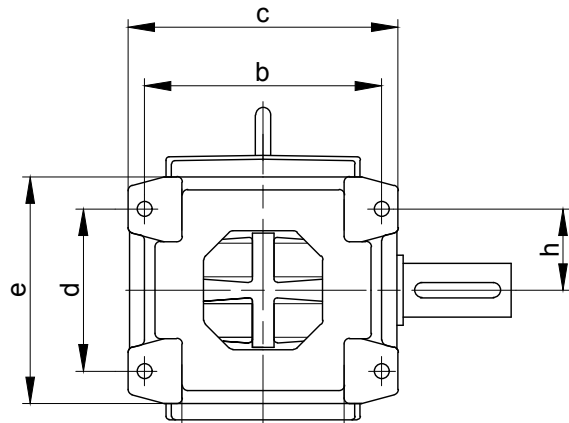
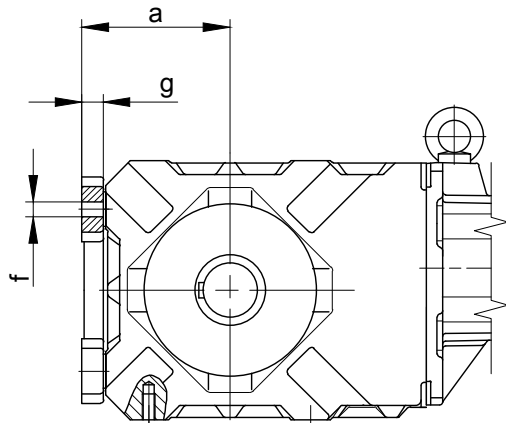
Type	a	b	c	d	e	f	g	i	k	l	m
BK10-BK10Z	202	90	45	16	78	M8	80	95	47.5	45	90
BK20-BK20Z	242	110	55	20	95	M10	100	105	52.5	55	110
BK30-BK30Z	266	125	62.5	24	105	M12	110	120	60	62.5	125
BK40-BK40Z	297	150	75	24	115	M12	120	150	75	75	150
BK50-BK50Z	356	200	100	28	145	M14	150	160	80	100	200



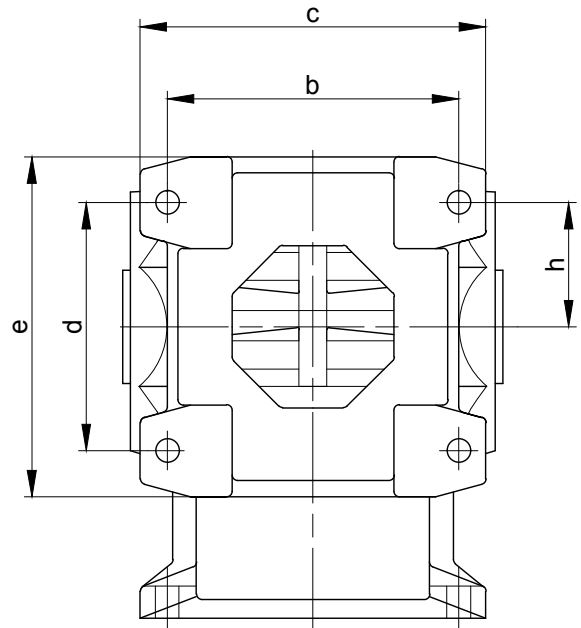
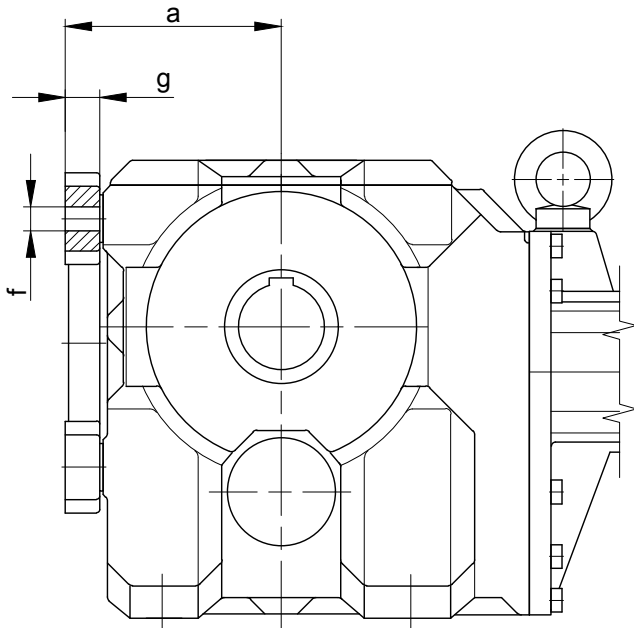
Type	a	b	c	d	e	f	g	i	k	l	m
BK60-BK60Z	-	-	-	40	130	M20	212	160	80	145	230
BK70-BK70Z	-	-	-	40	165	M20	270	160	80	130	230
BK80-BK80Z	-	-	-	60	200	M30	335	210	105	240	360
BK90-BK90Z	-	-	-	60	245	M30	410	210	105	215	360

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Foot plate with clearance holes



Type	a	b	c	d	e	f	g	h
BK10-BK10Z	96	145	165	90	130	Ø9	16	45
BK20-BK20Z	115	165	195	110	160	Ø11	18	55
BK30-BK30Z	127	190	220	125	185	Ø13.5	20	62.5
BK40-BK40Z	137	220	250	150	210	Ø13.5	20	75
BK50-BK50Z	170	240	280	200	265	Ø17.5	23	100



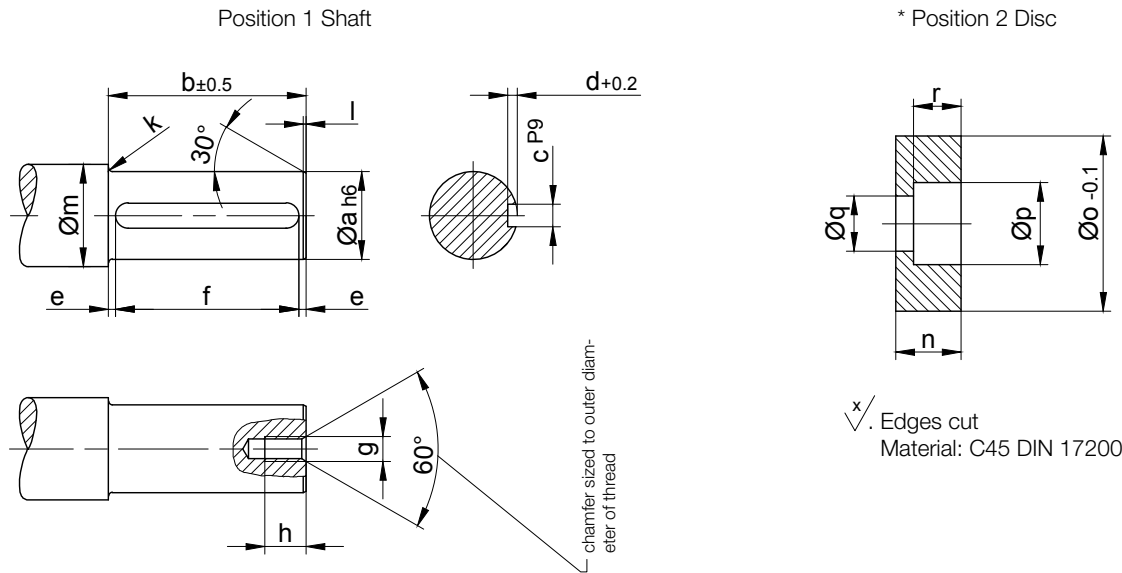
Type	a	b	c	d	e	f	g	h
BK60-BK60Z	165	270	320	230	315	Ø22	32	85
BK70-BK70Z	200	270	320	230	315	Ø22	32	100
BK80-BK80Z	250	400	480	360	480	Ø33	47	120
BK90-BK90Z	295	400	480	360	480	Ø33	47	145

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

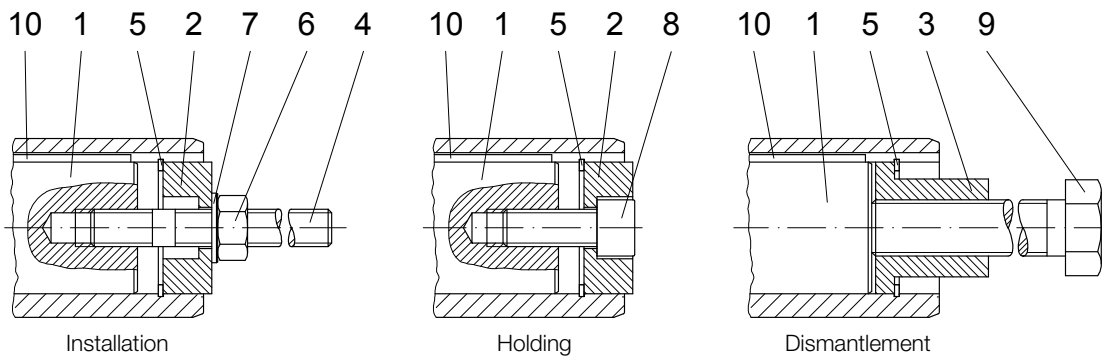
BK-series bevel-gear motors

Additional Dimension Sheet Metric

Assembly tools for hollow shaft and keyway



Type	Dimensions (mm)															
	Position 1 Shaft											Position 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BK06	20	75	6	3.5	6	63+0.3	M8	16	2	1	28	13.5	19.8	11	6.6	6.5
BK10	25	148	8	4	11.5	125.0.5	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BK20	30	170	8	4	15	140+0.5	M10	20	3	1.5	38	15	29.8	18	11	10
BK30	35	201	10	5	10.5	180+0.5	M10	20	3	1.5	43	16	34.8	18	11	10
BK40	40	235	12	5	17.5	200+0.5	M12	22	3	2	48	18	39.8	20	13.5	12
BK50	50	254	14	5.5	17	220+0.5	M16	30	3.5	2	58	21	49.8	26	17.5	15
BK60	60	273	18	7	11.5	250+0.5	M20	38	3.5	2	68	24	59.8	33	22	18
BK70	80	316	22	9	18	280+0.5	M20	38	4	2	90	27	79.8	33	22	20
BK70-K70	70	316	20	7.5	18	280+0.5	M20	38	4	2	90	27	69.8	33	22	20
BK80	100	360	28	10	20	320+0.5	M24	45	4	3	110	32	99.8	40	26	25
BK90	120	432	32	11	16	400+0.5	M24	45	4.5	3	130	35	119.8	40	26	28



The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos.9 against loosening!

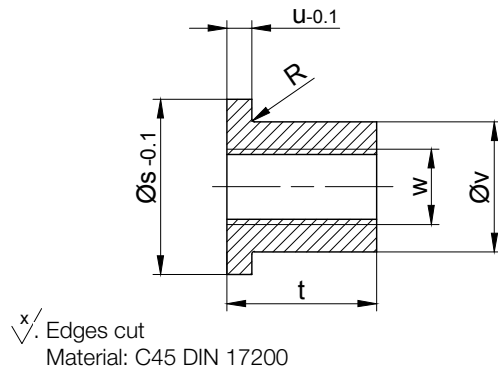
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

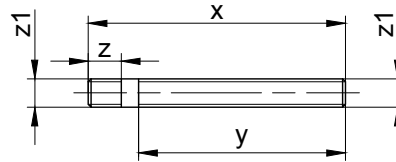
Additional Dimension Sheet Metric

Assembly tools for hollow shaft and keyway

Position 3 Sleeve



* Position 4 Stud bolt



Material: Steel, tensile strength
≥ 1000N/mm²
Threads rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1							
BK06	19.8	20	5	11.1	M8	0.8	130	100	20	M6	20x1	M6	6.4	M6x30	5	M6x120	A 6x6x63
BK10	24.8	24	5	15.4	M12	0.8	200	170	20	M8	25x1.2	M8	8.4	M8x30		M12x190	A 8x7x125
BK20	29.8	28	5	19.8	M14	0.8	230	195	23	M10	30x1.2	M10	10.5	M10x30	8	M14x210	A 8x7x140
BK30	34.8	28	5	23	M14	-	260	220	23	M10	35x1.5	M10	10.5	M10x35		M14x240	A 10x8x180
BK40	39.8	40	6	27.7	M20	0.8	300	260	28	M12	40x1.75	M12	13	M12x35	16	M20x290	A 12x8x200
BK50	49.8	48	6	36	M24	-	340	290	37	M16	50x2.0	M16	17	M16x40	30	M24x320	A 14x9x220
BK60	59.8	60	6	44	M30	-	370	310	45	M20	60x2.0	M20	21	M20x50	42	M30x350	A 18x11x250
BK70	79.8	60	8	55	M30	-	420	360	45	M20	80x2.5	M20	21	M20x50		M30x400	A 22x14x280
BK70-K70	69.8	60	8	53	M30	-	420	360	45	M20	70x2.5	M20	21	M20x50		M30x400	A 20x12x280
BK80	99.8	72	10	75	M36	-	480	410	55	M24	100x3.0	M24	25	M24x60	100	M36x450	A 28x16x320
BK90	119.8	72	10	80	M36	-	560	480	55	M24	120x4.0	M24	25	M24x60		M36x520	A 32x18x400

The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

Optional

Type	Ø s	Order text
BK06	20	Id.Nr.4104013 Assembly tool „holding“
BK10	25	Id.Nr.4103921 Assembly tool „holding“
BK20	30	Id.Nr.4103939 Assembly tool „holding“
BK30	35	Id.Nr.4103947 Assembly tool „holding“
BK40	40	Id.Nr.4103955 Assembly tool „holding“
BK50	50	Id.Nr.4103963 Assembly tool „holding“
BK60	60	Id.Nr.4103971 Assembly tool „holding“
BK70	80	Id.Nr.4103980 Assembly tool „holding“
BK70-K70	70	Id.Nr.4104765 Assembly tool „holding“
BK80	100	Id.Nr.4103998 Assembly tool „holding“
BK90	120	Id.Nr.4104005 Assembly tool „holding“

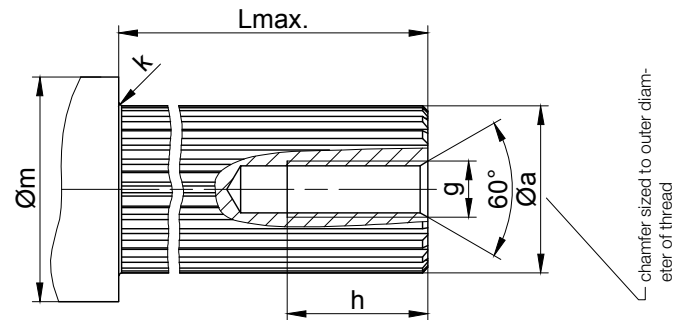
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-gear motors

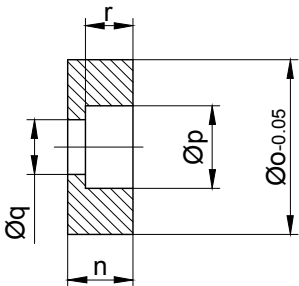
Additional Dimension Sheet Metric

Assembly tools for splined shaft

Position 1 Shaft

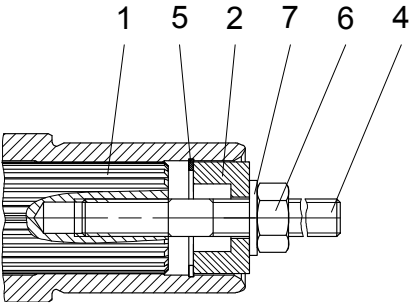


* Position 2 Disc

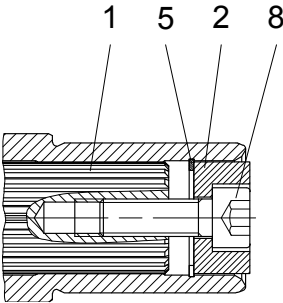


✓. Edges cut
Material: C45 DIN 17200

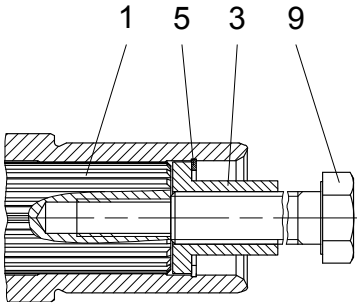
Type	Dimensions (mm)										
	Position 1 Shaft						Position 2 Disc				
	a	g	h	g	Lmax.	m	n	o	p	q	r
BK10	DIN 5480-W30x1.25x22	M10	25	2.5	145	42	15	34.9	18	11	10
BK20	DIN 5480-W35x2x16	M10	25	3	167	44	14	35.9	18	11	10
BK30	DIN 5480-W40x2x18	M12	30	3	200	49	18	40.9	20	13.5	12
BK40	DIN 5480-W50x2x24	M16	35	3	235	59	17.5	50.9	26	17.5	12.5
BK50	DIN 5480-W60x2x28	M20	40	3.5	255	69	24	60.9	33	22	18
BK60	DIN 5480-W70x2x34	M20	40	3.5	275	80	24	71.9	33	22	18
BK70	DIN 5480-W85x3x27	M20	40	4	323	96	22	85.9	33	22	16
BK80	DIN 5480-W110x3x35	M24	50	4	360	122	32	111.9	40	26	25
BK90	DIN 5480-W130x5x24	M24	50	4.5	440	143	25	131.4	40	26	18



Installation



Holding



Dismantlement

The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 9 against loosening!

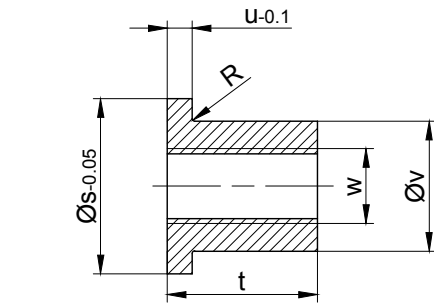
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-gear motors

Additional Dimension Sheet Metric

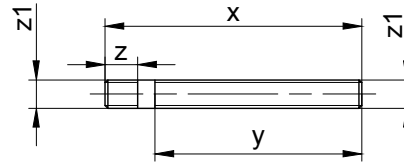
Assembly tools for splined shaft

Position 3 Sleeve



Material: C45 DIN 17200

* Position 4 Stud bolt



Material: Steel. tensile strength
≥ 1000N/mm²
Threads rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Flister head screw DIN 912-8.8	Tightening torques (Nm)	Hexagon bolt DIN EN 24017-8.8
	Position 3 Sleeve						Position 4 Stud bolt									
	s	t	u	v	w	R	x	y	z	z1						
BK10	30.4	28	5	19.8	M14	-	200	170	23	M10	35x1.5	M10	10.5	M10x30	8	M14x190
BK20	35.9	28	5	23	M14	-	230	195	23	M10	35x1.5	M10	10.5	M10x35		M14x210
BK30	40.9	40	6	27.7	M20	-	260	220	28	M12	40x1.75	M12	13	M12x35	16	M20x240
BK40	50.9	48	6	36	M24	0.8	300	260	37	M16	50x2.0	M16	17	M16x40	30	M24x290
BK50	60.9	60	6	44	M30	-	340	290	45	M20	60x2.0	M20	21	M20x50	42	M30x320
BK60	71.9	60	6	53	M30	0.8	370	310	45	M20	72x2.5	M20	21	M20x50		M30x350
BK70	85.9	60	8	65	M30	0.8	420	360	45	M20	85x3	M20	21	M20x50		M30x400
BK80	111.9	72	10	85	M36	0.8	480	410	55	M24	112x4	M24	25	M24x60	100	M36x450
BK90	131.4	72	10	95	M36	0.8	560	480	55	M24	130x4	M24	25	M24x60		M36x520
The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit. Suitable measures are to be used to secure Bolt Pos. 8 against loosening!																

Optional

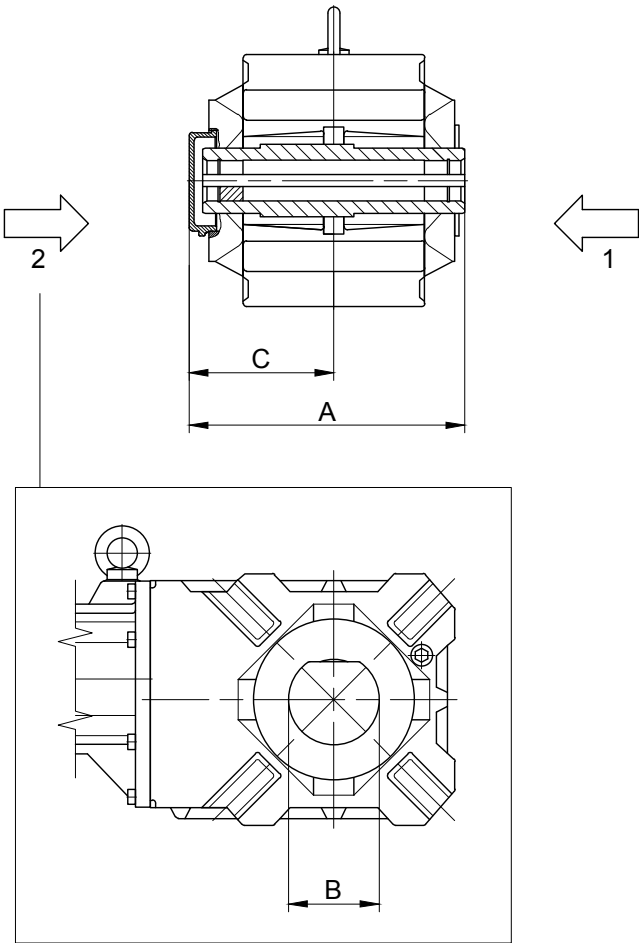
Type	Ø s	Order text
BK10	30.5	Id.Nr. 4105133 Assembly tool „holding“
BK20	36	Id.Nr. 4105141 Assembly tool „holding“
BK30	41	Id.Nr. 4105150 Assembly tool „holding“
BK40	51	Id.Nr. 4105168 Assembly tool „holding“
BK50	61	Id.Nr. 4105176 Assembly tool „holding“
BK60	72	Id.Nr. 4105184 Assembly tool „holding“
BK70	86	Id.Nr. 4105192 Assembly tool „holding“
BK80	112	Id.Nr. 4105206 Assembly tool „holding“
BK90	131.5	Id.Nr. 4105214 Assembly tool „holding“

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-gear motors

Additional Dimension Sheet Metric

Shaft cap (VK)

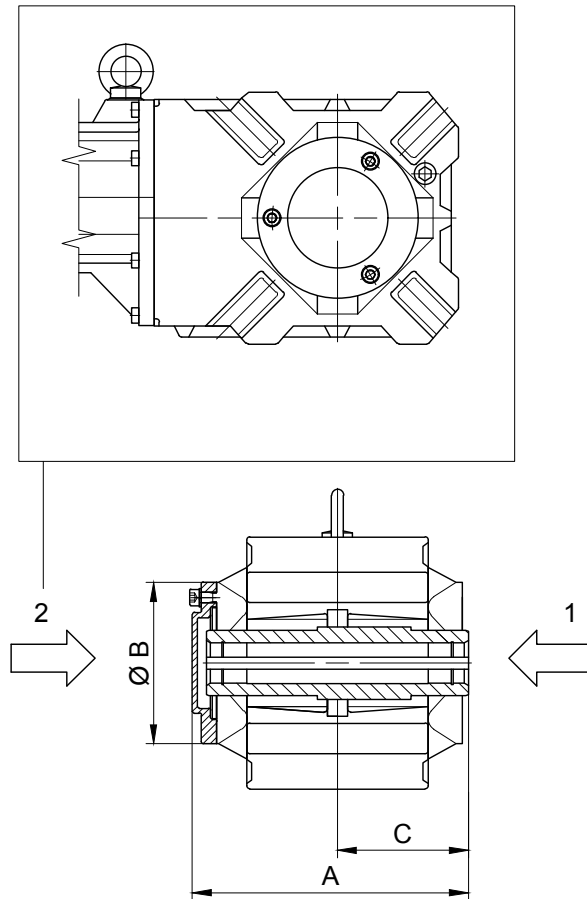


- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BK10	182.5	85	97.5
BK20	204.5	90	108.5
BK40	273.5	100	143.5
BK50	298	115	157
BK60	322	130	171
BK70	370	160	194
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shaft cover (VD)



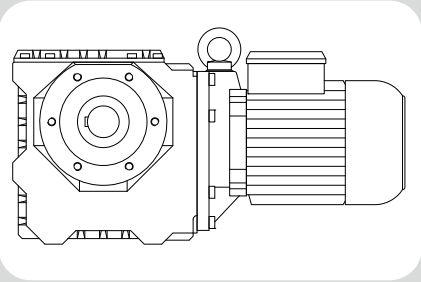
- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BK10	181	120	85
BK20	206	139.5	96
BK30	239	160	112
BK40	274	160	130
BK50	297	199	141
BK60	321	210	151
BK70	368	250	176
BK80	419	300	202
BK90	492	351	242
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America



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BS-series worm-geared motors - Dimensions

Dimension - Standard Imperial	576
BS02	576
BS03	578
BS04	580
BS06	582
BS10 - BS10Z	584
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BS30 - BS30Z	588
BS40 - BS40Z	590
Dimension - Tandem Gearbox Imperial.....	592
BS06G04	592
BS10G06	594
BS20G06	596
BS30G06	598
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Additional Dimension Sheet Imperial	602
Shrink disc couplings (SSV)	602
Shrink disc couplings with (SSV) cover	603
Rubber buffer for torque restraint	604
Position of the torque arm	605
Threaded foot	606
Foot plate, left	607
Assembly tools for hollow shaft and keyway	608
Shaft cap (VK)	610
Shaft cover (VD)	611
Dimension - Standard Metric	612
BS02	612
BS03	614
BS04	616
BS06	618
BS10 - BS10Z	620
BS20 - BS20Z	622
BS30 - BS30Z	624
BS40 - BS40Z	626
Dimension - Tandem Gearbox Metric.....	628
BS06G04	628
BS10G06	630
BS20G06	632
BS30G06	634
BS40G10	636
Additional Dimension Sheet Metric	638
Shrink disc coupling (SSV)	638
Shrink disc coupling with (SSV) cover	639
Rubber buffer for torque arm	640
Position of the torque arm	641 ►

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◀ Threaded foot	642
Foot plate, left	643
Assembly tools for hollow shaft and keyway	644
Shaft cap (VK)	646
Shaft cover (VD)	647

BS-series worm-geared motors

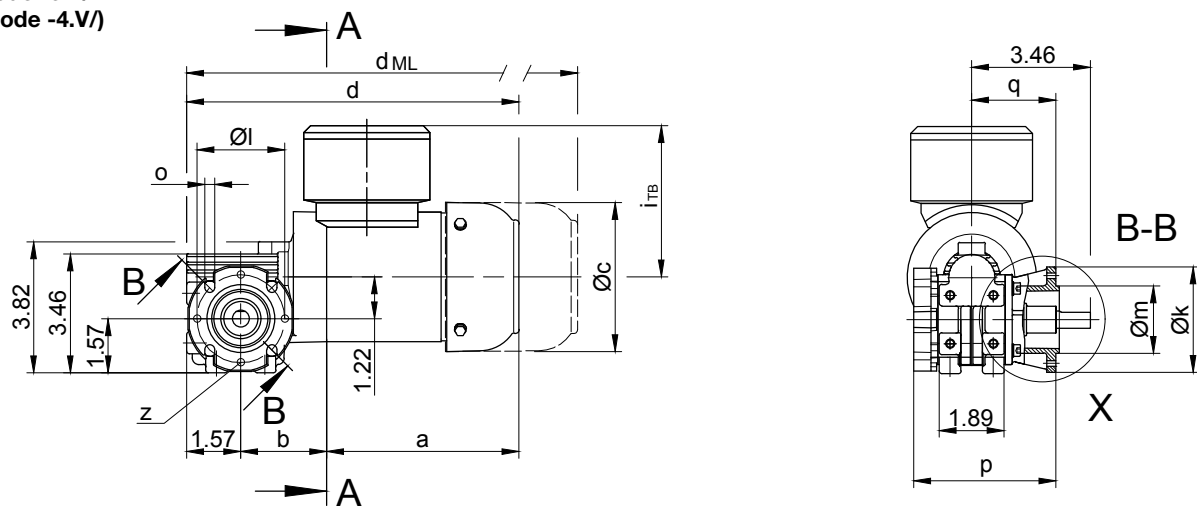
Dimension - Standard Imperial

BS02

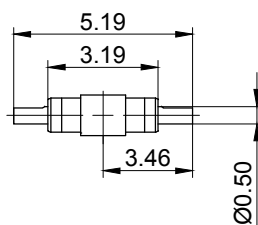
Flange with clearance holes at front

Code -3.V/

(Code -4.V/)

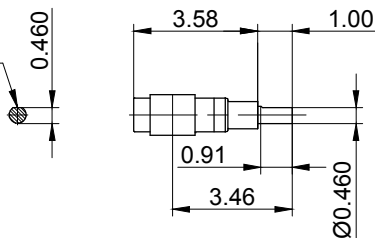


Code -3/



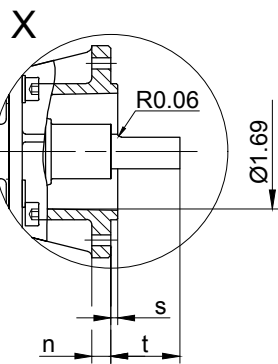
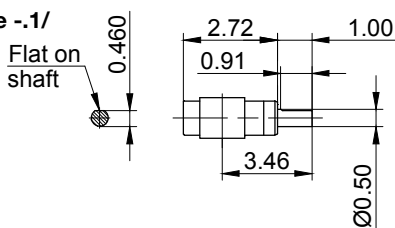
Code -7/

Flat on shaft

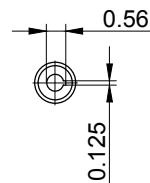
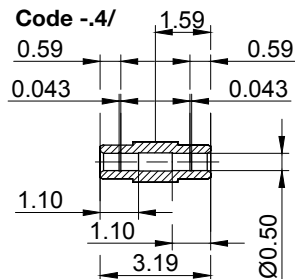


Code -1/

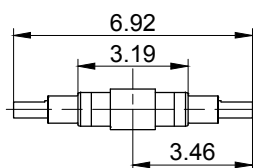
Flat on shaft



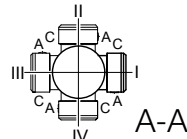
Code -4/



Code -9



Standard



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS02	Code -37V/	3.150	2.559	1.969	0.295	0.217	4.154	2.461	0.098	1.000	-	
BS02	Code -37V/	3.150	2.559	1.969	0.295	0.217	4.154	2.461	0.098	1.000	4xM5	
BS02	Code -47V/	4.331	3.150	2.362	0.315	0.260	4.154	2.461	0.098	1.000	-	
BS02	Code -47V/	4.331	3.150	2.362	0.315	0.260	4.154	2.461	0.098	1.000	4xM6	

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS02-.../D04.A.	5.61	2.50	4.35	9.69	3.54	4.41	11.40	13.13	14.84	-
BS02-.../D.05.A.	6.72	2.58	4.84	10.87	3.98	4.61	12.52	14.91	16.38	-
BS02-.../D.06.A.	6.70	2.58	4.84	10.86	3.90	4.69	12.51	14.89	16.37	-
BS02-.../D.07.A.	7.49	2.58	4.84	11.65	3.90	4.69	13.30	15.68	17.16	-

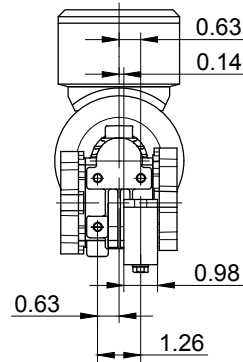
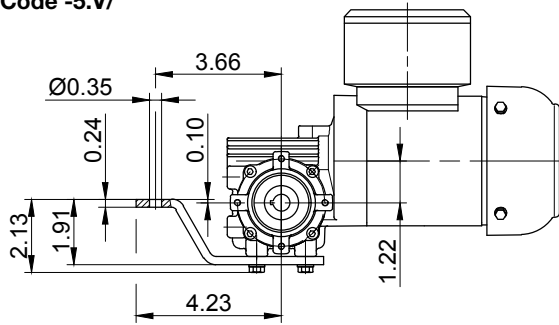
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS02

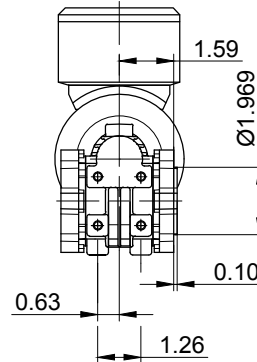
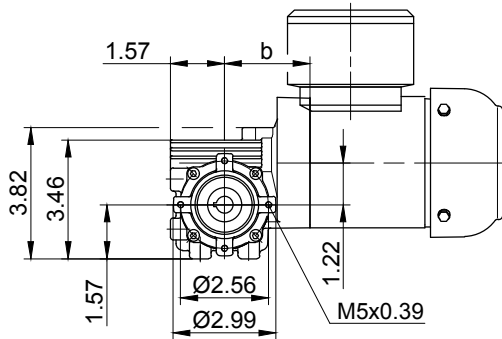
Torque arm at front

Code -5.V/



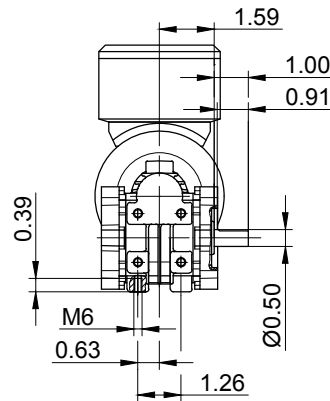
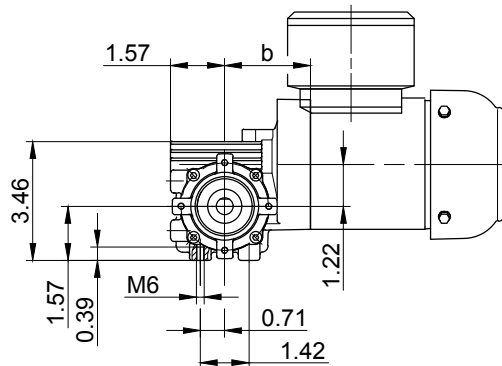
Foot with tapped holes at front

Code -7.V/



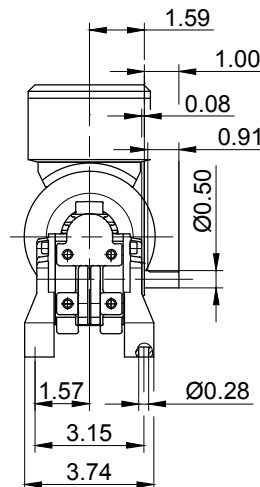
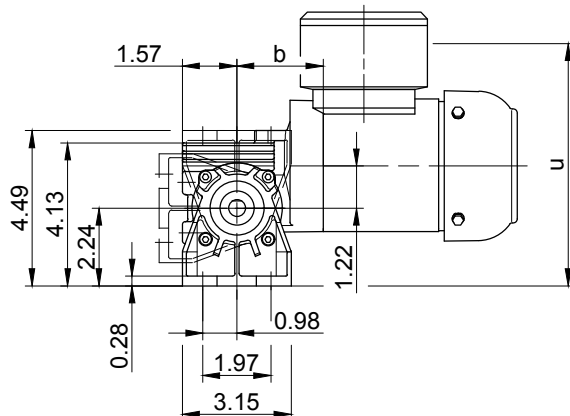
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

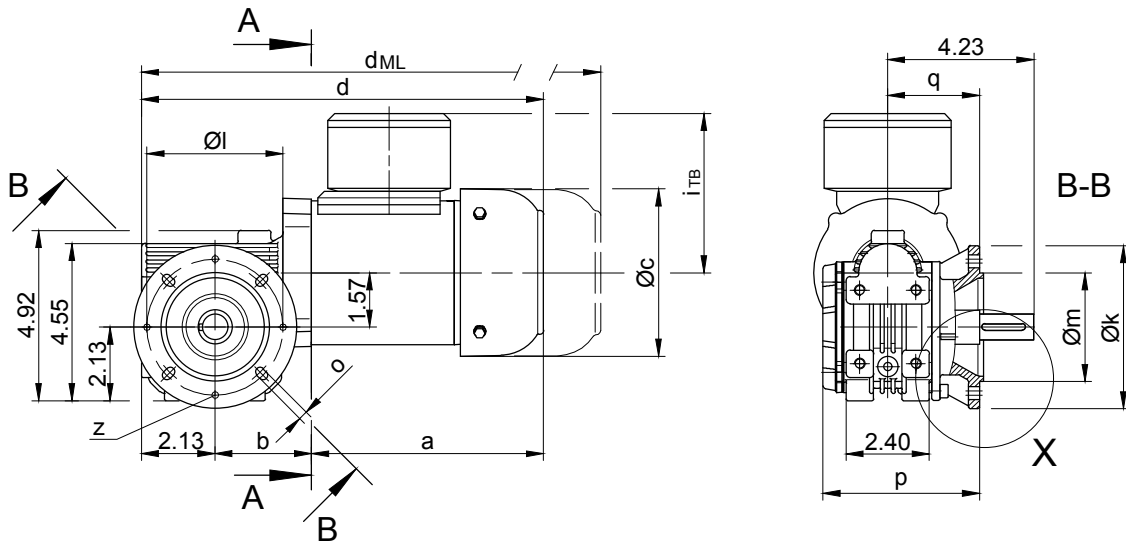
BS-series worm-geared motors

Dimension - Standard Imperial

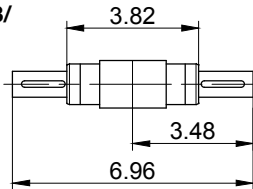
BS03

Flange with clearance holes at front

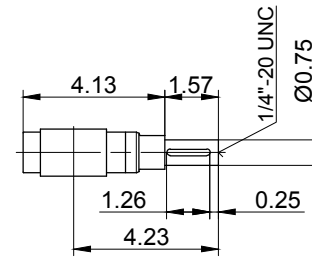
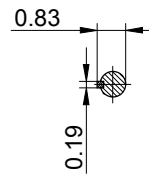
Code -3.V/



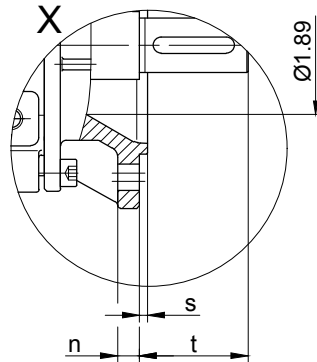
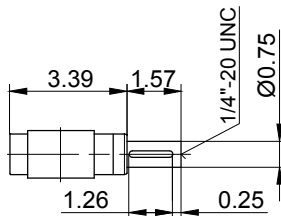
Code -3/



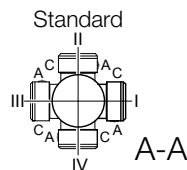
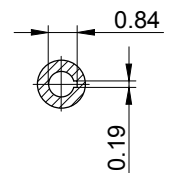
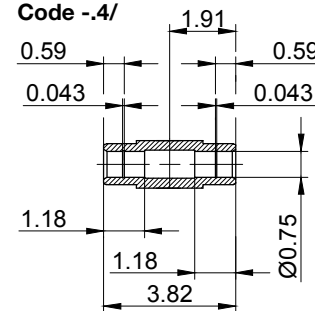
Code -7/



Code -1/



Code -4/



Flange Dimensions											Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	
BS03	Code -37V/	4.724	3.937	3.150	0.315	0.260	4.528	2.657	0.118	1.570	
BS03	Code -37V/	4.724	3.937	3.150	0.315	0.260	4.528	2.657	0.118	1.570	

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BS03-.../D...05.A.	6.72	2.80	4.84	11.64	3.98	4.61	13.29	15.67	17.15	-
BS03-.../D...06.A.	6.70	2.80	4.84	11.63	3.90	4.69	13.28	15.66	17.14	-
BS03-.../D...07.A.	7.49	2.80	4.84	12.41	3.90	4.69	14.07	16.45	17.93	-
BS03-.../D...08.A.	7.85	4.53	6.14	14.51	4.51	5.37	17.11	18.92	21.34	17.11
BS03-.../D...08.B.	9.04	4.53	6.14	15.69	4.51	5.37	18.29	20.10	22.50	18.29

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

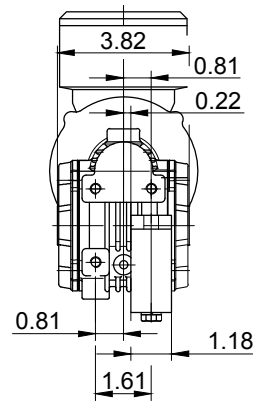
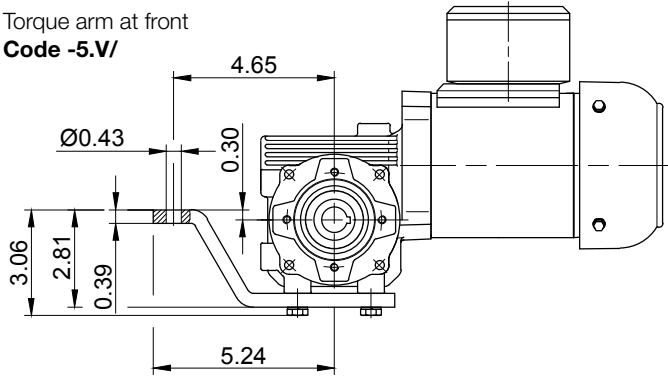
BS-series worm-gear motors

Dimension - Standard Imperial

BS03

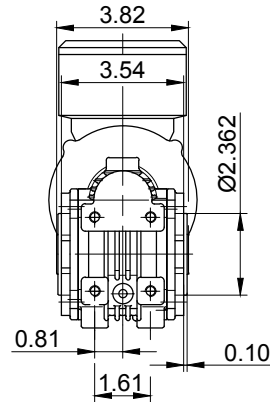
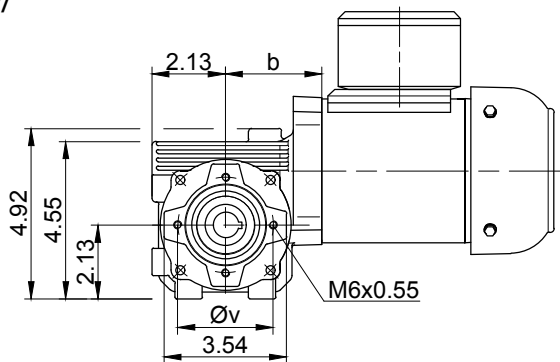
Torque arm at front

Code -5.V/



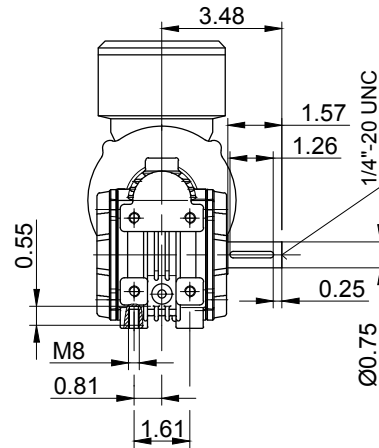
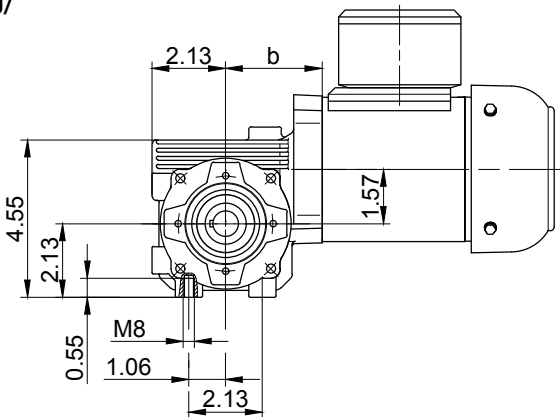
Foot with tapped holes at front

Code -7.V/



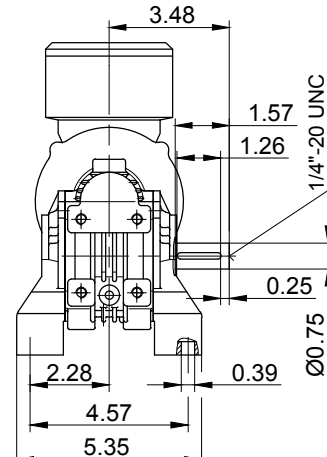
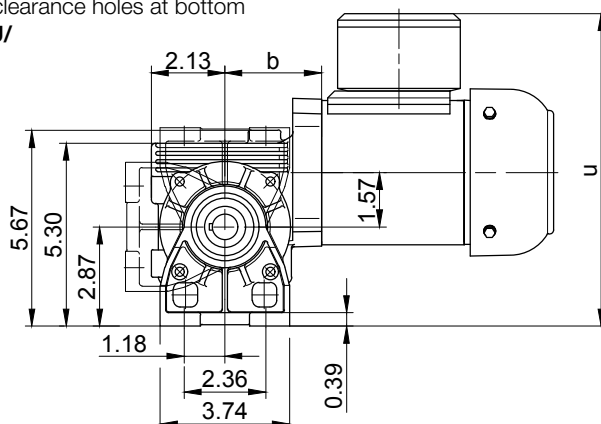
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

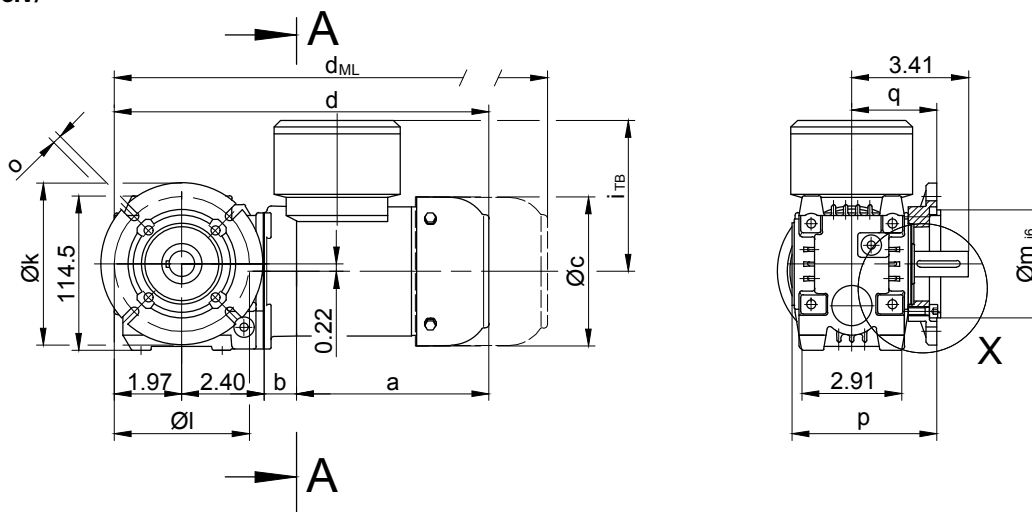
BS-series worm-geared motors

Dimension - Standard Imperial

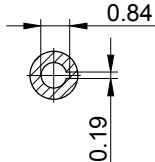
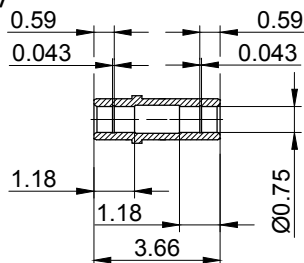
BS04

Flange with clearance holes at front

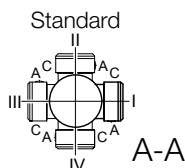
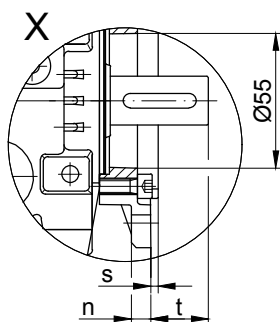
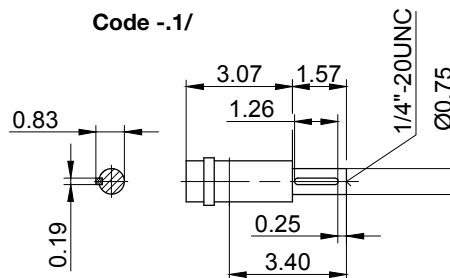
Code -3.V/



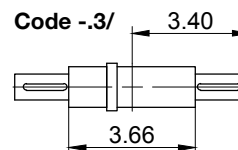
Code -4/



Code -1/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS04	Code -3.V/	4.724	3.937	3.150	0.315	0.260	4.232	2.480	0.118	0.920	-

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in

over 1.5 in diameter: +0.000 / -0.001 in

Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
BS04-.../D04.A.	5.61	0.94	4.35	10.93	3.54	4.41	12.64	14.37	16.08	-
BS04-.../D..05.A.	6.72	1.02	4.84	12.11	3.98	4.61	13.76	16.15	17.62	-
BS04-.../D..06.A.	6.70	1.02	4.84	12.10	3.90	4.69	13.75	16.13	17.61	-
BS04-.../D..07.A.	7.49	1.02	4.84	12.89	3.90	4.69	14.54	16.92	18.40	-

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

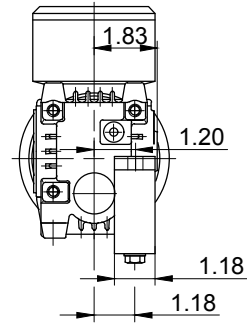
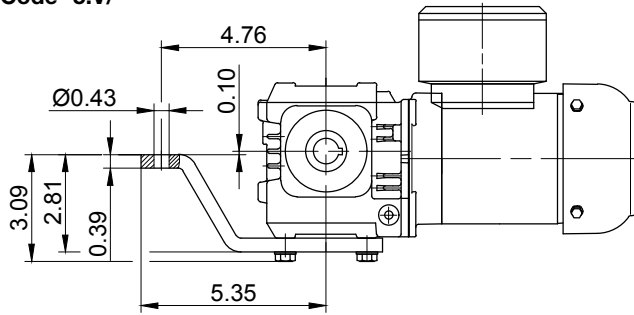
BS-series worm-geared motors

Dimension - Standard Imperial

BS04

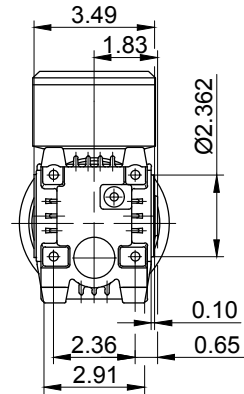
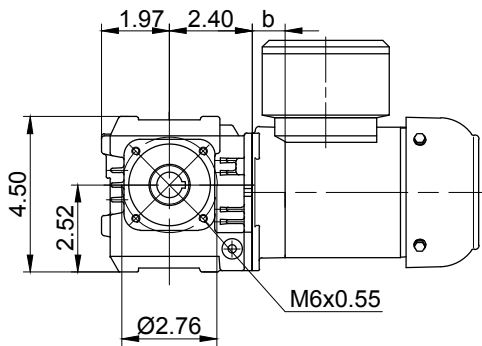
Torque arm at front

Code -5.V/



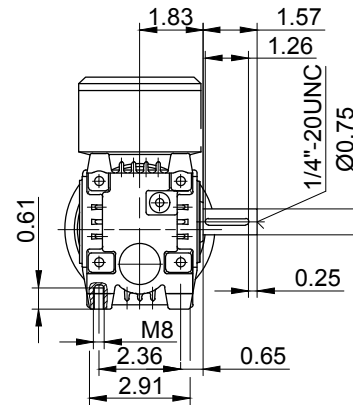
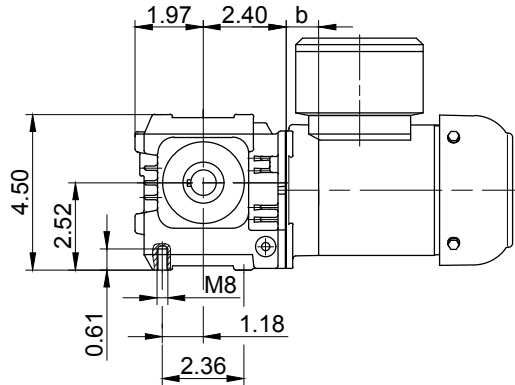
Foot with tapped holes at front

Code -7.V/



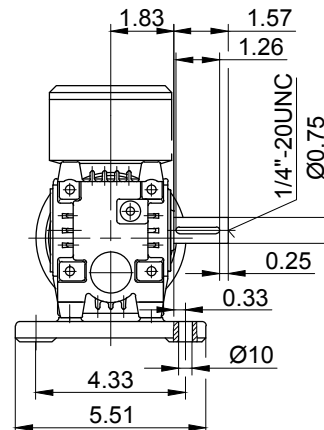
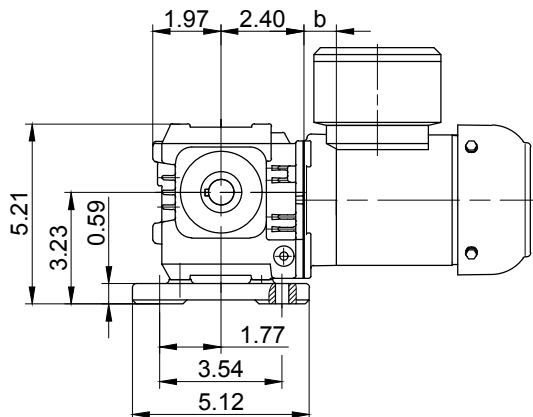
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

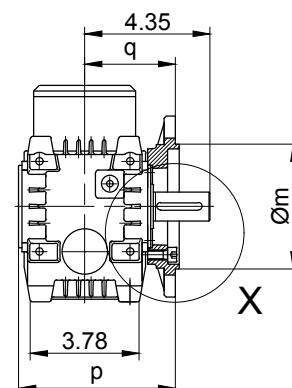
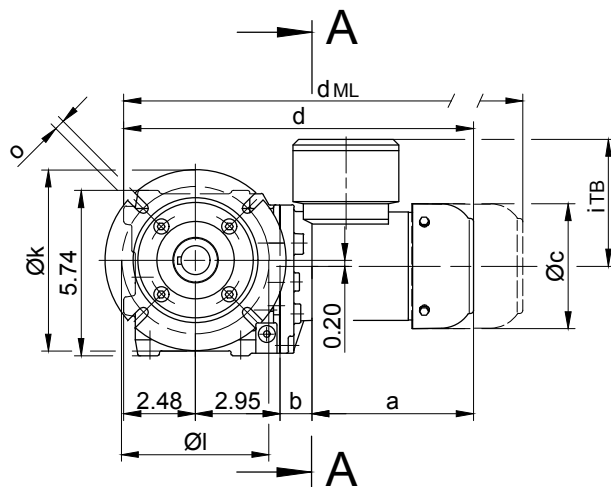
Dimension - Standard Imperial

BS06

Flange with clearance holes at front

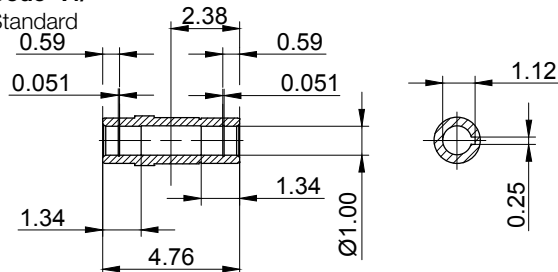
Code -3.V/

(Code -4.V/)

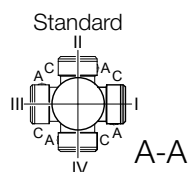
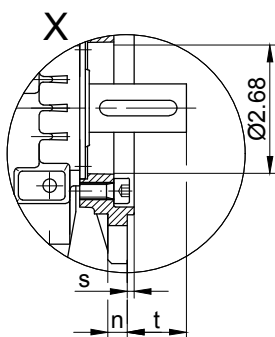
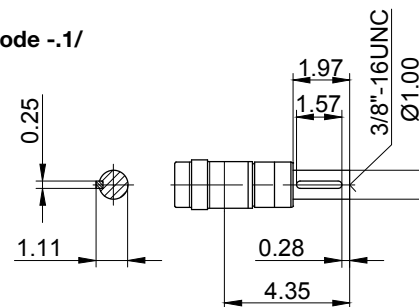


Code -4/

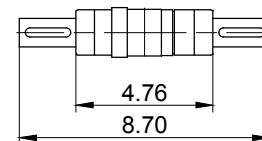
Standard



Code -1/



Code -3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS06..	Code -3.V/	5.512	4.528	3.740	0.394	0.354	5.445	3.150	0.118	1.201	-	
BS06..	Code -4.V/	6.299	5.118	4.331	0.394	0.354	5.445	3.150	0.138	1.201	-	

Type	a	b	c	d	i	Design with motor extensions				
						i_TB	Brake	Encoder	Brake with Encoder	Back Stop
							d_ML	d_ML	d_ML	d_ML
BS06-../D04.A.	5.61	1.10	4.35	12.15	3.54	4.41	13.86	15.59	17.30	-
BS06-../D..05.A.	6.72	1.18	4.84	13.33	3.98	4.61	14.98	17.37	18.84	-
BS06-../D..06.A.	6.70	1.18	4.84	13.32	3.90	4.69	14.97	17.35	18.83	-
BS06-../D..07.A.	7.49	1.18	4.84	14.11	3.90	4.69	15.76	18.14	19.62	-
BS06-../D..08.A.	7.85	2.91	6.14	16.20	4.51	5.37	18.80	20.61	23.03	18.80
BS06-../D..08.B.	9.04	2.91	6.14	17.38	4.51	5.37	19.98	21.79	24.19	19.98

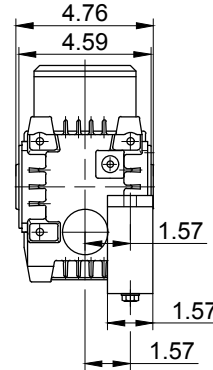
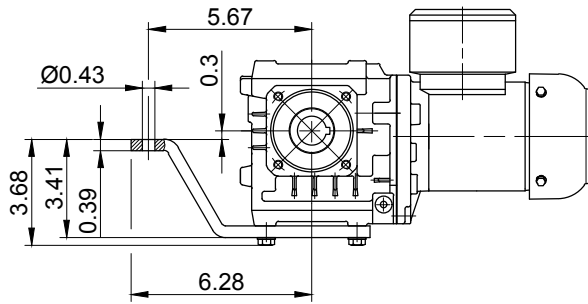
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS06

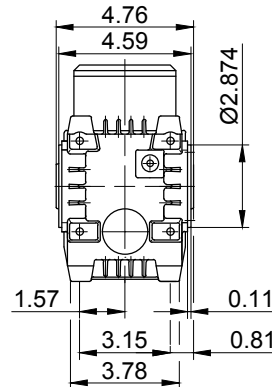
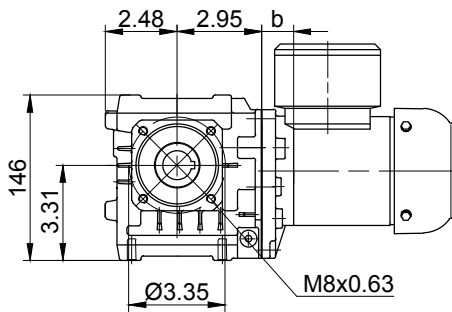
Torque arm at front

Code -5.V/



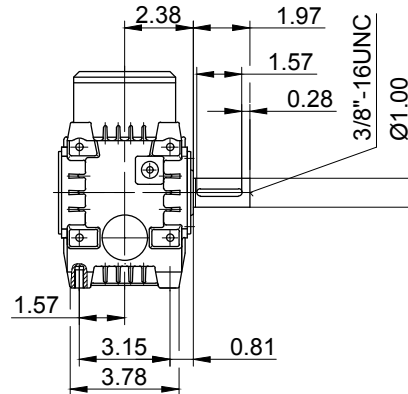
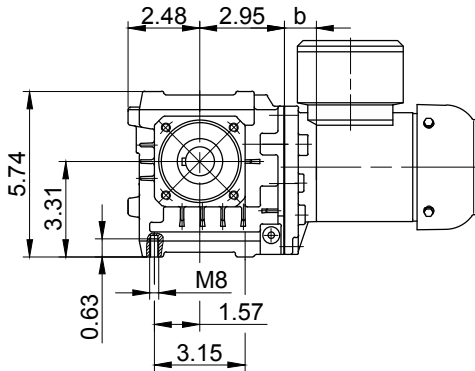
Foot with tapped holes at front

Code -7.V/



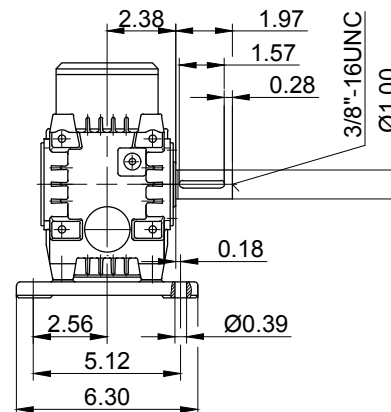
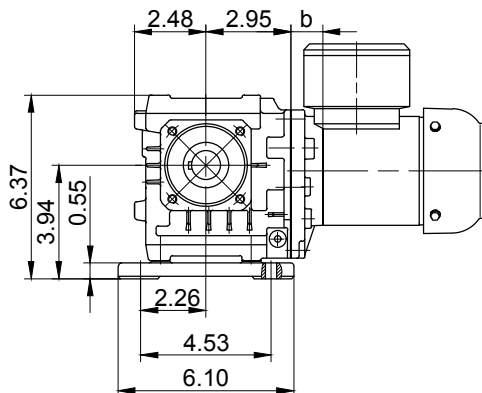
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

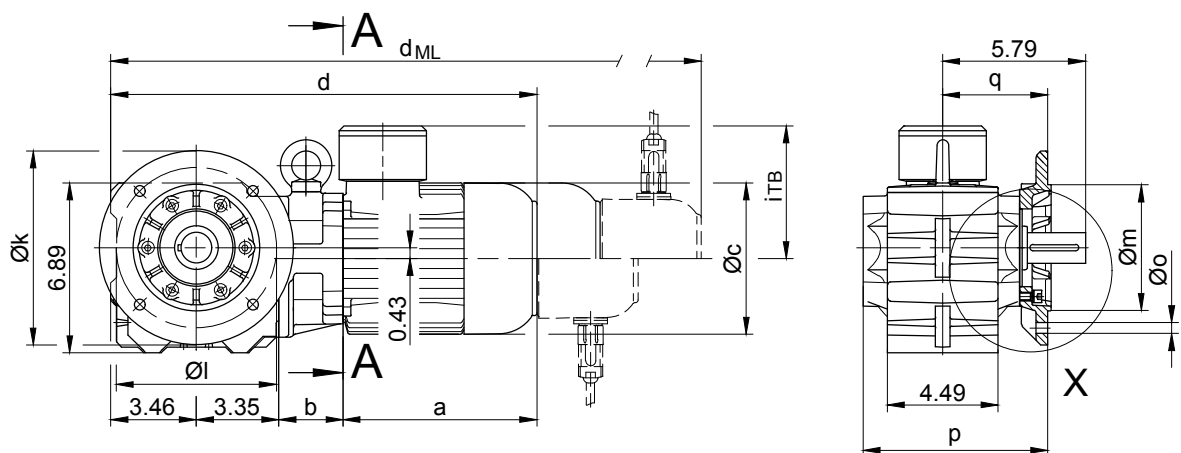
Dimension - Standard Imperial

BS10 - BS10Z

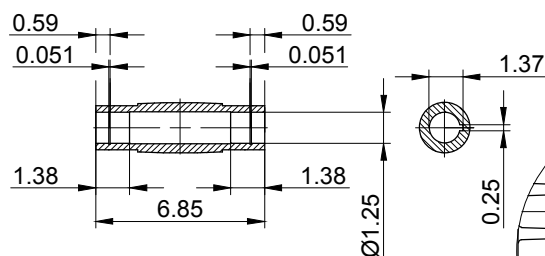
Flange with clearance holes at front

Code -3.V/

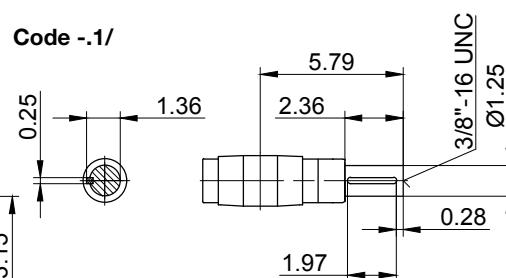
(Code -2.V/)



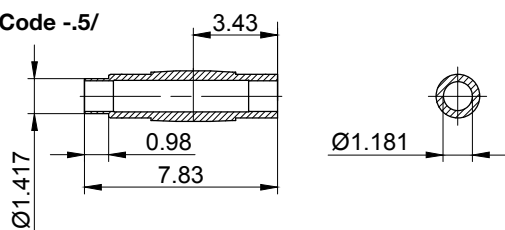
Code -4/



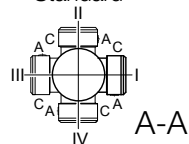
Code -1/



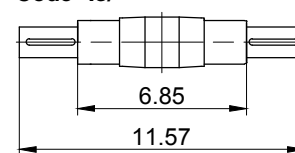
Code -5/



Standard



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS10..	Code -3.V/	7.874	6.496	5.118	0.472	0.433	7.480	4.252	0.138	1.533	-
BS10..	Code -2.V/	6.299	5.118	4.331	0.394	0.354	7.205	3.976	0.138	1.809	-

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in

over 1.5 in diameter: +0.000 / -0.001 in

Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS10Z-../D04.A.	5.61	3.39	4.35	15.81	3.54	4.41	17.52	19.25	20.96	-
BS10-../D..05.A.	6.72	2.44	4.84	15.97	3.98	4.61	17.62	20.00	21.48	-
BS10Z-../D..05.A.	6.72	3.46	4.84	16.99	3.98	4.61	18.65	21.03	22.50	-
BS10-../D..06.A.	6.70	2.44	4.84	15.96	3.90	4.69	17.61	19.99	21.47	-
BS10Z-../D..06.A.	6.70	3.46	4.84	16.98	3.90	4.69	18.63	21.02	22.49	-
BS10-../D..07.A.	7.49	2.44	4.84	16.74	3.90	4.69	18.40	20.78	22.26	-
BS10Z-../D..07.A.	7.49	3.46	4.84	17.77	3.90	4.69	19.42	21.80	23.28	-
BS10-../D..08.A.	7.85	2.60	6.14	17.26	4.51	5.37	19.86	21.67	24.09	19.86
BS10Z-../D..08.A.	7.85	5.20	6.14	19.86	4.51	5.37	22.46	24.27	26.69	22.46
BS10-../D..08.B.	9.04	2.60	6.14	18.44	4.51	5.37	21.04	22.85	25.26	21.04
BS10Z-../D..08.B.	9.04	5.20	6.14	21.04	4.51	5.37	23.64	25.45	27.85	23.64
BS10-../D..09.A.	9.86	3.17	6.93	19.84	4.88	6.18	23.50	24.08	27.60	23.50
BS10-../D..09.B.	12.15	3.17	6.93	22.13	4.88	6.18	25.79	26.34	29.89	25.79

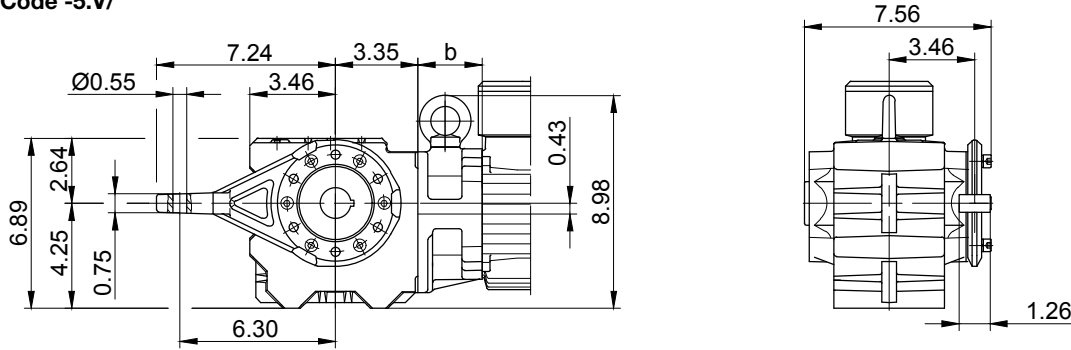
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS10 - BS10Z

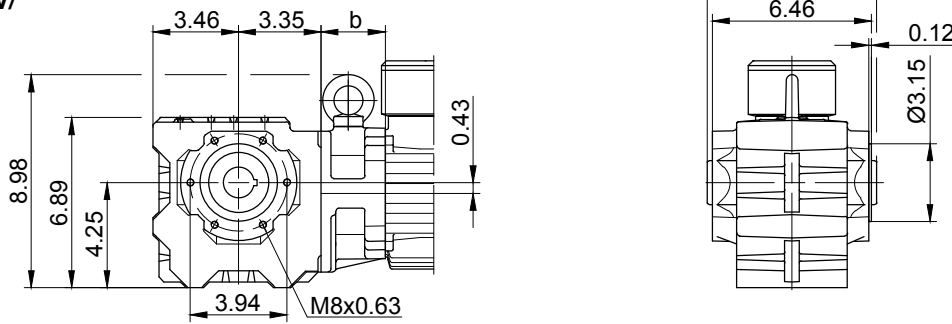
Torque arm at front

Code -5.V/



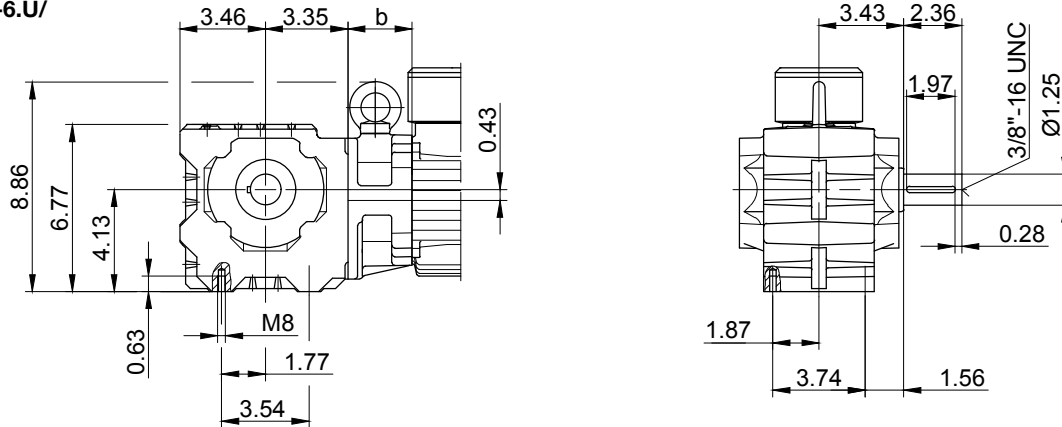
Foot with tapped holes at front

Code -7.V/



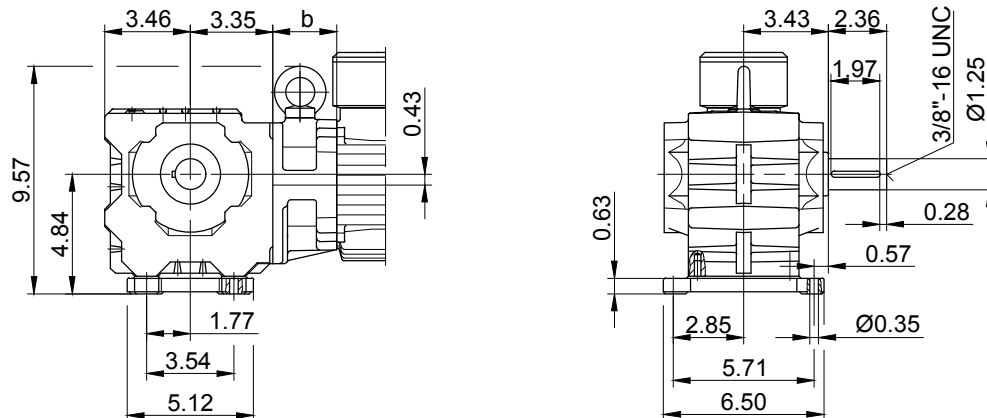
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Dimension - Standard Imperial

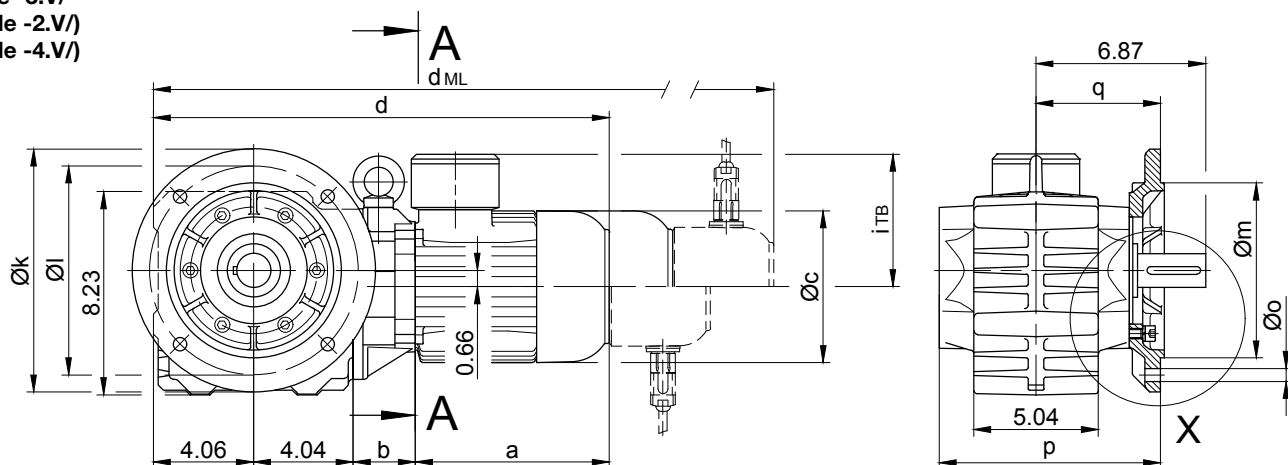
BS20 - BS20Z

Flange with clearance holes at front

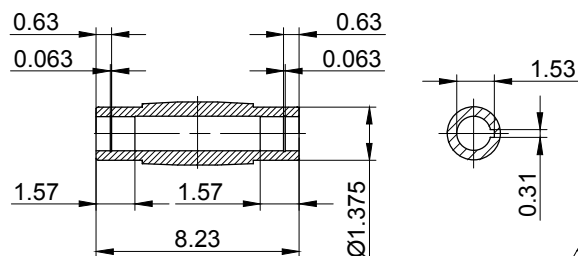
Code -3.V/

(Code -2.V/)

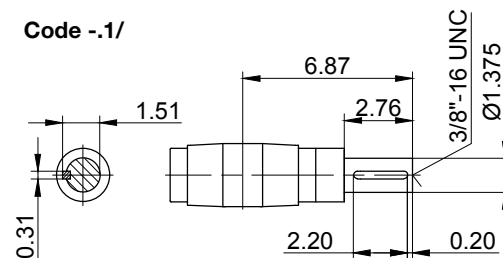
(Code -4.V/)



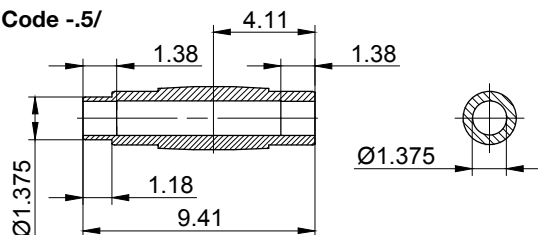
Code -4/



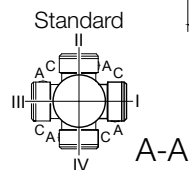
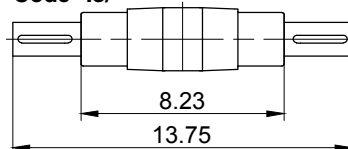
Code -1/



Code -5/



Code -3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS20..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	8.957	5.039	0.157	1.835	-	
BS20..	Code -2.V/	7.874	6.496	5.118	0.472	0.433	8.839	4.921	0.138	1.953	-	
BS20..	Code -4.V/	11.811	10.433	9.055	0.787	0.531	9.193	5.276	0.157	1.599	-	

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS20Z-../D04.A.	5.61	3.94	4.35	17.64	3.54	4.41	19.35	21.08	22.79	-
BS20-../D..05.A.	6.72	2.36	4.84	17.17	3.98	4.61	18.82	21.20	22.68	-
BS20Z-../D..05.A.	6.72	4.02	4.84	18.82	3.98	4.61	20.48	22.86	24.33	-
BS20-../D..06.A.	6.70	2.36	4.84	17.16	3.90	4.69	18.81	21.19	22.67	-
BS20Z-../D..06.A.	6.70	4.02	4.84	18.81	3.90	4.69	20.46	22.85	24.32	-
BS20-../D..07.A.	7.49	2.36	4.84	17.94	3.90	4.69	19.60	21.98	23.46	-
BS20Z-../D..07.A.	7.49	4.02	4.84	19.60	3.90	4.69	21.25	23.63	25.11	-
BS20-../D..08.A.	7.85	2.52	6.14	18.46	4.51	5.37	21.06	22.87	25.30	21.06
BS20Z-../D..08.A.	7.85	5.75	6.14	21.69	4.51	5.37	24.29	26.10	28.52	24.29
BS20-../D..08.B.	9.04	2.52	6.14	19.65	4.51	5.37	22.24	24.06	26.46	22.24
BS20Z-../D..08.B.	9.04	5.75	6.14	22.87	4.51	5.37	25.47	27.28	29.69	25.47
BS20-../D..09.A.	9.86	3.09	6.93	21.04	4.88	6.18	24.70	25.28	28.80	24.70
BS20-../D..09.B.	12.15	3.09	6.93	23.33	4.88	6.18	26.99	27.54	31.09	26.99

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

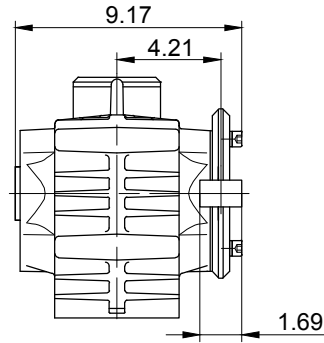
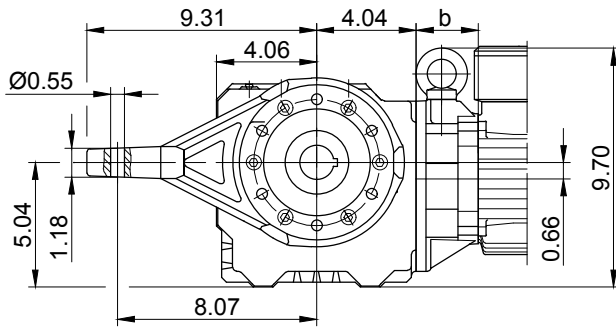
BS-series worm-geared motors

Dimension - Standard Imperial

BS20 - BS20Z

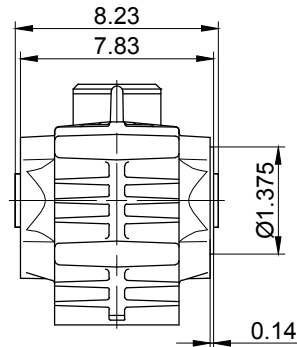
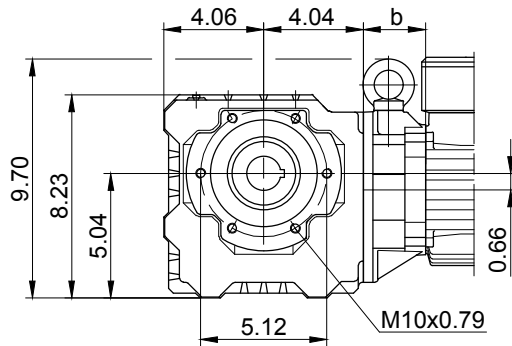
Torque arm at front

Code -5.V/



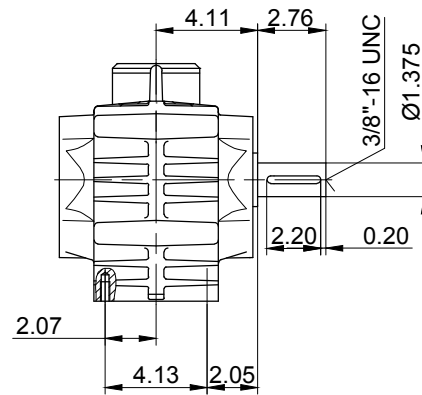
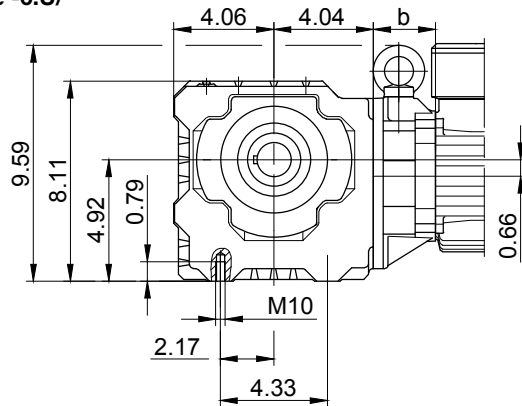
Foot with tapped holes at front

Code -7.V/



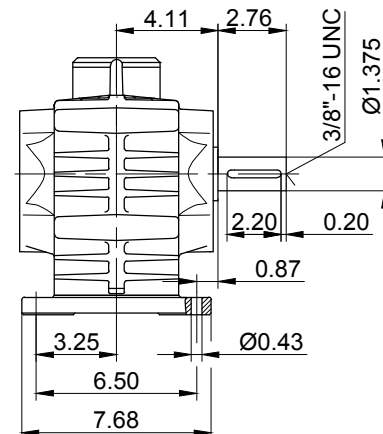
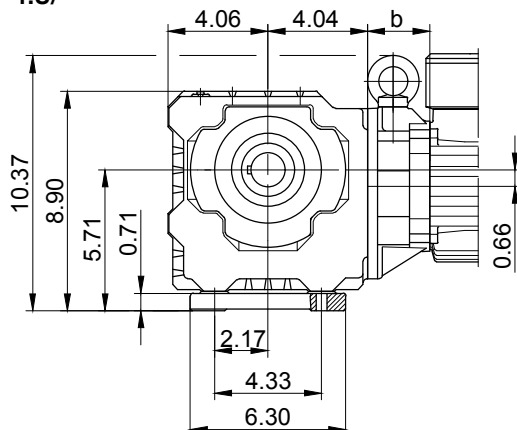
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

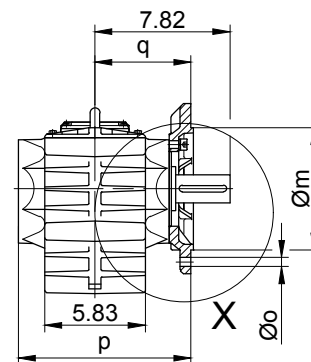
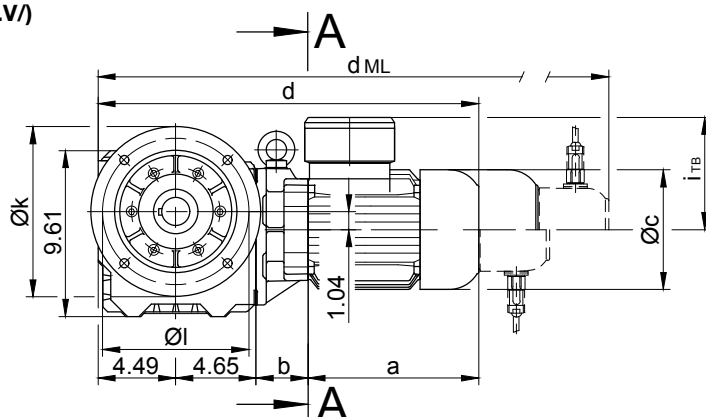
Dimension - Standard Imperial

BS30 - BS30Z

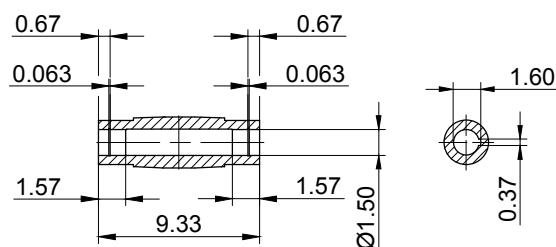
Flange with clearance holes at front

Code -3.V/

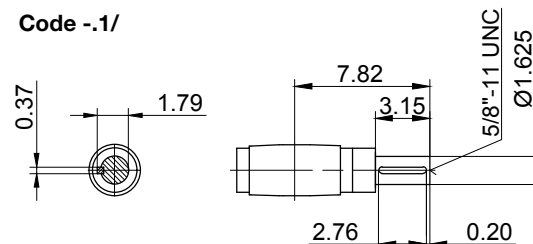
(Code -4.V/)



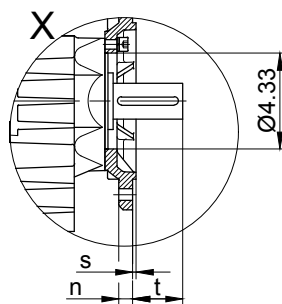
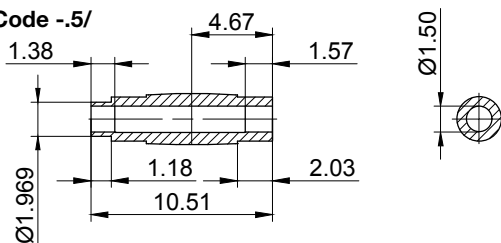
Code -4/



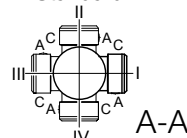
Code -1/



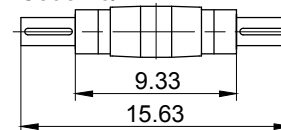
Code -5/



Standard



Code -3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS30..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	9.980	5.551	0.157	2.264	-	
BS30..	Code -4.V/	11.811	10.433	9.055	0.787	0.531	10.217	5.787	0.157	2.028	-	

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BS30-../D..05.A.	6.72	2.28	4.84	18.13	3.98	4.61	19.79	22.17	23.65	-
BS30Z-../D..05.A.	6.72	5.26	4.84	21.11	3.98	4.61	22.76	25.14	26.62	-
BS30-../D..06.A.	6.70	2.28	4.84	18.12	3.90	4.69	19.78	22.16	23.63	-
BS30Z-../D..06.A.	6.70	5.26	4.84	21.09	3.90	4.69	22.75	25.13	26.61	-
BS30-../D..07.A.	7.49	2.28	4.84	18.91	3.90	4.69	20.56	22.94	24.42	-
BS30Z-../D..07.A.	7.49	5.26	4.84	21.88	3.90	4.69	23.54	25.92	27.39	-
BS30-../D..08.A.	7.85	2.44	6.14	19.43	4.51	5.37	22.03	23.84	26.26	22.03
BS30Z-../D..08.A.	7.85	5.41	6.14	22.40	4.51	5.37	25.00	26.81	29.23	25.00
BS30-../D..08.B.	9.04	2.44	6.14	20.61	4.51	5.37	23.21	25.02	27.42	23.21
BS30Z-../D..08.B.	9.04	5.41	6.14	23.58	4.51	5.37	26.18	27.99	30.39	26.18
BS30-../D..09.A.	9.86	3.01	6.93	22.01	4.88	6.18	25.67	26.24	29.77	25.67
BS30Z-../D..09.A.	9.86	5.98	6.93	24.98	4.88	6.18	28.64	29.22	32.74	28.64
BS30-../D..09.B.	12.15	3.01	6.93	24.29	4.88	6.18	27.95	28.51	32.05	27.95
BS30Z-../D..09.B.	12.15	5.98	6.93	27.26	4.88	6.18	30.93	31.48	35.02	30.93
BS30-../D..11.A.	12.56	3.27	8.58	24.96	6.50	6.93	28.82	29.20	32.84	28.82
BS30Z-../D..11.B.	15.24	3.27	8.58	27.64	6.50	6.93	31.42	31.87	35.52	31.42

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

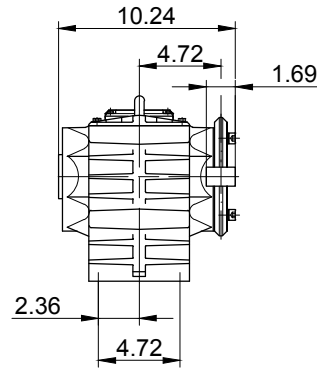
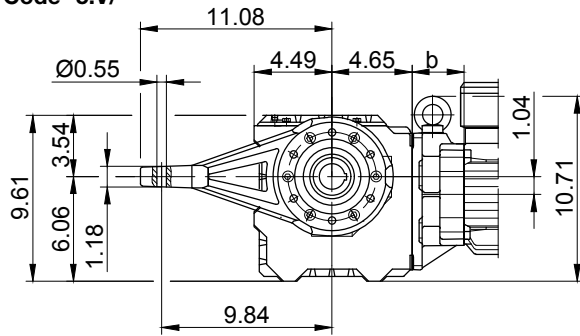
BS-series worm-geared motors

Dimension - Standard Imperial

BS30 - BS30Z

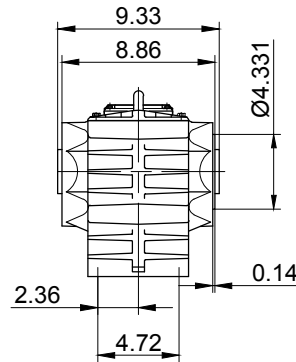
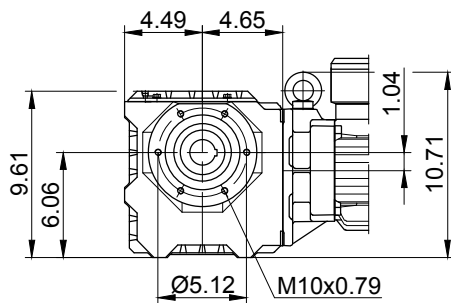
Torque arm at front

Code -5.V/



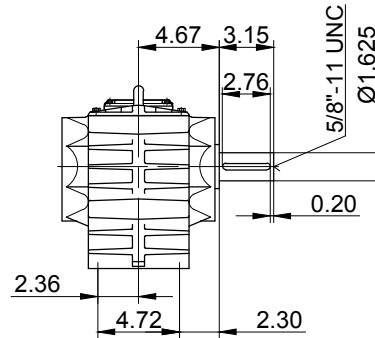
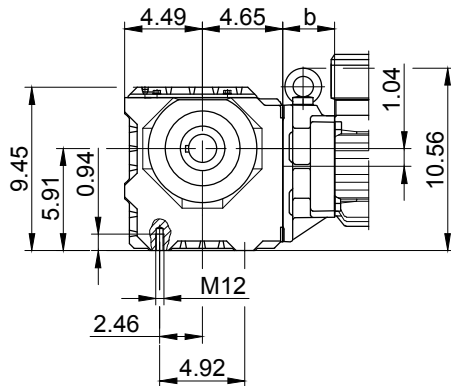
Foot with tapped holes at front

Code -7.V/



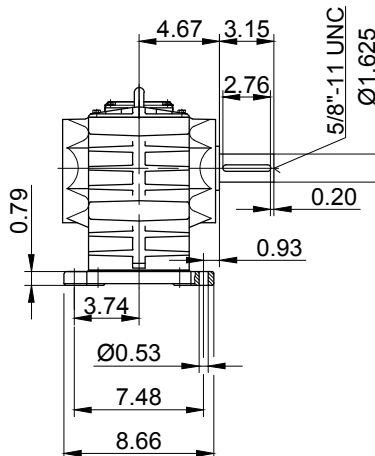
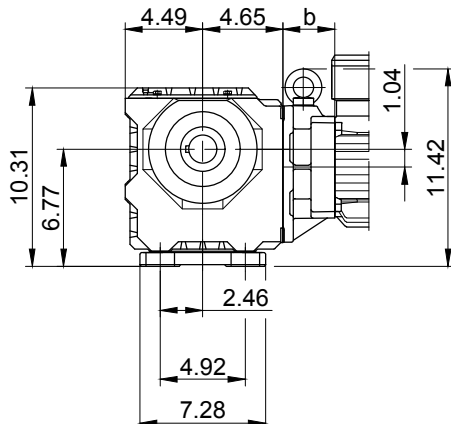
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

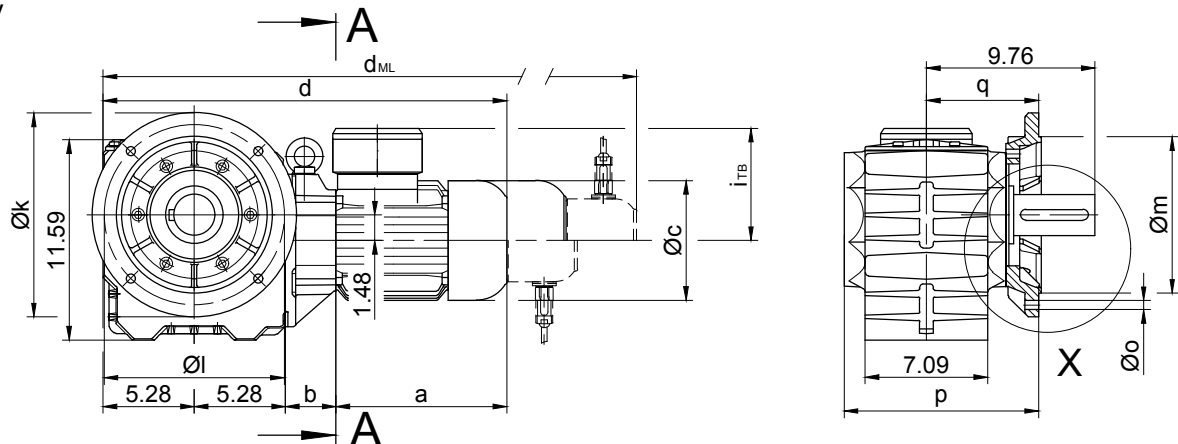
BS-series worm-geared motors

Dimension - Standard Imperial

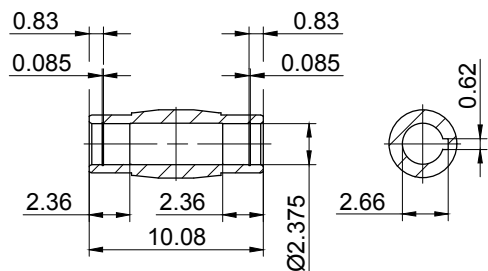
BS40 - BS40Z

Flange with clearance holes at front

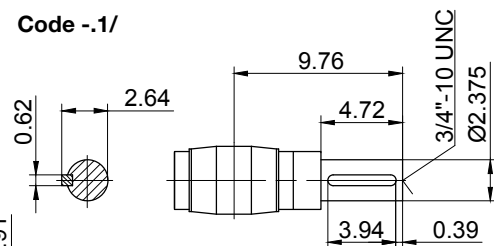
Code -3.V/



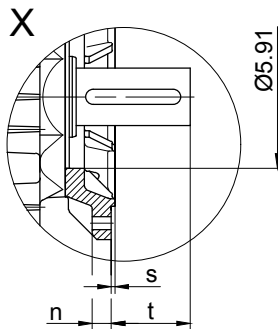
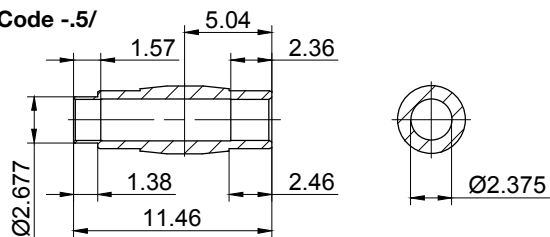
Code -4/



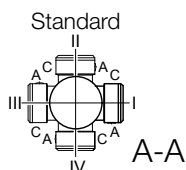
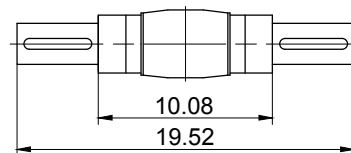
Code -1/



Code -5/



Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS40..	Code -3.V/	11.811	10.433	9.055	0.787	0.531	11.260	6.496	0.157	3.263	-

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in

over 1.5 in diameter: +0.000 / -0.001 in

Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	i_{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS40Z-../D..05.A.	6.72	5.45	4.84	22.72	3.98	4.61	24.37	26.76	28.23	-
BS40Z-../D..06.A.	6.70	5.45	4.84	22.71	3.90	4.69	24.36	26.74	28.22	-
BS40Z-../D..07.A.	7.49	5.45	4.84	23.50	3.90	4.69	25.15	27.53	29.01	-
BS40-../D..08.A.	7.85	2.36	6.14	20.77	4.51	5.37	23.37	25.18	27.60	23.37
BS40Z-../D..08.A.	7.85	5.61	6.14	24.02	4.51	5.37	26.61	28.43	30.85	26.61
BS40-../D..08.B.	9.04	2.36	6.14	21.95	4.51	5.37	24.55	26.36	28.76	24.55
BS40Z-../D..08.B.	9.04	5.61	6.14	25.20	4.51	5.37	27.80	29.61	32.01	27.80
BS40-../D..09.A.	9.86	2.93	6.93	23.35	4.88	6.18	27.01	27.58	31.11	27.01
BS40Z-../D..09.A.	9.86	6.18	6.93	26.59	4.88	6.18	30.26	30.83	34.35	30.26
BS40-../D..09.B.	12.15	2.93	6.93	25.63	4.88	6.18	29.29	29.85	33.39	29.29
BS40Z-../D..09.B.	12.15	6.18	6.93	28.88	4.88	6.18	32.54	33.09	36.64	32.54
BS40-../D..11.A.	12.56	3.19	8.58	26.30	6.50	6.93	30.16	30.54	34.18	30.16
BS40Z-../D..11.B.	15.24	3.19	8.58	28.98	6.50	6.93	32.76	33.21	36.85	32.76

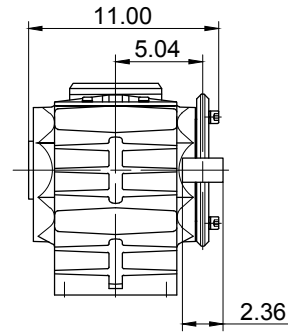
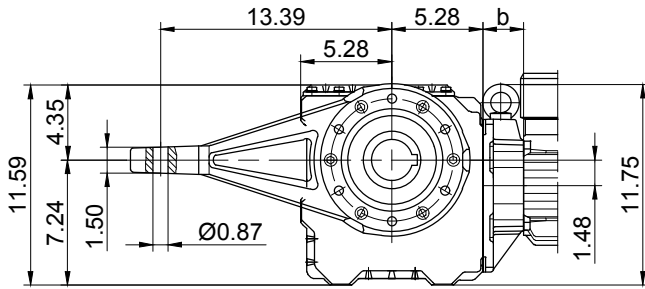
Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS40 - BS40Z

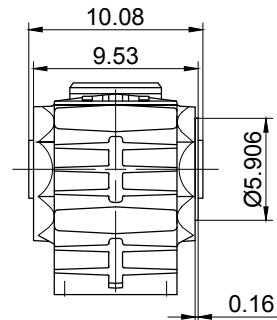
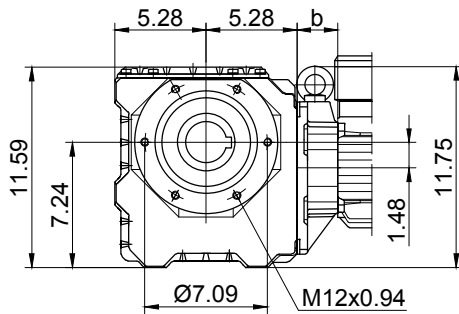
Torque arm at front

Code -5.V/



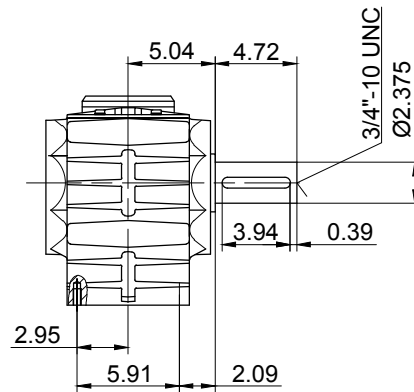
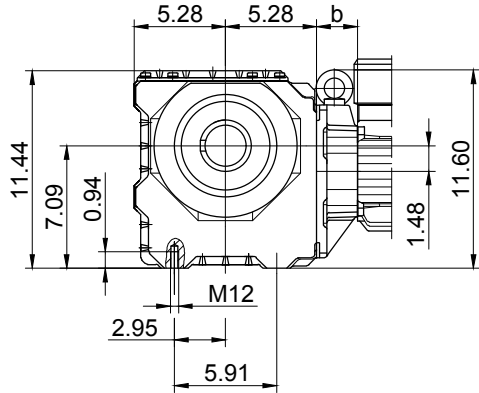
Foot with tapped holes at front

Code -7.V/



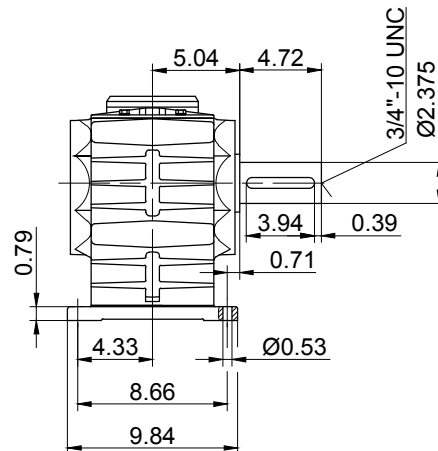
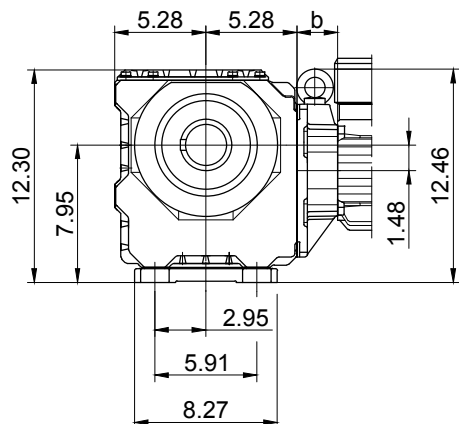
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

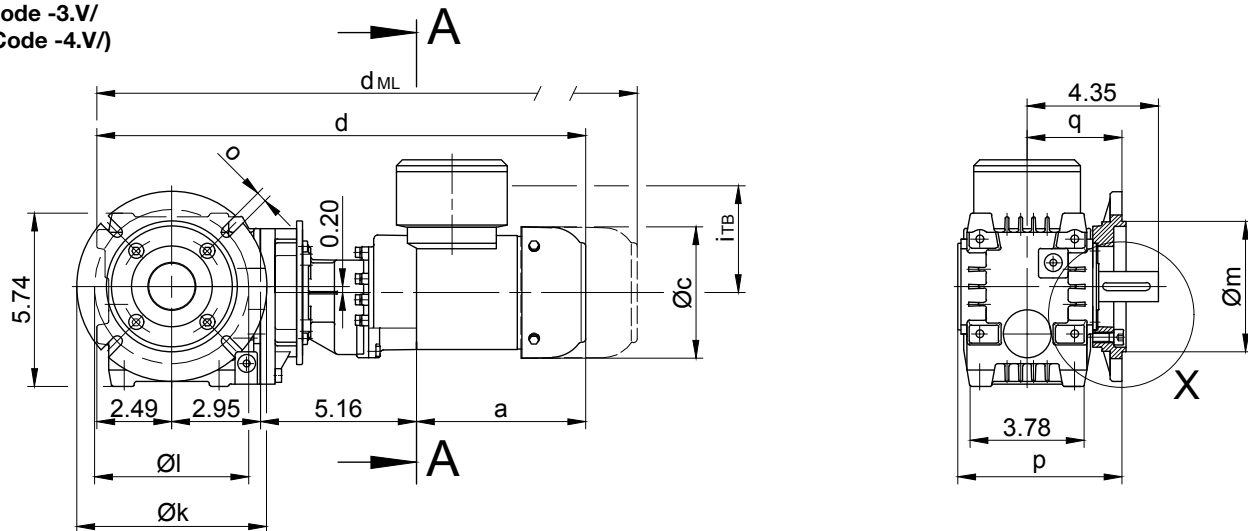
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

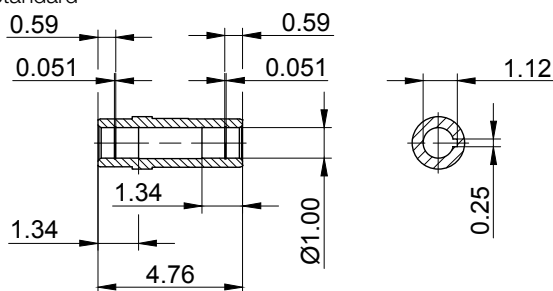
BS06G04

Flange with clearance holes at front

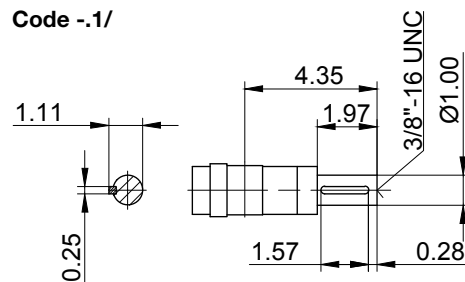
Code -3.V/
(Code -4.V/)



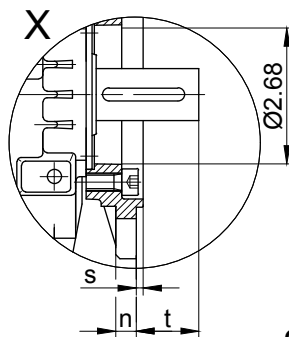
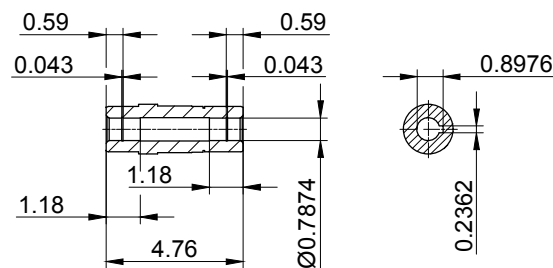
Code -4/
Standard



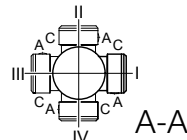
Code -.1/



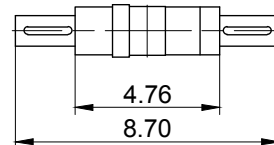
Code -4/K20



Standard



Code -.3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS06..	Code -3.V/	5.512	4.528	3.740	0.394	0.354	5.445	3.150	0.118	1.201	-	
BS06..	Code -4.V/	6.299	5.118	4.331	0.394	0.354	5.445	3.150	0.138	1.201	-	

Dimensions in inch

Type	a	b	c	d	i	Design with motor extensions			
						i_TB	Brake	Encoder	Brake with Encoder
						d_ML	d_ML	d_ML	d_ML
BS06G04-./D04.A.	5.61	5.16	4.35	16.20	3.54	4.41	17.91	19.64	21.35
Dimensions in inch									

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

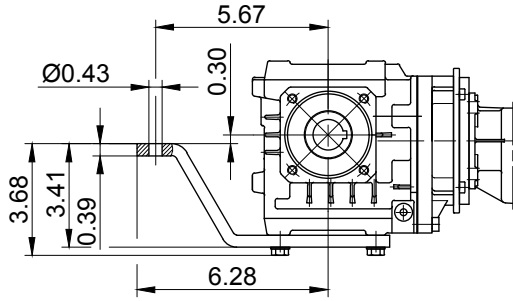
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

BS06G04

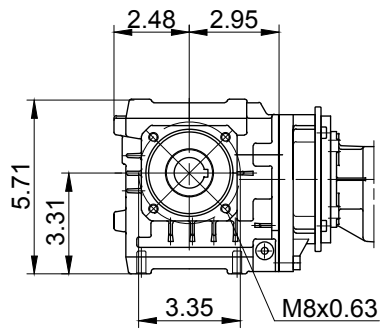
Torque arm at front

Code -5.V/



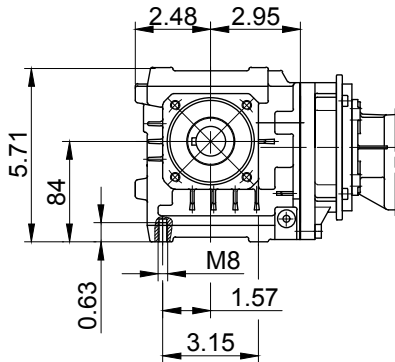
Flange with tapped holes at front

Code -7.V/



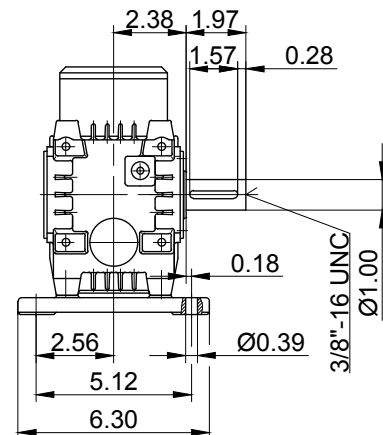
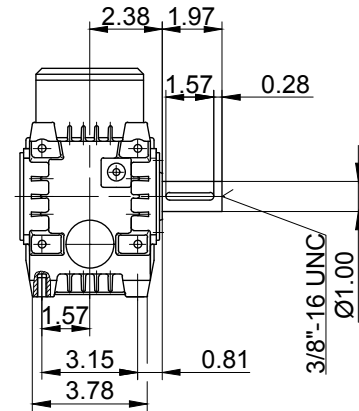
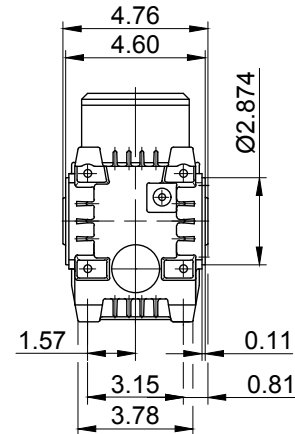
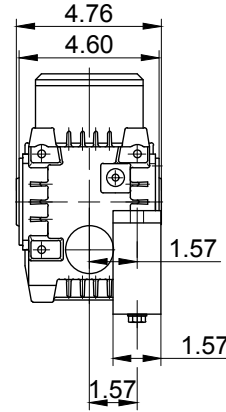
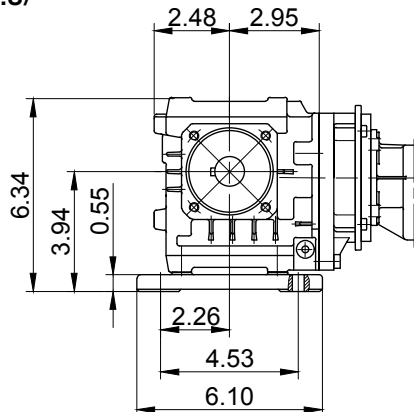
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

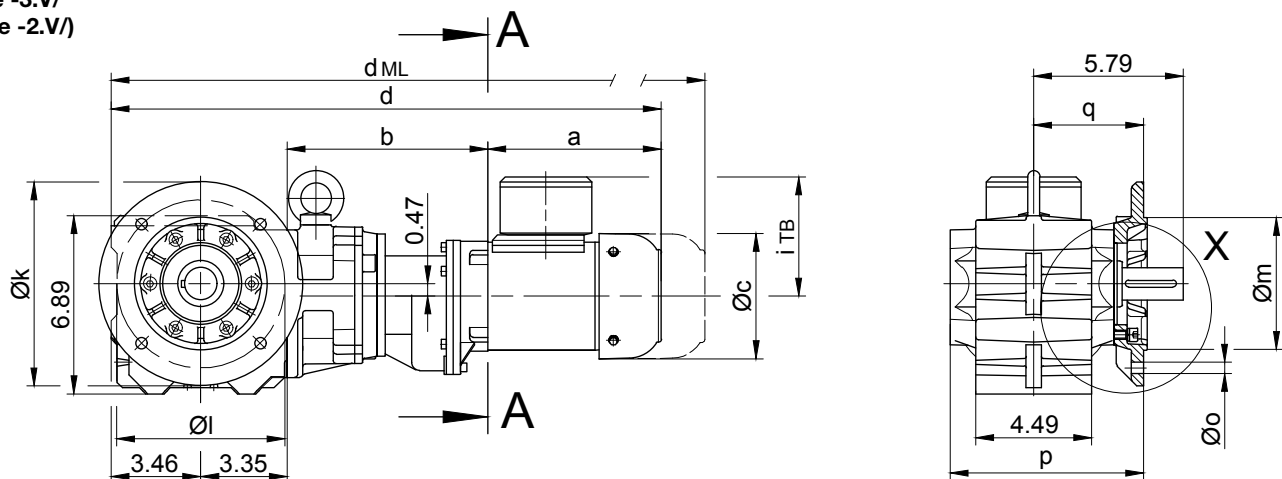
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

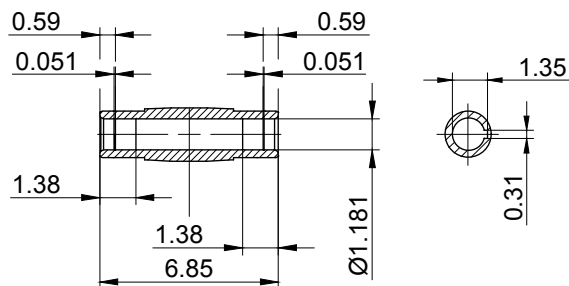
BS10G06

Flange with clearance holes at front

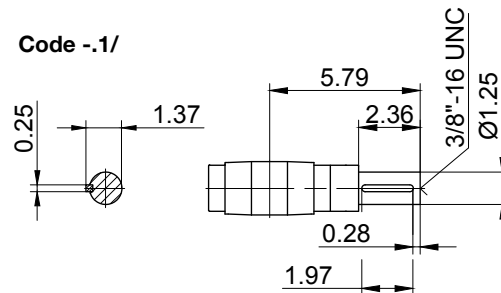
Code -3.V/
(Code -2.V/)



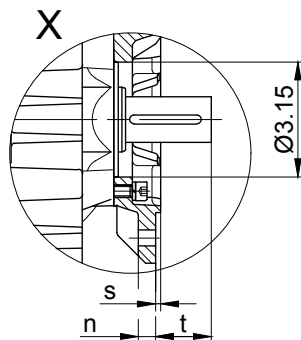
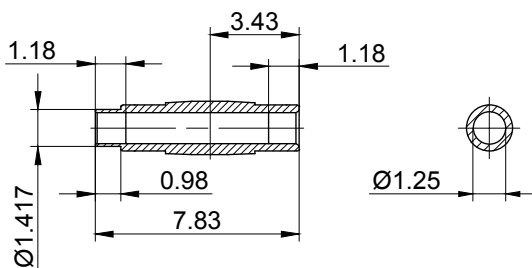
Code -4/



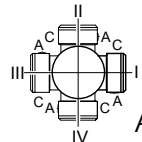
Code -1/



Code -5/

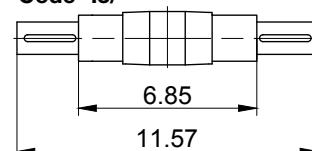


Standard



A-A

Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS10..	Code -3.V/	7.874	6.496	5.118	0.472	0.433	7.480	4.252	0.138	1.533	-
BS10..	Code -2.V/	6.299	5.118	4.331	0.394	0.354	7.205	3.976	0.138	1.809	-

Dimensions in inch

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	Design with motor extensions			
						i_{TB}	Brake	Encoder	Back Stop
BS10G06-.../D04.A.	5.61	7.68	4.35	20.10	3.54	4.41	d _{ML}	d _{ML}	d _{ML}
BS10G06-.../D05.A.	6.72	7.76	4.84	21.28	3.98	4.61	21.81	23.54	25.25
BS10G06-.../D06.A.	6.70	7.76	4.84	21.27	3.90	4.69	22.94	25.32	26.80
BS10G06-.../D07.A.	7.49	7.76	4.84	22.06	3.90	4.69	22.93	25.31	26.78
BS10G06-.../D08.A.	7.85	9.49	6.14	24.15	4.51	5.37	23.71	26.09	27.57
BS10G06-.../D08.B.	9.04	9.49	6.14	25.33	4.51	5.37	26.75	28.56	30.98
							27.93	29.74	32.15

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

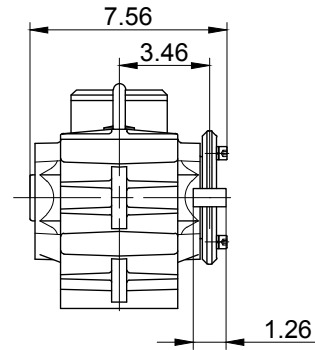
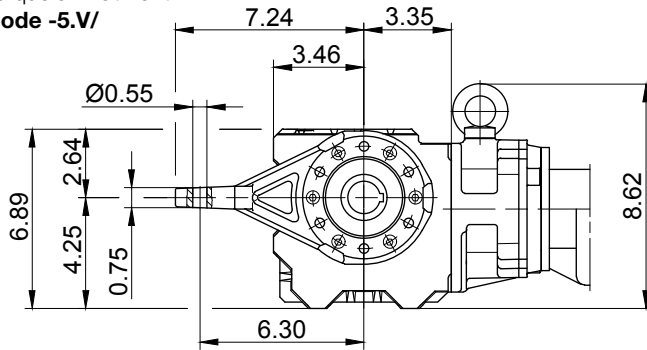
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

BS10G06

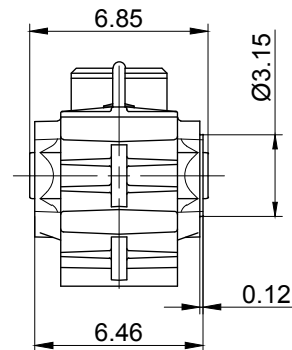
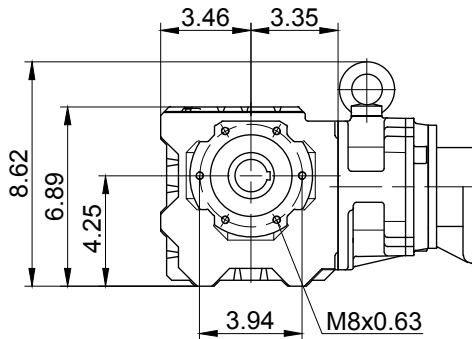
Torque arm at front

Code -5.V/



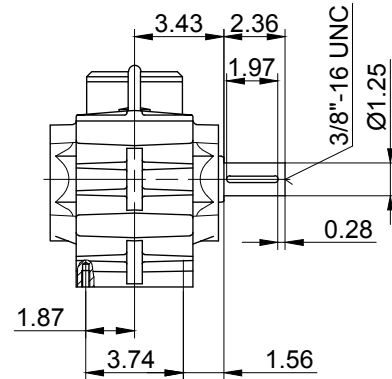
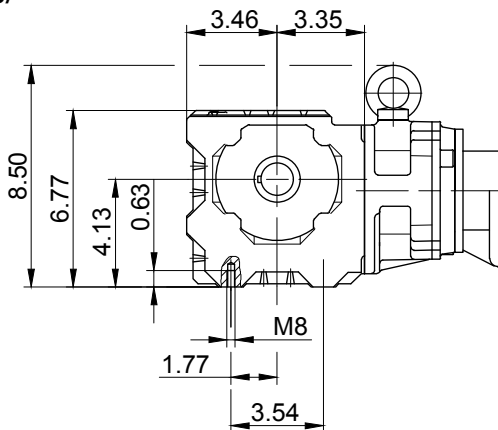
Flange with tapped holes at front

Code -7.V/



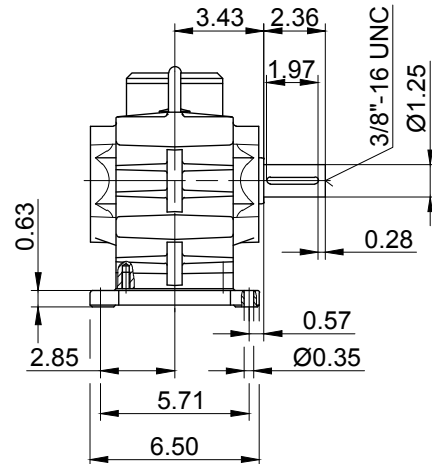
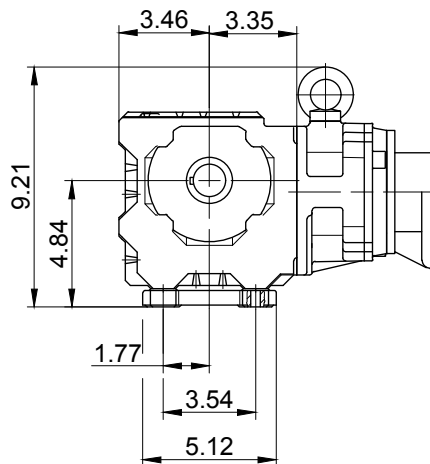
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Tandem Gearbox Imperial

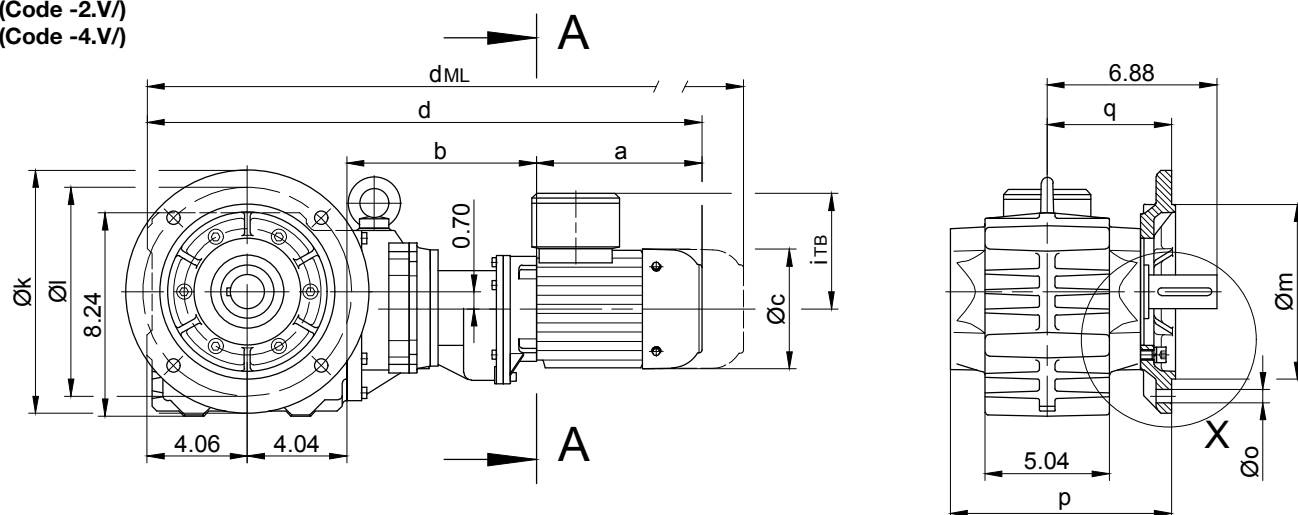
BS20G06

Flange with clearance holes at front

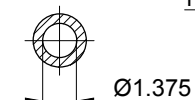
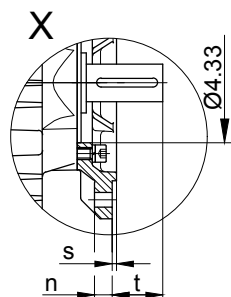
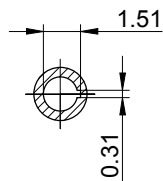
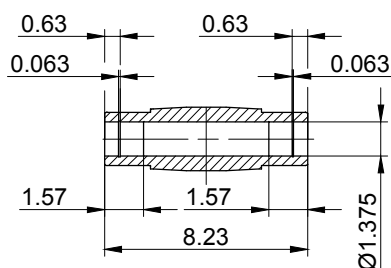
Code -3.V/

(Code -2.V/)

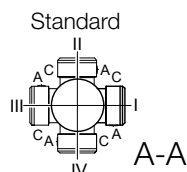
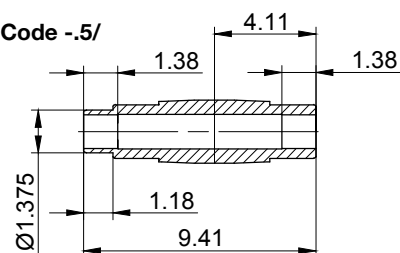
(Code -4.V/)



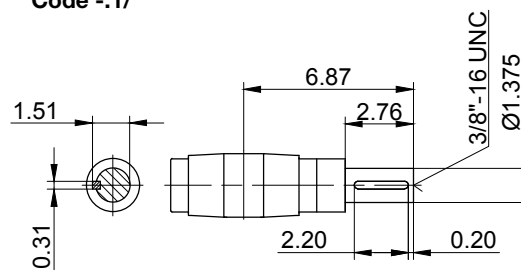
Code -.4/



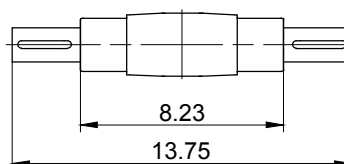
Code -.5/



Code -.1/



Code -.3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS20..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	8.957	5.039	0.157	1.835	-	
BS20..	Code -2.V/	7.874	6.496	5.118	0.472	0.433	8.839	4.921	0.138	1.953	-	
BS20..	Code -4.V/	11.811	10.433	9.055	0.787	0.531	9.193	5.276	0.157	1.599	-	
Dimensions in inch												

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BS20G06-../D04.A.	5.61	7.60	4.35	21.30	3.54	4.41	23.01	24.74	26.45	-
BS20G06-../D..05.A.	6.72	7.68	4.84	22.48	3.98	4.61	24.14	26.52	28.00	-
BS20G06-../D..06.A.	6.70	7.68	4.84	22.47	3.90	4.69	24.13	26.51	27.98	-
BS20G06-../D..07.A.	7.49	7.68	4.84	23.26	3.90	4.69	24.91	27.30	28.77	-
BS20G06-../D..08.A.	7.85	9.41	6.14	25.35	4.51	5.37	27.95	29.76	32.19	27.95
BS20G06-../D..08.B.	9.04	9.41	6.14	26.54	4.51	5.37	29.13	30.94	33.35	29.13

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

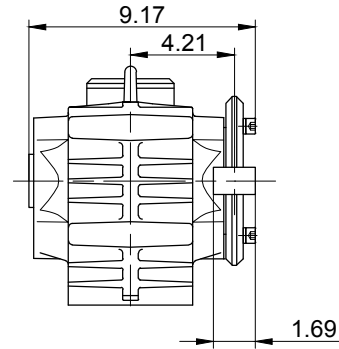
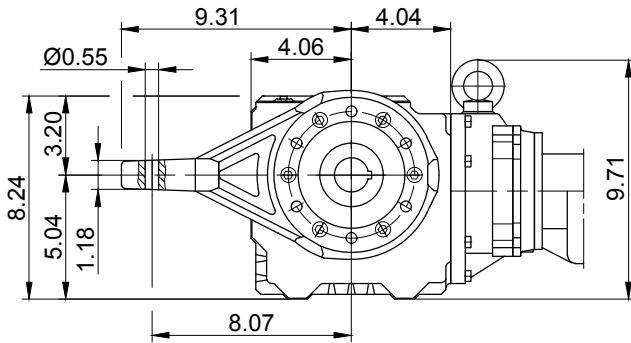
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

BS20G06

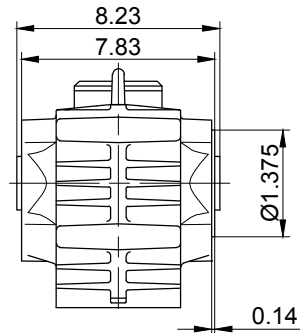
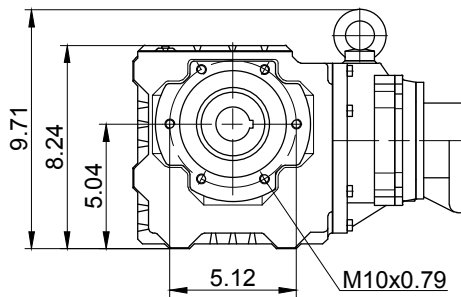
Torque arm at front

Code -5.V/



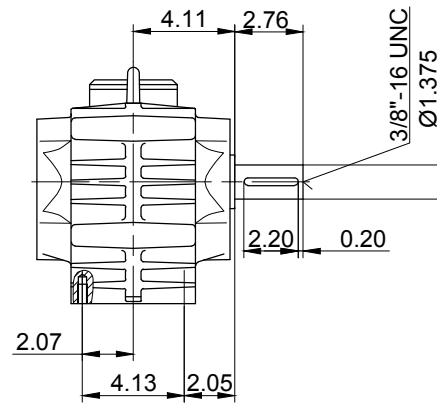
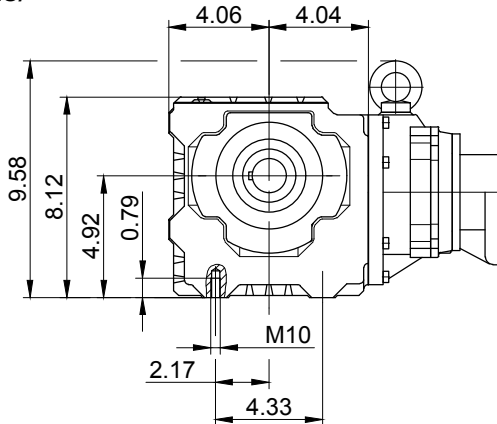
Flange with tapped holes at front

Code -7.V/



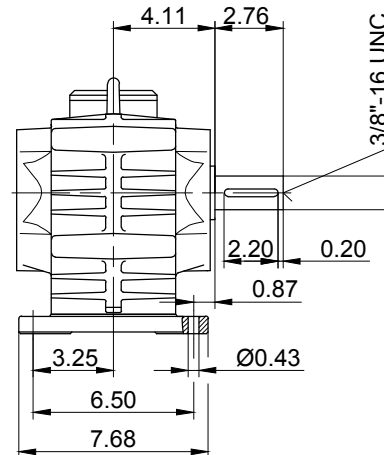
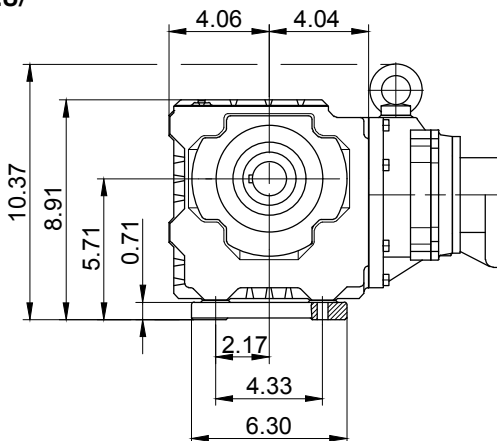
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

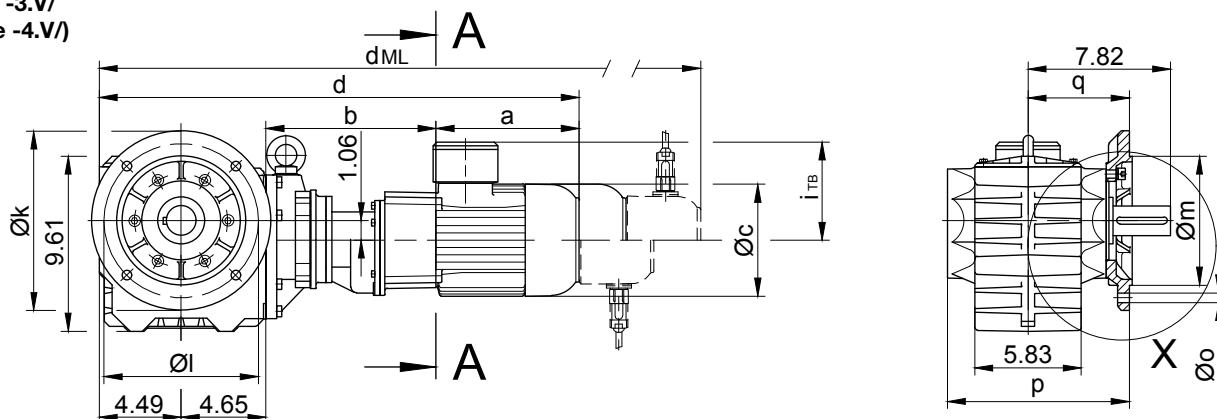
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

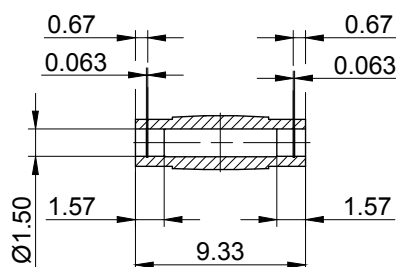
BS30G06

Flange with clearance holes at front

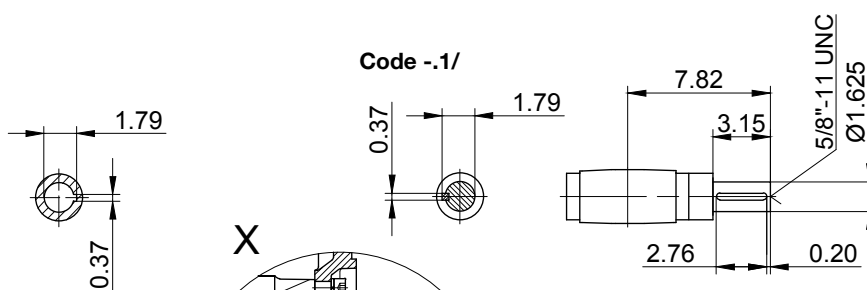
Code -3.V/
(Code -4.V/)



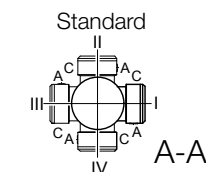
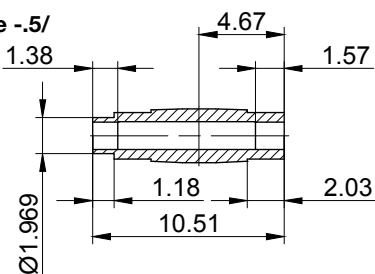
Code -4/



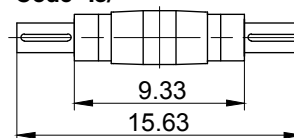
Code -1/



Code -5/



Code -3/



Flange Dimensions												Shaft extension tolerance: up to 1.5 in diameter: +0.000 / -0.0005 in over 1.5 in diameter: +0.000 / -0.001 in Flange spigot diameter: +0.0003 / -0.0015 in
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS30..	Code -3.V/	9.843	8.465	7.087	0.630	0.531	9.980	5.551	0.157	2.264	-	
BS30..	Code -4.V/	11.811	10.433	9.055	0.787	0.531	10.217	5.787	0.157	2.028	-	

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BS30G06-../D04.A.	5.61	7.52	4.35	22.26	3.54	4.41	23.98	25.70	27.42	-
BS30G06-../D..05.A.	6.72	7.60	4.84	23.45	3.98	4.61	25.10	27.48	28.96	-
BS30G06-../D..06.A.	6.70	7.60	4.84	23.44	3.90	4.69	25.09	27.47	28.95	-
BS30G06-../D..07.A.	7.49	7.60	4.84	24.22	3.90	4.69	25.88	28.26	29.74	-
BS30G06-../D..08.A.	7.85	9.33	6.14	26.32	4.51	5.37	28.92	30.73	33.15	28.92
BS30G06-../D..08.B.	9.04	9.33	6.14	27.50	4.51	5.37	30.10	31.91	34.31	30.10

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

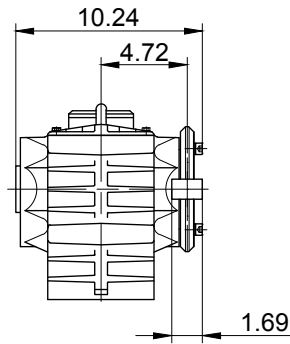
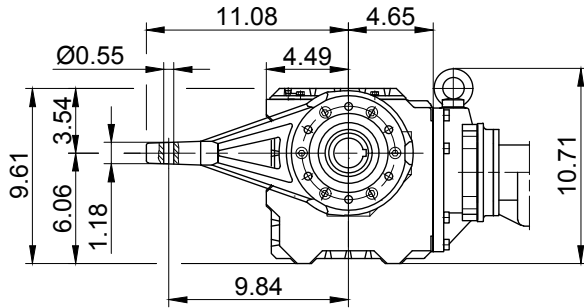
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

BS30G06

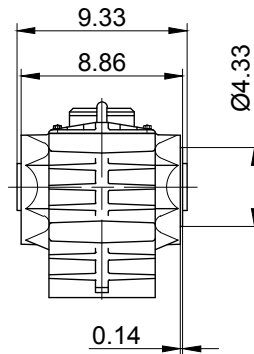
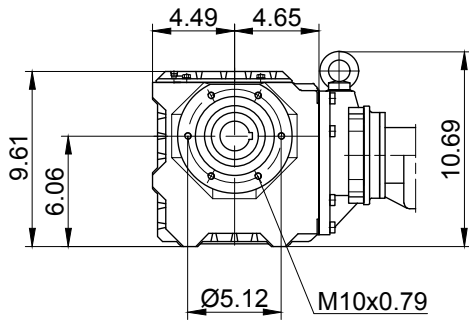
Torque arm at front

Code -5.V/



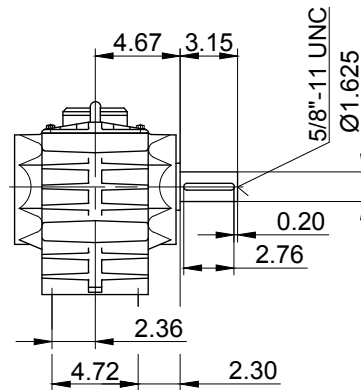
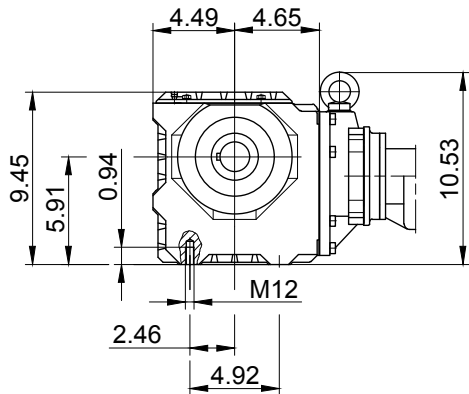
Flange with tapped holes at front

Code -7.V/



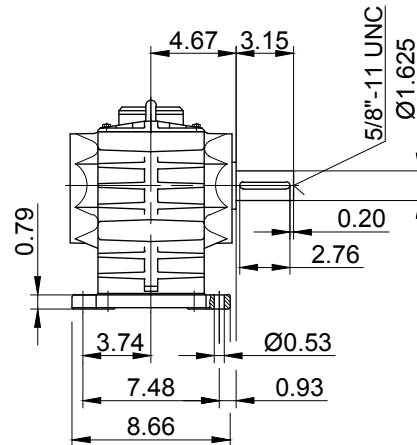
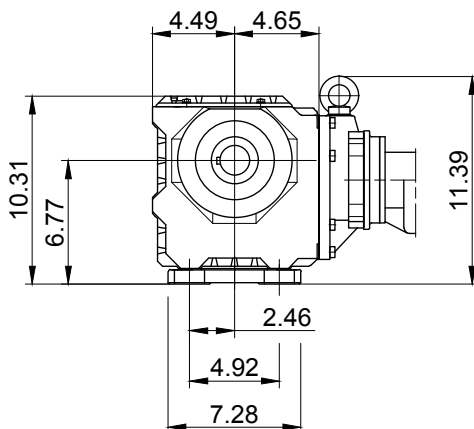
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

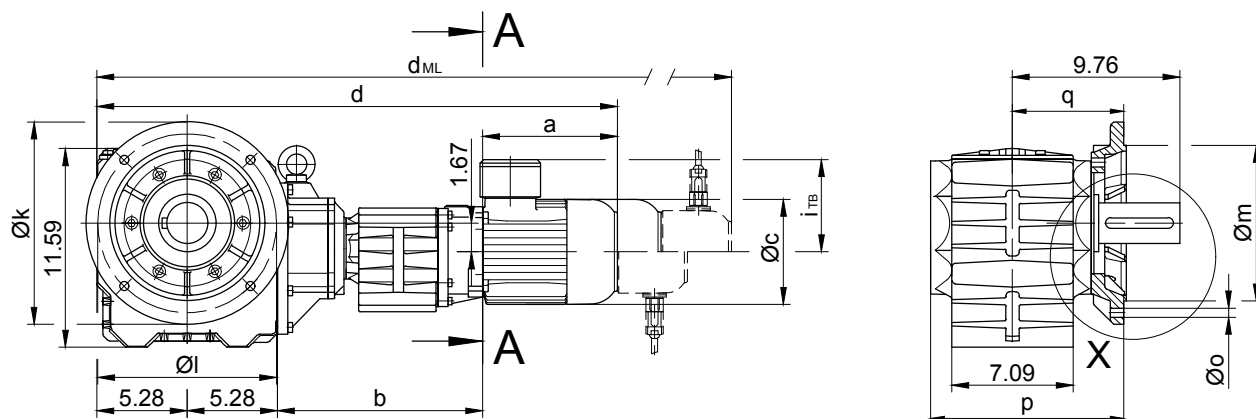
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

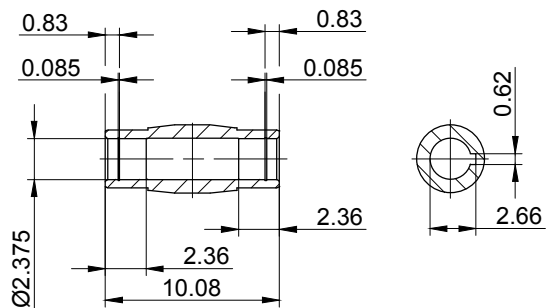
BS40G10

Flange with clearance holes at front

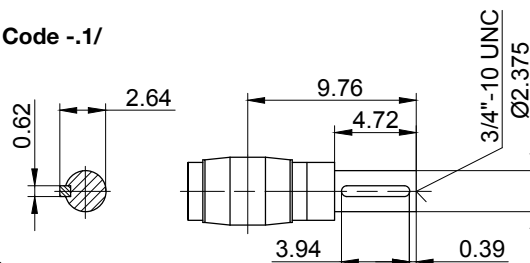
Code -3.V/



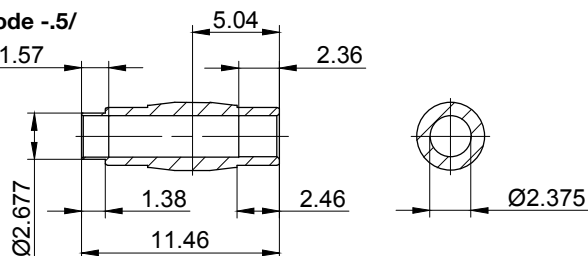
Code -4/



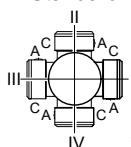
Code -1/



Code -5/

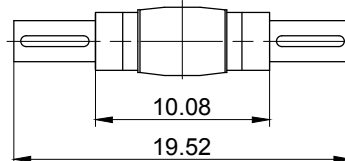


Standard



A-A

Code -3/



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS40..	Code -3.V/	11.811	10.433	9.055	0.787	0.531	11.260	6.496	0.157	3.263	-

Dimensions in inch

Shaft extension tolerance:

up to 1.5 in diameter: +0.000 / -0.0005 in

over 1.5 in diameter: +0.000 / -0.001 in

Flange spigot diameter: +0.0003 / -0.0015 in

Type	a	b	c	d	i	i _{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
BS40G10-.../D..05.A.	6.72	11.81	4.84	29.08	3.98	4.61	d _{ML} 30.73	d _{ML} 33.11	d _{ML} 34.59	-
BS40G10-.../D..06.A.	6.70	11.81	4.84	29.07	3.90	4.69	d _{ML} 30.72	d _{ML} 33.10	d _{ML} 34.58	-
BS40G10-.../D..07.A.	7.49	11.81	4.84	29.85	3.90	4.69	d _{ML} 31.51	d _{ML} 33.89	d _{ML} 35.37	-
BS40G10-.../D..08.A.	7.85	11.97	6.14	30.37	4.51	5.37	d _{ML} 32.97	d _{ML} 34.78	d _{ML} 37.20	32.97
BS40G10-.../D..08.B.	9.04	11.97	6.14	31.56	4.51	5.37	d _{ML} 34.15	d _{ML} 35.96	d _{ML} 38.37	34.15
BS40G10-.../D..09.A.	9.86	12.54	6.93	32.95	4.88	6.18	d _{ML} 36.61	d _{ML} 37.19	d _{ML} 40.71	36.61
BS40G10-.../D..09.B.	12.15	12.54	6.93	35.24	4.88	6.18	d _{ML} 38.90	d _{ML} 39.45	d _{ML} 43.00	38.90

Dimensions in inch

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

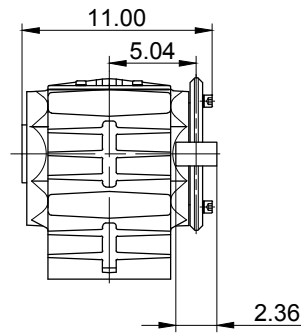
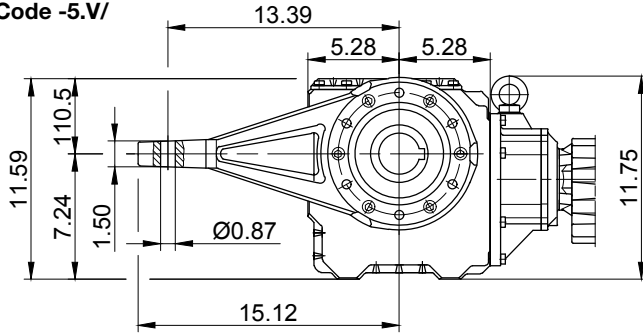
BS-series worm-geared motors

Dimension - Tandem Gearbox Imperial

BS40G10

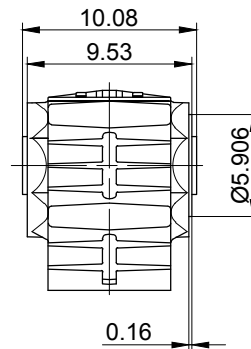
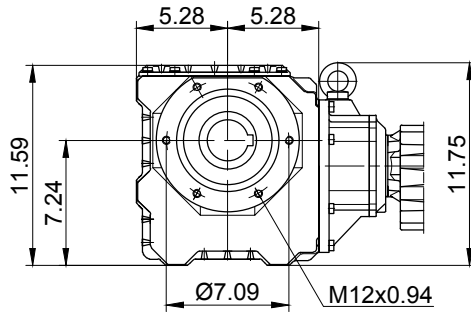
Torque arm at front

Code -5.V/



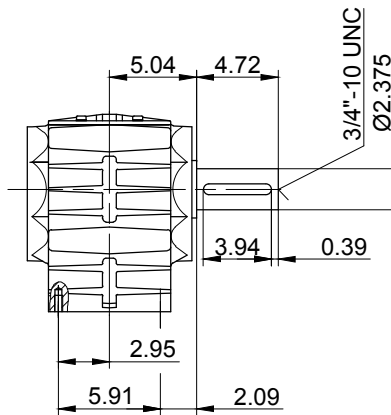
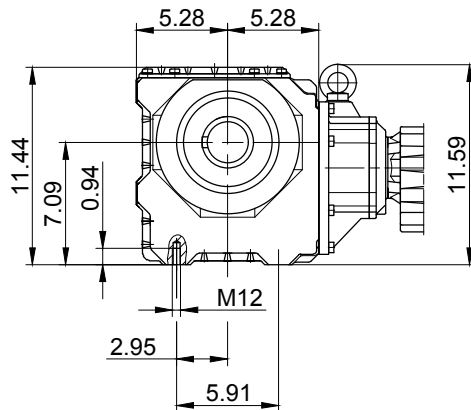
Flange with tapped holes at front

Code -7.V/



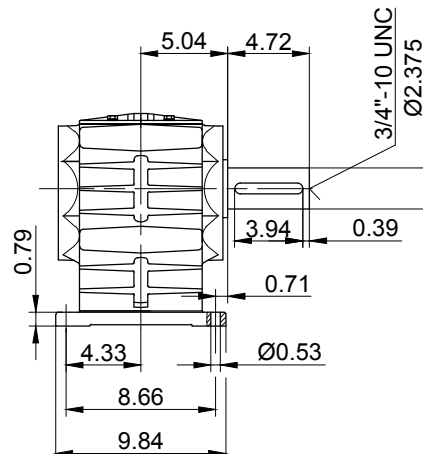
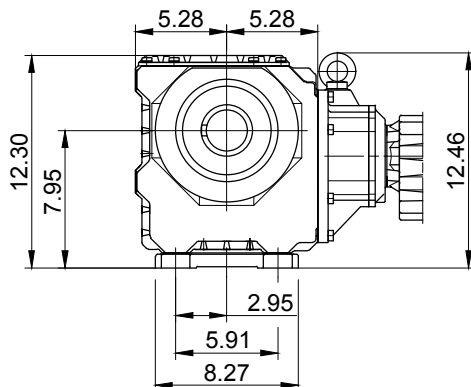
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



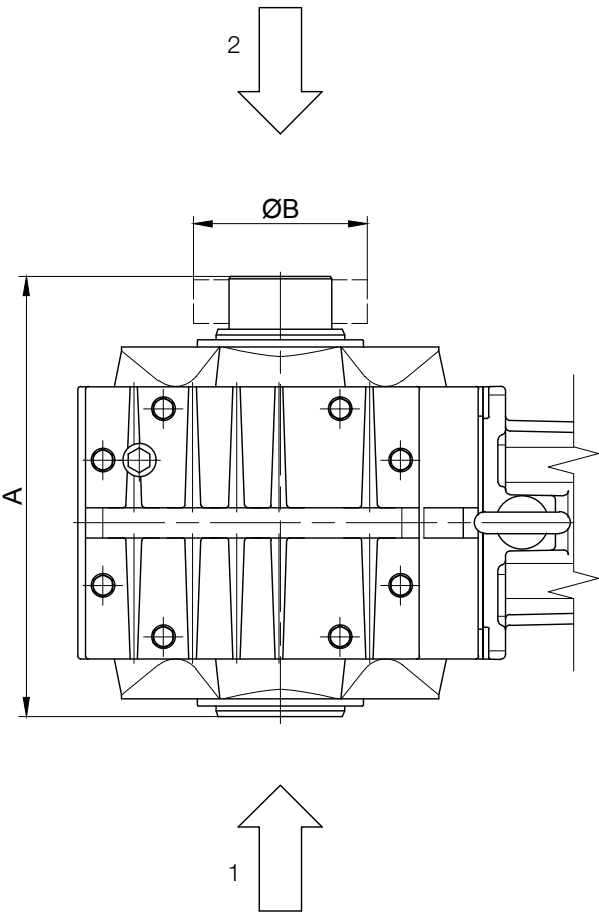
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Imperial

Shrink disc couplings (SSV)

(Code BS10Z-.5A/...)
(Code BK10Z-.5A/...)



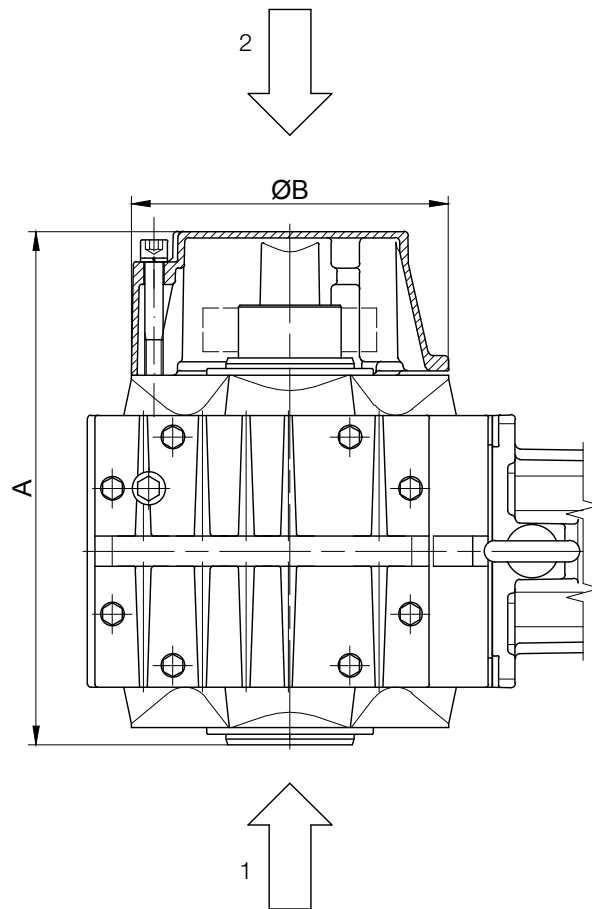
- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Typ	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	7.83	2.83
BS20	RfN 4161 044x080	HSD 44-22x44	9.41	3.15
BS30	RfN 4161 050x090	HSD 50-22x50	10.51	3.54
BS40	RfN 4161 062x110	HSD 68-22x68	11.46	4.53
Dimensions in inch				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc couplings with (SSV) cover

(Code BS10-.5A/...)
(Code BS10Z-.5A/...)



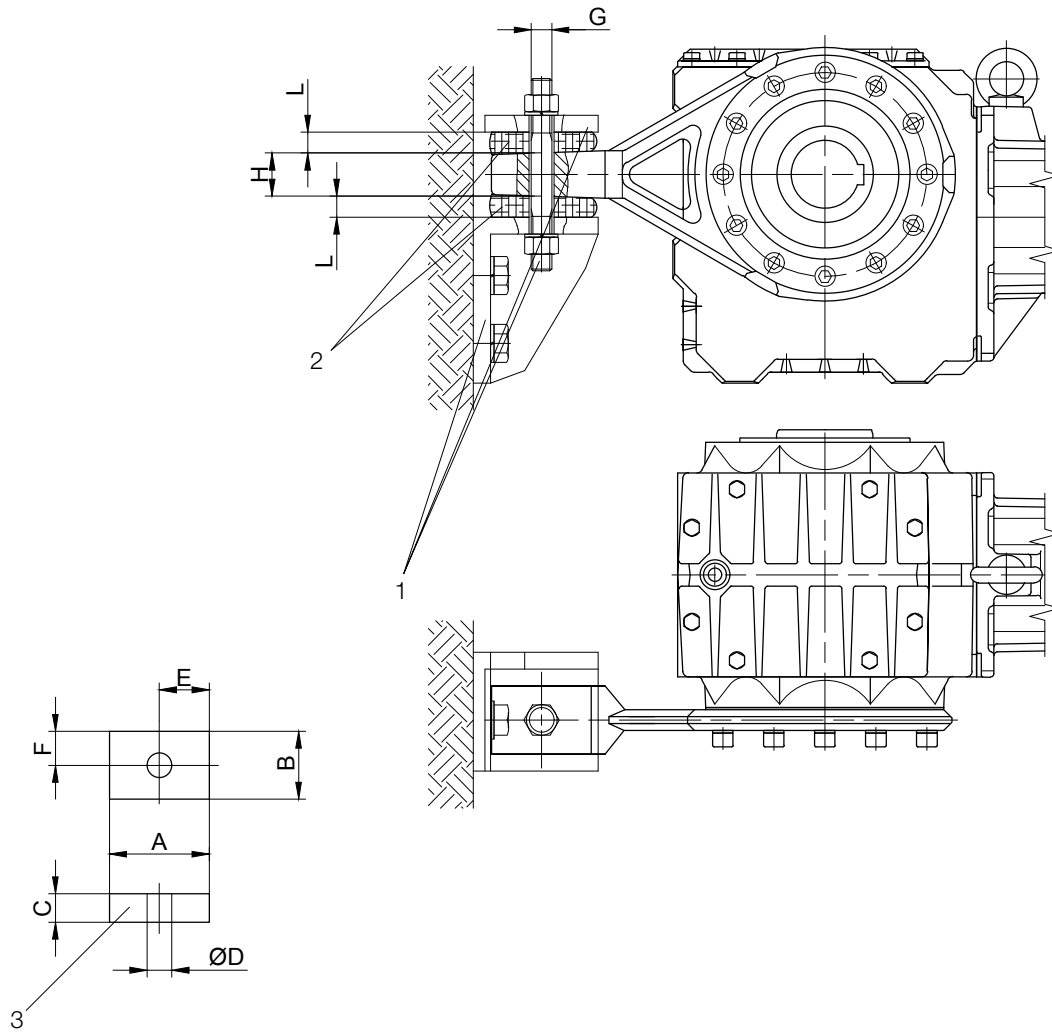
- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Typ	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	8.70	4.72
BS20	RfN 4161 044x080	HSD 44-22x44	11.26	6.30
BS30	RfN 4161 050x090	HSD 50-22x50	12.32	6.30
BS40	RfN 4161 062x110	HSD 68-22x68	13.39	8.27
Dimensions in inch				

BS-series worm-geared motors

Additional Dimension Sheet Imperial

Rubber buffer for torque restraint



1 not included in delivery

2 Rubber buffers pretensioned

3 Rubber buffer - only for BS03-BS40

G maximaler Schraubendurchmesser

Material: Natural rubber Hardness 50 +/-5 Shore A

Dimensions of the transverse hole: See dimensioned sketch of the respective shaft mounted gearbox

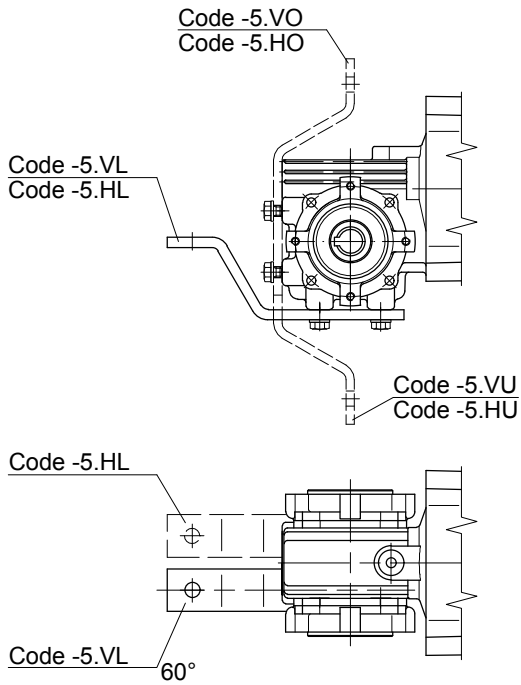
Gear	Position	A	B	C	D	E	F	G	H	L
BS02	-	-	-	-	-	-	-	M8	0.24	-
BS03	Position 0	1.18	1.18	0.47	0.47	0.59	0.59	M8	0.39	0.41
BS04	Position 0	1.18	1.18	0.47	0.47	0.59	0.59	M8	0.39	0.41
BS06	Position 0	1.18	1.18	0.47	0.47	0.59	0.59	M10	0.39	0.39
BS10	Position 1	1.89	1.26	0.59	0.55	0.94	0.63	M10	0.75	0.51
BS20	Position 2	2.48	1.69	0.79	0.55	1.24	0.85	M10	1.18	0.69
BS30	Position 2	2.48	1.69	0.79	0.55	1.24	0.85	M10	1.18	0.67
BS40	Position 3	3.46	2.36	0.98	0.87	1.73	1.18	M18	1.50	0.87

Dimensions in inch

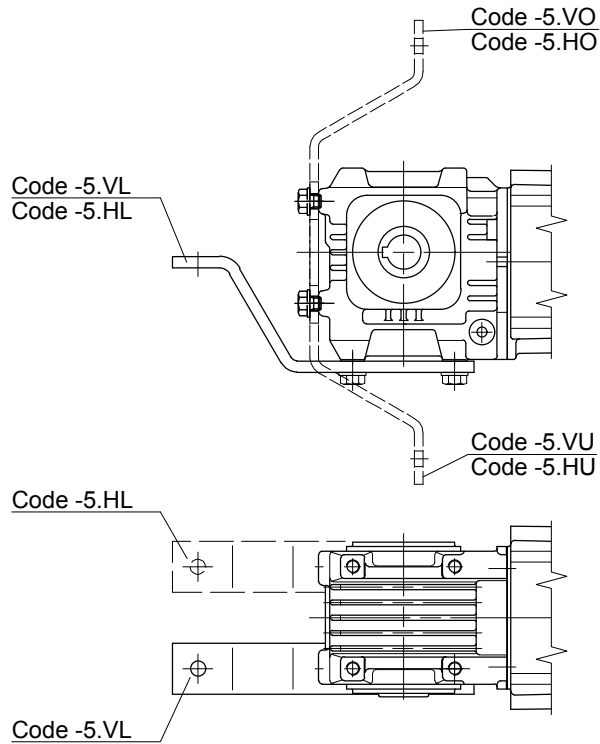
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Position of the torque arm

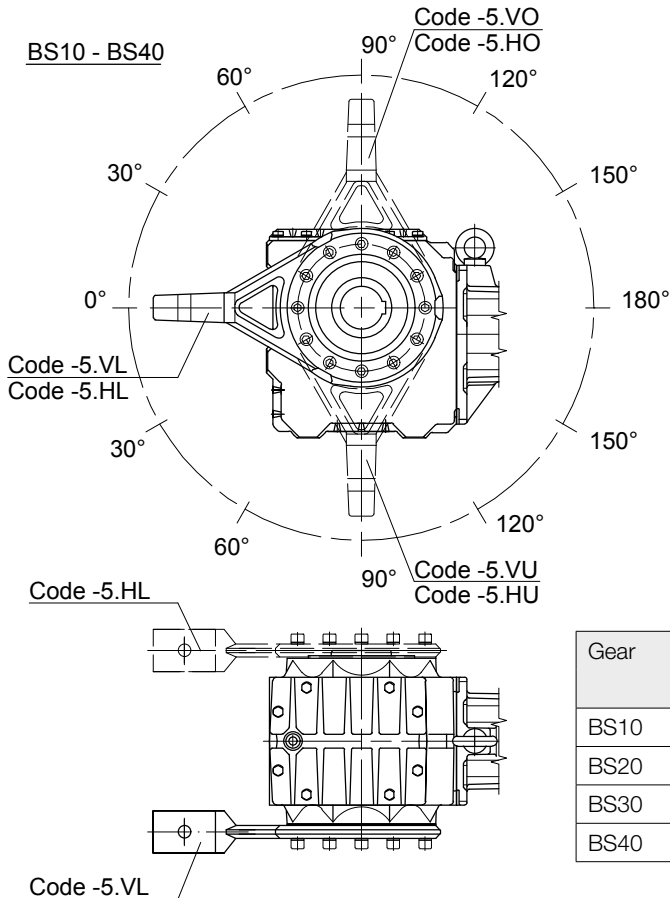
BS02 / BS03



BS04 / BS06



BS10 - BS40



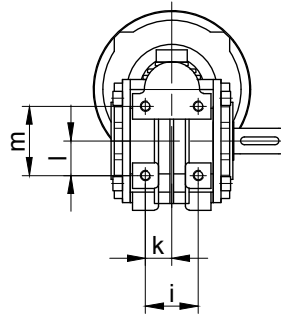
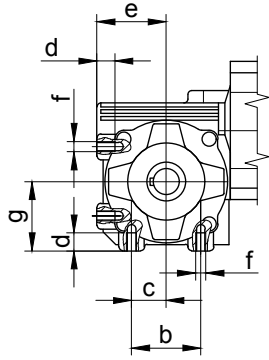
Gear	Position						
	VL/HL	VO/HO/VU/HU					VR/HR
BS10	0°	30°	60°	90°	120°	150°	-
BS20	0°	30°	60°	90°	120°	150°	-
BS30	0°	30°	60°	90°	120°	150°	-
BS40	0°	30°	60°	90°	120°	150°	-

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

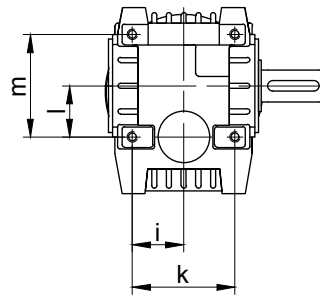
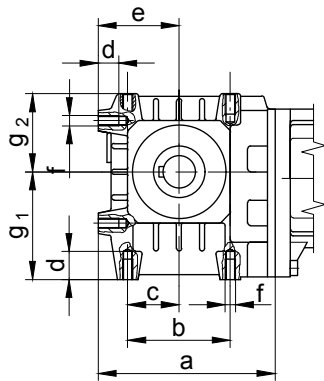
BS-series worm-geared motors

Additional Dimension Sheet Imperial

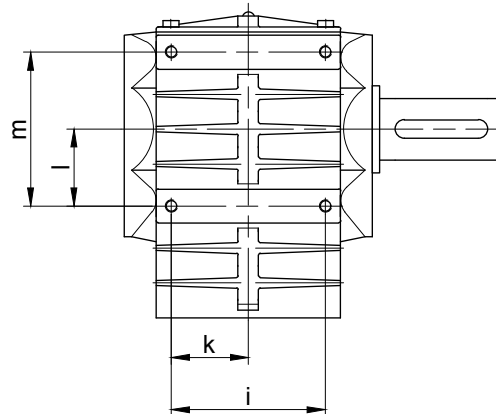
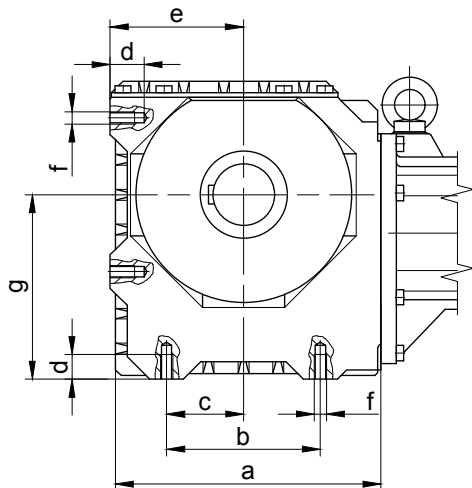
Threaded foot



Type	a	b	c	d	e	f	g	-	i	k	l	m
BS02	-	1.42	0.71	0.39	1.57	M6	1.57	-	1.26	0.63	0.71	1.42
BS03	-	2.13	1.06	0.55	2.13	M8	2.13	-	1.61	0.81	1.06	2.13



Type	a	b	c	d	e	f	g ₁	g ₂	i	k	l	m
BS04	4.37	2.36	1.18	0.61	1.97	M8	2.52	1.95	1.18	2.36	1.18	2.36
BS06	5.43	3.15	1.57	0.63	2.48	M8	3.31	2.40	1.57	3.15	1.57	3.15



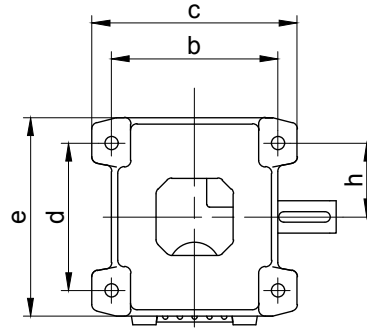
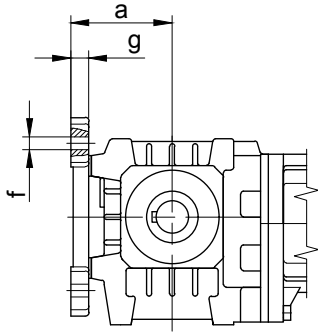
Type	a	b	c	d	e	f	g	-	i	k	l	m
BS10-BS10Z	6.69	3.54	1.77	0.63	3.35	M8	4.13	-	3.74	1.87	1.77	3.54
BS20-BS20Z	7.97	4.33	2.17	0.79	3.94	M10	4.92	-	4.13	2.07	2.17	4.33
BS30-BS30Z	8.98	4.92	2.46	0.94	4.33	M12	5.91	-	4.72	2.36	2.46	4.92
BS40-BS40Z	10.39	5.91	2.95	0.94	5.12	M12	7.09	-	5.91	2.95	2.95	5.91

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

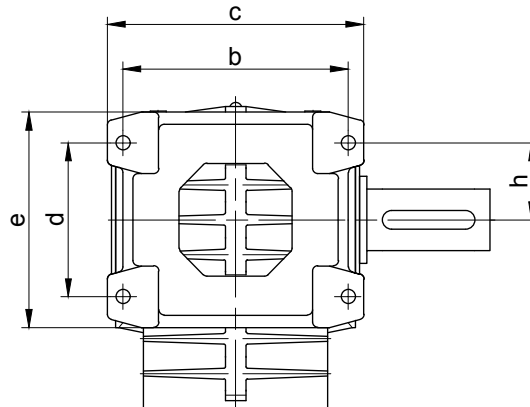
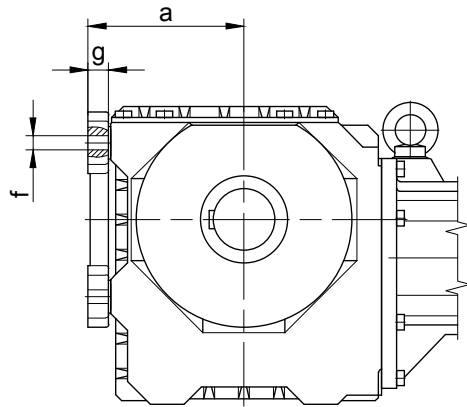
BS-series worm-gearbed motors

Additional Dimension Sheet Imperial

Foot plate, left



Type	a	b	c	d	e	f	g	h
BS04	2.68	4.33	5.51	3.54	5.12	0.39	0.59	1.77
BS06	3.11	5.12	6.30	4.53	6.10	0.39	0.55	2.26



13

Type	a	b	c	d	e	f	g	h
BS10-BS10Z	4.06	5.71	6.50	3.54	5.12	Ø0.35	0.63	2.85
BS20-BS20Z	4.72	6.50	7.68	4.33	6.30	Ø0.43	0.71	2.17
BS30-BS30Z	5.20	7.48	8.66	4.92	7.28	Ø0.53	0.79	2.46
BS40-BS40Z	5.98	8.66	9.84	5.91	8.27	Ø0.53	0.79	2.95

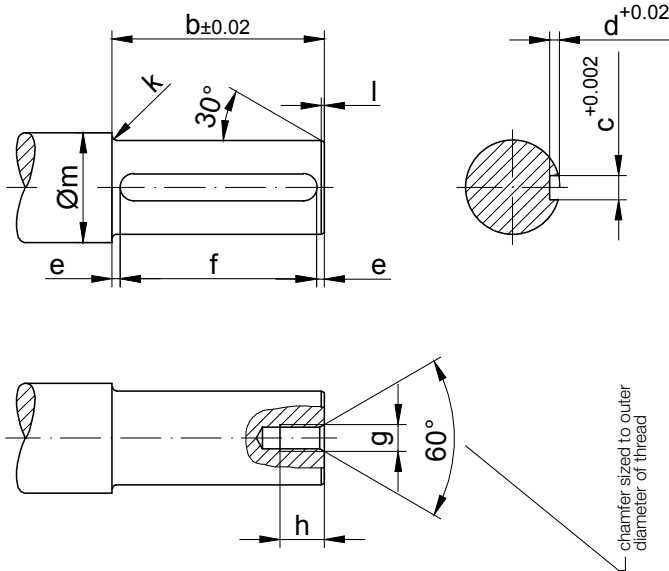
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

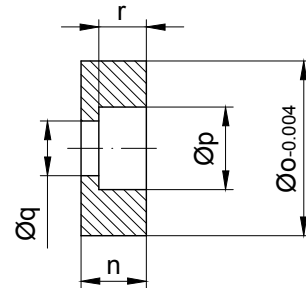
Additional Dimension Sheet Imperial

Assembly tools for hollow shaft and keyway

Position 1 Shaft



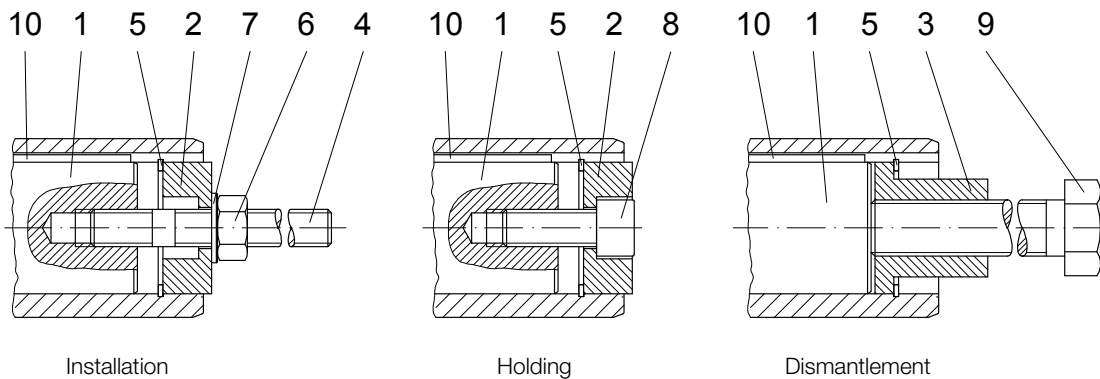
* Position 2 Disc



✓, Edges cut
Material: C45 DIN 17200

Shaft extension tolerance:
up to 1.5 in diameter: $+0.000 / -0.0005$ in
over 1.5 in diameter: $+0.000 / -0.001$ in
Flange spigot diameter: $+0.0003 / -0.0015$ in

Type	Dimensions (inch)															
	Position 1 Shaft											Position 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BS03	0.75	2.95	0.188	0.106	0.235	2.48	M6	0.63	0.08	0.06	1.10	0.53	0.74	0.43	0.26	0.26
BS04	0.75	2.80	0.188	0.141	0.30	2.20	M6	0.63	0.08	0.06	1.10	0.53	0.74	0.43	0.26	0.26
BS06	1.00	3.90	0.25	0.138	0.375	0.315	M8	0.71	0.10	0.06	1.30	0.53	0.99	0.59	0.35	0.33
BS10	1.25	5.98	0.25	0.138	0.235	5.51	M10	0.79	0.12	0.06	1.50	0.59	1.24	0.71	0.43	0.39
BS20	1.375	7.32	0.313	0.174	0.51	6.30	M10	0.79	0.12	0.06	1.69	0.63	1.365	0.71	0.43	0.39
BS30	1.50	8.35	0.375	0.211	0.24	7.87	M12	0.87	0.12	0.08	1.89	0.71	1.49	0.79	0.53	0.47
BS40	2.375	8.94	0.625	0.282	0.535	7.87	M20	1.50	0.14	0.08	2.68	0.94	2.365	1.30	0.87	0.71



The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos.9 against loosening!

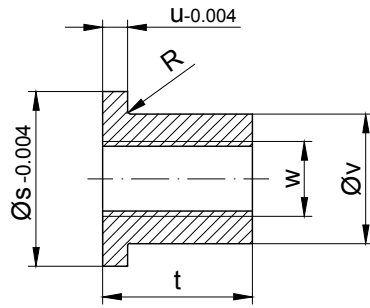
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Imperial

Assembly tools for hollow shaft and keyway

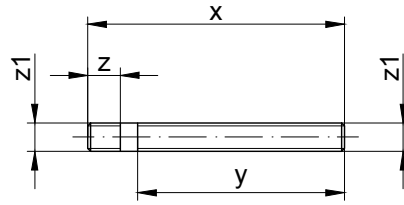
Position 3 Sleeve



✓, Edges cut
Material: C45 DIN 17200

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

* Position 4 Stud bolt



Material: Steel, tensile strength
≥ 1000N/mm²
Threads rolled

Type	Dimensions (inch)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1							
	s	t	u	v	w	R	x	y	z	z1	Pos.5	Pos.6	Pos.7	Pos.8		Pos.9	Pos.10
BS03	0.74	0.94	0.20	0.43	M8	-	4.72	3.54	0.71	M6	20x1.0	M6	6.4	M6x25	44.25	M8x110	3/16x3/16x2.48
BS04	0.74	0.94	0.20	0.43	M8	-	4.72	3.54	0.71	M6	20x1.0	M6	6.4	M6x25		M8x110	3/16x3/16x2.2
BS06	0.99	0.94	0.20	0.61	M12	0.03	5.91	4.72	0.79	M8	25x1.2	M8	8.4	M8x30		M12x140	1/4x1/4x3.15
BS10	1.24	1.10	0.20	0.78	M14	0.03	8.27	6.89	0.91	M10	30x1.2	M10	10.5	M10x30	70.81	M14x190	1/4x1/4x5.51
BS20	1.365	1.10	0.20	0.91	M14	-	9.84	8.46	0.91	M10	35x1.5	M10	10.5	M10x35		M14x230	5/16x5/16x6.3
BS30	1.49	1.57	0.24	1.09	M20	0.03	11.02	9.45	1.10	M12	40x1.75	M12	13	M12x35	141.61	M20x270	3/8x3/8x7.87
BS40	2.365	2.36	0.24	1.73	M30	-	12.60	10.24	1.77	M20	60x2.0	M20	21	M20x50	371.73	M30x310	5/8x5/8x7.87
The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit. Suitable measures are to be used to secure Bolt Pos. 8 against loosening!																	

Optional

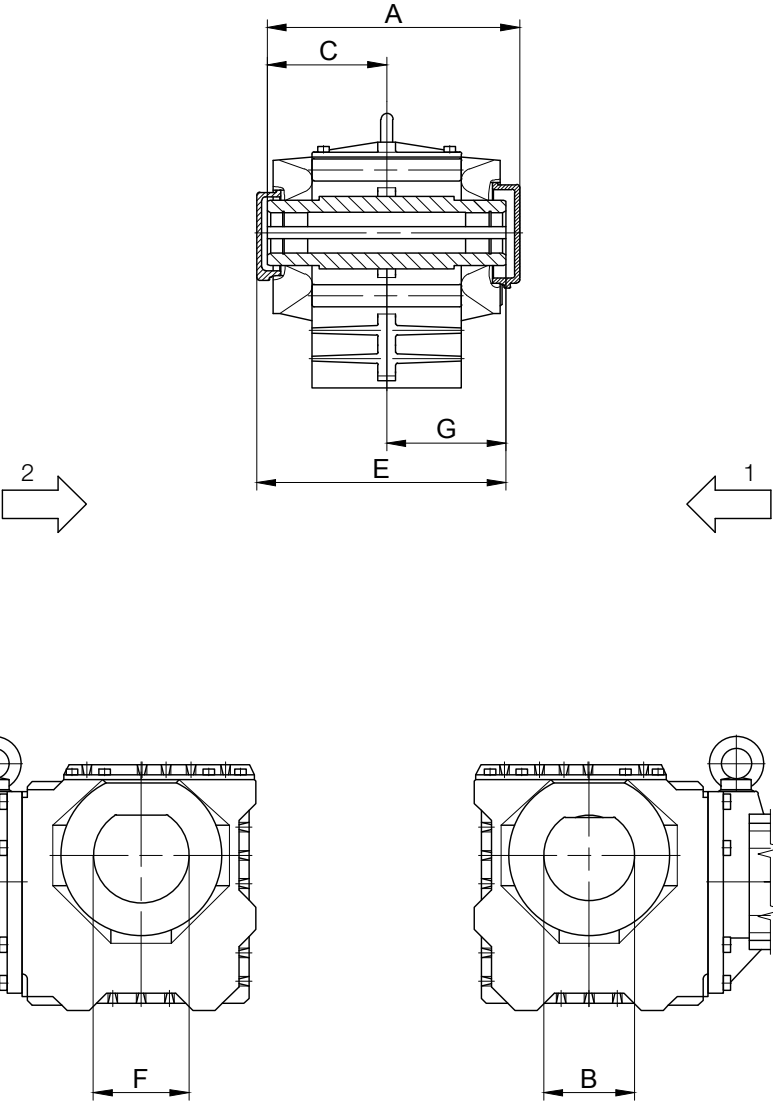
Type	Order text
BS03	Available only on request
BS04	Available only on request
BS06	Available only on request
BS10	Available only on request
BS20	Available only on request
BS30	Available only on request
BS40	Available only on request

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Imperial

Shaft cap (VK)



- 1 Gear side FRONT (V)
- 2 Gear side REAR (H)

Sealing cap REAR (H)			
Type	A	B	C
BS10	7.32	2.68	3.43
BS30	9.86	3.94	5.20
BS40	10.87	5.12	5.04
Dimensions in inch			

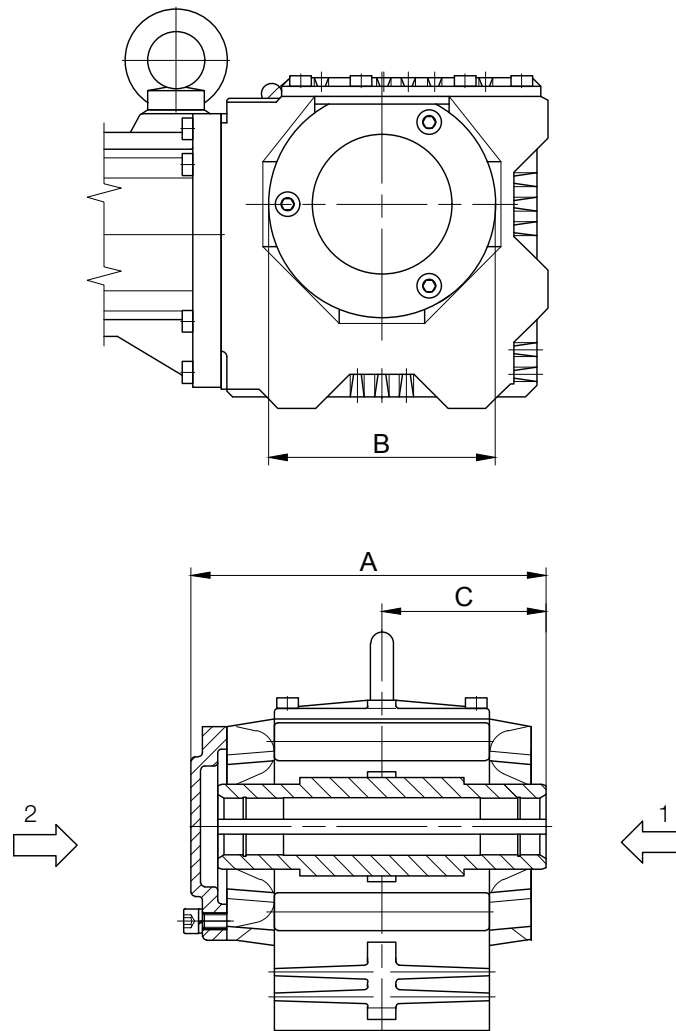
Sealing cap FRONT (V)			
Type	E	F	G
BS20	8.70	3.07	4.11
Dimensions in inch			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Imperial

Shaft cover (VD)



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BS04	3.92	2.68	1.83
BS06	5.06	3.19	2.38
BS10	7.28	Ø4.72	3.43
BS20	8.84	Ø6.30	4.11
BS30	9.90	Ø6.30	4.67
BS40	10.83	Ø8.27	5.04
Dimensions in inch			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

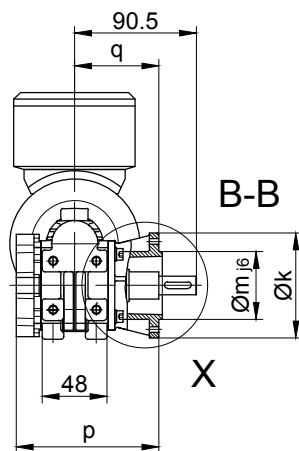
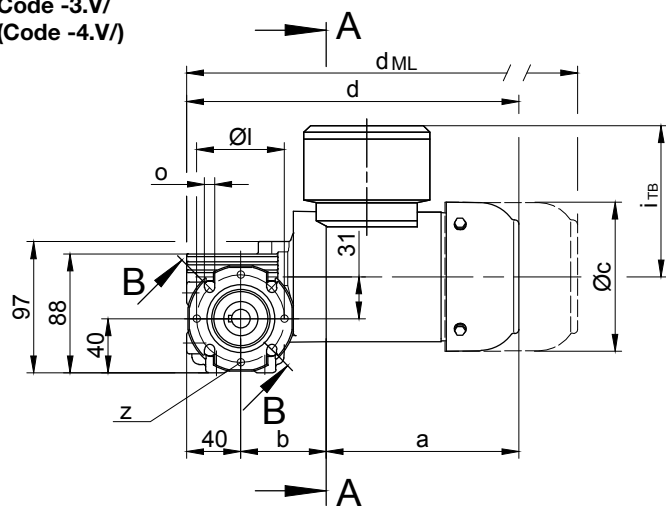
BS-series worm-geared motors

Dimension - Standard Metric

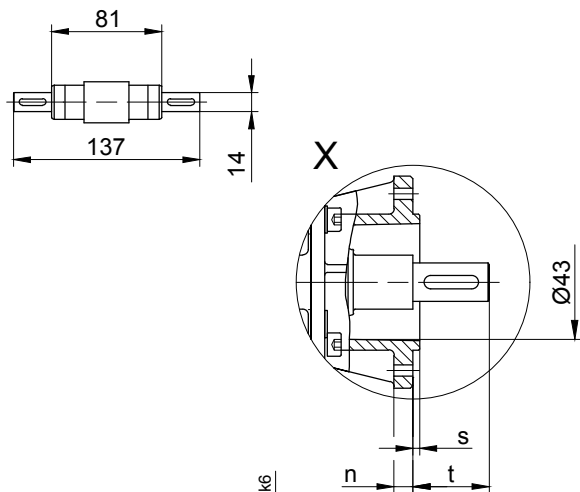
BS02

Flange with clearance holes at front

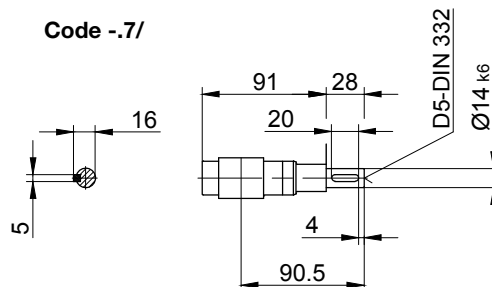
Code -3.V/
(Code -4.V/)



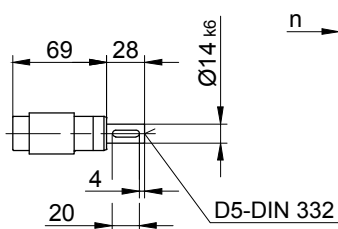
Code -3/



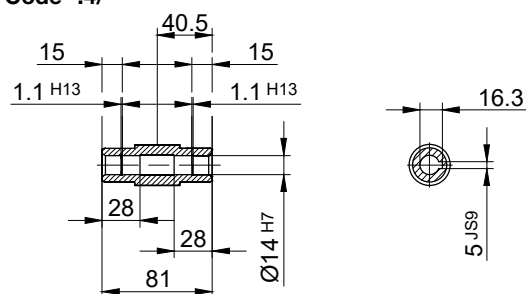
Code -7/



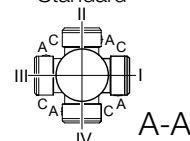
Code -1/



Code -4/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS02	Code -37V/	80	65	50	7.5	5.5	105.5	62.5	2.5	28	-
BS02	Code -37V/	80	65	50	7.5	5.5	105.5	62.5	2.5	28	4xM5
BS02	Code -47V/	110	80	60	8	6.6	105.5	62.5	2.5	28	-
BS02	Code -47V/	110	80	60	8	6.6	105.5	62.5	2.5	28	4xM6

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS02-../D04.A.	142.5	63.5	110.5	246	90	112	289.5	333.5	377	-
BS02-../D..05.A.	170.5	65.5	123	276	101	117	318	378.5	416	-
BS02-../D..06.A.	170.5	65.5	123	276	99	119	318	378.5	416	-
BS02-../D..07.A.	190.5	65.5	123	296	99	119	338	398.5	436	-

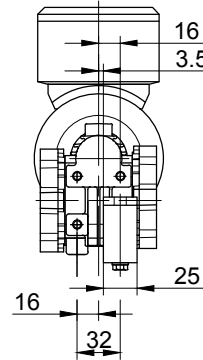
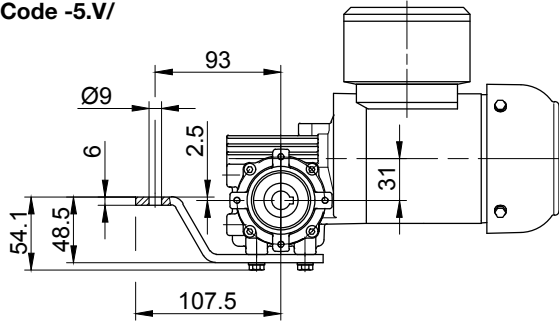
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS02

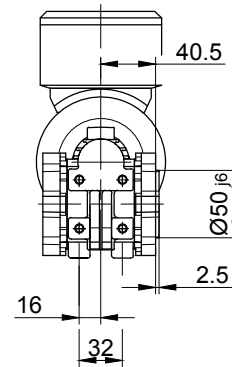
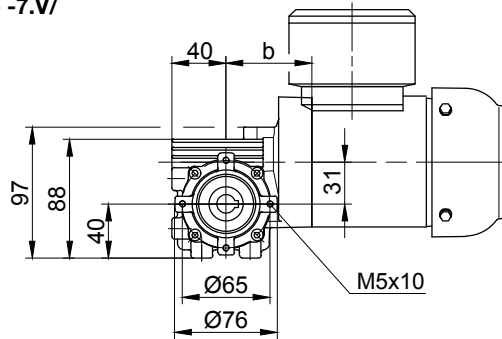
Torque arm at front

Code -5.V/



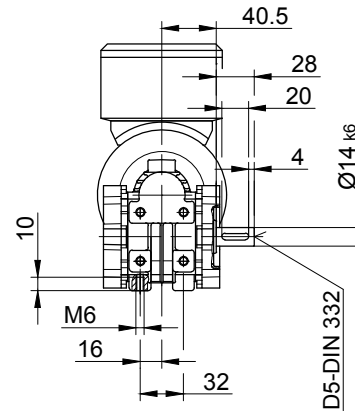
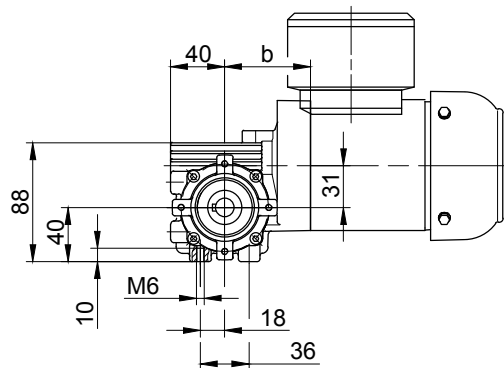
Foot with tapped holes at front

Code -7.V/



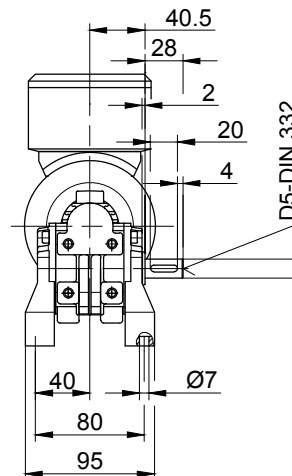
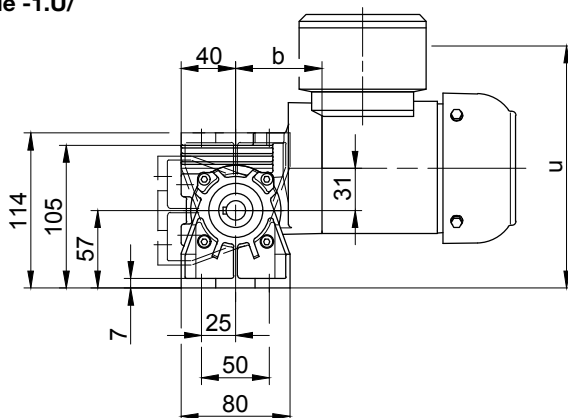
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



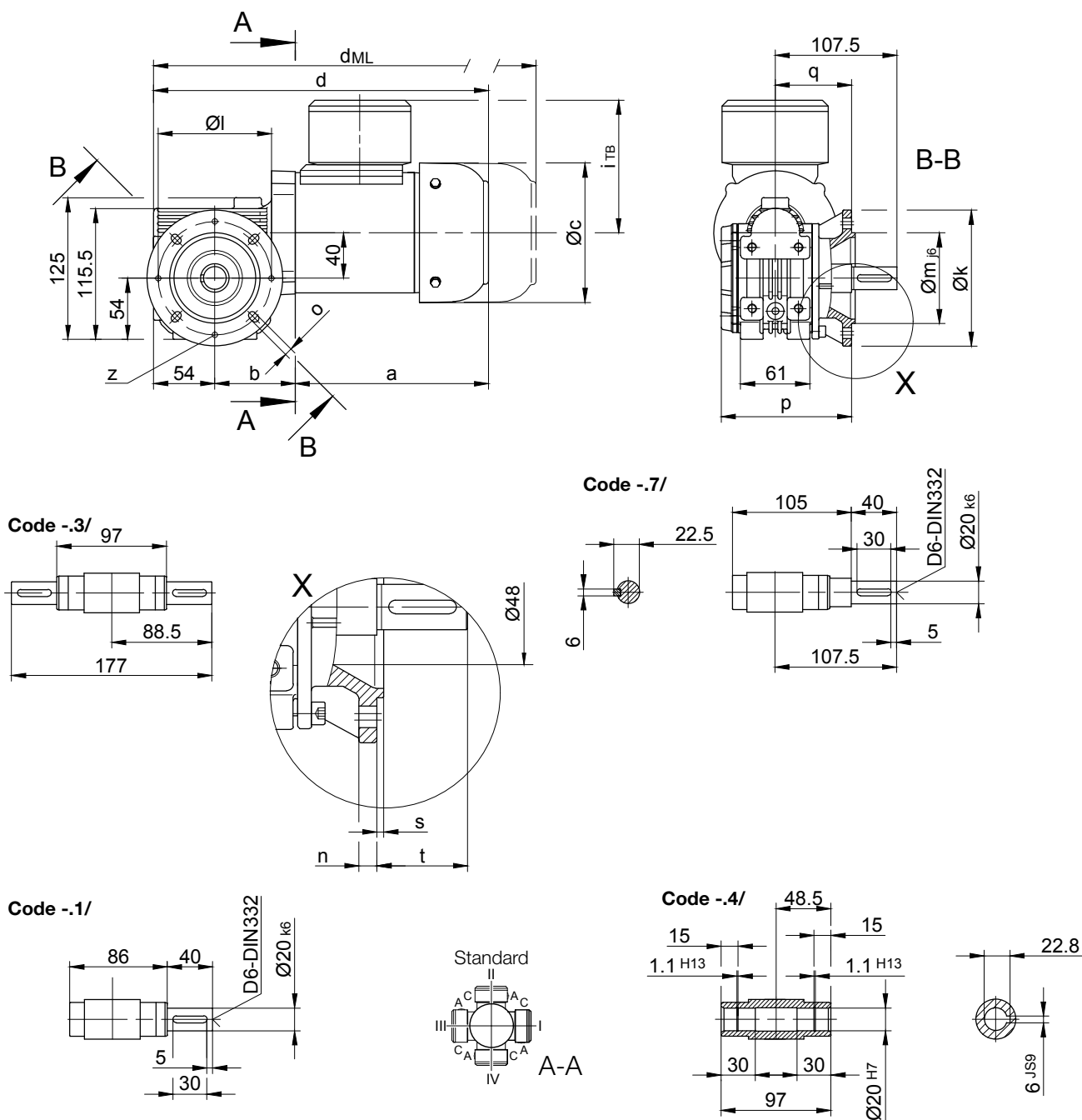
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

BS03

Flange with clearance holes at front

Code -3.V/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS03	Code -37V/	120	100	80	8	6.6	115	67.5	3	40	-
BS03	Code -37V/	120	100	80	8	6.6	115	67.5	3	40	4xM6

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BS03-../D..05.A.	170.5	71	123	295.5	101	117	337.5	398	435.5	-
BS03-../D..06.A.	170.5	71	123	295.5	99	119	337.5	398	435.5	-
BS03-../D..07.A.	190.5	71	123	315.5	99	119	337.5	418	455.5	-
BS03-../D..08.A.	199.5	115	156	368.5	114.5	136.5	434.5	480.5	542	434.5
BS03-../D..08.B.	229.5	115	156	398.5	114.5	136.5	464.5	510.5	571.5	464.5

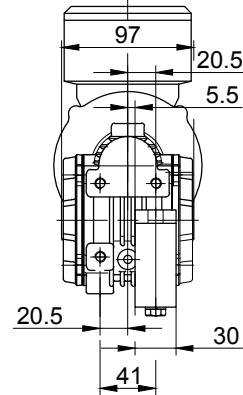
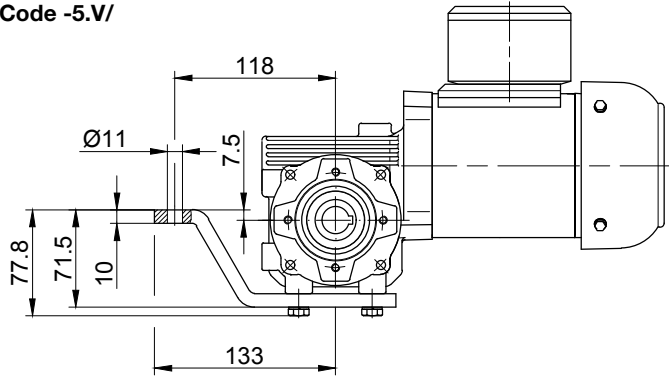
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS03

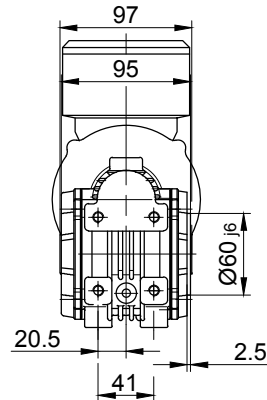
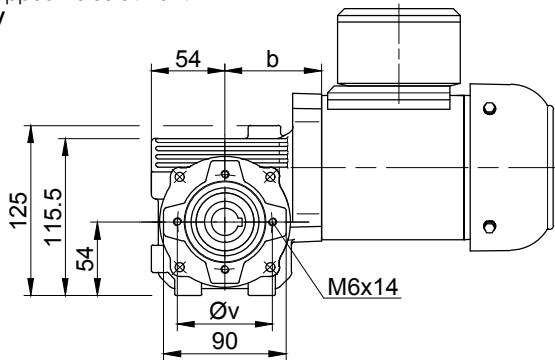
Torque arm at front

Code -5.V/



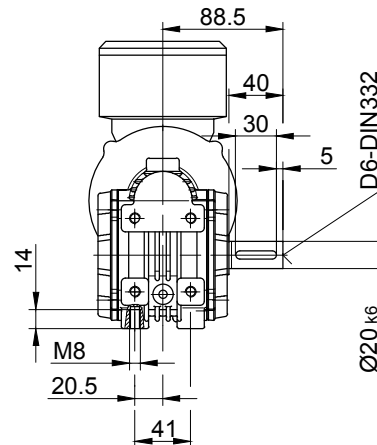
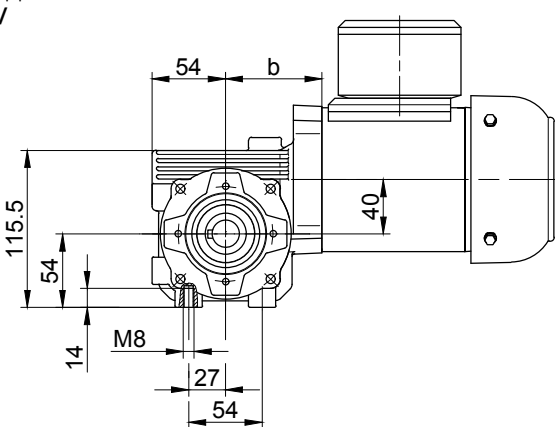
Foot with tapped holes at front

Code -7.V/



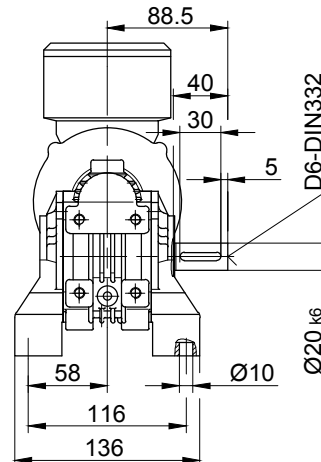
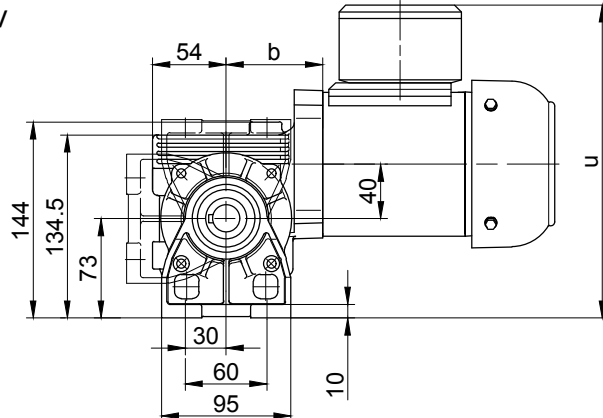
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

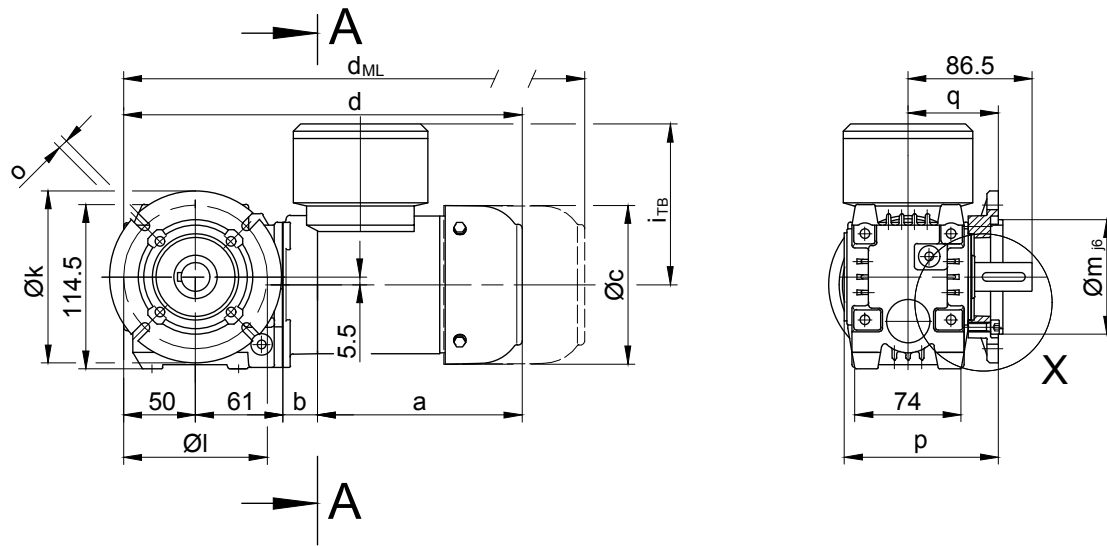
BS-series worm-geared motors

Dimension - Standard Metric

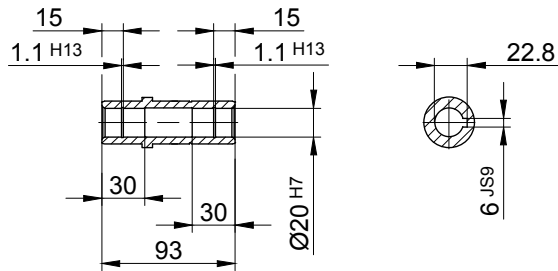
BS04

Flange with clearance holes at front

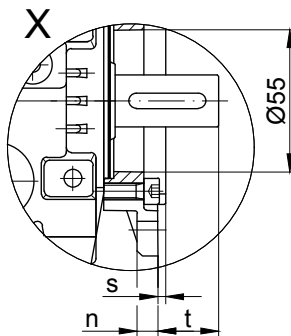
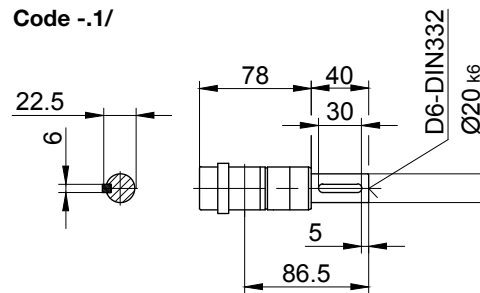
Code -3.V/



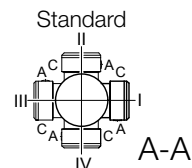
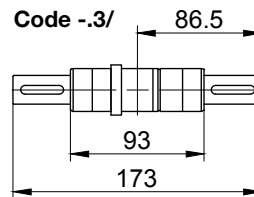
Code -.4/



Code -.1/



Code -.3/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS04	Code -3.V/	120	100	80	8	6.6	107.5	63	3	23.5	-
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	i _{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
BS04-.../D04.A.	142.5	24	110.5	277.5	90	112	d _{ML} 321	d _{ML} 365	d _{ML} 408.5	-
BS04-.../D..05.A.	170.5	26	123	307.5	101	117	d _{ML} 349.5	d _{ML} 410	d _{ML} 447.5	-
BS04-.../D..06.A.	170.5	26	123	307.5	99	119	d _{ML} 349.5	d _{ML} 410	d _{ML} 447.5	-
BS04-.../D..07.A.	190.5	26	123	327.5	99	119	d _{ML} 369.5	d _{ML} 430	d _{ML} 467.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

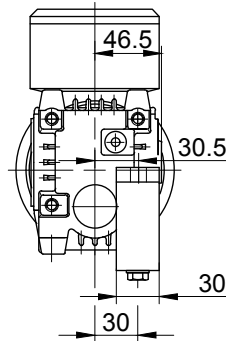
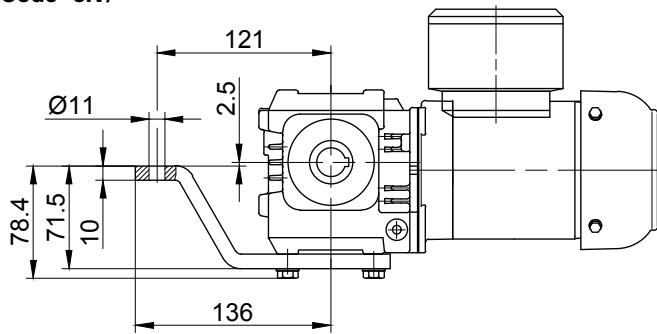
BS-series worm-geared motors

Dimension - Standard Metric

BS04

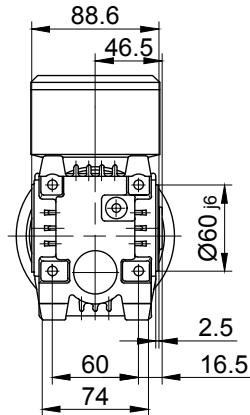
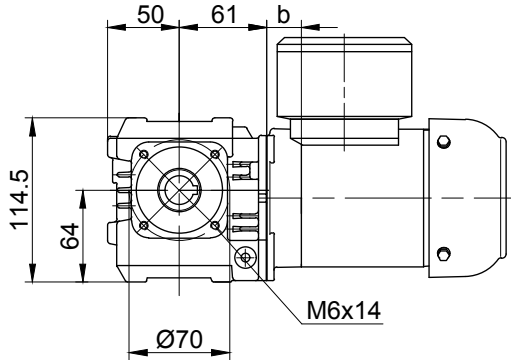
Torque arm at front

Code -5.V/



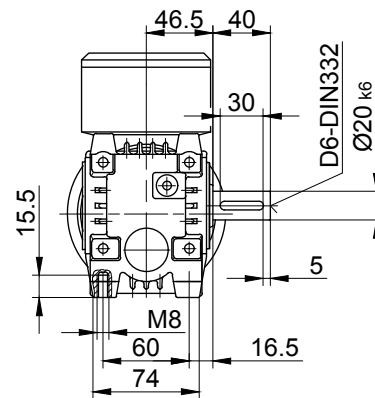
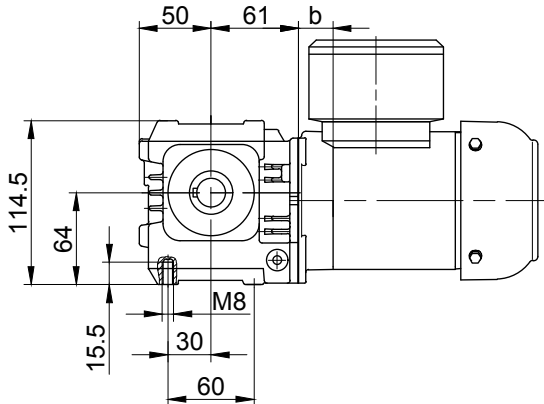
Foot with tapped holes at front

Code -7.V/



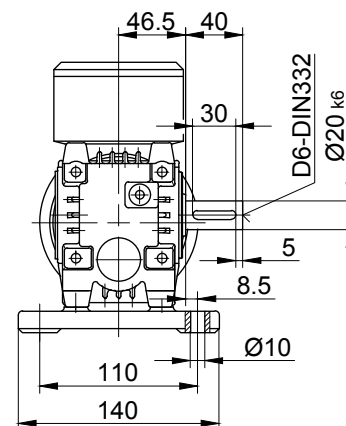
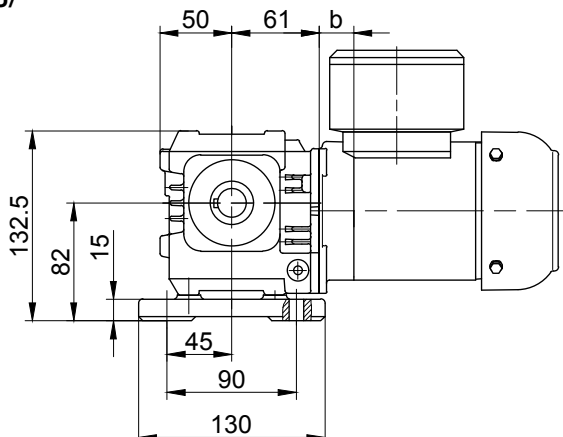
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

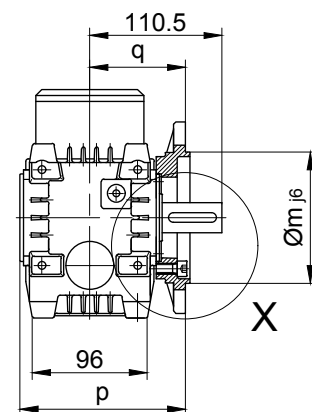
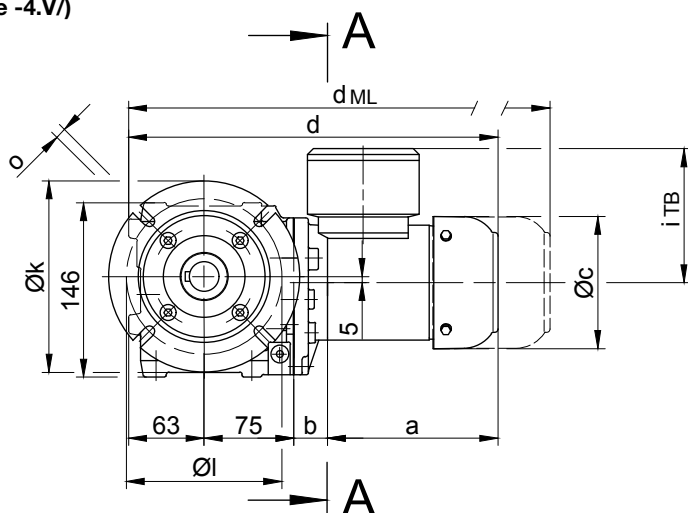
Dimension - Standard Metric

BS06

Flange with clearance holes at front

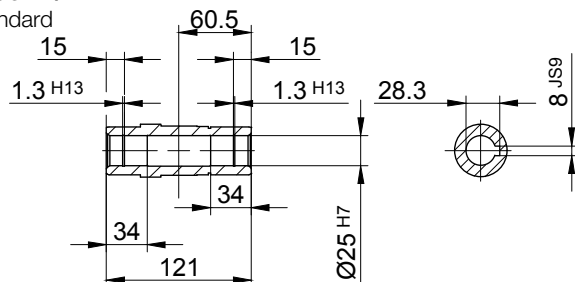
Code -3.V/

(Code -4.V/)

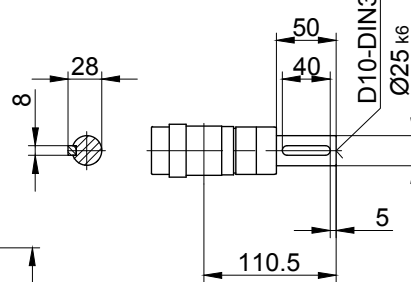


Code -4/

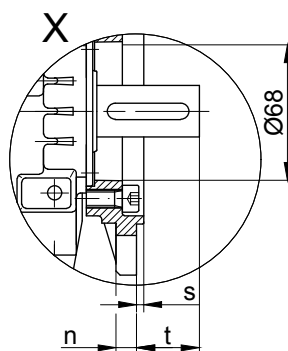
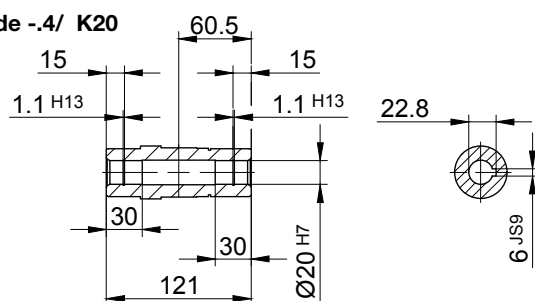
Standard



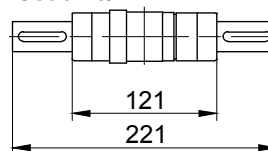
Code -1/



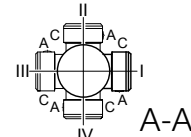
Code -4/ K20



Code -3/



Standard



Flange Dimensions												
Type	Design	k	l	m	n	o	p	q	s	t	z	
BS06..	Code -3.V/	140	115	95	10	9	138.3	80	3	30.5	-	
BS06..	Code -4.V/	160	130	110	10	9	138.3	80	3.5	30.5	-	

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						iTB	Brake	Encoder	Brake with Encoder	Back Stop
							dML	dML	dML	dML
BS06-../D04.A.	142.5	28	110.5	308.5	90	112	352	396	439.5	-
BS06-../D..05.A.	170.5	30	123	338.5	101	117	380.5	441	478.5	-
BS06-../D..06.A.	170.5	30	123	338.5	99	119	380.5	441	478.5	-
BS06-../D..07.A.	190.5	30	123	358.5	99	119	400.5	461	498.5	-
BS06-../D..08.A.	199.5	74	156	411.5	114.5	136.5	477.5	523.5	585	477.5
BS06-../D..08.B.	229.5	74	156	441.5	114.5	136.5	507.5	553.5	614.5	507.5

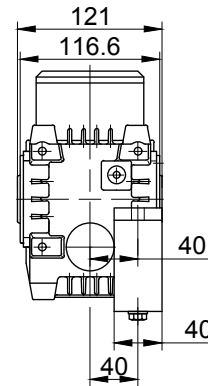
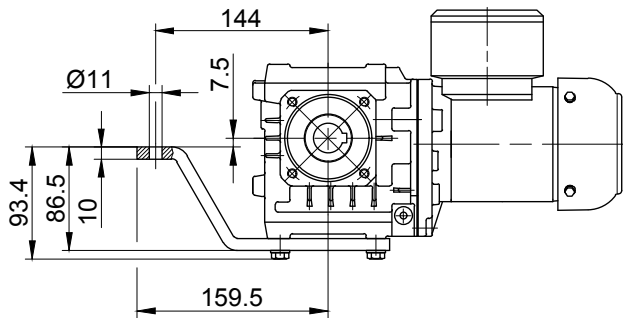
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS06

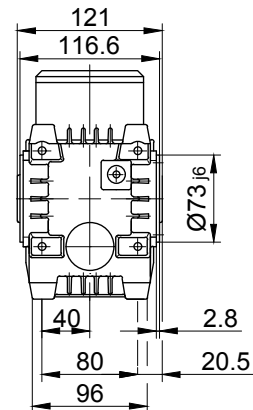
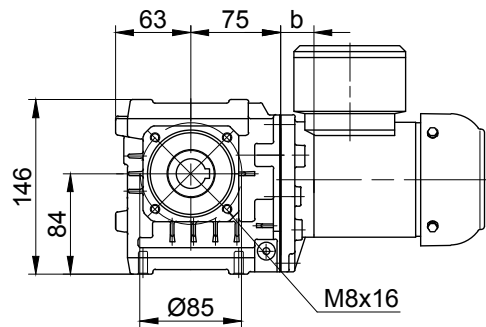
Torque arm at front

Code -5.V/



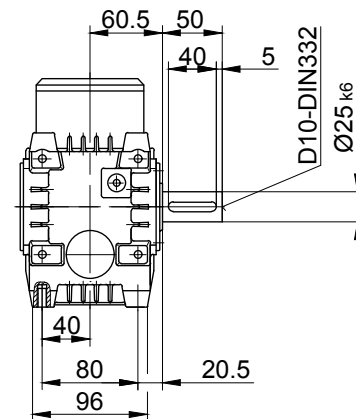
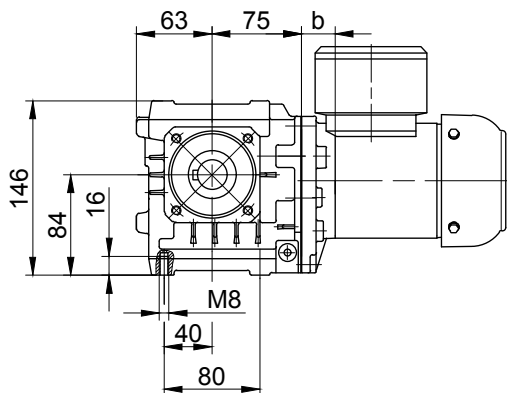
Foot with tapped holes at front

Code -7.V/



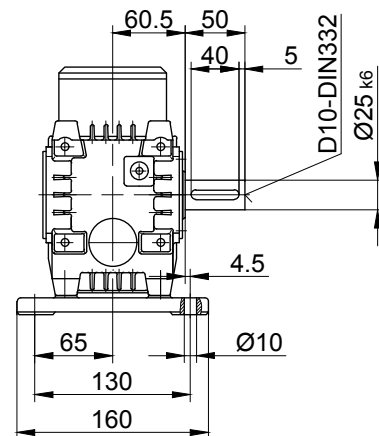
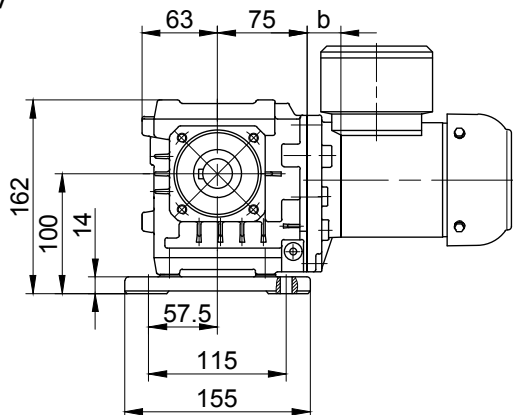
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

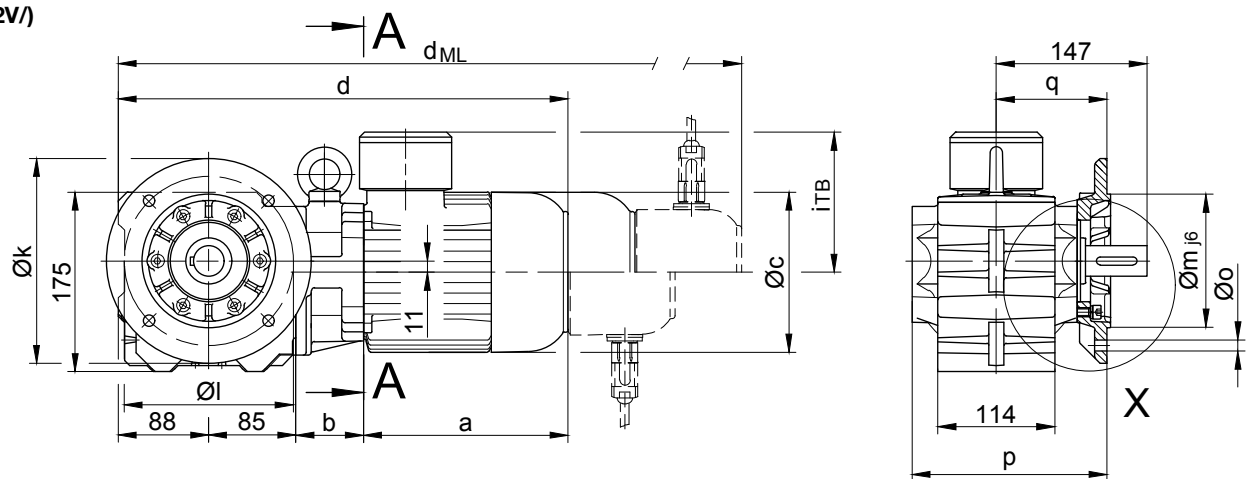
Dimension - Standard Metric

BS10 - BS10Z

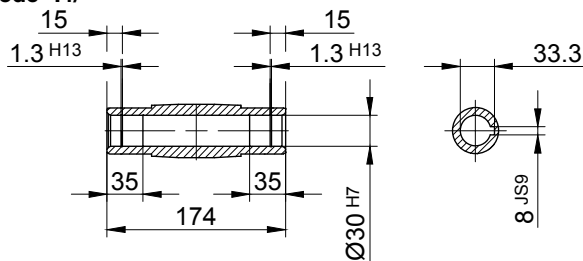
Flange with clearance holes at front

Code -3.V/

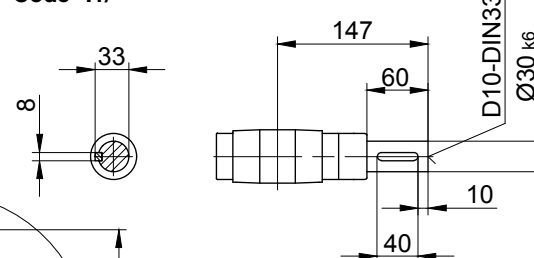
(Code -2V/)



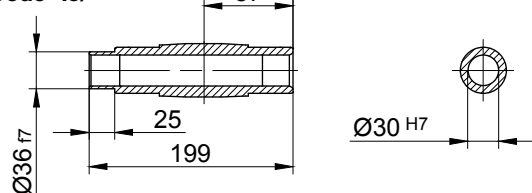
Code -4/



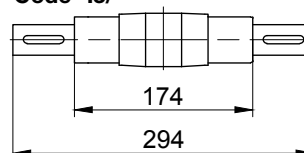
Code -1/



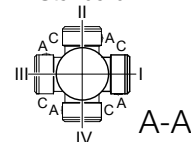
Code -5/



Code -3/



Standard



Type	Design	k	l	m	n	o	p	q	s	t	z
BS10..	Code -3.V/	200	165	130	12	11	190	108	3.5	39	-
BS10..	Code -2.V/	160	130	110	10	9	183	101	3.5	46	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	i_{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
BS10Z-../D04.A.	142.5	86	110.5	401.5	90	112	d _{ML} 445	d _{ML} 489	532.5	-
BS10-../D..05.A.	170.5	62	123	405.5	101	117	447.5	508	545.5	-
BS10Z-../D..05.A.	170.5	88	123	431.5	101	117	473.5	534	571.5	-
BS10-../D..06.A.	170.5	62	123	405.5	99	119	447.5	508	545.5	-
BS10Z-../D..06.A.	170.5	88	123	431.5	99	119	473.5	534	571.5	-
BS10-../D..07.A.	190.5	62	123	425.5	99	119	467.5	528	565.5	-
BS10Z-../D..07.A.	190.5	88	123	451.5	99	119	493.5	554	591.5	-
BS10-../D..08.A.	199.5	66	156	438.5	114.5	136.5	504.5	550.5	612	504.5
BS10Z-../D..08.A.	199.5	132	156	504.5	114.5	136.5	570.5	616.5	678	570.5
BS10-../D..08.B.	229.5	66	156	468.5	114.5	136.5	534.5	580.5	641.5	534.5
BS10Z-../D..08.B.	229.5	132	156	534.5	114.5	136.5	600.5	646.5	707.5	600.5
BS10-../D..09.A.	250.5	80.5	176	504	124	157	597	611.5	701	597
BS10-../D..09.B.	308.5	80.5	176	562	124	157	655	669	759	655

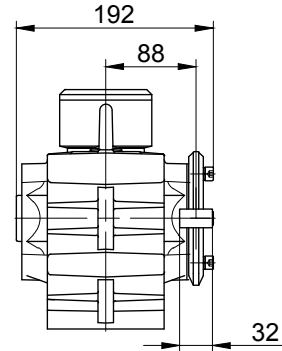
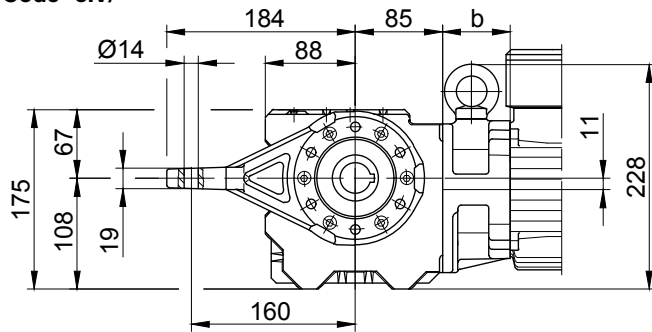
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS10 - BS10Z

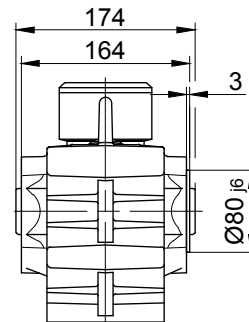
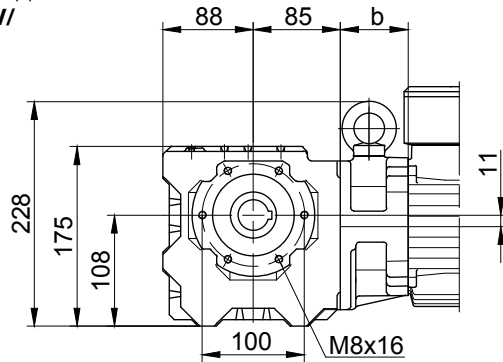
Torque arm at front

Code -5.V/



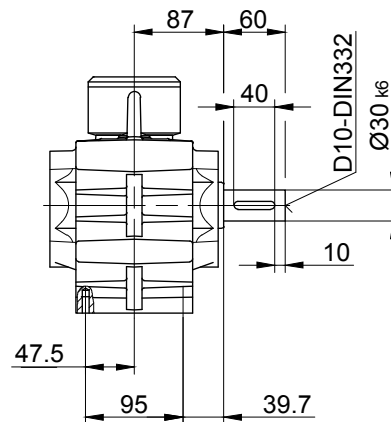
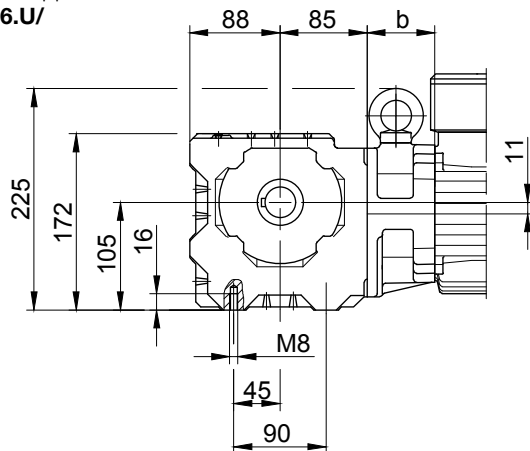
Foot with tapped holes at front

Code -7.V/



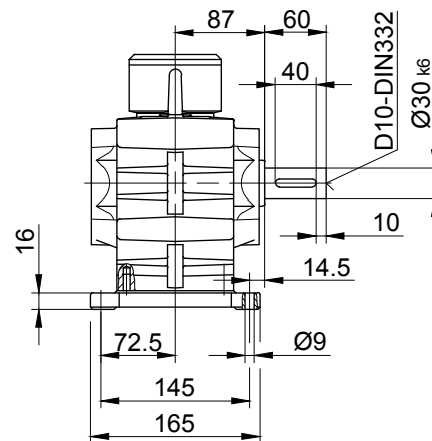
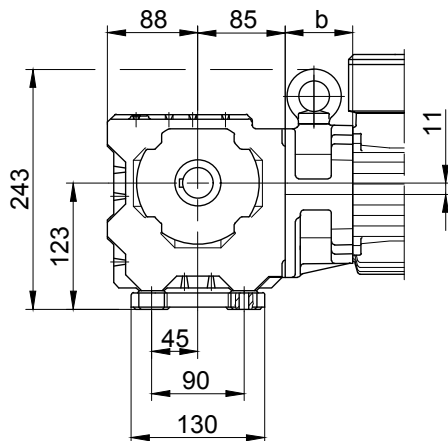
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimension - Standard Metric

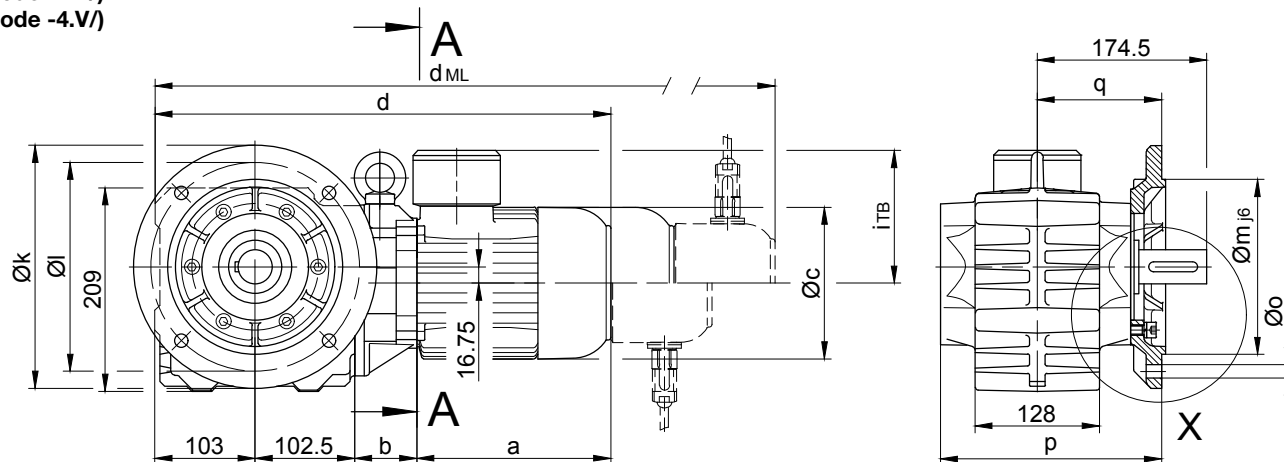
BS20 - BS20Z

Flange with clearance holes at front

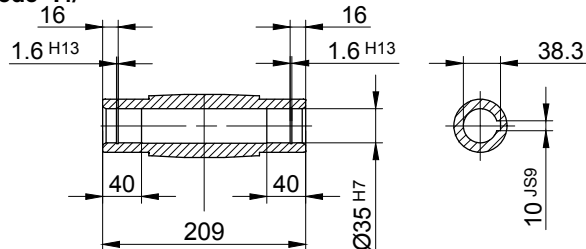
Code -3.V/

(Code -2.V/)

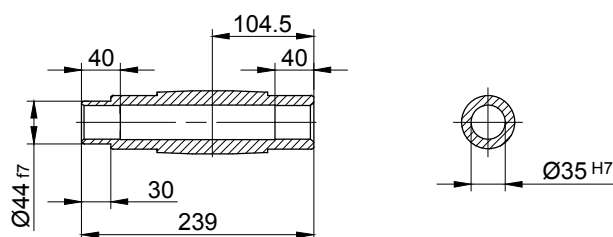
(Code -4.V/)



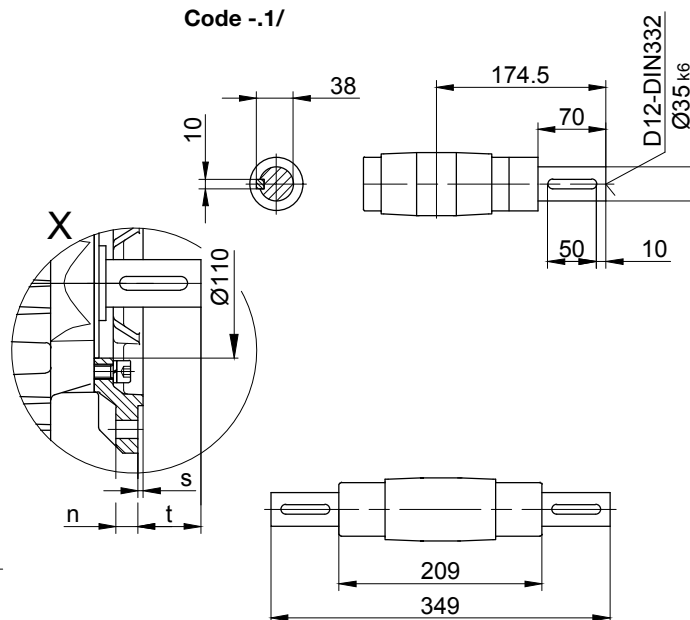
Code -.4/



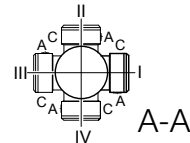
Code -.5/



Code -.1/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS20..	Code -3.V/	250	215	180	16	13.5	227.5	128	4	46.5	-
BS20..	Code -2.V/	200	165	130	12	11	224.5	125	3.5	49.5	-
BS20..	Code -4.V/	300	265	230	20	13.5	233.5	134	4	40.5	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BS20Z-../D04.A.	142.5	100	110.5	448	90	112	491.5	535.5	579	-
BS20-../D..05.A.	170.5	60	123	436	101	117	478	538.5	576	-
BS20Z-../D..05.A.	170.5	102	123	478	101	117	520	580.5	618	-
BS20-../D..06.A.	170.5	60	123	436	99	119	478	538.5	576	-
BS20Z-../D..06.A.	170.5	102	123	478	99	119	520	580.5	618	-
BS20-../D..07.A.	190.5	60	123	456	99	119	498	558.5	596	-
BS20Z-../D..07.A.	190.5	102	123	498	99	119	540	600.5	638	-
BS20-../D..08.A.	199.5	64	156	469	114.5	136.5	535	581	642.5	535
BS20Z-../D..08.A.	199.5	146	156	551	114.5	136.5	617	663	724.5	617
BS20-../D..08.B.	229.5	64	156	499	114.5	136.5	565	611	672	565
BS20Z-../D..08.B.	229.5	146	156	581	114.5	136.5	647	693	754	647
BS20-../D..09.A.	250.5	78.5	176	534.5	124	157	627.5	642	731.5	627.5
BS20-../D..09.B.	308.5	78.5	176	592.5	124	157	685.5	699.5	789.5	685.5

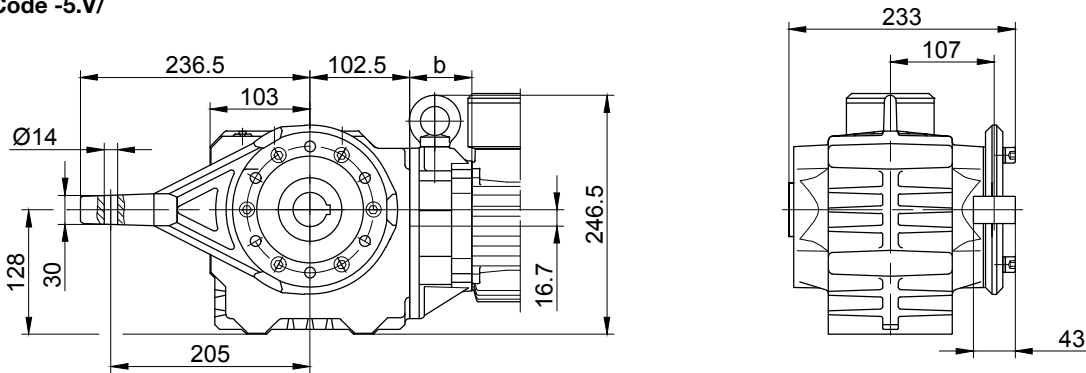
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS20 - BS20Z

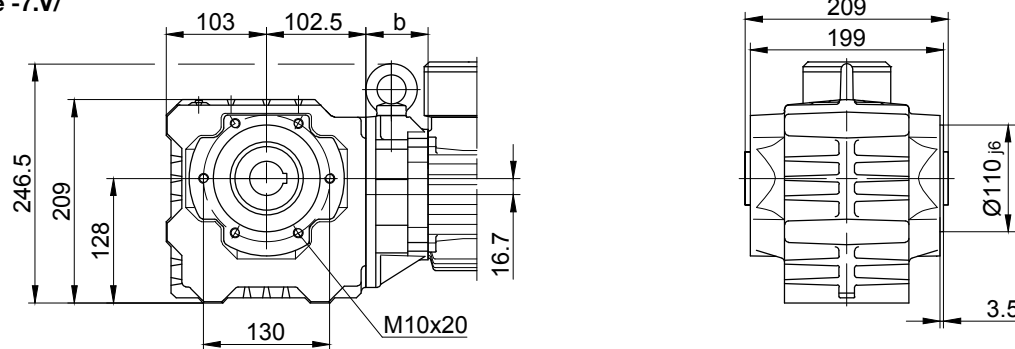
Torque arm at front

Code -5.V/



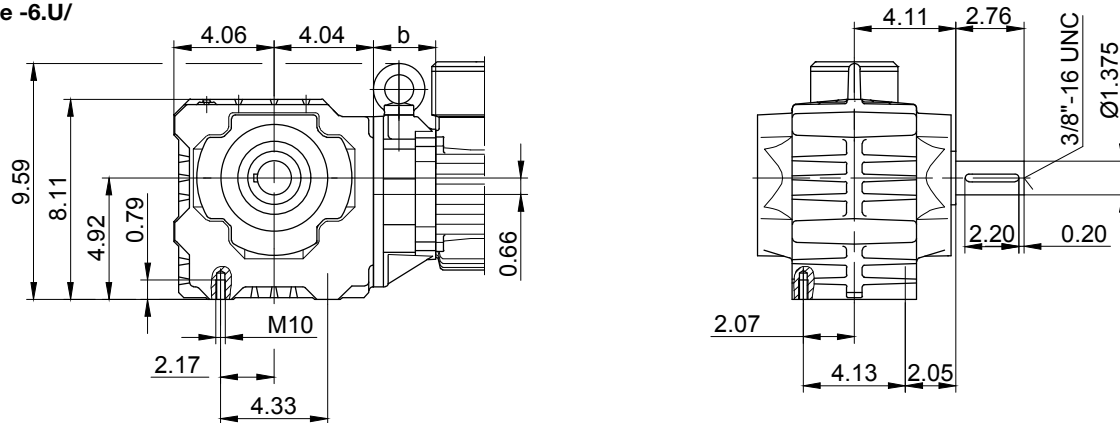
Foot with tapped holes at front

Code -7.V/



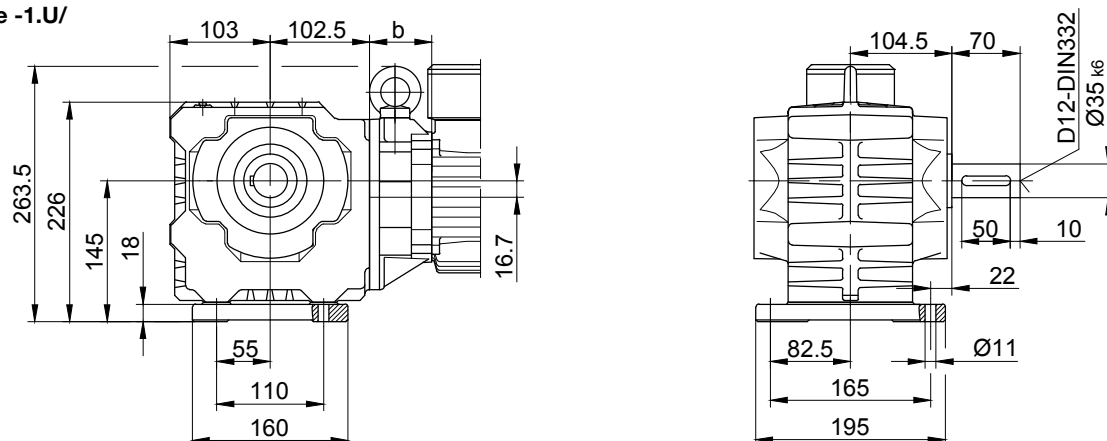
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

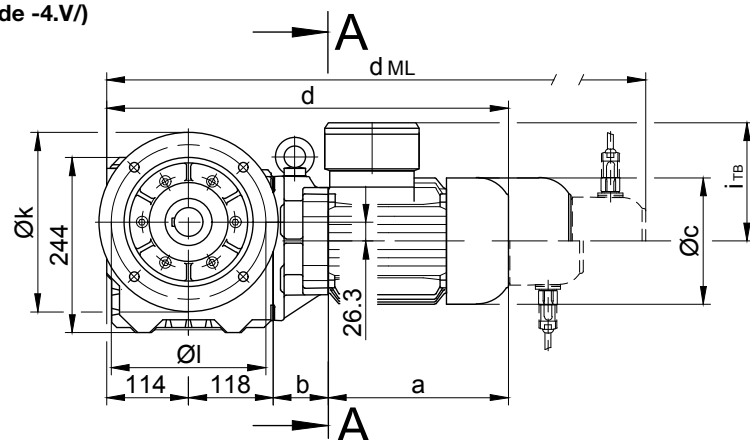
BS-series worm-geared motors

Dimension - Standard Metric

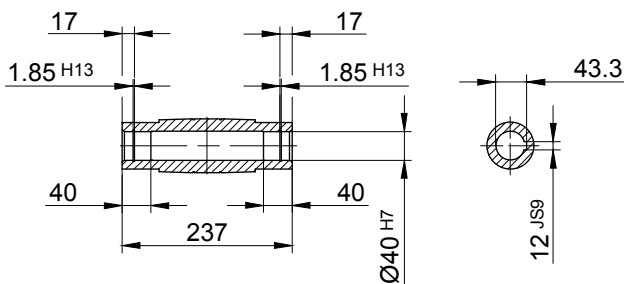
BS30 - BS30Z

Flange with clearance holes at front

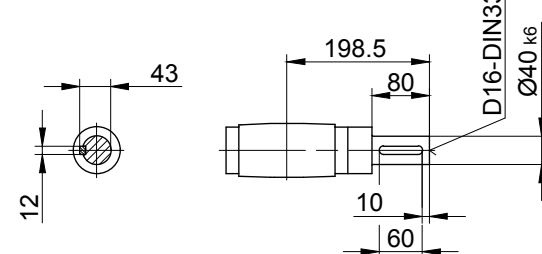
Code -3.V/
(Code -4.V/)



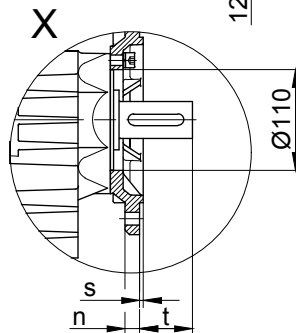
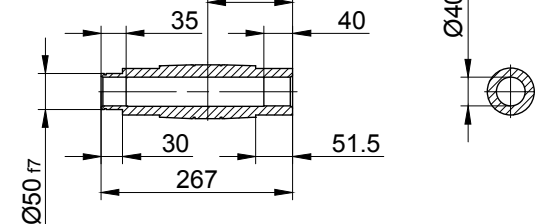
Code -4/



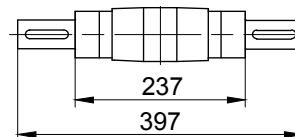
Code -1/



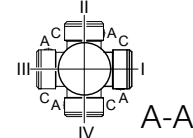
Code -5/



Code -3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS30..	Code -3.V/	250	215	180	16	13.5	253.5	141	4	57.5	-
BS30..	Code -4.V/	300	265	230	20	13.5	259.5	147	4	51.5	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	i_{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS30-../D..05.A.	170.5	58	123	460.5	101	117	502.5	563	600.5	-
BS30Z-../D..05.A.	170.5	133.5	123	536	101	117	578	638.5	676	-
BS30-../D..06.A.	170.5	58	123	460.5	99	119	502.5	563	600.5	-
BS30Z-../D..06.A.	170.5	133.5	123	536	99	119	578	638.5	676	-
BS30-../D..07.A.	190.5	58	123	480.5	99	119	522.5	583	620.5	-
BS30Z-../D..07.A.	190.5	133.5	123	556	99	119	598	658.5	696	-
BS30-../D..08.A.	199.5	62	156	493.5	114.5	136.5	559.5	605.5	667	559.5
BS30Z-../D..08.A.	199.5	137.5	156	569	114.5	136.5	635	681	742.5	635
BS30-../D..08.B.	229.5	62	156	523.5	114.5	136.5	589.5	635.5	696.5	589.5
BS30Z-../D..08.B.	229.5	137.5	156	599	114.5	136.5	665	711	772	665
BS30-../D..09.A.	250.5	76.5	176	559	124	157	652	666.5	756	652
BS30Z-../D..09.A.	250.5	152	176	634.5	124	157	727.5	742	831.5	727.5
BS30-../D..09.B.	308.5	76.5	176	617	124	157	710	724	814	710
BS30Z-../D..09.B.	308.5	152	176	692.5	124	157	785.5	799.5	889.5	785.5
BS30-../D..11.A.	319	83	218	634	165	176	732	741.5	834	732
BS30-../D..11.B.	387	83	218	702	165	176	798	809.5	902	798

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

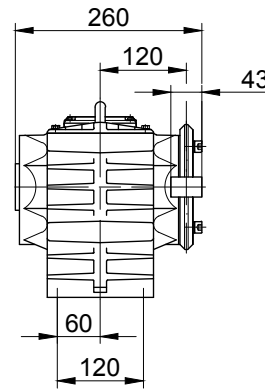
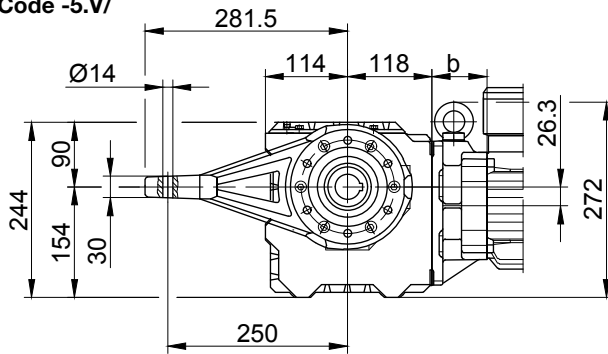
BS-series worm-geared motors

Dimension - Standard Metric

BS30 - BS30Z

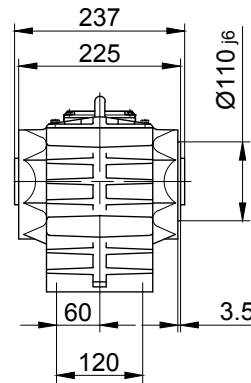
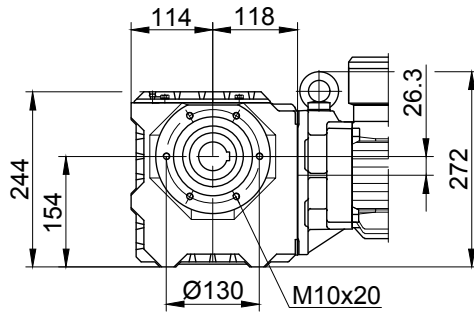
Torque arm at front

Code -5.V/



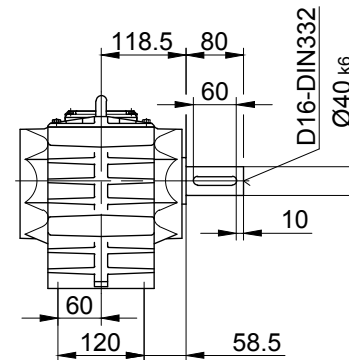
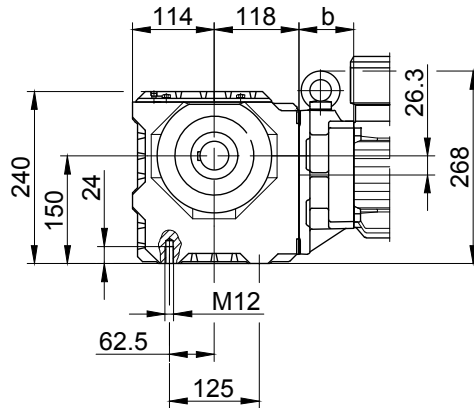
Foot with tapped holes at front

Code -7.V/



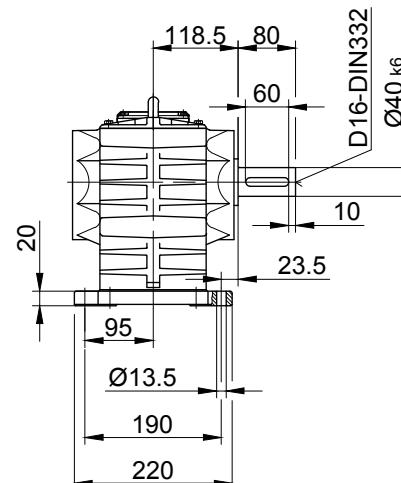
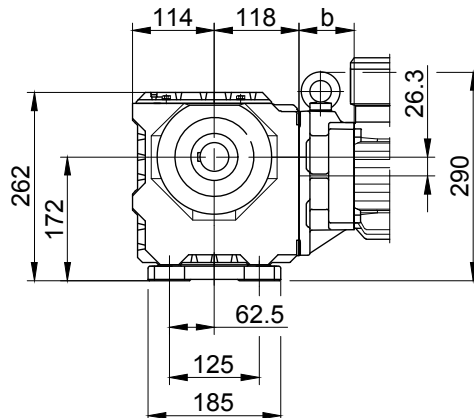
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

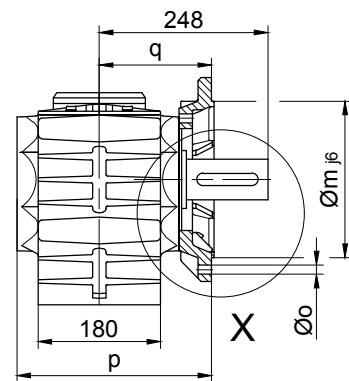
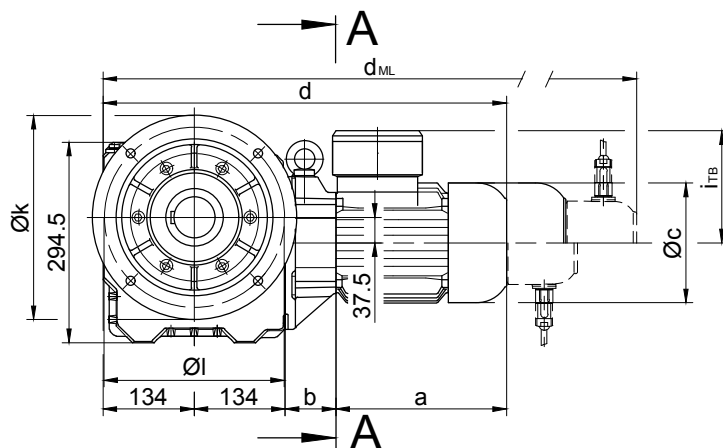
BS-series worm-geared motors

Dimension - Standard Metric

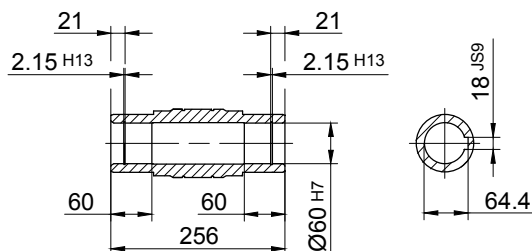
BS40 - BS40Z

Flange with clearance holes at front

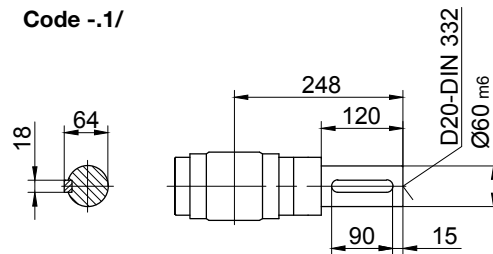
Code -3.V/



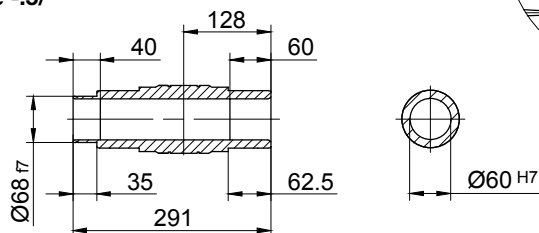
Code -.4/



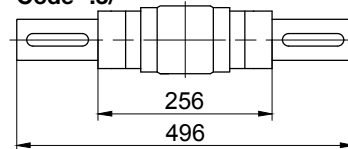
Code -.1/



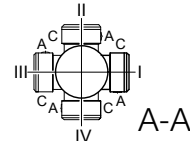
Code -.5/



Code -.3/



Standard



Flange Dimensions

Type	Design	k	l	m	n	o	p	q	s	t	z
BS40..	Code -3.V/	300	265	230	20	13.5	286	165	4	83	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	i _{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
BS40Z-../D..05.A.	170.5	138.5	123	577	101	117	d _{ML} 619	d _{ML} 679.5	d _{ML} 717	-
BS40Z-../D..06.A.	170.5	138.5	123	577	99	119	619	679.5	717	-
BS40Z-../D..07.A.	190.5	138.5	123	597	99	119	639	699.5	737	-
BS40-../D..08.A.	199.5	60	156	527.5	114.5	136.5	593.5	639.5	701	593.5
BS40Z-../D..08.A.	199.5	142.5	156	610	114.5	136.5	676	722	783.5	676
BS40-../D..08.B.	229.5	60	156	557.5	114.5	136.5	623.5	669.5	730.5	623.5
BS40Z-../D..08.B.	229.5	142.5	156	640	114.5	136.5	706	752	813	706
BS40-../D..09.A.	250.5	74.5	176	593	124	157	686	700.5	790	686
BS40Z-../D..09.A.	250.5	157	176	675.5	124	157	768.5	783	872.5	768.5
BS40-../D..09.B.	308.5	74.5	176	651	124	157	744	758	848	744
BS40Z-../D..09.B.	308.5	157	176	733.5	124	157	826.5	840.5	930.5	826.5
BS40-../D..11.A.	319	81	218	668	165	176	766	775.5	868	766
BS40-../D..11.B.	387	81	218	736	165	176	832	843.5	936	832

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

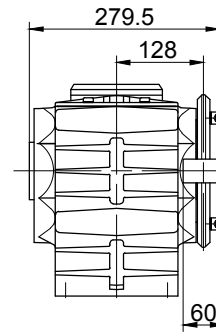
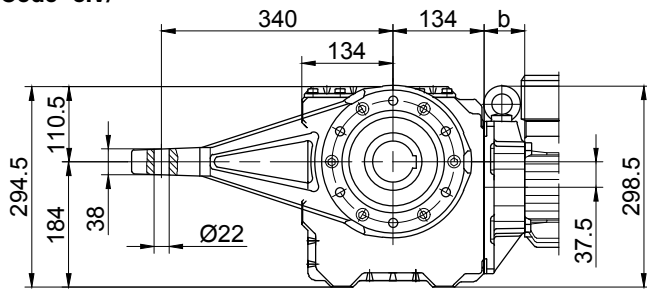
BS-series worm-geared motors

Dimension - Standard Metric

BS40 - BS40Z

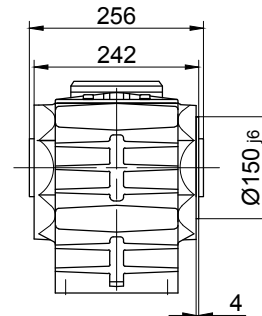
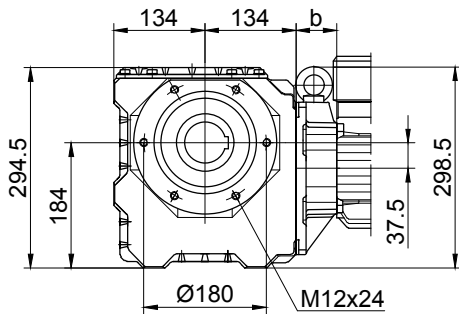
Torque arm at front

Code -5.V/



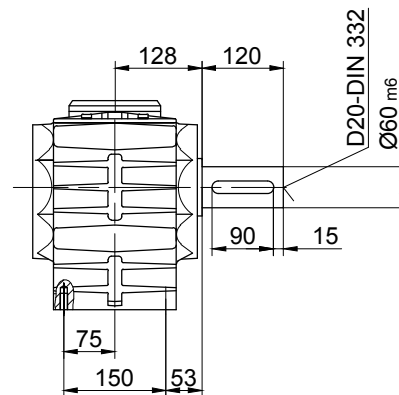
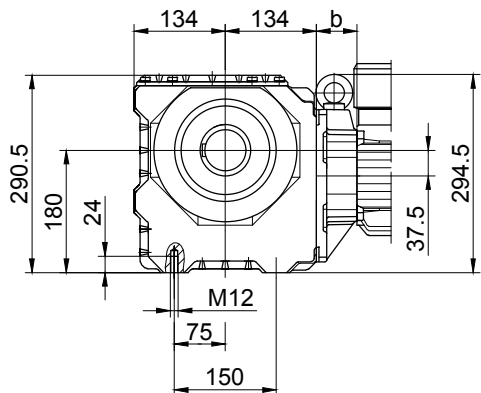
Foot with tapped holes at front

Code -7.V/



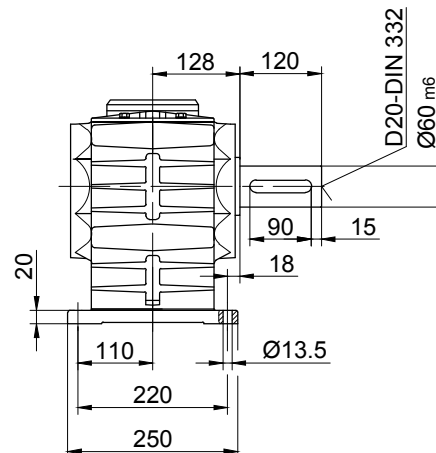
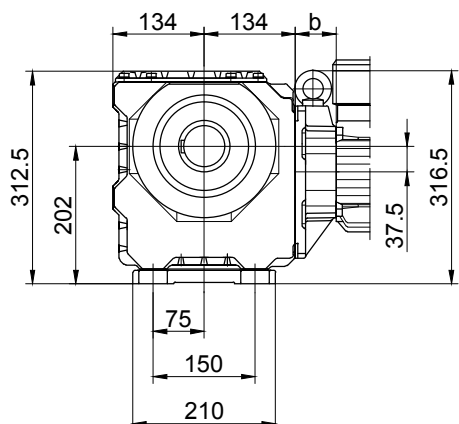
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

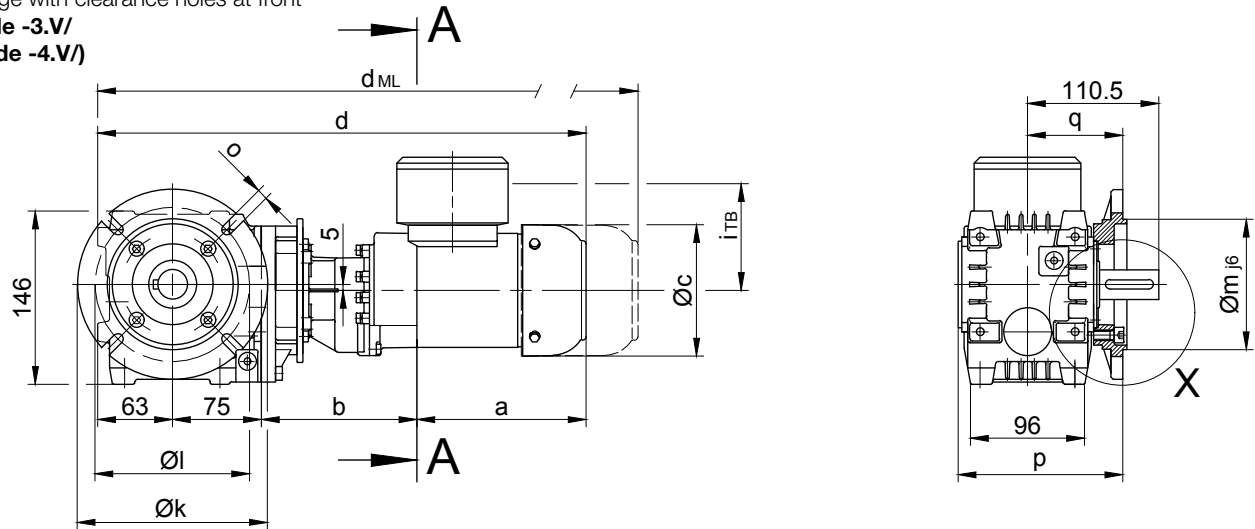
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

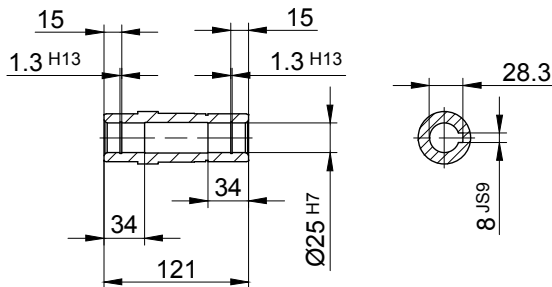
BS06G04

Flange with clearance holes at front

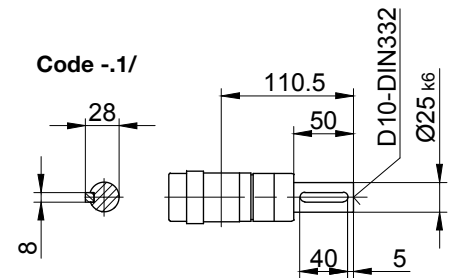
Code -3.V/
(Code -4.V/)



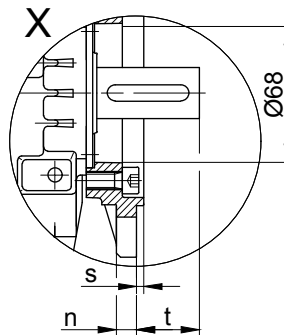
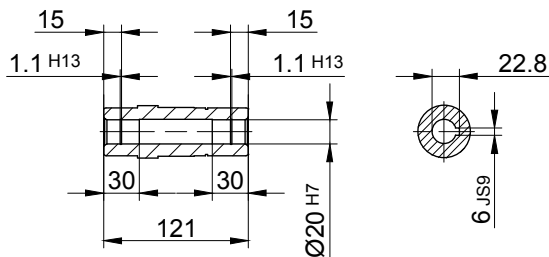
Code -4/
Standard



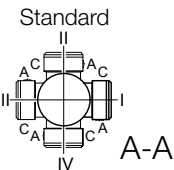
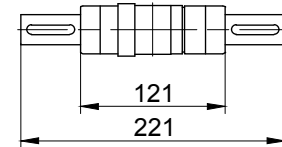
Code -1/



Code -4/K20



Code -3/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS06..	Code -3.V/	140	115	95	10	9	138,3	80	3	30,5	-
BS06..	Code -4.V/	160	130	110	10	9	138,3	80	3,5	30,5	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	i _{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
BS06G04-.../D04.A.	142.5	131	110.5	411.5	90	112	d _{ML}	d _{ML}	d _{ML}	d _{ML}
							455	499	542.5	-

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

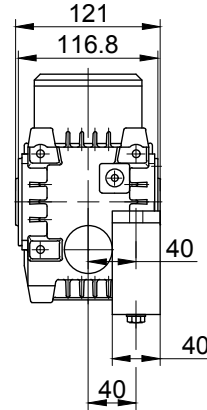
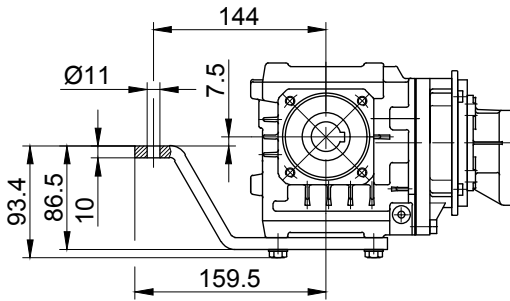
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

BS06G04

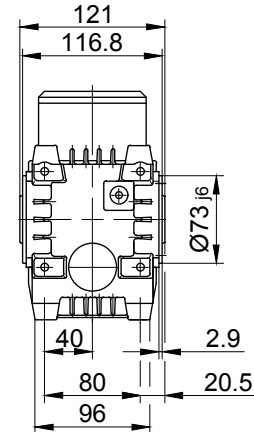
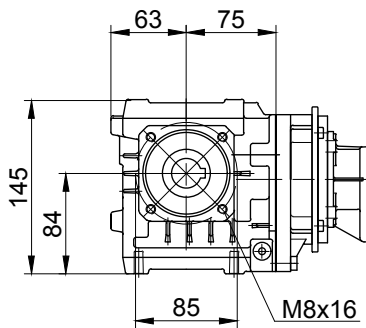
Torque arm at front

Code -5.V/



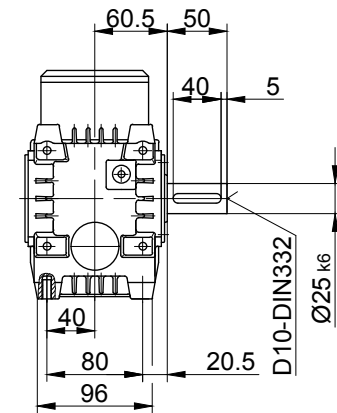
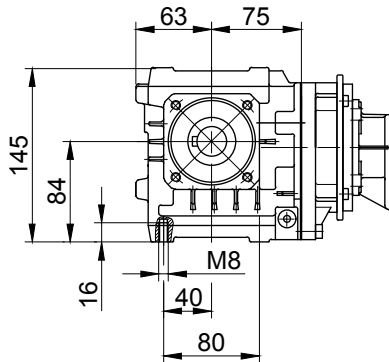
Flange with tapped holes at front

Code -7.V/



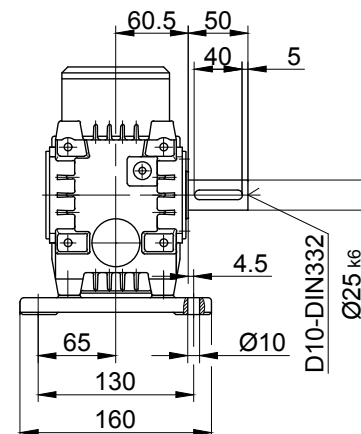
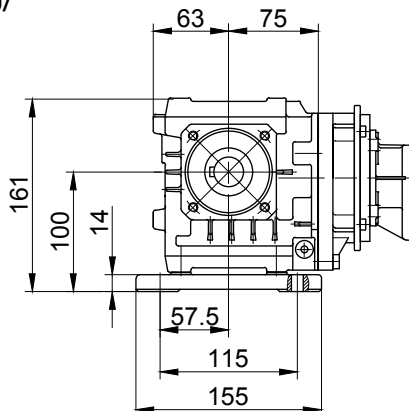
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

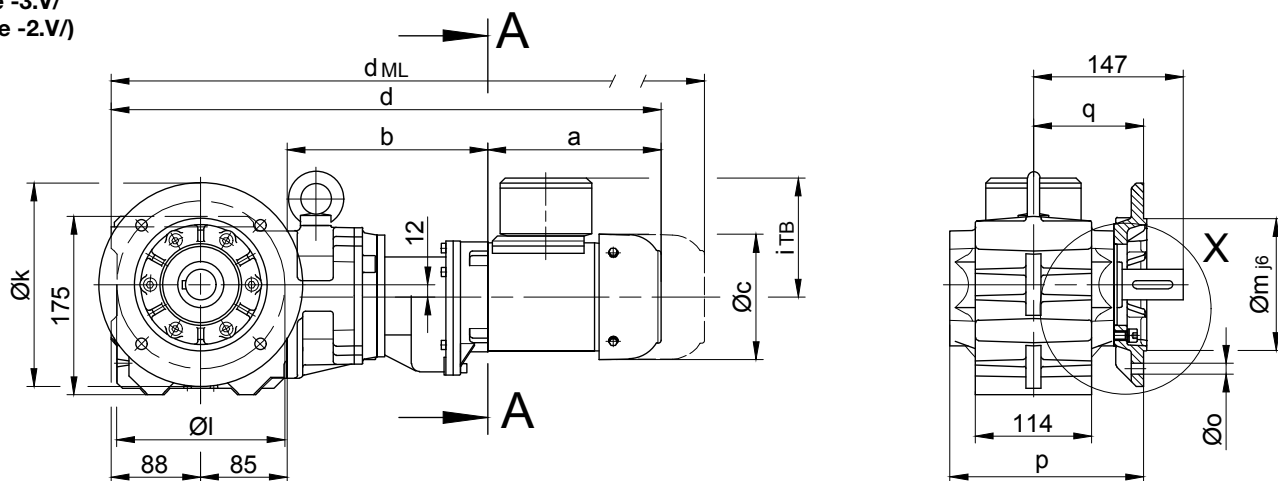
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

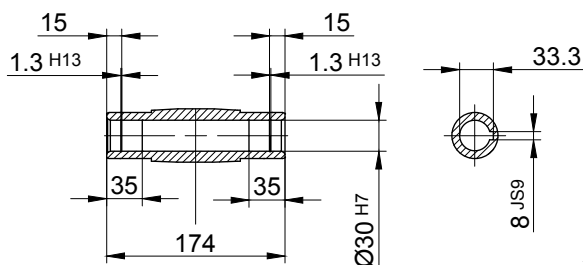
BS10G06

Flange with clearance holes at front

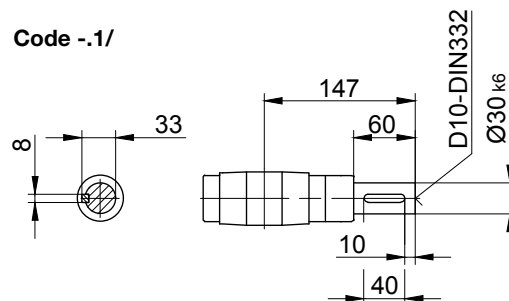
Code -3.V/
(Code -2.V/)



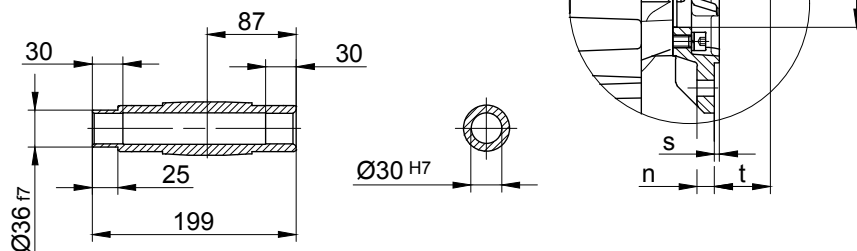
Code -.4/



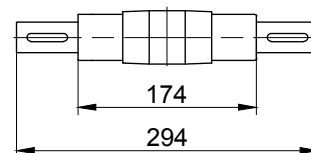
Code -.1/



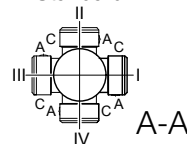
Code -.5/



Code -.3/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS10..	Code -3.V/	200	165	130	12	11	190	108	3,5	39	-
BS10..	Code -2.V/	160	130	110	10	9	183	101	3,5	46	-

Dimensions in millimetres (mm)

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS10G06-.../D04.A.	142.5	195	110.5	510.5	90	112	554	598	641.5	-
BS10G06-.../D..05.A.	170.5	197	123	540.5	101	117	582.5	643	680.5	-
BS10G06-.../D..06.A.	170.5	197	123	540.5	99	119	582.5	643	680.5	-
BS10G06-.../D..07.A.	190.5	197	123	560.5	99	119	602.5	663	700.5	-
BS10G06-.../D..08.A.	199.5	241	156	613.5	114.5	136.5	679.5	725.5	787	679.5
BS10G06-.../D..08.B.	229.5	241	156	643.5	114.5	136.5	709.5	755.5	816.5	709.5

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

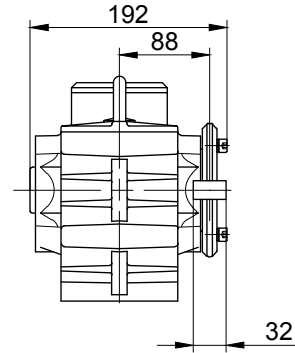
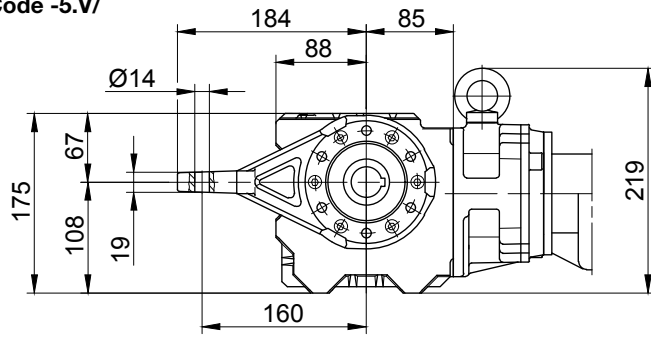
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

BS10G06

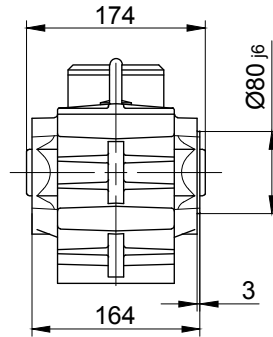
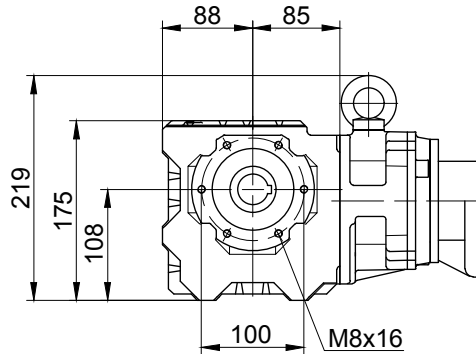
Torque arm at front

Code -5.V/



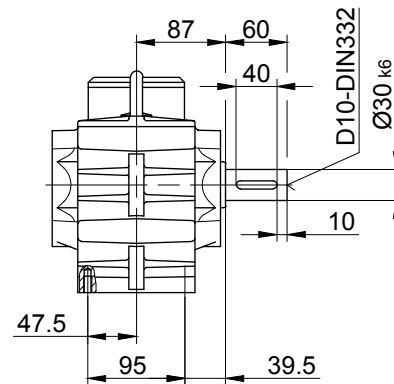
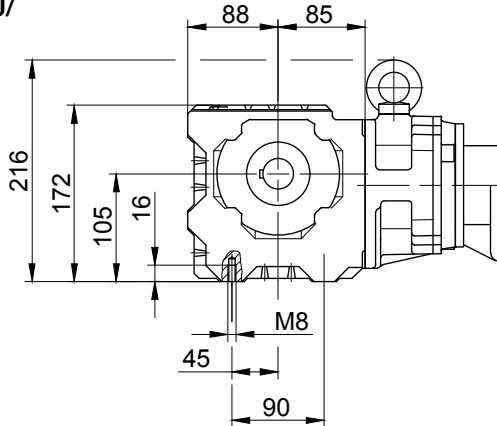
Flange with tapped holes at front

Code -7.V/



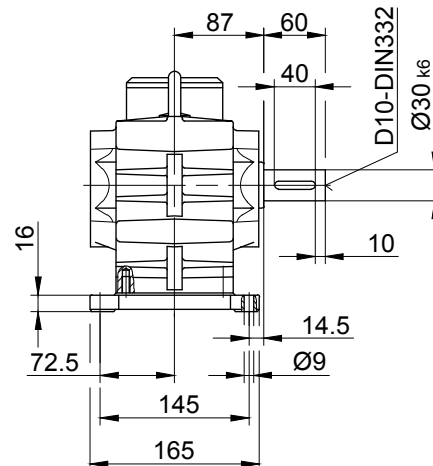
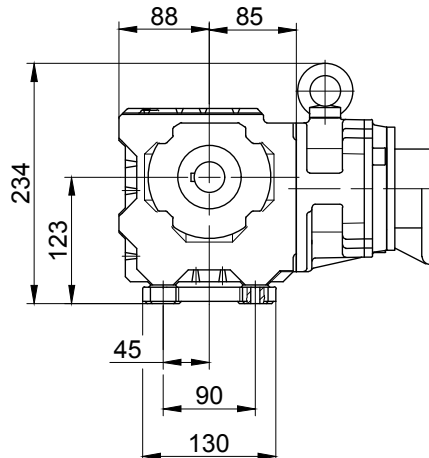
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

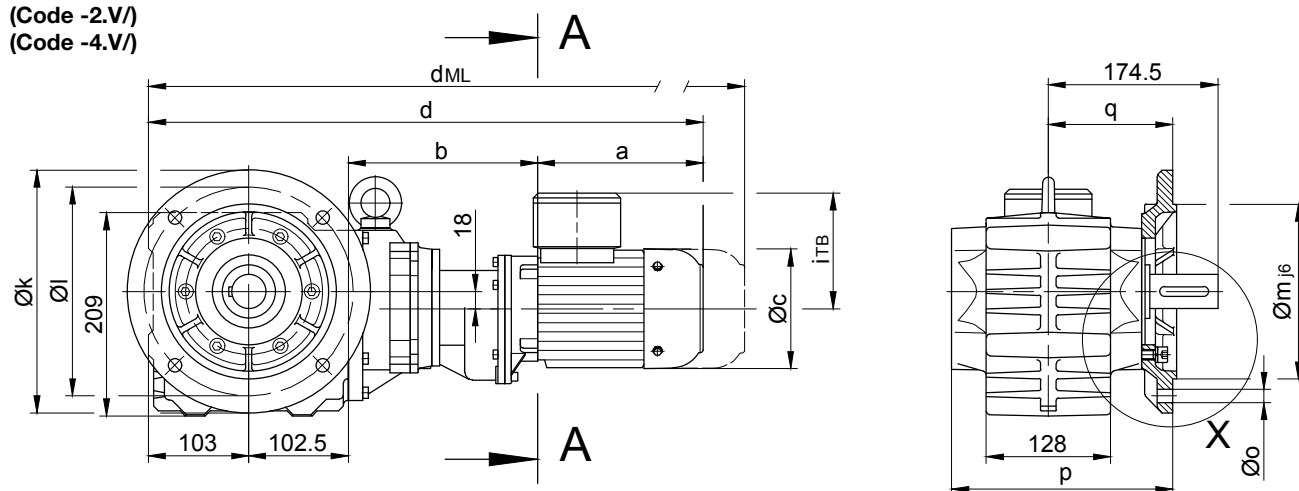
BS20G06

Flange with clearance holes at front

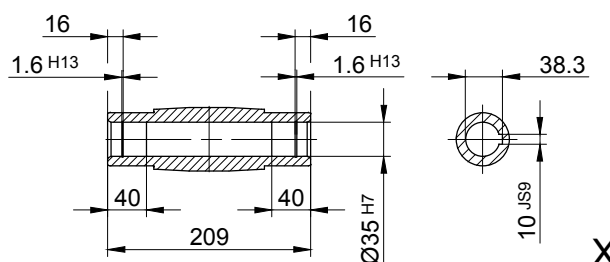
Code -3.V/

(Code -2.V/)

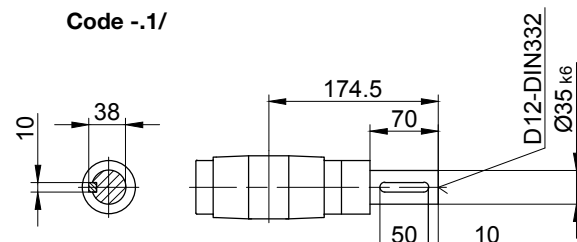
(Code -4.V/)



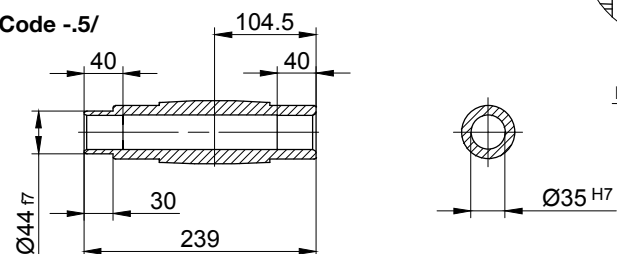
Code -4./



Code -1/



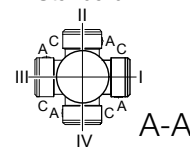
Code -5/



Code -3/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS20..	Code -3.V/	250	215	180	16	13,5	227,5	128	4	46,5	-
BS20..	Code -2.V/	200	165	130	12	11	224,5	125	3,5	49,5	-
BS20..	Code -4.V/	300	265	230	20	13,5	233,5	134	4	40,5	-

Dimensions in millimeters (mm)

Type	a	b	c	d	i	Design with motor extensions			
						iTB	Brake	Encoder	Brake with Encoder
							dML	dML	dML
BS20G06-.../D04.A.	142.5	193	110.5	541	90	112	584.5	628.5	672
BS20G06-.../D..05.A.	170.5	195	123	571	101	117	613	673.5	711
BS20G06-.../D..06.A.	170.5	195	123	571	99	119	613	673.5	711
BS20G06-.../D..07.A.	190.5	195	123	591	99	119	633	693.5	731
BS20G06-.../D..08.A.	199.5	239	156	644	114.5	136.5	710	756	817.5
BS20G06-.../D..08.B.	229.5	239	156	674	114.5	136.5	740	786	847

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

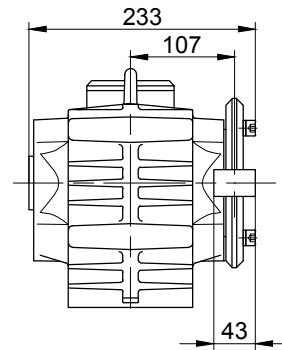
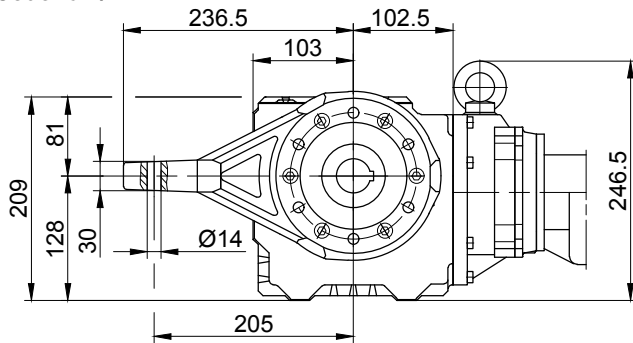
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

BS20G06

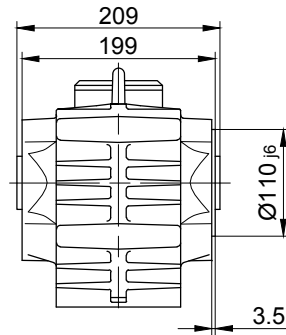
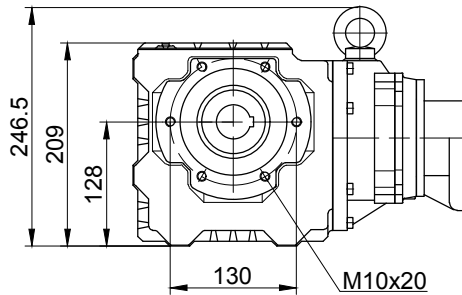
Torque arm at front

Code -5.V/



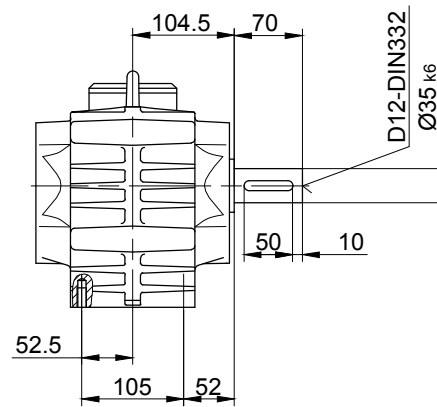
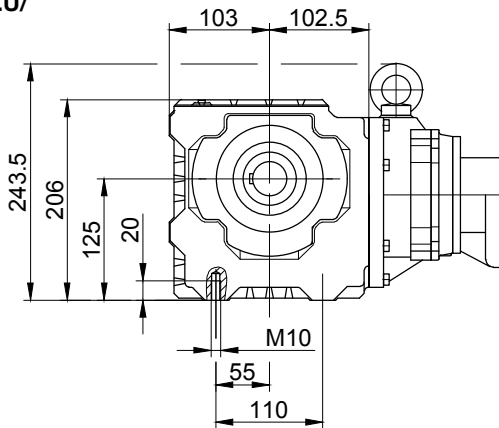
Flange with tapped holes at front

Code -7.V/



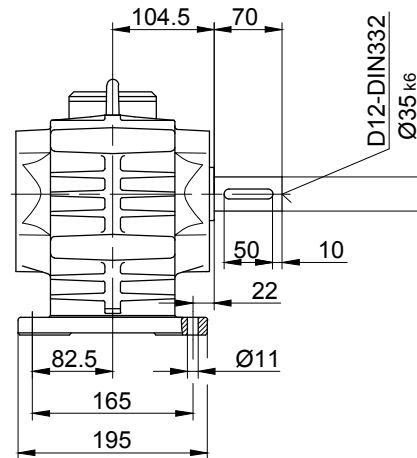
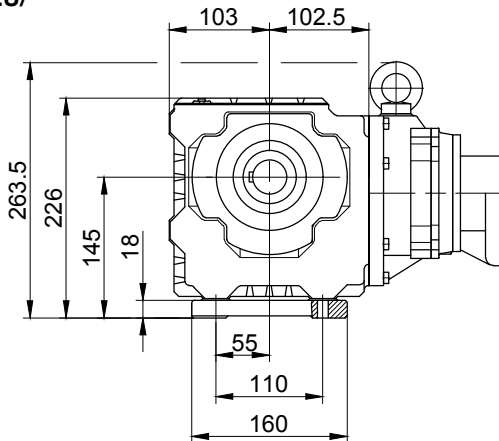
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

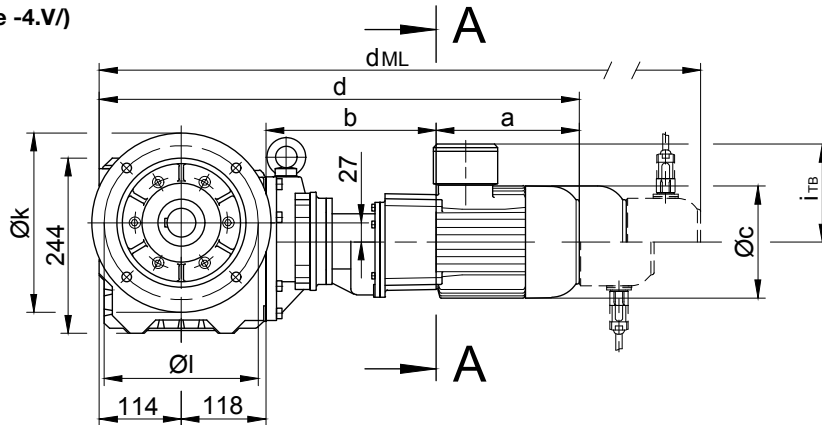
Dimension - Tandem Gearbox Metric

BS30G06

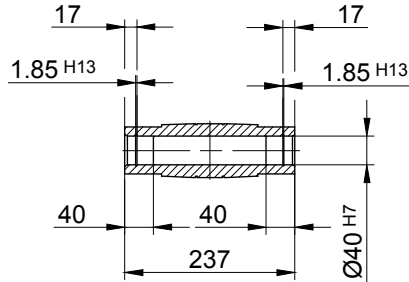
Flange with clearance holes at front

Code -3.V/

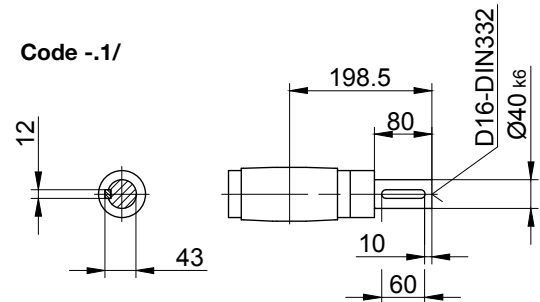
(Code -4.V/)



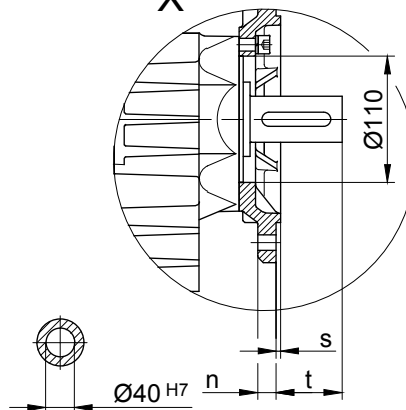
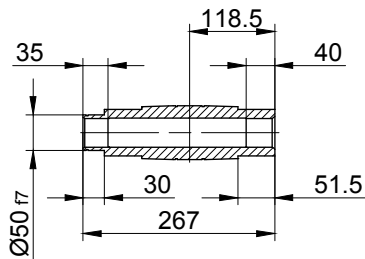
Code -.4/



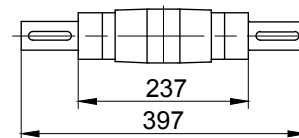
Code -.1/



Code -.5/

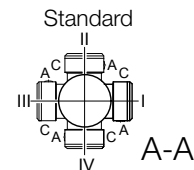


Code -.3/



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS30..	Code -3.V/	250	215	180	16	13,5	253,5	141	4	57,5	-
BS30..	Code -4.V/	300	265	230	20	13,5	259,5	147	4	51,5	-

Dimensions in millimetres (mm)



Type	a	b	c	d	i	Design with motor extensions				
						i _{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d _{ML}	d _{ML}	d _{ML}	d _{ML}
BS30G06-../D04.A.	142.5	191	110.5	565.5	90	112	609	653	696.5	-
BS30G06-../D..05.A.	170.5	193	123	595.5	101	117	637.5	698	735.5	-
BS30G06-../D..06.A.	170.5	193	123	595.5	99	119	637.5	698	735.5	-
BS30G06-../D..07.A.	190.5	193	123	615.5	99	119	657.5	718	755.5	-
BS30G06-../D..08.A.	199.5	237	156	668.5	114.5	136.5	734.5	780.5	842	734.5
BS30G06-../D..08.B.	229.5	237	156	698.5	114.5	136.5	764.5	810.5	871.5	764.5
Dimensions in millimetres (mm)										

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

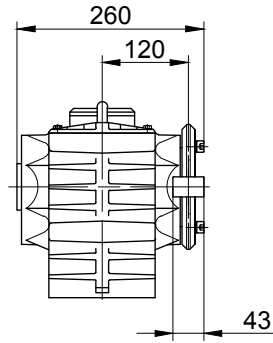
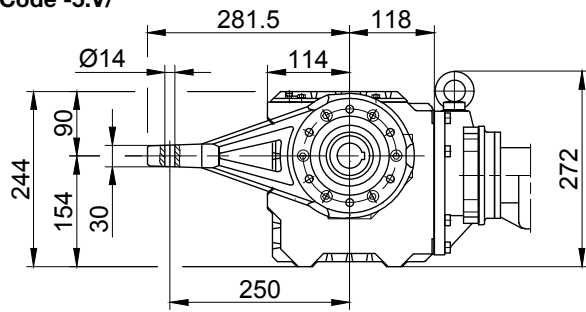
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

BS30G06

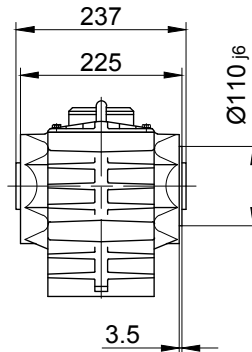
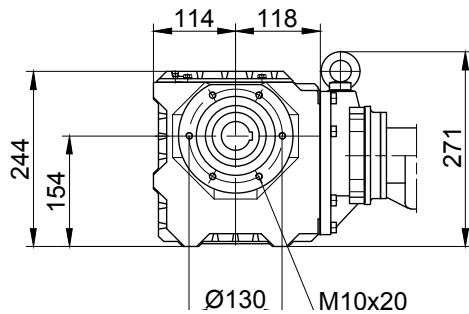
Torque arm at front

Code -5.V/



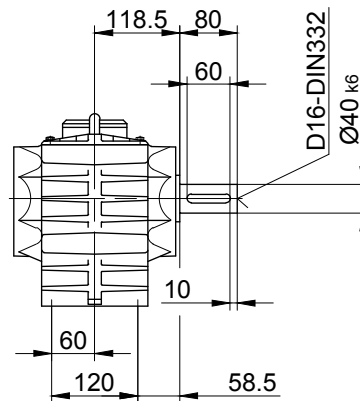
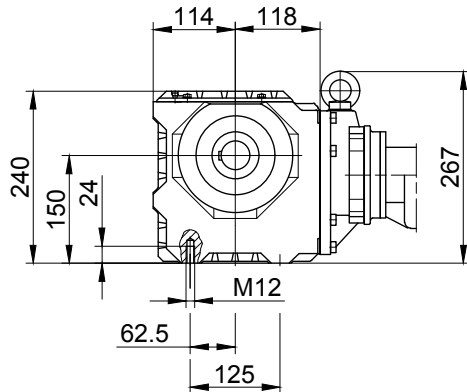
Flange with tapped holes at front

Code -7.V/



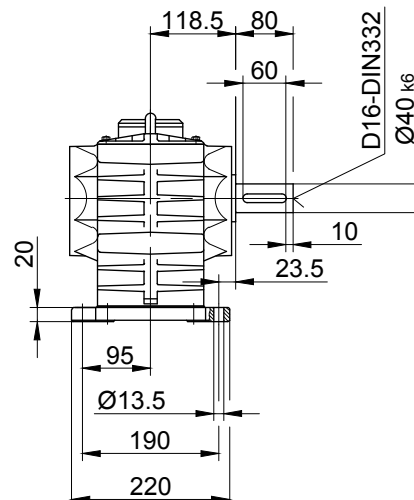
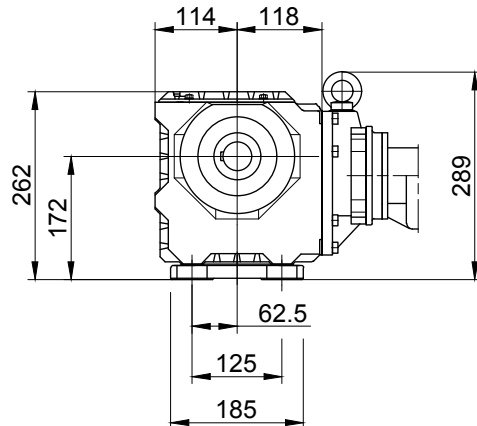
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

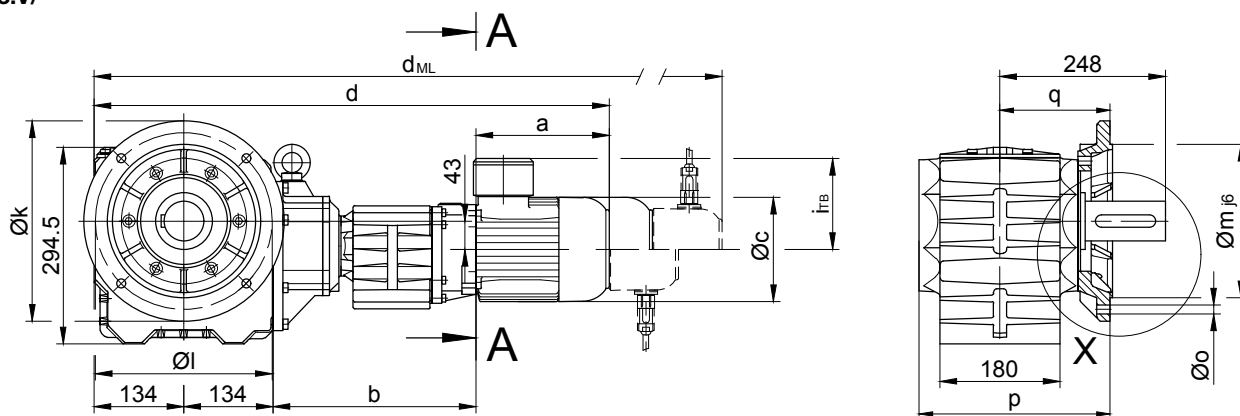
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

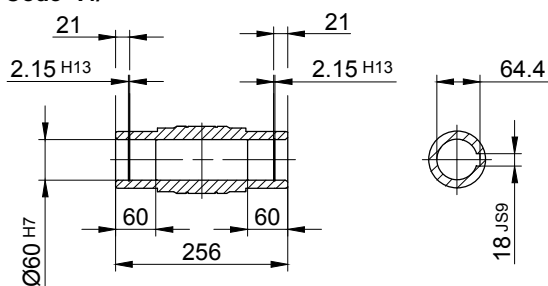
BS40G10

Flange with clearance holes at front

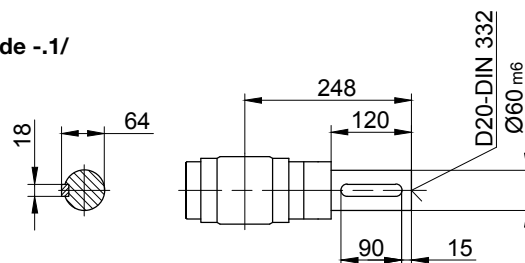
Code -3.V/



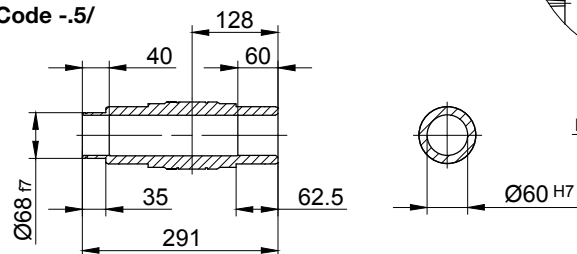
Code -4/



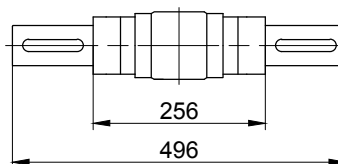
Code -1/



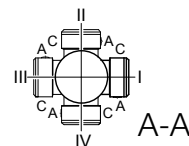
Code -5/



Code -3/



Standard



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q	s	t	z
BS40..	Code -3.V/	300	265	230	20	13,5	286	165	4	83	-

Dimensions in millimeters (mm)

Type	a	b	c	d	i	i_{TB}	Design with motor extensions			
							Brake	Encoder	Brake with Encoder	Back Stop
BS40G10-.../D..05.A.	170.5	300	123	738.5	101	117	d_{ML} 780.5	d_{ML} 841	d_{ML} 878.5	-
BS40G10-.../D..06.A.	170.5	300	123	738.5	99	119	d_{ML} 780.5	d_{ML} 841	d_{ML} 878.5	-
BS40G10-.../D..07.A.	190.5	300	123	758.5	99	119	d_{ML} 800.5	d_{ML} 861	d_{ML} 898.5	-
BS40G10-.../D..08.A.	199.5	304	156	771.5	114.5	136.5	d_{ML} 837.5	d_{ML} 883.5	d_{ML} 945	837.5
BS40G10-.../D..08.B.	229.5	304	156	801.5	114.5	136.5	d_{ML} 867.5	d_{ML} 913.5	d_{ML} 974.5	867.5
BS40G10-.../D..09.A.	250.5	318.5	176	837	124	157	d_{ML} 930	d_{ML} 944.5	d_{ML} 1034	930
BS40G10-.../D..09.B.	308.5	318.5	176	895	124	157	d_{ML} 988	d_{ML} 1002	d_{ML} 1092	988

Dimensions in millimeters (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

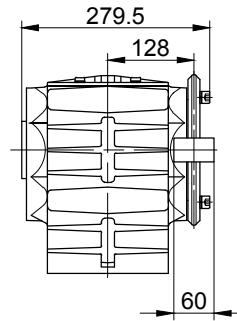
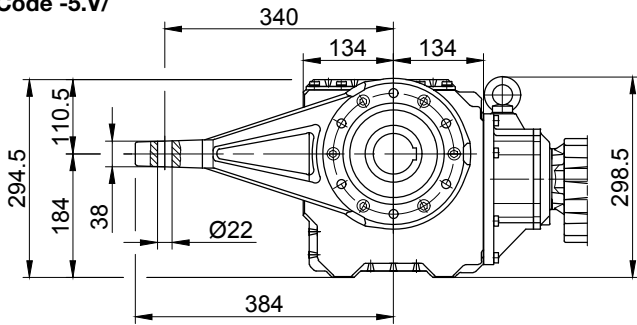
BS-series worm-geared motors

Dimension - Tandem Gearbox Metric

BS40G10

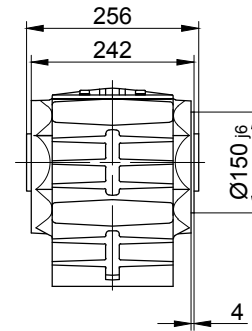
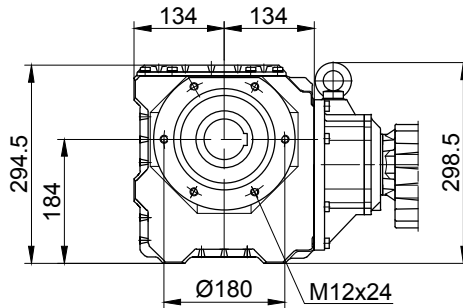
Torque arm at front

Code -5.V/



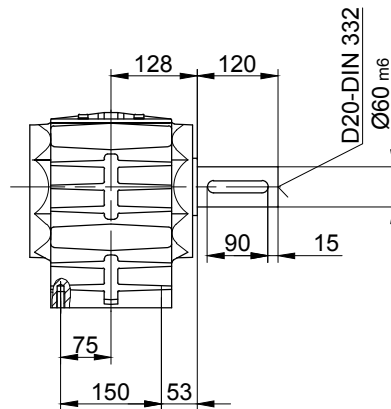
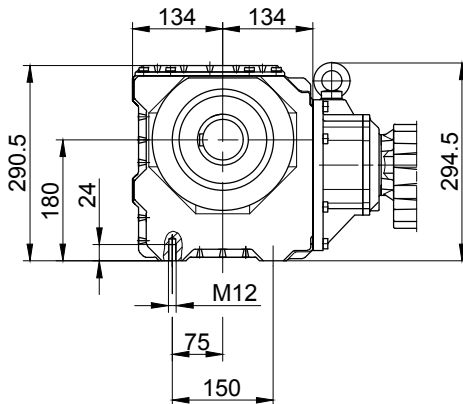
Flange with tapped holes at front

Code -7.V/



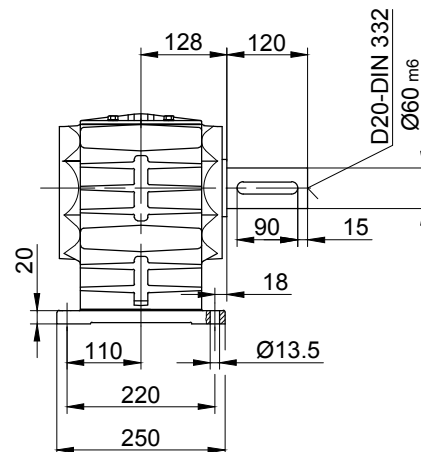
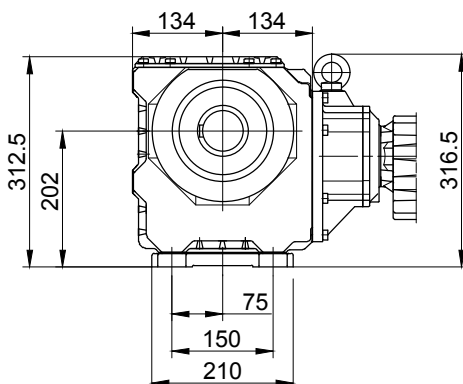
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



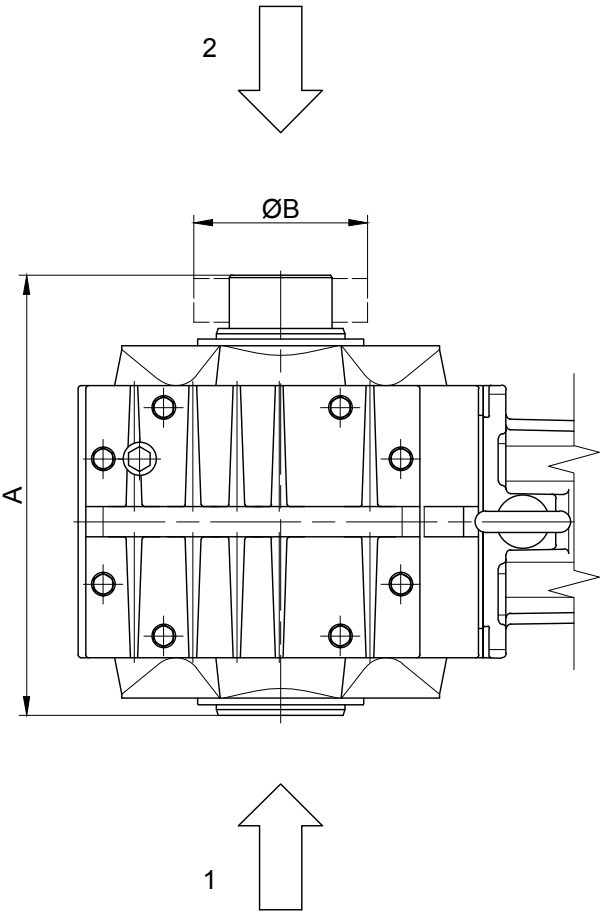
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Metric

Shrink disc coupling (SSV)

(Code BS10Z-.5/...)



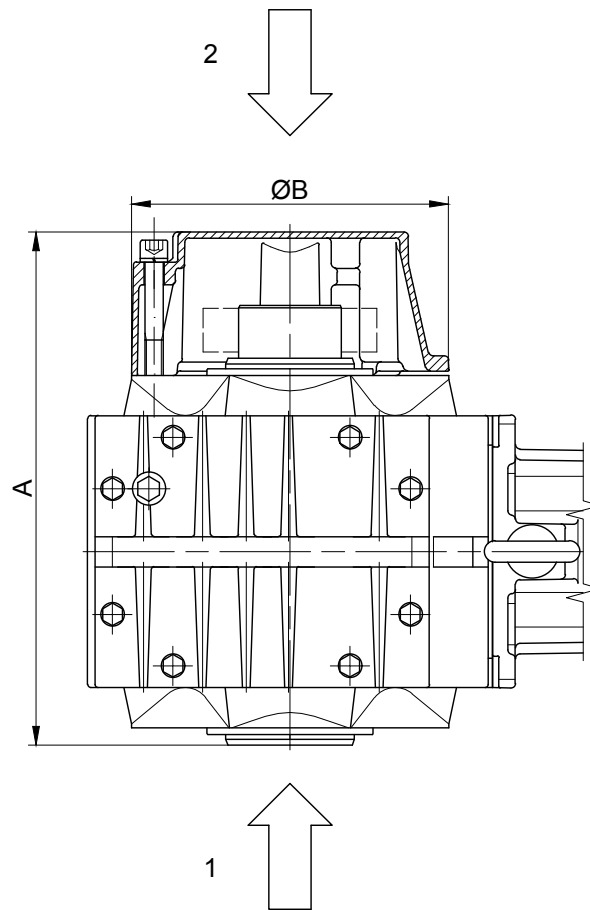
- 1 Gear side FRONT (V)
- 2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	199	72
BS20	RfN 4161 044x080	HSD 44-22x44	239	80
BS30	RfN 4161 050x090	HSD 50-22x50	267	90
BS40	RfN 4161 062x110	HSD 68-22x68	291	115
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc coupling with (SSV) cover

(Code BS10-.5A/...)



- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	221	120
BS20	RfN 4161 044x080	HSD 44-22x44	286	160
BS30	RfN 4161 050x090	HSD 50-22x50	313	160
BS40	RfN 4161 062x110	HSD 68-22x68	340	210

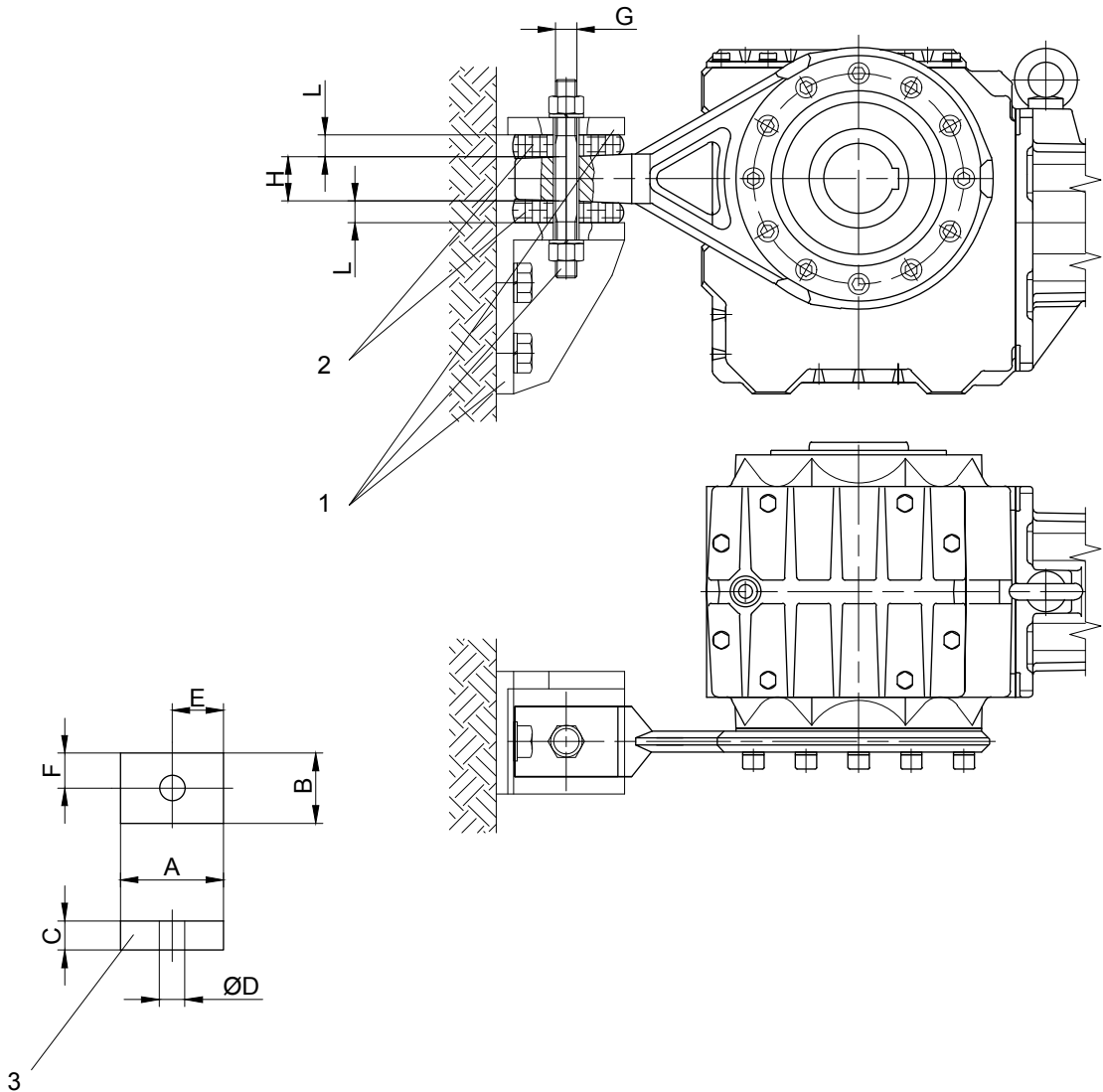
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Metric

Rubber buffer for torque arm



- 1 not included in delivery
2 Rubber buffers pretensioned

- 3 Rubber buffer - only for BS03-BS40
G maximaler Schraubendurchmesser

Material: Natural rubber
Hardness 50 +/-5 Shore A

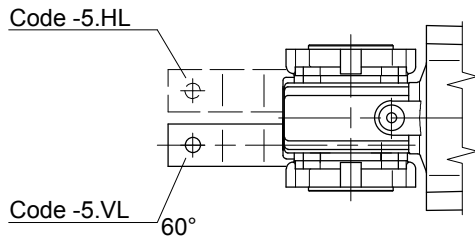
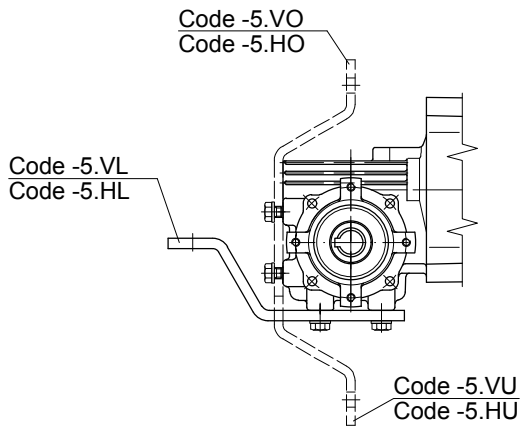
Dimensions of the transverse hole:
see dimensioned sketch of the respective shaft mounted gearbox

Gear	Position	A	B	C	D	E	F	G	H	L
BS02	-	-	-	-	-	-	-	M8	6	-
BS03	Position 0	30	30	12	12	15	15	M8	10	10.5
BS04	Position 0	30	30	12	12	15	15	M8	10	10.5
BS06	Position 0	30	30	12	12	15	15	M10	10	10
BS10	Position 1	48	32	15	14	24	16	M10	19	13
BS20	Position 2	63	43	20	14	31.5	21.5	M10	30	17.5
BS30	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BS40	Position 3	88	60	25	22	44	30	M18	38	22
Dimensions in millimetres (mm)										

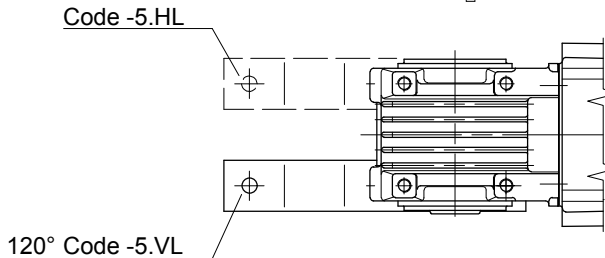
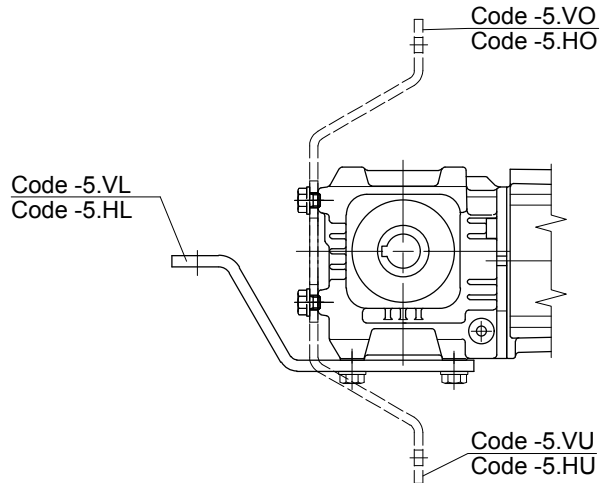
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Position of the torque arm

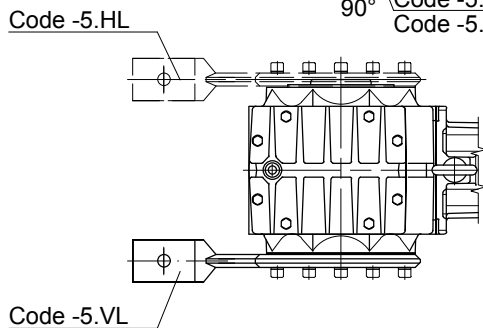
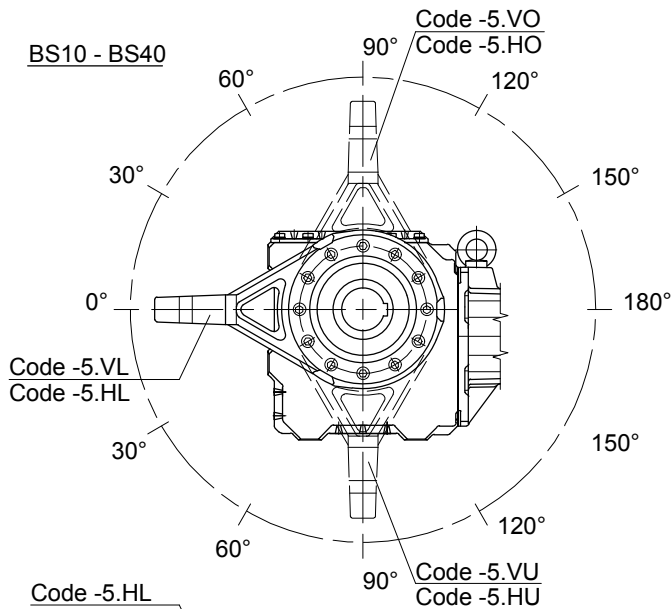
BS02 / BS03



BS04 / BS06



BS10 - BS40



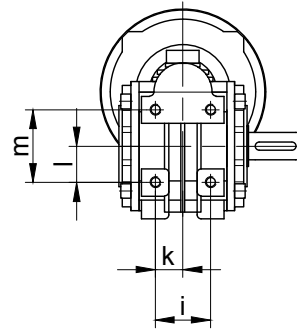
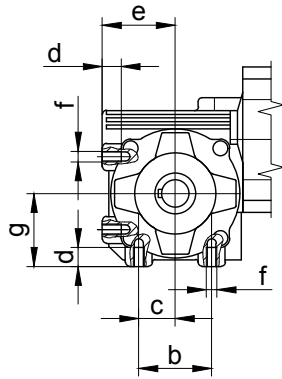
Gear	Position						
	VL/HL	VO/HO/VU/HU					VR/HR
BS10	0°	30°	60°	90°	120°	150°	-
BS20	0°	30°	60°	90°	120°	150°	-
BS30	0°	30°	60°	90°	120°	150°	-
BS40	0°	30°	60°	90°	120°	150°	-

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

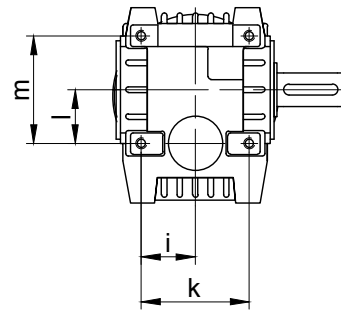
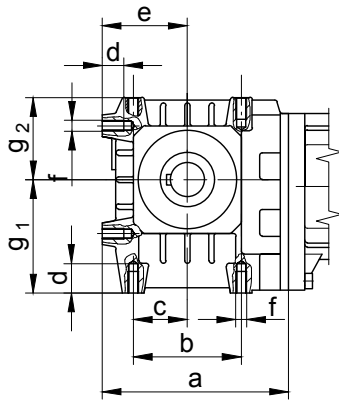
BS-series worm-geared motors

Additional Dimension Sheet Metric

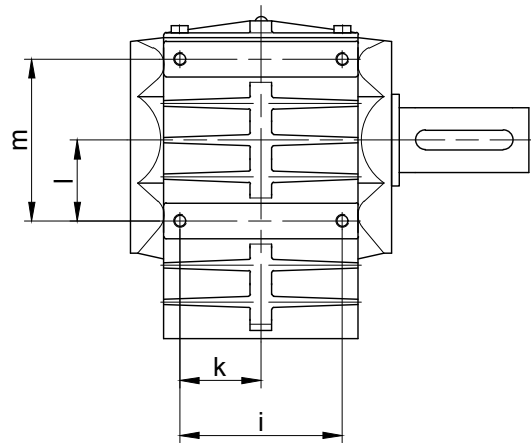
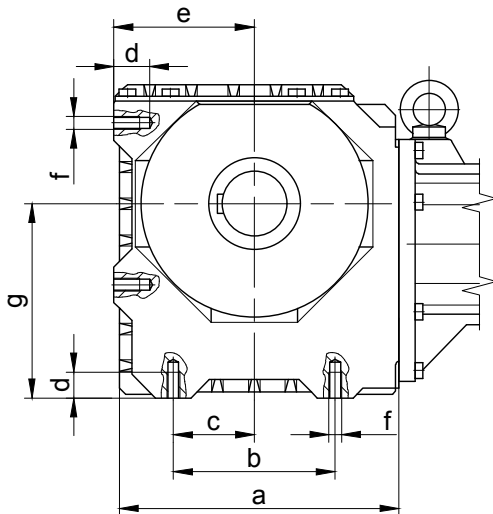
Threaded foot



Type	a	b	c	d	e	f	g	-	i	k	l	m
BS02	-	36	18	10	40	M6	40	-	32	16	18	36
BS03	-	54	27	14	54	M8	54	-	41	20.5	27	54



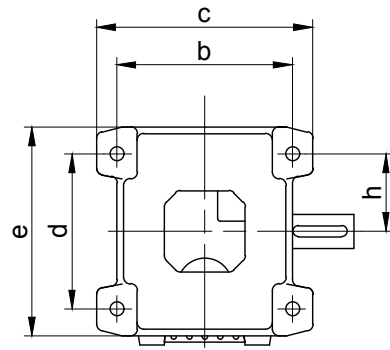
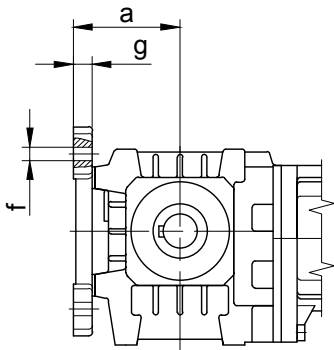
Type	a	b	c	d	e	f	g1	g2	i	k	l	m
BS04	111	60	30	15.5	50	M8	64	49.5	30	60	30	60
BS06	138	80	40	16	63	M8	84	61	40	80	40	80



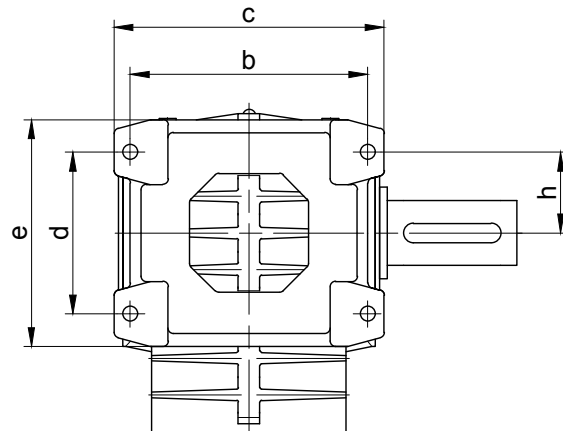
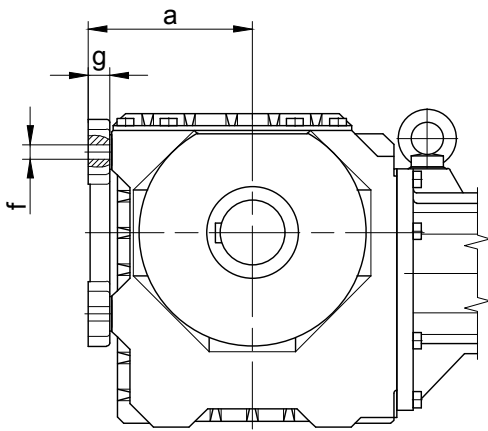
Type	a	b	c	d	e	f	g	-	i	k	l	m
BS10-BS10Z	170	90	45	16	85	M8	105	-	95	47.5	45	90
BS20-BS20Z	202.5	110	55	20	100	M10	125	-	105	52.5	55	110
BS30-BS30Z	228	125	62.5	24	110	M12	150	-	120	60	62.5	125
BS40-BS40Z	264	150	75	24	130	M12	180	-	150	75	75	150

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Foot plate, left



Type	a	b	c	d	e	f	g	h
BS04	68	110	140	90	130	10	15	45
BS06	79	130	160	115	155	10	14	57.5



Type	a	b	c	d	e	f	g	h
BS10-BS10Z	103	145	165	90	130	Ø9	16	72.5
BS20-BS20Z	120	165	195	110	160	Ø11	18	55
BS30-BS30Z	132	190	220	125	185	Ø13.5	20	62.5
BS40-BS40Z	152	220	250	150	210	Ø13.5	20	75

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

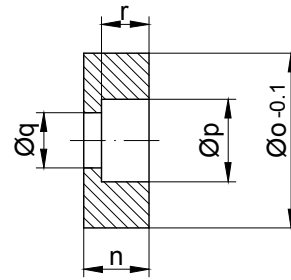
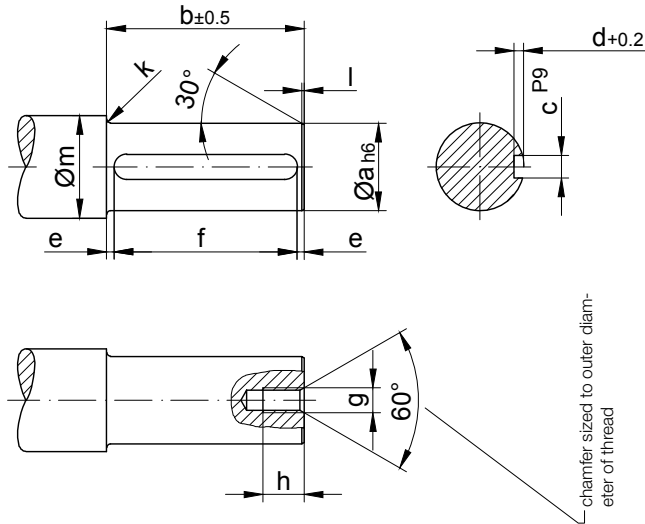
BS-series worm-geared motors

Additional Dimension Sheet Metric

Assembly tools for hollow shaft and keyway

Position 1 Shaft

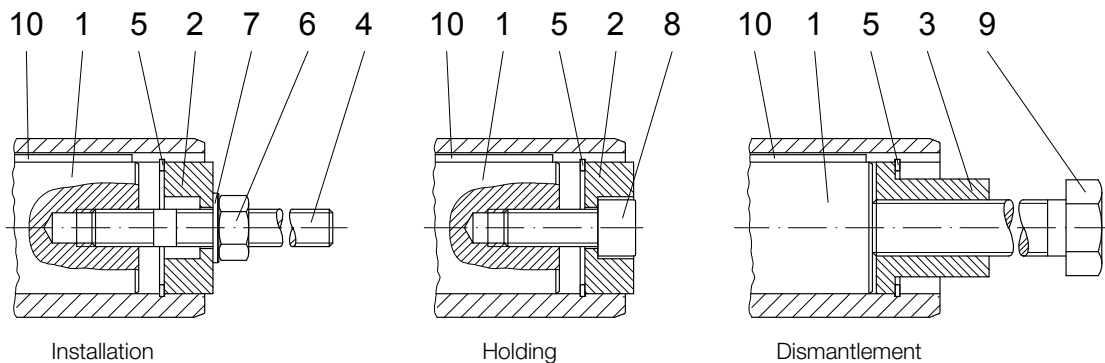
* Position 2 Disc



✓, Edges cut
Material:
C45 DIN 17200

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	Dimensions (mm)															
	Position 1 Shaft											Position 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BS03	20	75	6	3.5	6	63 ^{+0.3}	M6	16	2	1.5	28	13.5	19.8	11	6.6	6.5
BS04	20	71	6	3.5	7.5	56 ^{+0.3}	M6	16	2	1.5	28	13.5	19.8	11	6.6	6.5
BS06	25	99	8	4	9.5	80 ^{+0.3}	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BS10	30	152	8	4	6	140 ^{+0.5}	M10	20	3	1.5	38	15	29.8	18	11	10
BS20	35	186	10	5	13	160 ^{+0.5}	M10	20	3	1.5	43	16	34.8	18	11	10
BS30	40	212	12	5	6	200 ^{+0.5}	M12	22	3	2	48	18	39.8	20	13.5	12
BS40	60	227	18	7	13.5	200 ^{+0.5}	M20	38	3.5	2	68	24	59.8	33	22	18



The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos.9 against loosening!

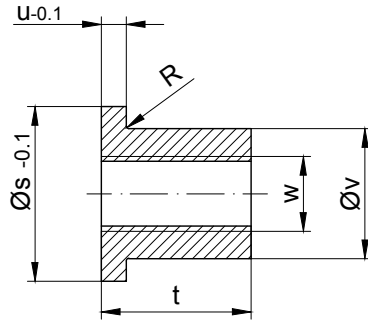
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Metric

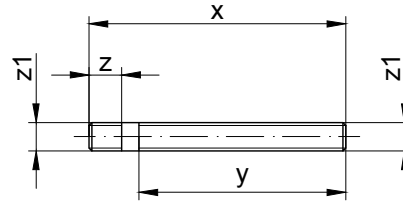
Assembly tools for hollow shaft and keyway

Position 3 Sleeve



✓^{x/}, Edges cut
Material:
C45 DIN 17200

* Position 4 Stud bolt



Material: Steel, tensile strength
≥ 1000N/mm²
Threads rolled

Shaft extension tolerance:
up to 1.5 in diameter: +0.000 / -0.0005 in
over 1.5 in diameter: +0.000 / -0.001 in
Flange spigot diameter: +0.0003 / -0.0015 in

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1							
BS03	19.8	24	5	11	M8	-	120	90	18	M6	20x1.0	M6	6.4	M6x25	5	M8x110	A 8x7x63
BS04	19.8	24	5	11	M8	-	120	90	18	M6	20x1.0	M6	6.4	M6x25		M8x110	A 8x7x56
BS06	19.8	24	5	15.4	M12	0.8	150	120	20	M8	25x1.2	M8	8.4	M8x30		M12x140	A 8x7x80
BS10	29.8	28	5	19.8	M14	0.8	210	175	23	M10	30x1.2	M10	10.5	M10x30	8	M14x190	A 8x7x140
BS20	34.9	28	5	23	M14	-	250	215	23	M10	35x1.5	M10	10.5	M10x35		M14x230	A 10x8x160
BS30	39.9	40	6	27.7	M20	0.8	280	240	28	M12	40x1.75	M12	13	M12x35	16	M20x270	A 12x8x200
BS40	59.8	60	6	44	M30	-	320	260	45	M20	60x2.0	M20	21	M20x50	42	M30x310	A 18x11x200

The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

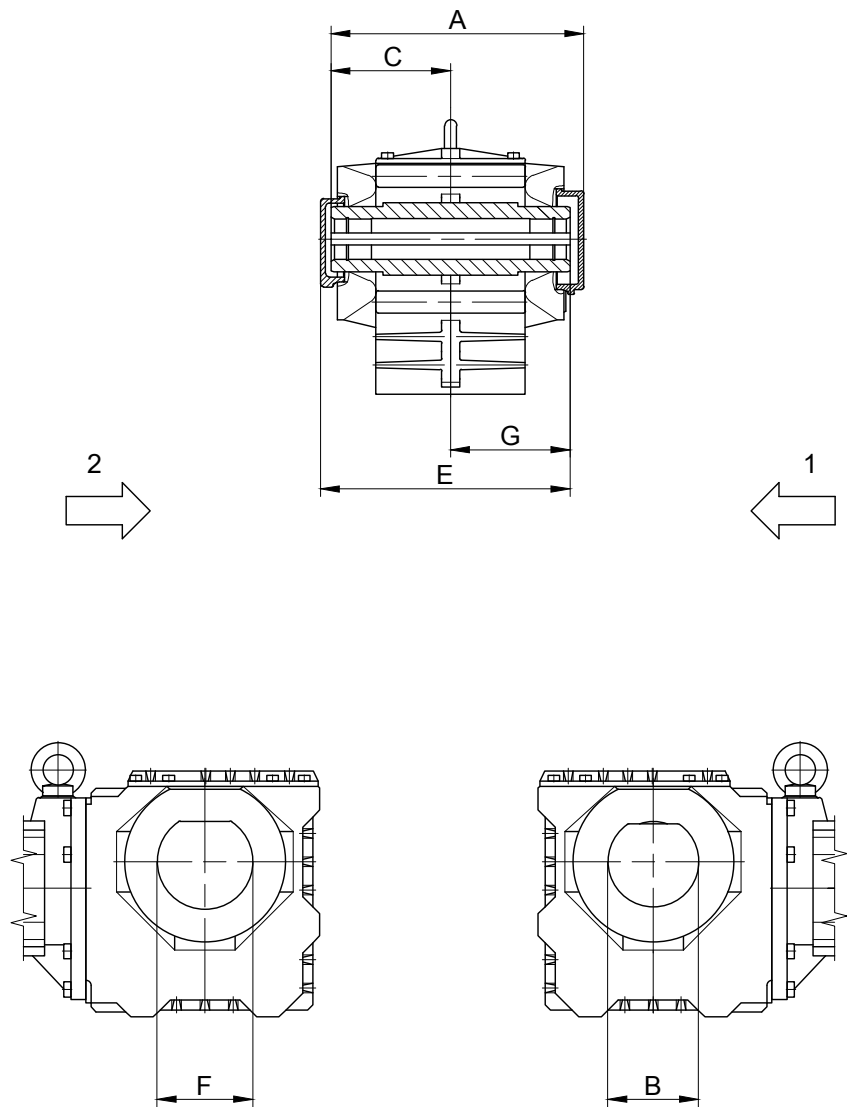
Optional	Type	Order text
	BS03	Id.Nr. 4104013 Assembly tool „holding“
	BS04	Id.Nr. 4104013 Assembly tool „holding“
	BS06	Id.Nr. 4103921 Assembly tool „holding“
	BS10	Id.Nr. 4103939 Assembly tool „holding“
	BS20	Id.Nr. 4103947 Assembly tool „holding“
	BS30	Id.Nr. 4103955 Assembly tool „holding“
	BS40	Id.Nr. 4103971 Assembly tool „holding“

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet Metric

Shaft cap (VK)



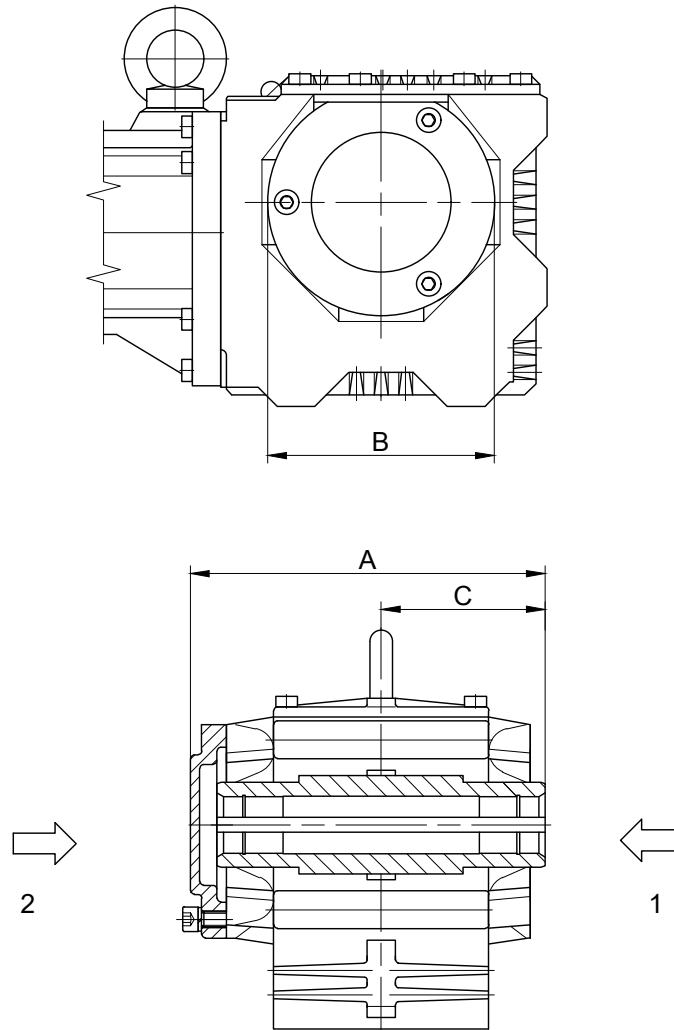
- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Sealing cap REAR (H)			
Type	A	B	C
BS10	186	68	87
BS30	250.5	100	132
BS40	276	130	128
Dimensions in millimetres (mm)			

Sealing cap FRONT (V)			
Type	E	F	G
BS20	221	78	104.5
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shaft cover (VD)



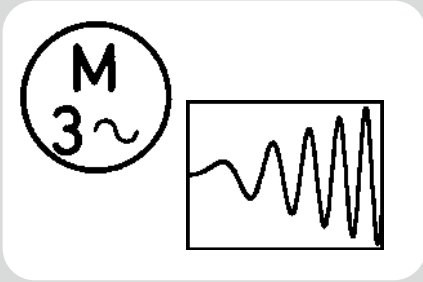
- 1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BS04	99.5	68	46.5
BS06	128.5	81	60.5
BS10	185	Ø120	87
BS20	224.5	Ø160	104.5
BS30	251.5	Ø160	118.5
BS40	275	Ø210	128
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Energy Efficient Geared Motors

AC Line Operated / North America



14

Motors

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USA – Energy Policy and Conservation Act

Integral Horsepower Rule (IHP rule)

Department of Energy

10 CFR Part 431: Energy conservation Program: Energy Conservation Standards for Commercial and Industrial Electric Motors

Effective date: June 1, 2016

Motors, as shown below, covered under the IHP rule shall have a nominal full-load efficiency not less than Premium efficiency level shown under §431.25 and NEMA MG1, Table 12-12.

From the IHP rule covered Motors:

- Single speed motor
- Contains a squirrel-cage (MG 1) or cage (IEC) rotor
- Operated on polyphase alternating current (AC) 60-hertz sinusoidal line power
- Rated output PN between 1HP and 500 HP
- 2-, 4-, 6-, or 8-pole motors
- Rated voltage of UN up to 600 V
- Rated for continuous duty (MG 1) operation or for duty type S1 (IEC)

From the IHP rule exempt motors :

- Air-over electric motors
- Component sets of an electric motor
- Liquid-cooled electric motors
- Intermittent duty motors (S2-S8)
- Inverter-only electric motors (S9)
- Multi-speed motors (pole change motors)
- Submersible electric motors
- Where ambient temperatures exceed +40°C (NEMA MG1-2009 Part 14.2)
- Where ambient temperatures are less than -15°C (NEMA MG1-2009 Part 14.2)
- At altitudes exceeding 3300 feet (1000 meters) (NEMA MG1-2009 Part 14.2)
- Single phase motors
- Synchronous AC motors
- Permanent magnet rotor AC motors
- Servo motors



ErP Directive 2009/125/EC

Directive 2009/125/EC of the European Parliament and the Council, issued in 2009, specifies requirements for the environmentally responsible design of energy-related products (ErPs). In November 2009 it superseded Directive 2005/32/EC, which formed the framework for requirements for the environmentally responsible design of energy-using products (EuPs). This change has no effect on already proclaimed implementation measures.

Objectives

The ErP Directive has several objectives:

1. Mitigating the environmental impact of energy-using products

This objective is intended to be achieved by the documentation and labelling of products, by regulations for inspection, and by the formulation of individual requirements in implementation measures. As the entire product life cycle is taken into consideration, action must be taken as early as the design phase.

2. Climate protection

Achievement of the EU climate protection objectives is to be supported. This can be implemented by reducing energy consumption and the emission of global warming gasses in the production, operation and disposal of energy-using products.

3. Harmonised legislation

The directive creates a framework for the European regulation of environmental design requirements. This avoids trade impediments resulting from differences in national regulations. This can be achieved by means of the proclamation of legally binding implementation measures for the entire Community and protection of free trade in goods against further-reaching regulations of the Member States.

Regulation (EG) 640/2009 & (EU) 4/2014

For the implementation of the Directive

Efficiency requirement: IE3 + IE2 for inverter operation

Valid since: 01.01.2017

Scope

- Single-speed, three-phase, 50 Hz and 60 Hz
- 2-, 4- or 6-pole motors
- Rated power from 0.75 to 375 kW
- Nominal voltage UN up to 1000 V
- Continuous operation

Which motors are excluded from the scheme?

- Motors designed to be operated completely immersed in a liquid
- motors fully integrated into a product (e.g. a gearbox, a pump, a fan or a compressor) whose energy efficiency cannot be measured independently of that product
- at altitudes above 4000 meters above sea level
- at ambient temperatures above 60 °C
- at ambient temperatures below - 30 °C (any motor) or at ambient temperatures below 0 °C (air-cooled motor)
- in potentially explosive atmospheres within the meaning of Directive 94/9/EC of the European Parliament and of the Council
- Brake motors

Example:



Regulation (EU) 2019/1781

To establish eco-design requirements for electric motors and variable speed drives pursuant to Directive 2009/125/EC

Valid from: 01.07.2021

- Frequency converter 0.12 - 1,000 kW: IE2
- 3-phase motors 0.12 < 0.75 kW/2.4, 6 or 8 poles: IE2 (Excluded: Ex eb (DXE))
- 3-phase motors 0.75 - 1,000 kW/2.4, 6 or 8 poles: IE3 (Excluded: Ex eb (DXE))

ATTENTION:

Brake motors are no longer exempt!!

IE2 for inverter operation is no longer permitted!!!

Valid from: 01.07.2023

- 1-phase motors ≥ 0.12 kW: IE2
- Ex eb (DXE) Motors ≥ 0.12 kW: IE2
- 3-phase motors 75 kW – 200 kW 2, 4 or 6 pole: IE4
(Exempt: brake motor and all explosion-proof motors)

Scope

Induction electric motors without brushes, commutators, slip rings or electrical connections to the rotor, rated for operation on a 50 Hz, 60 Hz or 50/60 Hz sinusoidal voltage and having the following characteristics:

- 2-, 4-, 6- and 8-pole motors
- Rated power PN between 0,12 kW and 1000 kW
- Rated voltage UN over 50 V up to and including 1,000 V
- are designed for continuous operation (S1, S3 ≥ 80 % ED, S6 ≥ 80 % ED) and are intended for direct mains operation

Which engines are excluded from the scheme?

- Motors designed to be operated completely immersed in a liquid
- Motors fully integrated into a product (e.g. a gearbox, a pump, a fan or a compressor) whose energy efficiency cannot be measured independently of that product
- Motors with integrated frequency converter (compact drives) whose energy efficiency cannot be tested independently of the frequency converter
- Motors specifically designed and specified to operate exclusively
 - at altitudes exceeding 4000 m above sea-level
 - at ambient temperatures above 60 °C
 - at ambient temperatures below -30 °C
- Motors with integrated brake, which is an integral part of the inner motor construction and cannot be removed or supplied from a separate power source when testing the motor efficiency.
- Motors specifically qualified for the safety of nuclear installations, as defined in Article 3 of Council Directive 2009/71/EURATOM
- Motors with mechanical commutators
- Totally enclosed Non-Ventilated motors (TENV)
- Engines from the respective scope of application of the two deadlines 01.07.2021 or 01.07.2023, which were placed on the market before these deadlines, may continue to be placed on the market until 30.06.2029 as 1:1 replacements and may be specifically marketed as such
- Multi-speed motors, i.e. pole-changing motors
- Motors designed specifically for the traction of electric vehicles
- Motors in portable equipment whose weight is supported by hand during operation
- Motors in hand-held mobile equipment which are moved during operation
- Motors in cordless or battery-operated equipment
- Motors for underground mining (mines)

Method for determining the motor efficiency according to IEC 60034-2-1

Individual loss procedure
Additional losses according to residual loss method
Low measurement uncertainty

Bauer geared motors for connection to three-phase supply are supplied with specially designed induction motors. This design ensures maximum operating safety with high breakaway torque and minimum starting current.

The torque/speed characteristic is largely free of torque dips. Torque is optimized to suit requirements and application parameters. See "www.bauergears.com" for more information.

Torques

The torques as stated in the selection tables are fully available at the output shaft. These figures apply for continuous operation (S1-100%) at a maximum ambient temperature of 40 °C and at site elevations up to 1000 m above sea level. Drives for higher ambient temperatures and site elevations are available on request. Gear efficiencies, which are lower than the usual values for spur gears, are taken into account in the torques listed in the selection tables.

Line voltages

BAUER motors are available as standard for the following three-phase line voltages:

- 230V / 460V 60 HZ (Standard)
- 230V / 400V 50 Hz*
- 240V / 415V 50 Hz
- 440V / 60 Hz
- 460V / 60 Hz
- 480V / 60 Hz
- 575V / 60 Hz
- 380V / 660V 50 Hz
- 400V / 690V 50 Hz*
- 415V / 50 Hz

*Voltage recommended world-wide by IEC 38 and in Europe by CENELEC.

**= Insulation Class F is necessary.

Designs for other voltages available on request and at extra cost.

Unless otherwise specified, motors for operation in conjunction with frequency converters with a 50 or 60 Hz frequency have a Y-circuit to optimise operating noise and winding load.

Unless otherwise stated, the tolerance for the rated voltage is +/- 5 %, in accordance with IEC 60034-1.

The D04 to D18 motors in 4 pole design can be operated within a tolerance of +/- 10 % of the rated voltage (400 V 50 Hz).

Line frequencies

All motors are available with the same power ratings for either 50 or 60 Hz . Increased power models are available on request.

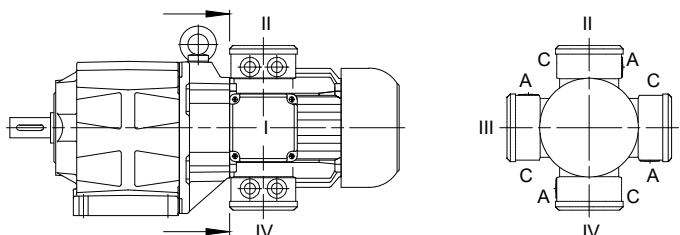
Rating plate

Bauer geared motors are supplied with a corrosion-proof rating plate as standard. The standard rating plate is made of special plastic tried and tested in many years of practical use and approved for hazardous areas by the Physikalisch-Technische-Bundesanstalt (PTB).

		Bauer®			
Gear Motor		Somerset, NJ 08873			
3~Motor			Year		
Type BS03-34V/D08LA4-TOF/AV					
1.5 HP		1.1 kW		Con DD/D	
Gear 210		Rpm		230/460 V	
Motor 1680		Rpm		60 Hz	
COS 0.76		5.0/2.5		A	
 0.4		PINTS			
Insul. Cl. F		IP 65		IM V2/II/A	

Terminal box

The cables of motors with and without brakes can be introduced into the motor terminal box from side A, B, C or side D.

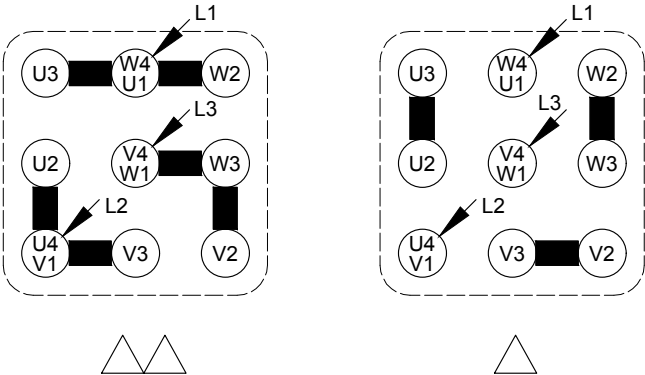


The standard position for the motor terminal box is shown in the dimensional drawings for the geared motors (see chapter 10,11,12 and 13). The terminal box can be installed at any of 3 other positions on request, if on-site space is restricted. The 4 possible positions are 90° offsets around the axis of the motor (dimensional drawing and designation for standard terminal box, see chapter 17 "Dimensional drawing standard terminal box").

Screw- on terminal boxes, see page 486 for inlet screw dimensions.

Please note holes on terminal box sides are for brake installation and are metric.

Motor for dual voltage connection 1 : 2 DD/D



	IEC / EN 60034-8	NEMA MG 1	Colour
Supply lines	L1 L2 L3	L1 L2 L3	
Motor winding	U1 - U2 U3 - U4 V1 - V2 V1 - V2 W1 - W2 W3 - W4	T1 - T4 T7 - T10 T2 - T5 T8 - T11 T3 - T6 T9 - T12	black-black yellow-yellow blue-blue red-red brown-brown violet-violet
DD	Connections for the low rated voltage (e.g.: 230 V)		
D	Connections for the high rated voltage (e.g.: 460 V)		

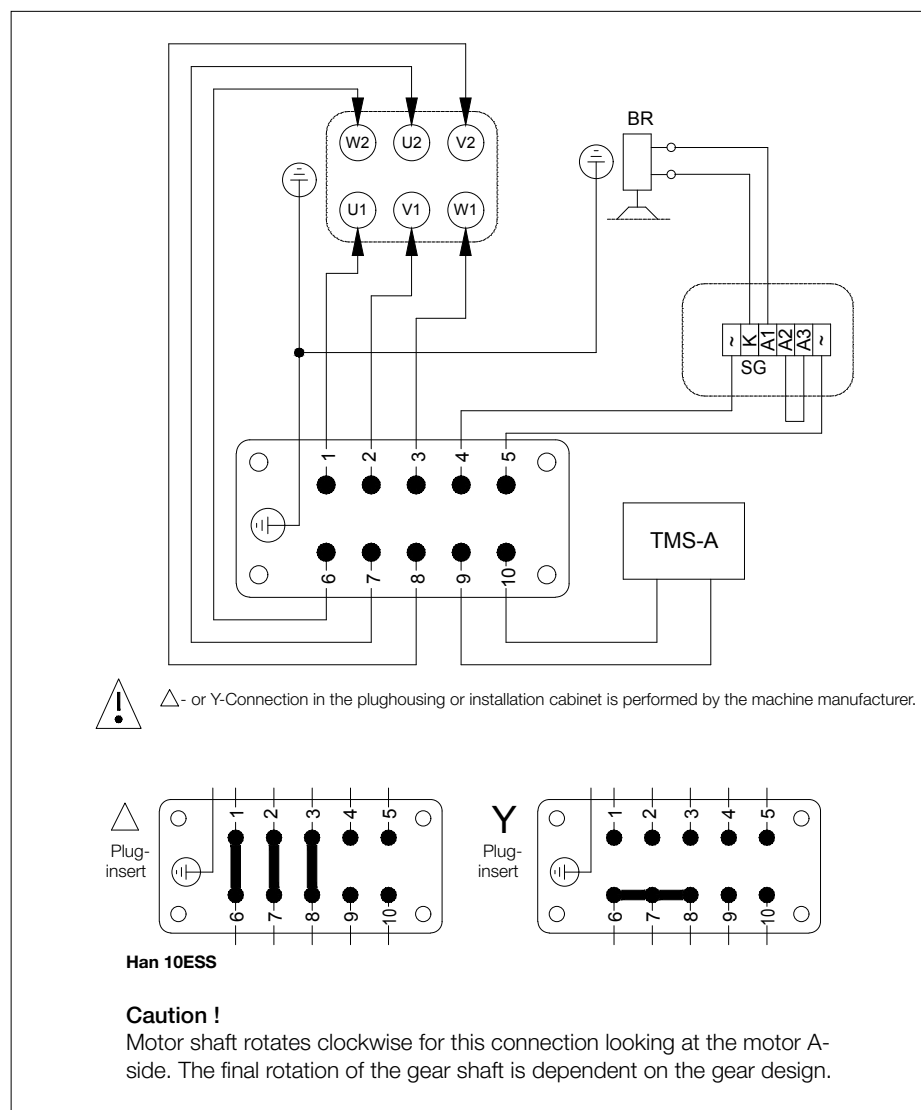
Plug-and-socket connection

D06 to D..16 Bauer motors are available with plug-in motor connection. The socket housing is mounted on the fan-cowl side of the terminal box as standard. This layout minimizes the protrusion caused by the plug.

The standard plug-and-socket type connection incorporates the attachment housing, pin insert and cover. Grommet-type housings and jack inserts are available on request at extra cost. Pin assignments on request (dimensional drawing, see chapter 17 "Dimensional drawing, plug-connector terminal box").



A design with single clamp lever according to the DESINA regulation of the „Verbandes Deutscher Werkzeugmaschinenhersteller“ (VDW) is also available.



The motors are also available with a low-cost round plug connector as an alternative. This is fitted at the factory in the standard terminal box and is also suitable for brake connection, thermistors and thermostats. Additional information on request.

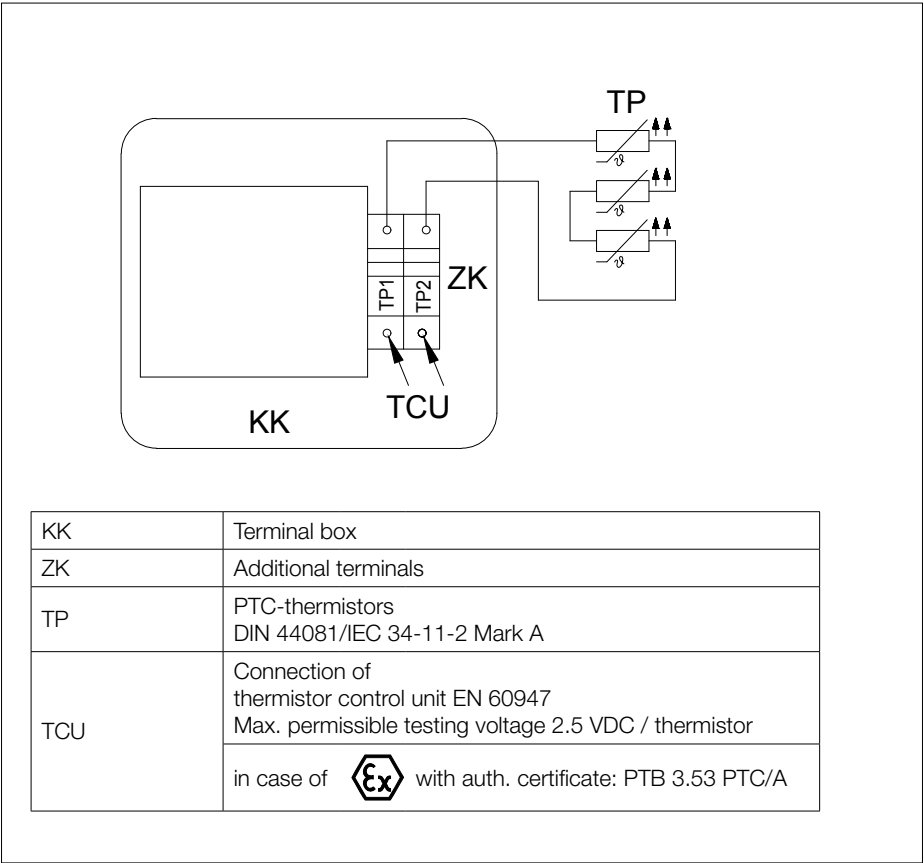
Bauer motors from D08 with motor-mounted brake are also available with plug-in brake connection. This means that if it requires attention, the brake can be replaced on site with no loss of time.

Motor protection

Each geared motor requires a current-dependent motor protection switch or an overcurrent relay with thermal delay in the switchgear to protect the motor windings. The rated motor currents required for settings are stated in the order acknowledgment. Thermal protection for the winding is recommended as an additional safety measure for special operating conditions (short-time or intermittent periodic duty, high switching frequency, severe voltage fluctuations or restricted cooling) and for operation in conjunction with a frequency converter.

Thermistors (PTC)

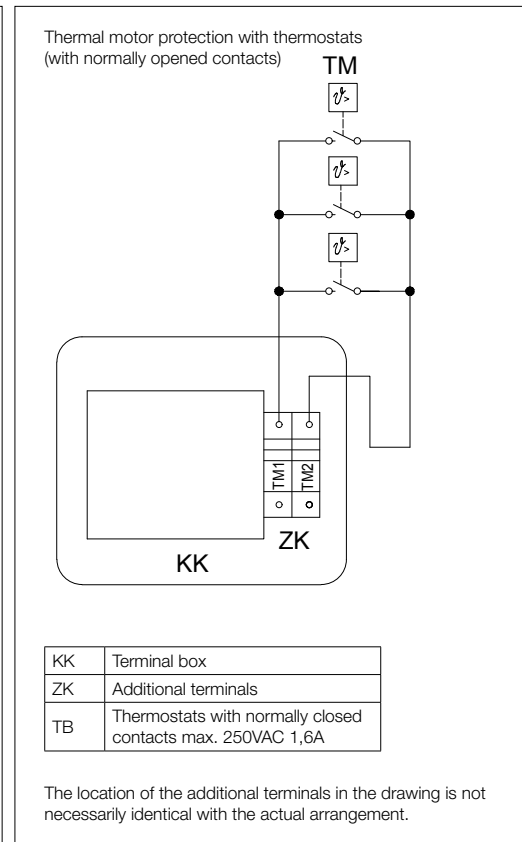
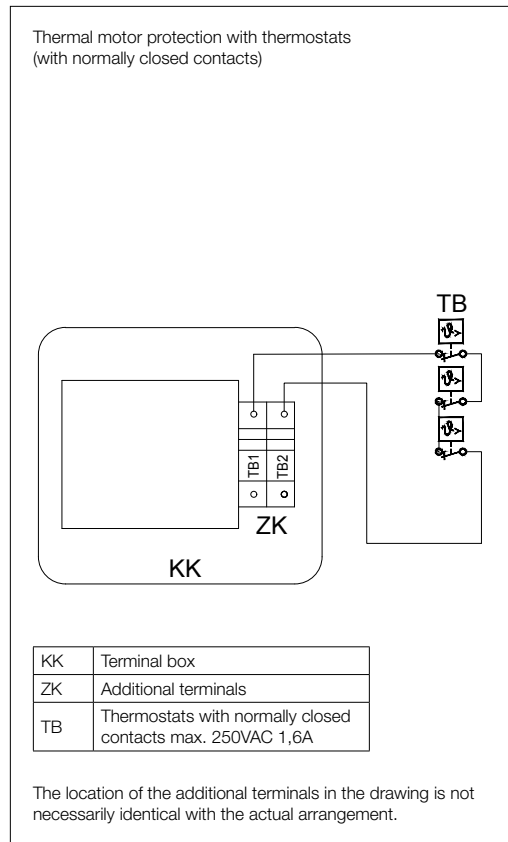
Thermistors are temperature-dependent resistors which are fitted in each phase winding. In conjunction with a motor protection switch, they ensure optimum protection for the winding in the event of rapid temperature rise. Characteristic to DIN 44081 and "Mark A" to IEC 34-11-2. Thermistors are available for all motors at extra cost. The requisite monitoring device is not included in the scope of supply.



Thermostatic protection

Bimetal switches are used for slow-acting, independent temperature monitoring and are embedded in each winding section of the motor.

The bimetal disc is sized such that when the temperature rises above a specific, previously set value, the disc suddenly snaps from a convex state to a concave state and the contact moves vertically away from the contact plate. In this state the switch is either open (normally closed switch) or closed (normally open switch). A significant temperature change is necessary to allow the bimetal disc to independently snap back to its initial position. When it does, the switch is again closed (normally closed switch) or open (normally open switch). Thermal protection switches are available for all motors at additional cost. For technical reasons, this option is not recommended for large motors (D11 to D18).

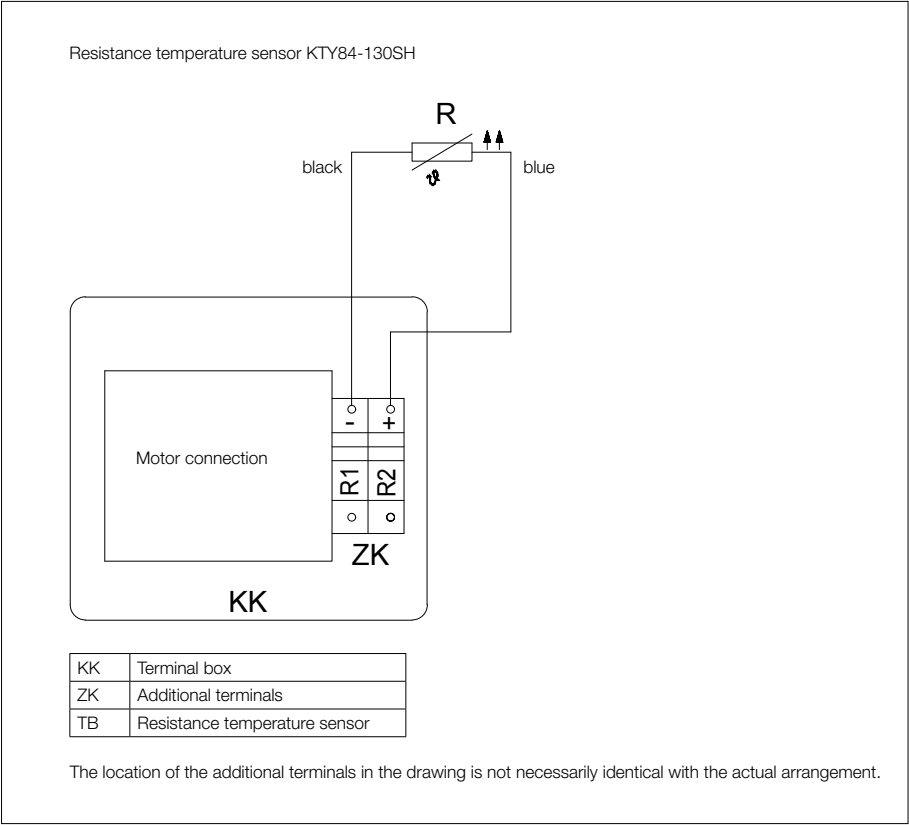


KTY sensors

KTY sensors with heat-shrink insulation can be used to measure and monitor critical surface temperatures and internal temperatures of motors and machines. These sensors are suitable for use in harsh industrial environments in all places where accurate measurements with a single sensor are required. KTY sensors are available for all types of motors at additional cost.

Type 84-130SH: primarily installed in motors that are operated with Siemens frequency converters.

Working principle: KTY sensors are temperature-dependent components. The resistance of the KTY sensor increases when its temperature rises. The characteristic curve is nearly linear in the sensor's measuring range; the reference resistance (at 100 °C) is 970 to 1030 ohms.



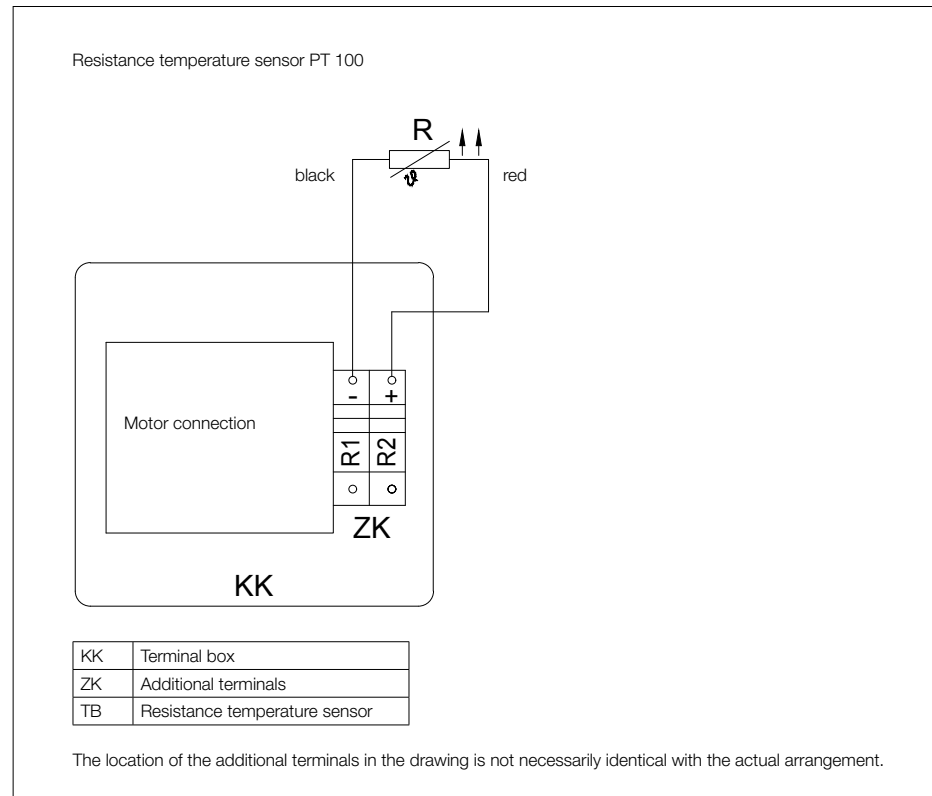
PT100 sensors

Precise monitoring of motor temperatures is necessary in many fields of industry. Pt100 sensors feature high accuracy, short response time and long-term stability, and they are suitable for use over a wide range of temperatures. Pt100 sensors are available for all motor types at additional cost.

Specifications

Nominal resistance: 100 Ω at 0 °C

The resistance characteristics are specified in EN 60751.



Insulation

The gearmotors described in the selection tables of this catalog with the motor sizes D04, D05, D06, D08, D..09S and D..09L are executed in insulation class B. Temperature class F is available on request at extra cost.

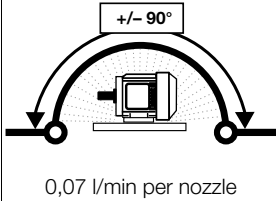
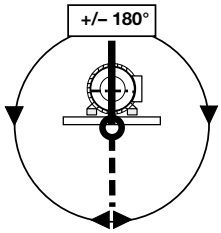
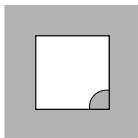
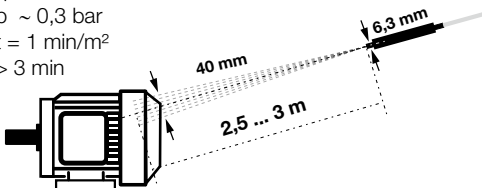
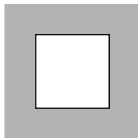
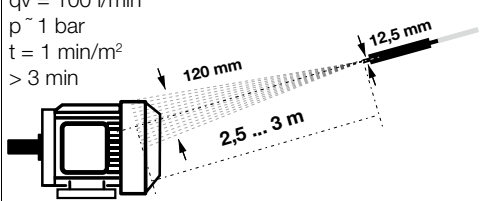
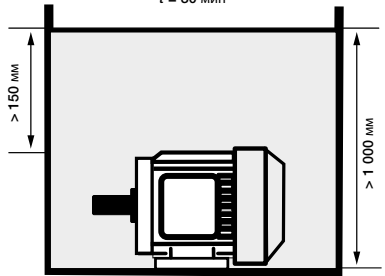
4-pole motors D07 and D..09XA4 (2.2 kW) to D..18XA4 (30 kW) and all multi-speed motors are rated in Temperature Class F as standard.
Insulation Class F bestows the winding a multiple protection against high humidity, acidic gases and heavy tropical influences while making the same shock resistant and more resistant to heat. Protection against insects (termites) is guaranteed through the complete enclosure (IP65) as long as the mains cables are encased in metal.

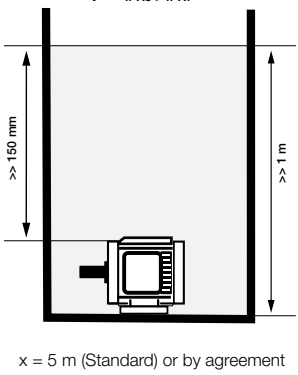
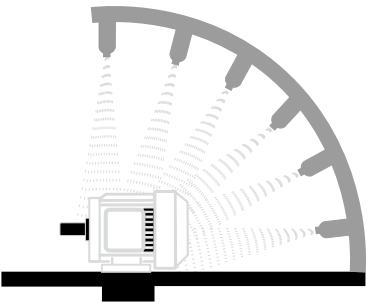
IP – Protection classes

Bauer motors from motor size D06 are manufactured to IP65 degree of protection as standard. Motor sizes D04 and D05 have smooth housings, degree of protection IP 54, on request in IP65 at extra cost. The motor terminal box is always IP 65.

Bauer motors from motor size D06 are manufactured to IP65 degree of protection as standard. Motor sizes D04 and D05 have a smooth motor housing of IP54. Higher IP protection classes on request.

Degrees of protection provided by enclosures for electrical equipment

First IP - code number after DIN EN 60529				Second IP - code number after DIN EN 60529				
Protection against penetration of solid foreign bodies			Protection of persons against access to hazardous parts with		Protection against penetration of moisture or water			
4	diameter ≥ 1,0 mm		 Wire	 	4	Splash water	 0,07 l/min per nozzle	
5	Dustproof				5	Jet water	 $q_v = 12,5\text{ l/min}$ $p \sim 0,3\text{ bar}$ $t = 1\text{ min/m}^2$ $> 3\text{ min}$ 40 mm 2,5 ... 3 m 6,3 mm	
6	Dust tight				6	Strong Jet water	 $q_v = 100\text{ l/min}$ $p \sim 1\text{ bar}$ $t = 1\text{ min/m}^2$ $> 3\text{ min}$ 120 mm 2,5 ... 3 m 12,5 mm	
					7	Temporary Submerge	 $t = 30\text{ min}$ $> 150\text{ mm}$ $> 1000\text{ mm}$	

First IP - code number after DIN EN 60529		Second IP - code number after DIN EN 60529	
Protection against penetration of solid foreign bodies	Protection of persons against access to hazardous parts with	Protection against penetration of moisture or water	
		8	Permanent Submerge 
		9 (9K = DIN 40050-9)	High pressure and high jet water temperature Housing ≥ 250 mm $t = 1 \text{ min /m}^2$ $> 3 \text{ min}$ Water temperature $(80 \pm 5) ^\circ\text{C}$ 15 l/min, 100 bar Distance (175 ± 25) mm 

Speed of output shaft

The rated speeds in the selection tables are guidelines for load at rated power. Speed can vary depending on degree of load and temperature (particularly in the case of relatively small motors). Combination gear units for lower speeds are available on request.

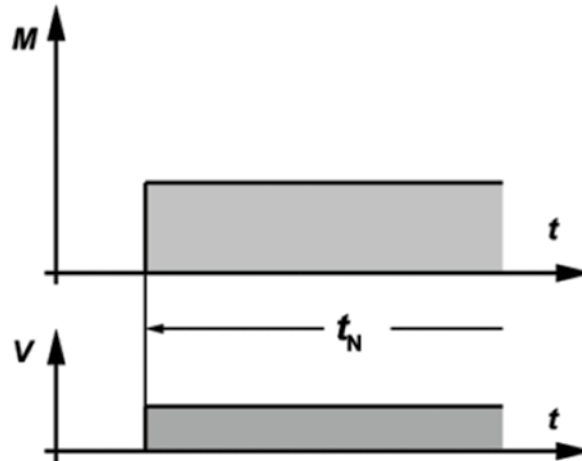
Motors

Duty types as defined by EN 60034

General

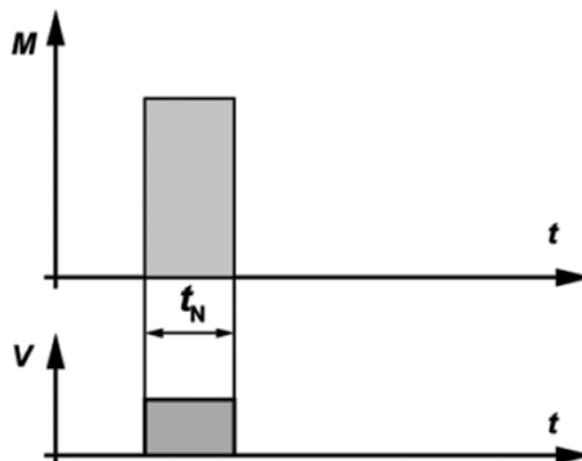
Aside from special drives (such as lifting equipment), standard motors are always designed for continuous running duty. If the drive is operated with frequent on/off cycles, it may be necessary to select a larger motor with a special design. On the other hand, with pronounced short-time duty it is often possible to select a smaller model. **For this reason, it is technically necessary or economically advantageous to inform the motor manufacturer of any duty type that differs from continuous running.**

Continuous running duty (S1)



Operation under rated load for sufficient time to allow temperature equilibrium to be attained, such that the temperature does not increase any more with continued operation. The equipment can operate continuously under the rated load without exceeding the allowable temperature.

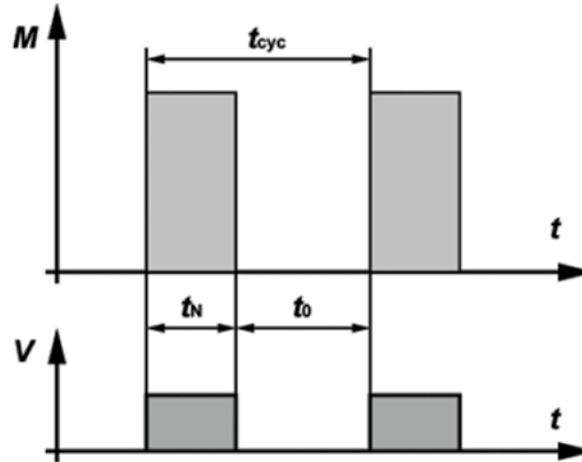
Short-time duty (S2)



The operating time under rated load is short compared with the subsequent rest period. The standard operating times are 10, 30, 60 and 90 minutes. The equipment can operate for this period under the rated load without exceeding the allowable temperature.

Example: S2 – 60 min

Intermittent periodic duty (S3)



S3 duty consists of a sequence of identical cycles, each composed of an operating time with constant load and a rest time with the windings de-energized. The cycle is such that the starting current does not significantly affect the temperature rise. The operating time under rated load and the subsequent pause are both short. The equipment can operate under load only during the period indicated by the duty cycle as a percentage of the total cycle time (cycle duration).

The standardized duty cycles are 15, 25, 40 and 60 %. The cycle duration is 10 minutes unless otherwise specified.

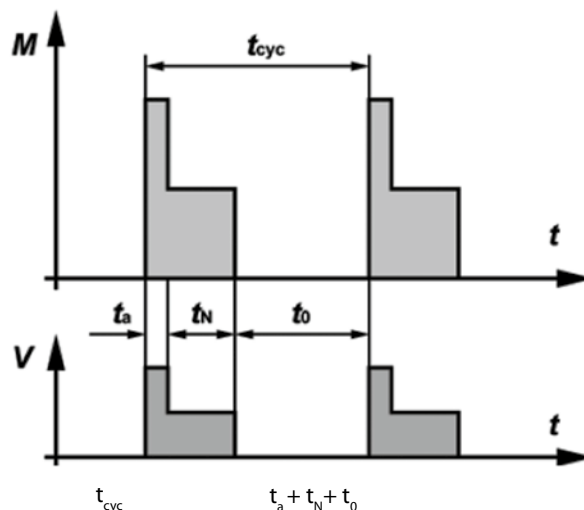
Intermittent periodic duty means that a state of thermal equilibrium is not reached during the load interval.

The duty cycle can be determined as follows:

$$ED = \frac{t_N}{t_{cyc}} \times 100\% = \frac{t_N}{t_N + t_0} \times 100\%$$

Example: S3 – 25%

Intermittent periodic duty with starting (S4)



S4 duty consists of a sequence of identical cycles, each of which is composed of a distinct starting time, a time of operation under constant load, and a rest period with the windings de-energized.

The operating time under rated load and the subsequent pause are both short. The equipment can operate under load only during the period indicated by the duty cycle as a percentage of the total cycle time (cycle duration).

The standardized duty cycles are 15, 20, 40 and 60 %. The cycle duration is 10 minutes unless otherwise specified.

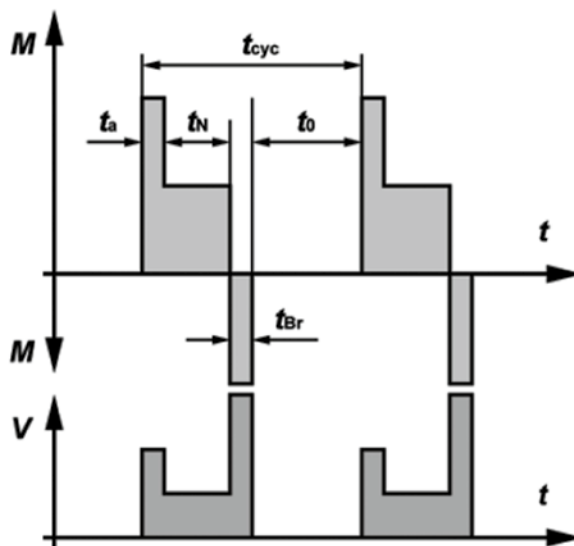
The load cycle corresponds to mode S3, but with additional heating during the starting time that must be taken into account.

The duty cycle can be determined as follows:

$$ED = \frac{(t_a + t_N)}{t_{cyc}} \times 100\% = \frac{t_a + t_N}{t_a + t_N + t_0} \times 100\%$$

Example: S4 – 25%, $J_M = 0.15 \text{ kgm}^2$

Intermittent periodic duty with electric braking (S5)



S5 duty consists of a sequence of identical cycles, each of which is composed of a starting time, a time of operation under constant load, a time of fast electric braking, and a rest period with the windings de-energized.

The operating time under rated load and the subsequent pause are both short. The equipment can operate under load only during the period indicated by the duty cycle as a percentage of the total cycle time (cycle duration).

The standardized duty cycles are 15, 20, 40 and 60 %. The cycle duration is 10 minutes unless otherwise specified.

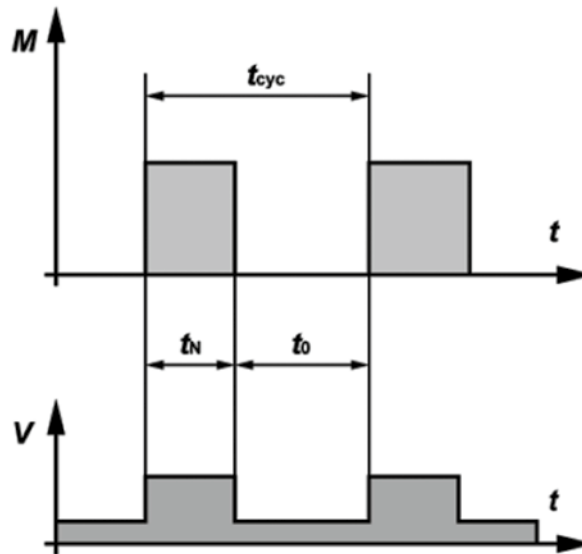
The load cycle corresponds to S3 duty, but with additional warming during the starting time t_a and the braking time t_{Br} taken into account.

The duty cycle can be determined as follows:

$$ED = \frac{(t_a + t_N + t_{Br})}{t_{cyc}} \times 100\% = \frac{t_a + t_N + t_{Br}}{t_a + t_N + t_{Br} + t_0} \times 100\%$$

Example: S5 – 25%; $J_M = 0.15 \text{ kgm}^2$, $J_{ext} = 0.7 \text{ kgm}^2$

Continuous-operation periodic duty (S6)



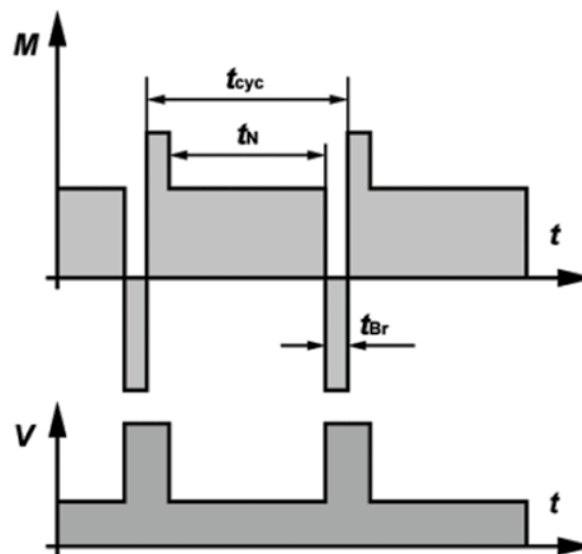
This type of duty corresponds to S3, with the exception that the equipment remains energized during the rest periods. In other words, it operates with no load during these periods. The duty cycle and cycle duration are specified the same way as for S3 duty.

The duty cycle can be determined as follows:

$$ED = \frac{t_N}{t_{cyc}} \times 100\% = \frac{t_N}{t_N + t_0} \times 100\%$$

Example: S6 – 40%

Continuous-operation periodic duty with electric braking (S7)

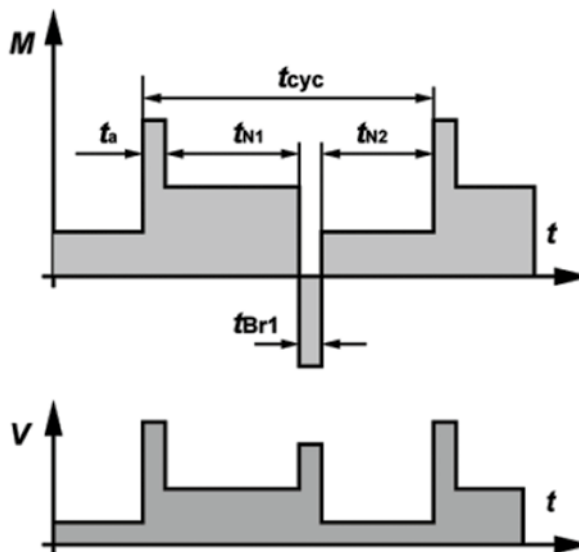


The machine starts up, operates under load, and then is braked electrically, for example by feeding it from a DC power source. Following this, it starts up again immediately. The machine can operate continuously in this manner if the specified moments of inertia of the motor J_M and of the load J_{Ext} as well as the specified duty cycle are not exceeded. If the cycle duration is not specified, it is assumed to be 10 minutes.

The duty cycle can be determined as follows: $DC = 1$

Example: S7 – $J_M = 0.4 \text{ kgm}^2$, $J_{Ext} = 7.5 \text{ kgm}^2$

Continuous-operation periodic duty with relative load/speed changes (S8)



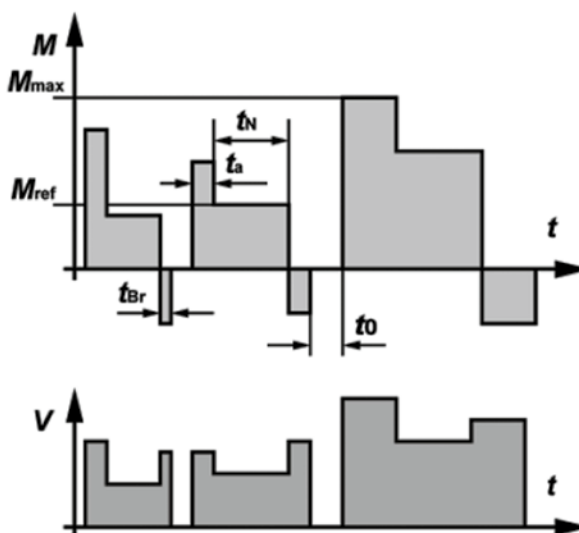
The machine runs continuously under variable load with frequent speed variations. The machine can operate continuously in this manner if at each speed the specified values are not exceeded (moments of inertia J_M and J_{Ext} cycle duration (if other than 10 minutes), rated output and duty cycle. With a moment of inertia of 1 kg m^2 , the acceleration characteristics are the same as with a mass of 1 kg at a distance of 1 m from the axis of rotation).

The duty cycle can be determined as follows:

$$ED = \frac{t_a + t_{N1}}{t_{cyc}} \times 100\% = \frac{t_{Br} + t_{N2}}{t_{cyc}} \times 100\%$$

Example: S8 – $J_M = 0.5 \text{ kgm}^2$, $J_{Ext} = 6 \text{ kgm}^2$

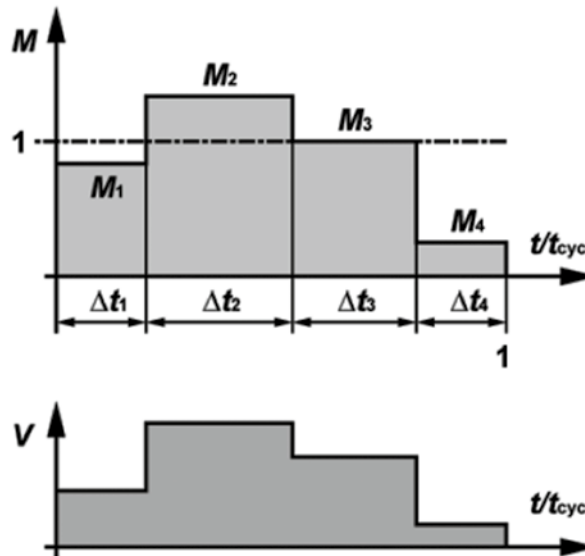
Duty with non-periodic load and speed variations (S9)



In S9 duty the load and the speed vary non-periodically within the permissible operating range. This includes frequently applied overloads, which must never exceed the reference load.

For this duty type, a constant load appropriately selected and based on duty type S1 shall be taken as the reference value M_{ref} for the overload.

Duty with discreet constant loads and speeds (S10)



S10 duty comprises operation with at most four different load levels, each of which is maintained long enough to allow the machine to reach thermal equilibrium. The minimum load within a duty cycle may have a value of zero (no-load operation or at rest with the windings de-energized).

The appropriate abbreviation is S10 followed by the per unit quantities $p/\Delta t$ for the respective load and its duration and the per unit quantity TL for the relative thermal life expectancy of the insulation system. The reference value for the thermal life expectancy is the thermal life expectancy at rating for continuous running duty and permissible limits of temperature rise based on duty type S1. For a time de-energized and at rest, the load shall be indicated by the letter r.

Example: S10 $p/\Delta t = 1.1/0.4, 1/0.3, 0.9/0.2, r/0.1$; TL = 0.6

Technical data of the 60 Hz motors

4-pole TEFC motors for continuous running duty S1 and 60 Hz mains frequency (Y/D)

60 Hz

Except for brake motors

P		Type	n _N	M _N	N _m	I _N			cosφ	Nom. Eff.	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J _{rot}		Brake
HP	kW		[1/min]	lb.f-in		460 V A	575 V A			(100%-Load) [%]					lb.f.ft ²	kgm ²	
0.075	0.055	D04LA4	1620	2.8	0.32	0.27	0.22	Y	0.6	-	2.5	2.5	2.5	3	0.00415	0.000175	E003
0.1	0.075	D04LA4	1620	3.8	0.43	0.35	0.28	Y	0.6	-	2.2	2.1	2.1	2.4	0.00415	0.000175	
0.12	0.09	D04LA4	1620	4.6	0.52	0.38	0.3	Y	0.69	-	2.7	2.4	2.4	2.9	0.00415	0.000175	
0.15	0.11	D04LA4	1620	5.7	0.64	0.42	0.34	Y	0.73	-	2.5	2.1	2.1	2.3	0.00415	0.000175	
0.1	0.075	D05LA4	1620	4	0.45	0.32	0.26	Y	0.59	-	5.5	3.5	3.3	3.5	0.007	0.000295	E003
0.12	0.09	D05LA4	1620	4.7	0.53	0.35	0.28	Y	0.7	-	3.7	3.3	3.1	3.3	0.007	0.000295	
0.15	0.11	D05LA4	1620	5.8	0.65	0.38	0.3	Y	0.7	-	3.5	2.7	2.5	2.7	0.007	0.000295	
0.25	0.18	D05LA4	1620	9.4	1.06	0.6	0.48	Y	0.65	-	3.4	2.8	2.7	2.8	0.007	0.000295	
0.33	0.25	D05LA4	1620	13	1.47	0.8	0.64	Y	0.69	-	3.2	2.5	2.4	2.5	0.007	0.000295	E003
0.4	0.3	D05LA4	1620	15.5	1.75	0.93	0.74	Y	0.7	-	3.1	2.6	2.6	2.7	0.007	0.000295	
0.1	0.075	D06LA4	1620	4	0.45	0.32	0.26	Y	0.59	-	5.5	3.5	3.3	3.5	0.007	0.000295	
0.12	0.09	D06LA4	1620	4.7	0.53	0.35	0.28	Y	0.7	-	3.7	3.3	3.1	3.3	0.007	0.000295	
0.15	0.11	D06LA4	1620	5.8	0.65	0.38	0.3	Y	0.7	-	3.5	2.7	2.5	2.7	0.007	0.000295	E003
0.25	0.18	D06LA4	1620	9.4	1.06	0.6	0.48	Y	0.65	-	3.4	2.8	2.7	2.8	0.007	0.000295	
0.33	0.25	D06LA4	1620	13	1.47	0.8	0.64	Y	0.69	-	3.2	2.5	2.4	2.5	0.007	0.000295	
0.4	0.3	D06LA4	1620	15.5	1.75	1	0.8	Y	0.7	-	3.1	2.1	2	2.1	0.007	0.000295	
0.5	0.37	D07LA4	1620	18.6	2.1	1.24	0.99	Y	0.66	-	2.8	2.4	2.4	2.5	0.00914	0.000385	E003, E004
0.75	0.55	D08MA4	1680	27.4	3.1	1.4	1.12	Y	0.75	-	4.6	2.3	2.1	2.5	0.0273	0.00115	ES(X)010
1	0.75	DPE08XB4	1735	36.29	4.1	1.67	1.336	Y	0.67	85.5	6.4	3.6	3.1	4	0.0475	0.002	EH(X)010/027
1	0.75	DPE09LA4	1750	36.29	4.1	1.45	1.16	Y	0.76	85.5	7.7	3.7	3.4	4.2	0.0759	0.0032	ES(X)010/027 EH(X)027/040
1.5	1.1	DPE09XB4	1755	53.10	6	2.2	1.76	Y	0.73	86.5	8.7	4.2	3.8	5	0.1163	0.0049	
2	1.5	DPE09XB4	1745	72.58	8.2	2.9	2.32	Y	0.76	86.5	7.6	3.6	3.4	4.3	0.1163	0.0049	
2.4	1.8	DPE09XB4C	1760	86.74	9.8	3.2	2.56	Y	0.8	86.5	8.3	2.6	2.1	4	0.1637	0.0069	
3	2.2	DPE11MA4	1760	106	12	4	3.2	Y	0.78	89.5	8.5	4.5	3.6	4.9	0.2492	0.0105	ES(X)027/040/070 EH(X)070/125
4	3	DPE11LB4	1760	144	16.3	5.2	4.16	D	0.81	89.5	9	3.8	3.3	4.6	0.403	0.017	
5	3.7	DPE11LB4	1760	177	20	6.3	5.04	D	0.82	89.5	8.6	3.6	3.1	4.3	0.403	0.017	
5.5	4	DPE11LB4	1760	192	21.7	6.9	5.52	D	0.81	89.5	9.3	3.7	3	4.7	0.403	0.017	
6	4.5	DPE11LB4	1750	217	24.5	7.6	6.08	D	0.83	89.5	8.4	3.2	2.6	4.1	0.403	0.017	ES(X)040/070/125 EH(X)200
7.5	5.5	DPE13XA4	1770	261	29.5	9.5	7.6	D	0.79	91.7	9	4.4	3.1	4.2	0.95	0.04	
10	7.5	DPE13XA4	1765	358	40.5	13.2	10.56	D	0.77	91.7	8.5	3.7	3	4.1	0.95	0.04	
12.75	9.5	DPE16LB4	1780	451	51	16.7	13.36	D	0.77	92.4	8.7	3.5	2.1	3.5	1.80	0.076	
15	11	DPE16LB4	1780	522	59	19.3	15.44	D	0.77	92.4	8	3.3	2	3.3	1.80	0.076	ES(X)125/200
16.8	12.5	DPE16XB4	1770	593	67	21	16.8	D	0.82	92.4	7.7	3	2	3	2.30	0.097	EH(X)400
20	15	DPE16XB4	1780	708	80	26.2	20.96	D	0.77	93	8.8	3.7	2.3	3.6	2.30	0.097	ZS(X)300
25	18.5	DPE18LB4	1780	876	99	31	24.8	D	0.8	93.6	9.6	4.3	2.7	3.7	4.03	0.17	ES(X)250
30	22	DPE18XB4	1780	1044	118	36.5	29.2	D	0.81	93.6	9.1	3.9	2.4	3.2	4.63	0.195	EH(X)400 ZS(X)500
40	30	DPE20XA4	1785	1416	160	46.5	37.2	D	0.86	94.1	9.5	3.4	2.9	3.9	9.23	0.389	ES(X)250
50	37	DPE22MA4	1780	1752	198	60	48	D	0.82	94.5	9.7	3.7	3.3	4.2	10.25	0.432	ZS(X)500

P	Rated torque at 60 Hz mains frequency
n_N	Typical rated rotor shaft speed at 60 Hz mains frequency
M_N	Rated torque at rotor shaft
I_N	Rated current at 460 V (for other special voltages, multiply by the inverse voltage ratio to convert the current at 460 V to the current at the desired voltage)
$\cos\varphi$	Power factor
Nom. Eff.	Efficiency at full load
I_A/I_N	Relative starting current
M_A/M_N	Relative starting torque
M_S/M_N	Relative pull-up torque
M_K/M_N	Relative breakdown torque
J_{rot}	Rotor moment of inertia
Brake	Brake configuration (see Section 15)

The standard motor winding configuration is for 460 V / 60 Hz.

All motors designed for thermal class F are suitable for operation over the voltage range 440–480 V or 460 V +/- 10%.

Note: the current, power factor and torque vary depending on the deviation from 460 V.

See "www.bauergears.com" for more information.

4-pole TEFC motors for continuous running duty S1 and 60 Hz mains frequency (D/DD)

60 Hz

Except for brake motors

P		Type	n _N	M _N	Nm	I _N			cos φ	Nom. Eff.	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J _{rot}		Brake
HP	kW		[1/min]	lb.f.in		230 V	460 V			(100%-Load)					lb.ft²	kgm²	
A	A									[%]							
0.075	0.055	D04LA4	1620	2.8	0.32	0.54	0.27	DD/D	0.6	-	2.5	2.5	2.5	3	0.00415	0.000175	E003
0.1	0.075	D04LA4	1620	3.8	0.43	0.70	0.35	DD/D	0.6	-	2.2	2.1	2.1	2.4	0.00415	0.000175	
0.12	0.09	D04LA4	1620	4.6	0.52	0.76	0.38	DD/D	0.69	-	2.7	2.4	2.4	2.9	0.00415	0.000175	
0.15	0.11	D04LA4	1620	5.7	0.64	0.84	0.42	DD/D	0.73	-	2.5	2.1	2.1	2.3	0.00415	0.000175	
0.1	0.075	D05LA4	1620	4	0.45	0.64	0.32	DD/D	0.59	-	5.5	3.5	3.3	3.5	0.007	0.000295	E003
0.12	0.09	D05LA4	1620	4.7	0.53	0.70	0.35	DD/D	0.7	-	3.7	3.3	3.1	3.3	0.007	0.000295	
0.15	0.11	D05LA4	1620	5.8	0.65	0.76	0.38	DD/D	0.7	-	3.5	2.7	2.5	2.7	0.007	0.000295	
0.25	0.18	D05LA4	1620	9.4	1.06	1.20	0.6	DD/D	0.65	-	3.4	2.8	2.7	2.8	0.007	0.000295	
0.33	0.25	D05LA4	1620	13	1.47	1.60	0.8	DD/D	0.69	-	3.2	2.5	2.4	2.5	0.007	0.000295	E003
0.4	0.3	D05LA4	1620	15.5	1.75	1.86	0.93	DD/D	0.7	-	3.1	2.6	2.6	2.7	0.007	0.000295	
0.1	0.075	D06LA4	1620	4	0.45	0.64	0.32	DD/D	0.59	-	5.5	3.5	3.3	3.5	0.007	0.000295	
0.12	0.09	D06LA4	1620	4.7	0.53	0.70	0.35	DD/D	0.7	-	3.7	3.3	3.1	3.3	0.007	0.000295	
0.15	0.11	D06LA4	1620	5.8	0.65	0.76	0.38	DD/D	0.7	-	3.5	2.7	2.5	2.7	0.007	0.000295	E003
0.25	0.18	D06LA4	1620	9.4	1.06	1.20	0.6	DD/D	0.65	-	3.4	2.8	2.7	2.8	0.007	0.000295	
0.33	0.25	D06LA4	1620	13	1.47	1.60	0.8	DD/D	0.69	-	3.2	2.5	2.4	2.5	0.007	0.000295	
0.4	0.3	D06LA4	1620	15.5	1.75	2.00	1	DD/D	0.7	-	3.1	2.1	2	2.1	0.007	0.000295	
0.5	0.37	D07LA4	1620	18.6	2.1	2.48	1.24	DD/D	0.66	-	2.8	2.4	2.4	2.5	0.00914	0.000385	E003, E004
0.75	0.55	D08MA4	1680	27.4	3.1	2.24	1.12	DD/D	0.75	-	4.6	2.3	2.1	2.5	0.0273	0.00115	ES(X)010
1	0.75	DPE08XB4	1735	36.29	4.1	2.67	1.34	DD/D	0.67	85.5	6.4	3.6	3.1	4	0.0474607204	0.002	EH(X)010/027
1	0.75	DPE09LA4	1750	36.29	4.1	2.32	1.16	DD/D	0.76	85.5	7.7	3.7	3.4	4.2	0.0759371526	0.0032	ES(X)010/027 EH(X)027/040
1.5	1.1	DPE09XB4	1755	53.10	6	3.52	1.76	DD/D	0.73	86.5	8.7	4.2	3.8	5	0.1162787649	0.0049	
2	1.5	DPE09XB4	1745	72.58	8.2	4.64	2.32	DD/D	0.76	86.5	7.6	3.6	3.4	4.3	0.1162787649	0.0049	
2.4	1.8	DPE09XB4C	1760	86.74	9.8	5.12	2.56	DD/D	0.8	86.5	8.3	2.6	2.1	4	0.1637394852	0.0069	
3	2.2	DPE11MA4	1760	106	12	6.40	3.20	DD/D	0.78	89.5	8.5	4.5	3.6	4.9	0.2491687818	0.0105	ES(X)027/040/070 EH(X)070/125
4	3	DPE11LB4	1760	144	16.3	8.32	4.16	DD/D	0.81	89.5	9	3.8	3.3	4.6	0.403416123	0.017	
5	3.7	DPE11LB4	1760	177	20	10.08	5.04	DD/D	0.82	89.5	8.6	3.6	3.1	4.3	0.403416123	0.017	
5.5	4	DPE11LB4	1760	192	21.7	11.04	5.52	DD/D	0.81	89.5	9.3	3.7	3	4.7	0.403416123	0.017	
6	4.5	DPE11LB4	1750	217	24.5	12.16	6.08	DD/D	0.83	89.5	8.4	3.2	2.6	4.1	0.403416123	0.017	ES(X)040/070/125 EH(X)200
7.5	5.5	DPE13XA4	1770	261	29.5	15.20	7.60	DD/D	0.79	91.7	9	4.4	3.1	4.2	0.949214407	0.04	
10	7.5	DPE13XA4	1765	358	40.5	21.12	10.56	DD/D	0.77	91.7	8.5	3.7	3	4.1	0.949214407	0.04	
12.75	9.5	DPE16LB4	1780	451	51	26.72	13.36	DD/D	0.77	92.4	8.7	3.5	2.1	3.5	1.8035073733	0.076	
15	11	DPE16LB4	1780	522	59	30.88	15.44	DD/D	0.77	92.4	8	3.3	2	3.3	1.8035073733	0.076	ES(X)125/200
16.8	12.5	DPE16XB4	1770	593	67	33.60	16.80	DD/D	0.82	92.4	7.7	3	2	3	2.301844937	0.097	EH(X)400
20	15	DPE16XB4	1780	708	80	41.92	20.96	DD/D	0.77	93	8.8	3.7	2.3	3.6	2.301844937	0.097	ZS(X)300
25	18.5	DPE18LB4	1780	876	99	49.60	24.80	DD/D	0.8	93.6	9.6	4.3	2.7	3.7	4.0341612298	0.17	ES(X)250 EH(X)400 ZS(X)500
30	22	DPE18XB4	1780	1044	118	58.40	29.20	DD/D	0.81	93.6	9.1	3.9	2.4	3.2	4.6274202341	0.195	
40	30	DPE20XA4	1785	1416	160	74.40	37.20	DD/D	0.86	94.1	9.5	3.4	2.9	3.9	9.2311101081	0.389	
50	37	DPE22MA4	1780	1752	198	96.00	48.00	DD/D	0.82	94.5	9.7	3.7	3.3	4.2	10.2515155956	0.432	

P	Rated torque at 60 Hz mains frequency
n _N	Typical rated rotor shaft speed at 60 Hz mains frequency
M _N	Rated torque at rotor shaft
I _N	Rated current at 460 V (for other special voltages, multiply by the inverse voltage ratio to convert the current at 460 V to the current at the desired voltage)
cos φ	Power factor
Nom. Eff.	Efficiency at full load
I _A /I _N	Relative starting current
M _A /M _N	Relative starting torque
M _S /M _N	Relative pull-up torque
M _K /M _N	Relative breakdown torque
J _{rot}	Rotor moment of inertia
Brake	Brake configuration (see Section 15)

The standard motor winding configuration is for 460 V / 60 Hz.

All motors designed for thermal class F are suitable for operation over the voltage range 440–480 V or 460 V +/- 10%.

Note: the current, power factor and torque vary depending on the deviation from 460 V.

See “www.bauergears.com” for more information.

4-pole motors for intermittent periodic duty (S3/S6) and 60 Hz mains frequency

60 Hz

P	DC	Type	n	M _N	I _N	Connection	cos φ	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J _{rot}
kW			1/min	Nm	(460 V) A							kgm ²
0.15	15%	D04LA4	1620	0.87	0.56	Y	0.77	2.2	1.8	1.7	1.8	0.000175
0.3	15%	D05LA4	1620	1.75	0.9	Y	0.75	2.8	2.1	2.0	2.1	0.000295
0.3	60%	D06LA4	1620	1.75	0.9	Y	0.75	2.8	2.1	2.0	2.1	0.000295
0.55	60%	D07LA4	1620	3.2	1.78	Y	0.86	3.7	1.8	1.6	1.8	0.000385
0.75	60%	D08MA4	1680	4.2	1.84	Y	0.81	3.7	1.8	1.5	1.9	0.00115
1.1	60%	D08LA4	1680	6.2	2.5	Y	0.82	3.6	1.6	1.5	1.9	0.0015
1.5	60%	D09SA4	1680	8.5	3.3	Y	0.84	4.3	1.9	1.6	2.2	0.00245
2.2	60%	D09LA4	1680	12.5	4.5	Y	0.86	4.3	1.8	1.6	2.1	0.0032
3.0	60%	D09XA4	1680	16.6	6.2	Y	0.86	3.7	1.9	1.8	2.1	0.0038
4.0	60%	D11SA4	1710	22	8.1	D	0.85	4.4	1.8	1.5	2.2	0.0081
5.5	60%	D11MA4	1710	30.5	10.7	D	0.87	4.7	1.6	1.6	2.2	0.0105
7.5	60%	D11LA4	1710	41.5	14.6	D	0.87	5.0	2.0	1.9	2.3	0.014
9.5	60%	D13MA4	1710	53	17.3	D	0.87	5.4	2.1	1.8	2.4	0.029
11	60%	D13LA4	1710	60	20	D	0.84	6.0	2.6	2.3	2.7	0.0335
13.5	60%	D16MA4	1760	73	25.5	D	0.84	6.1	2.3	1.8	2.2	0.057
18.5	60%	D16LA4	1760	100	35	D	0.84	5.6	2.1	1.8	2.3	0.076
22	60%	D16XA4	1760	120	42	D	0.84	5.9	2.3	1.4	2.2	0.087
30	60%	D18LA4	1760	163	53	D	0.89	4.9	2.0	1.6	1.9	0.16
37	60%	D18XA4	1760	200	68	D	0.85	6.0	2.7	2.2	2.5	0.195

P Rated output at 60 Hz mains frequency, S3/S6 duty

DC Permissible duty cycle

n Typical rated rotor shaft speed at 60 Hz

Mains frequency

M_N Rated shaft torqueI_N Rated current at 460 V (for other special voltages, multiply by the inverse voltage ratio to convert the current at 460 V to the current at the desired voltage)

cos φ Power factor

I_A/I_N Relative starting currentM_A/M_N Relative starting torqueM_S/M_N Relative pull-up torqueM_K/M_N Relative breakdown torqueJ_{rot} Rotor moment of inertia

The standard motor winding configuration is for 460 V / 60 Hz.

See Bauer Publication SD4xx for additional information.

Motors

Operation with frequency converter

The figures given in the table below are for Bauer motors operating in conjunction with the frequency inverter. The torques referred to in tables can be entered for the respective frequencies in continuous operation (S1 = duty factor 100 %).

Motor torques for frequency-converter range 5 Hz - 80 Hz, line frequency 60 Hz / Imperial

P		Type	Connection	5 Hz	10 Hz	20 Hz	30 Hz	60 Hz	70 Hz	80 Hz	5 Hz	10 Hz	20 Hz	30 Hz	60 Hz	70 Hz	80 Hz
HP	kW			M lb.f.in	M lb.f.in	M lb.f.in	M lb.f.in	M lb.f.in	M lb.f.in	M lb.f.in	I A	I A	I A	I A	I A	I A	I A
0.075	0.055	D04LA4	Y	0.00	2.12	2.52	2.79	2.83	2.83	2.52	0.27	0.27	0.27	0.27	0.27	0.30	0.31
0.1	0.075	D04LA4	Y	2.26	2.83	3.41	3.72	3.81	3.81	3.19	0.31	0.33	0.34	0.35	0.35	0.39	0.38
0.12	0.09	D04LA4	Y	2.74	3.45	4.12	4.51	4.60	4.60	4.12	0.38	0.38	0.38	0.38	0.38	0.43	0.43
0.15	0.11	D04LA4	Y	3.36	4.25	5.04	5.58	5.66	5.66	4.51	0.41	0.41	0.42	0.42	0.42	0.47	0.43
0.1	0.075	D05LA4	Y	2.39	2.96	3.58	3.89	3.98	3.98	3.58	0.28	0.29	0.31	0.32	0.32	0.36	0.37
0.12	0.09	D05LA4	Y	2.79	3.50	4.20	4.60	4.69	4.69	4.20	0.33	0.34	0.35	0.35	0.35	0.39	0.40
0.15	0.11	D05LA4	Y	3.45	4.29	5.13	5.66	5.75	5.75	5.13	0.34	0.36	0.37	0.38	0.38	0.43	0.43
0.25	0.18	D05LA4	Y	5.58	6.99	8.41	9.20	9.38	9.38	8.41	0.54	0.56	0.59	0.60	0.60	0.67	0.68
0.33	0.25	D05LA4	Y	7.79	9.74	11.68	12.83	13.01	13.01	11.42	0.77	0.78	0.80	0.80	0.80	0.89	0.89
0.4	0.3	D05LA4	Y	9.29	11.59	13.90	15.22	15.49	15.49	13.90	0.89	0.91	0.92	0.93	0.93	1.03	1.06
0.1	0.075	D06LA4	Y	2.39	2.96	3.58	3.89	3.98	3.98	3.58	0.28	0.29	0.31	0.32	0.32	0.36	0.37
0.12	0.09	D06LA4	Y	2.79	3.50	4.20	4.60	4.69	4.69	4.20	0.33	0.34	0.35	0.35	0.35	0.39	0.40
0.15	0.11	D06LA4	Y	3.45	4.29	5.13	5.66	5.75	5.75	5.13	0.34	0.36	0.37	0.38	0.38	0.43	0.43
0.25	0.18	D06LA4	Y	5.58	6.99	8.41	9.20	9.38	9.38	8.41	0.54	0.56	0.59	0.60	0.60	0.67	0.68
0.33	0.25	D06LA4	Y	7.79	9.74	11.68	12.83	13.01	13.01	11.42	0.77	0.78	0.80	0.80	0.80	0.89	0.89
0.4	0.3	D06LA4	Y	9.29	11.59	13.90	15.22	15.49	14.87	11.42	0.84	0.90	0.96	1	1	1.07	0.97
0.5	0.37	D07LA4	Y	11.42	14.25	17.08	18.59	18.59	18.59	16.64	1.22	1.23	1.24	1.24	1.24	1.38	1.37
0.75	0.55	D08MA4	Y	16.46	20.36	24.78	26.55	27.44	27.44	23.90	1.22	1.28	1.35	1.40	1.40	1.55	1.55
1	0.75	DPE08XB4	Y	21.24	27.44	32.75	36.29	36.29	36.29	32.75	1.21	1.31	1.42	1.49	1.50	1.67	1.70
1	0.75	DPE09LA4	Y	21.24	26.55	31.86	35.40	36.29	36.29	31.86	1.01	1.13	1.26	1.34	1.35	1.50	1.53
1.5	1.1	DPE09XB4	Y	31.86	39.83	47.79	52.22	53.10	53.10	47.79	1.60	1.76	1.93	2.10	2.10	2.30	2.40
2	1.5	DPE09XB4	Y	43.37	53.99	64.61	71.69	72.58	72.58	64.61	2.20	2.40	2.70	2.80	2.80	3.10	3.20
2.4	1.8	DPE09XB4C	Y	51.33	64.61	77.89	84.97	86.74	86.74	77.89	2.40	2.70	3	3.20	3.20	3.60	3.70
3	2.2	DPE11MA4	Y	62.84	78.77	94.70	104	105	105	95	2.70	3.10	3.50	3.70	3.70	4.10	4.20
4	3	DPE11LB4	Y	85.85	108	129	142	144	144	129	3.90	4.40	4.90	5.20	5.20	5.80	5.90
5	3.7	DPE11LB4	Y	106	133	159	174	177	177	159	4.70	5.30	5.90	6.30	6.30	7	7.20
5.5	4	DPE11LB4	Y	115	143	173	186	190	190	173	5.20	5.80	6.50	6.90	6.90	7.70	7.80
6	4.5	DPE11LB4	Y	130	162	195	212	217	217	195	5.50	6.20	7.10	7.60	7.60	8.50	8.60
7.5	5.5	DPE13XA4	Y	157	195	235	257	261	261	235	7.10	7.90	8.90	9.50	9.50	10.60	10.80
10	7.5	DPE13XA4	Y	212	266	319	354	358	358	319	9	10.30	11.70	12.50	12.60	14	14.30
12.75	9.5	DPE16LB4	Y	270	336	403	443	451	451	403	11.80	13.30	15	16	16.10	17.90	18.20
15	11	DPE16LB4	Y	310	389	469	513	522	522	469	13.50	15.30	17.20	18.50	18.60	21	21.50
17	12.5	DPE16XB4	Y	354	443	531	584	593	593	531	14.60	16.80	19.30	21	21	23.50	24
20	15	DPE16XB4	Y	425	531	637	699	708	708	637	17.10	19.60	22.50	24.50	24.50	27.50	28
25	18.5	DPE18LB4	Y	522	655	788	859	876	876	788	22	25	28.50	30.50	30.50	34	34.50
30	22	DPE18XB4	Y	620	779	938	1027	1044	1044	938	26.50	30	34	36.50	36.50	40.50	41.50
40	30	DPE20XA4	Y	850	1062	1275	1398	1416	1416	1275	35.50	40.50	45.50	48.50	49	54	56
50	37	DPE22MA4	Y	1044	1310	1575	1726	1752	1752	1575	41.50	47.50	54	58	59	65	66

Field weakening for frequencies above 60 Hz, winding for standard voltage **460 V Y / 60 Hz**, Temperature Class F.

P Rated output
M permissible load torque (S1-100 %) for operation with frequency inverter
I Load current for operation with frequency inverter

Motors with standard windings can be switched from Y- to Δ- circuit for operation with a converter having a single-phase mains connection. This has no effect on the torques and frequencies as listed in the table above. As regards the choice of converter, however, note that currents are higher than those of the Y-circuit by a factor of 1.73.

The load currents in the table are guideline values for selecting the size of frequency inverter. Load current is lower if the load torque is below the values permitted for 30-70 Hz and the frequency inverter used is of the high-grade type. This means that a smaller inverter can sometimes be used, particularly in conjunction with large motors.

Operation with frequency converter

Motor torques for frequency-converter range 5 Hz - 80 Hz. line frequency 60 Hz / Metric

P		Type	Connection	5 Hz	10 Hz	20 Hz	30 Hz	60 Hz	70 Hz	80 Hz	5 Hz	10 Hz	20 Hz	30 Hz	60 Hz	70 Hz	80 Hz
HP	kW			M Nm	M Nm	M Nm	M Nm	M Nm	M Nm	M Nm	I A	I A	I A	I A	I A	I A	I A
0.075	0.055	D04LA4	Y	0.19	0.24	0.285	0.315	0.32	0.32	0.285	0.265	0.27	0.27	0.27	0.27	0.3	0.31
0.1	0.075	D04LA4	Y	0.255	0.32	0.385	0.42	0.43	0.43	0.36	0.31	0.325	0.34	0.35	0.35	0.39	0.375
0.12	0.09	D04LA4	Y	0.31	0.39	0.465	0.51	0.52	0.52	0.465	0.38	0.38	0.38	0.38	0.38	0.425	0.43
0.15	0.11	D04LA4	Y	0.38	0.48	0.57	0.63	0.64	0.64	0.51	0.405	0.41	0.42	0.42	0.42	0.465	0.43
0.1	0.075	D05LA4	Y	0.27	0.335	0.405	0.44	0.45	0.45	0.405	0.275	0.29	0.31	0.32	0.32	0.355	0.365
0.12	0.09	D05LA4	Y	0.315	0.395	0.475	0.52	0.53	0.53	0.475	0.33	0.34	0.345	0.35	0.35	0.39	0.4
0.15	0.11	D05LA4	Y	0.39	0.485	0.58	0.64	0.65	0.65	0.58	0.34	0.355	0.37	0.38	0.38	0.425	0.43
0.25	0.18	D05LA4	Y	0.63	0.79	0.95	1.04	1.06	1.06	0.95	0.54	0.56	0.59	0.6	0.6	0.67	0.68
0.33	0.25	D05LA4	Y	0.88	1.1	1.32	1.45	1.47	1.47	1.29	0.77	0.78	0.8	0.8	0.8	0.89	0.89
0.4	0.3	D05LA4	Y	1.05	1.31	1.57	1.72	1.75	1.75	1.57	0.89	0.91	0.92	0.93	0.93	1.03	1.06
0.1	0.075	D06LA4	Y	0.27	0.335	0.405	0.44	0.45	0.45	0.405	0.275	0.29	0.31	0.32	0.32	0.355	0.365
0.12	0.09	D06LA4	Y	0.315	0.395	0.475	0.52	0.53	0.53	0.475	0.33	0.34	0.345	0.35	0.35	0.39	0.4
0.15	0.11	D06LA4	Y	0.39	0.485	0.58	0.64	0.65	0.65	0.58	0.34	0.355	0.37	0.38	0.38	0.425	0.43
0.25	0.18	D06LA4	Y	0.63	0.79	0.95	1.04	1.06	1.06	0.95	0.54	0.56	0.59	0.6	0.6	0.67	0.68
0.33	0.25	D06LA4	Y	0.88	1.1	1.32	1.45	1.47	1.47	1.29	0.77	0.78	0.8	0.8	0.8	0.89	0.89
0.4	0.3	D06LA4	Y	1.05	1.31	1.57	1.72	1.75	1.68	1.29	0.84	0.9	0.96	1	1	1.07	0.97
0.5	0.37	D07LA4	Y	1.29	1.61	1.93	2.1	2.1	2.1	1.88	1.22	1.23	1.24	1.24	1.24	1.38	1.37
0.75	0.55	D08MA4	Y	1.86	2.3	2.8	3	3.1	3.1	2.7	1.22	1.28	1.35	1.4	1.4	1.55	1.55
1	0.75	DPE08XB4	Y	2.4	3.1	3.7	4.1	4.1	4.1	3.7	1.43	1.51	1.61	1.67	1.67	1.85	1.89
1	0.75	DPE09LA4	Y	2.4	3	3.6	4	4.1	4.1	3.6	1.16	1.26	1.37	1.44	1.45	1.61	1.64
1.5	1.1	DPE09XB4	Y	3.6	4.5	5.4	5.9	6	6	5.4	1.8	1.94	2.1	2.2	2.2	2.5	2.5
2	1.5	DPE09XB4	Y	4.9	6.1	7.3	8.1	8.2	8.2	7.3	2.4	2.6	2.8	2.9	2.9	3.2	3.3
2.4	1.8	DPE09XB4C	Y	5.8	7.3	8.8	9.6	9.8	9.8	8.8	2.4	2.7	3	3.2	3.2	3.6	3.7
3	2.2	DPE11MA4	Y	7.1	8.9	10.7	11.7	11.9	11.9	10.7	2.8	3.1	3.5	3.7	3.7	4.1	4.2
4	3	DPE11LB4	Y	9.7	12.2	14.6	16.1	16.3	16.3	14.6	3.9	4.4	4.9	5.2	5.2	5.8	5.9
5	3.7	DPE11LB4	Y	12	15	18	19.7	20	20	18	4.7	5.3	5.9	6.3	6.3	7	7.2
5.5	4	DPE11LB4	Y	13	16.2	19.5	21	21.5	21.5	19.5	5.2	5.8	6.5	6.9	6.9	7.7	7.8
6	4.5	DPE11LB4	Y	14.7	18.3	22	24	24.5	24.5	22	5.5	6.2	7.1	7.6	7.6	8.5	8.6
7.5	5.5	DPE13XA4	Y	17.7	22	26.5	29	29.5	29.5	26.5	7.2	8	8.9	9.5	9.5	10.6	10.8
10	7.5	DPE13XA4	Y	24	30	36	40	40.5	40.5	36	10.2	11.3	12.4	13.1	13.2	14.7	15
12.75	9.5	DPE16LB4	Y	30.5	38	45.5	50	51	51	45.5	12.7	14.1	15.6	16.6	16.7	18.5	18.9
15	11	DPE16LB4	Y	35	44	53	58	59	59	53	14.6	16.3	18.1	19.2	19.3	21.5	22
17	12.5	DPE16XB4	Y	40	50	60	66	67	67	60	14.6	16.8	19.3	21	21	23.5	24
20	15	DPE16XB4	Y	48	60	72	79	80	80	72	19.9	22.5	24.5	26	26.5	29.5	30
25	18.5	DPE18LB4	Y	59	74	89	97	99	99	89	23	26	29	31	31	34.5	35.5
30	22	DPE18XB4	Y	70	88	106	116	118	118	106	26.5	30	34	36.5	36.5	40.5	41.5
40	30	DPE20XA4	Y	96	120	144	158	160	160	144	32.5	37.5	43	46.5	46.5	52	53
50	37	DPE22MA4	Y	118	148	178	195	198	198	178	44	49.5	56	60	60	67	68

Field weakening for frequencies above 60 Hz, winding for standard voltage **460 V Y / 60 Hz**, Temperature Class F.

P Rated output
M permissible load torque (S1-100 %) for operation with frequency inverter
I Load current for operation with frequency inverter

Motors with standard windings can be switched from Y- to Δ - circuit for operation with a converter having a single-phase mains connection. This has no effect on the torques and frequencies as listed in the table above. As regards the choice of converter, however, note that currents are higher than those of the Y-circuit by a factor of 1.73.

The load currents in the table are guideline values for selecting the size of frequency inverter. Load current is lower if the load torque is below the values permitted for 30-70 Hz and the frequency inverter used is of the high-grade type. This means that a smaller inverter can sometimes be used, particularly in conjunction with large motors.

Motors

Operation with frequency converter

Motor torques for frequency-converter range 5 Hz - 120 Hz, line frequency 60 Hz / Imperial

P		Type	Connection	5 Hz	10 Hz	20 Hz	30 Hz	104 Hz	120 Hz	5 Hz	10 Hz	20 Hz	30 Hz	104 Hz	120 Hz
HP	kW			M lb.f.in	M lb.f.in	M lb.f.in	M lb.f.in	M lb.f.in	M lb.f.in	I A	I A	I A	I A	I A	I A
0.075	0.055	D04LA4	D	1.68	2.12	2.52	2.79	2.83	2.83	0.46	0.465	0.47	0.47	0.47	0.52
0.1	0.075	D04LA4	D	2.26	2.83	3.41	3.72	3.81	3.81	0.54	0.56	0.59	0.61	0.61	0.67
0.12	0.09	D04LA4	D	2.74	3.45	4.12	4.51	4.6	4.6	0.66	0.66	0.66	0.66	0.66	0.73
0.15	0.11	D04LA4	D	3.36	4.25	5.04	5.58	5.66	5.66	0.7	0.71	0.72	0.73	0.73	0.8
0.1	0.075	D05LA4	D	2.39	2.96	3.58	3.89	3.98	3.98	0.475	0.5	0.54	0.56	0.56	0.61
0.12	0.09	D05LA4	D	2.79	3.5	4.2	4.6	4.69	4.69	0.57	0.59	0.6	0.61	0.61	0.67
0.15	0.11	D05LA4	D	3.45	4.29	5.13	5.66	5.75	5.75	0.59	0.61	0.64	0.66	0.66	0.73
0.25	0.18	D05LA4	D	5.58	6.99	8.41	9.2	9.38	9.38	0.93	0.97	1.01	1.04	1.04	1.15
0.33	0.25	D05LA4	D	7.79	9.74	11.68	12.83	13.01	13.01	1.34	1.35	1.38	1.39	1.39	1.53
0.4	0.3	D05LA4	D	9.29	11.59	13.9	15.22	15.49	15.49	1.54	1.57	1.6	1.61	1.62	1.78
0.1	0.075	D06LA4	D	2.39	2.96	3.58	3.89	3.98	3.98	0.475	0.5	0.54	0.56	0.56	0.61
0.12	0.09	D06LA4	D	2.79	3.5	4.2	4.6	4.69	4.69	0.57	0.59	0.6	0.61	0.61	0.67
0.15	0.11	D06LA4	D	3.45	4.29	5.13	5.66	5.75	5.75	0.59	0.61	0.64	0.66	0.66	0.73
0.25	0.18	D06LA4	D	5.58	6.99	8.41	9.2	9.38	9.38	0.93	0.97	1.01	1.04	1.04	1.15
0.33	0.25	D06LA4	D	7.79	9.74	11.68	12.83	13.01	13.01	1.34	1.35	1.38	1.39	1.39	1.53
0.4	0.3	D06LA4	D	9.29	11.59	13.9	15.22	15.49	15.22	1.45	1.55	1.66	1.73	1.74	1.88
0.5	0.37	D07LA4	D	11.42	14.25	17.08	18.59	18.59	18.59	2.2	2.2	2.2	2.2	2.2	2.4
0.75	0.55	D08MA4	D	16.46	20.36	24.78	26.55	27.44	27.44	2.2	2.2	2.4	2.5	2.5	2.7
1	0.75	DPE08XB4	D	21.24	27.44	32.75	36.29	36.29	36.29	2.5	2.7	2.8	2.9	2.9	3.2
1	0.75	DPE09LA4	D	21.24	26.55	31.86	35.40	36.29	36.29	2.1	2.2	2.4	2.5	2.6	2.8
1.5	1.1	DPE09XB4	D	31.86	39.83	47.79	52.22	53.10	53.10	3.2	3.4	3.7	3.8	3.8	4.2
2	1.5	DPE09XB4	D	43.37	53.99	64.61	71.69	72.58	72.58	4	4.4	4.8	5	5.1	5.6
2.4	1.8	DPE09XB4C	D	51.33	64.61	77.89	84.97	86.74	86.74	4.2	4.7	5.2	5.5	5.6	6.1
3	2.2	DPE11MA4	D	62.84	78.77	94.70	104	105	105	4.7	5.3	6	6.4	6.5	7.1
4	3	DPE11LB4	D	85.85	108	129	142	144	144	6.7	7.5	8.4	9	9.1	9.9
5	3.7	DPE11LB4	D	106	133	159	174	177	177	8.1	9.1	10.2	10.9	11	12
5.5	4	DPE11LB4	D	115	143	173	186	190	190	8.9	10	11.2	11.9	12	13.2
6	4.5	DPE11LB4	D	130	162	195	212	217	217	9.5	10.8	12.2	13.1	13.2	14.5
7.5	5.5	DPE13XA4	D	157	195	235	257	261	261	12.4	13.8	15.4	16.4	16.5	18.1
10	7.5	DPE13XA4	D	212	266	319	354	358	358	17.6	19.5	21.5	23	23	25.5
12.75	9.5	DPE16LB4	D	270	336	403	443	451	451	22	24.5	27.5	29	29	32
15	11	DPE16LB4	D	310	389	469	513	522	522	25.5	28.5	31.5	33.5	33.5	37
17	12.5	DPE16XB4	D	354	443	531	584	593	593	25.5	29.5	33.5	36	36.5	40
20	15	DPE16XB4	D	425	531	637	699	708	708	34.5	38.5	42.5	45.5	45.5	50
25	18.5	DPE18LB4	D	522	655	788	859	876	876	39.5	44.5	50	54	54	60
30	22	DPE18XB4	D	620	779	938	1027	1044	1044	45.5	52	59	63	64	70
40	30	DPE20XA4	D	850	1062	1275	1398	1416	1416	56	65	74	80	81	89
50	37	DPE22MA4	D	1044	1310	1575	1726	1752	1752	76	86	97	103	104	115

Field weakening for frequencies above 104 Hz, winding for standard voltage **265 V Δ / 60 Hz** ($U_{\max} = 460 \text{ V } \Delta / 104 \text{ Hz}$), Temperature Class F.

P Rated output
M permissible load torque (S1-100 %) for operation with frequency inverter
I Load current for operation with frequency inverter

The load currents in the table are guideline values for selecting the size of frequency inverter. Load current is lower if the load torque is below the values permitted for 30-100 Hz and the frequency inverter used is of the high-grade type. This means that a smaller inverter

Motor torques for frequency-converter range 5 Hz - 120 Hz, line frequency 60 Hz / Metric

P		Type	Connection	5 Hz	10 Hz	20 Hz	30 Hz	104 Hz	120 Hz	5 Hz	10 Hz	20 Hz	30 Hz	104 Hz	120 Hz
HP	kW			M Nm	M Nm	M Nm	M Nm	M Nm	M Nm	I A	I A	I A	I A	I A	I A
0.075	0.055	D04LA4	D	0.19	0.24	0.285	0.315	0.32	0.32	0.46	0.465	0.47	0.47	0.47	0.52
0.1	0.075	D04LA4	D	0.255	0.32	0.385	0.42	0.43	0.43	0.54	0.56	0.59	0.61	0.61	0.67
0.12	0.09	D04LA4	D	0.31	0.39	0.465	0.51	0.52	0.52	0.66	0.66	0.66	0.66	0.66	0.73
0.15	0.11	D04LA4	D	0.38	0.48	0.57	0.63	0.64	0.64	0.7	0.71	0.72	0.73	0.73	0.8
0.1	0.075	D05LA4	D	0.27	0.335	0.405	0.44	0.45	0.45	0.475	0.5	0.54	0.56	0.56	0.61
0.12	0.09	D05LA4	D	0.315	0.395	0.475	0.52	0.53	0.53	0.57	0.59	0.6	0.61	0.61	0.67
0.15	0.11	D05LA4	D	0.39	0.485	0.58	0.64	0.65	0.65	0.59	0.61	0.64	0.66	0.66	0.73
0.25	0.18	D05LA4	D	0.63	0.79	0.95	1.04	1.06	1.06	0.93	0.97	1.01	1.04	1.04	1.15
0.33	0.25	D05LA4	D	0.88	1.1	1.32	1.45	1.47	1.47	1.34	1.35	1.38	1.39	1.39	1.53
0.4	0.3	D05LA4	D	1.05	1.31	1.57	1.72	1.75	1.75	1.54	1.57	1.6	1.61	1.62	1.78
0.1	0.075	D06LA4	D	0.27	0.335	0.405	0.44	0.45	0.45	0.475	0.5	0.54	0.56	0.56	0.61
0.12	0.09	D06LA4	D	0.315	0.395	0.475	0.52	0.53	0.53	0.57	0.59	0.6	0.61	0.61	0.67
0.15	0.11	D06LA4	D	0.39	0.485	0.58	0.64	0.65	0.65	0.59	0.61	0.64	0.66	0.66	0.73
0.25	0.18	D06LA4	D	0.63	0.79	0.95	1.04	1.06	1.06	0.93	0.97	1.01	1.04	1.04	1.15
0.33	0.25	D06LA4	D	0.88	1.1	1.32	1.45	1.47	1.47	1.34	1.35	1.38	1.39	1.39	1.53
0.4	0.3	D06LA4	D	1.05	1.31	1.57	1.72	1.75	1.72	1.45	1.55	1.66	1.73	1.74	1.88
0.5	0.37	D07LA4	D	1.29	1.61	1.93	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.4
0.75	0.55	D08MA4	D	1.86	2.3	2.8	3	3.1	3.1	2.2	2.2	2.4	2.5	2.5	2.7
1	0.75	DPE08XB4	D	2.4	3.1	3.7	4.1	4.1	4.1	2.5	2.7	2.8	2.9	2.9	3.2
1	0.75	DPE09LA4	D	2.4	3	3.6	4	4.1	4.1	2.1	2.2	2.4	2.5	2.6	2.8
1.5	1.1	DPE09XB4	D	3.6	4.5	5.4	5.9	6	6	3.2	3.4	3.7	3.8	3.8	4.2
2	1.5	DPE09XB4	D	4.9	6.1	7.3	8.1	8.2	8.2	4	4.4	4.8	5	5.1	5.6
2.4	1.8	DPE09XB4C	D	5.8	7.3	8.8	9.6	9.8	9.8	4.2	4.7	5.2	5.5	5.6	6.1
3	2.2	DPE11MA4	D	7.1	8.9	10.7	11.7	11.9	11.9	4.7	5.3	6	6.4	6.5	7.1
4	3	DPE11LB4	D	9.7	12.2	14.6	16.1	16.3	16.3	6.7	7.5	8.4	9	9.1	9.9
5	3.7	DPE11LB4	D	12	15	18	19.7	20	20	8.1	9.1	10.2	10.9	11	12
5.5	4	DPE11LB4	D	13	16.2	19.5	21	21.5	21.5	8.9	10	11.2	11.9	12	13.2
6	4.5	DPE11LB4	D	14.7	18.3	22	24	24.5	24.5	9.5	10.8	12.2	13.1	13.2	14.5
7.5	5.5	DPE13XA4	D	17.7	22	26.5	29	29.5	29.5	12.4	13.8	15.4	16.4	16.5	18.1
10	7.5	DPE13XA4	D	24	30	36	40	40.5	40.5	17.6	19.5	21.5	23	23	25.5
12.75	9.5	DPE16LB4	D	30.5	38	45.5	50	51	51	22	24.5	27.5	29	29	32
15	11	DPE16LB4	D	35	44	53	58	59	59	25.5	28.5	31.5	33.5	33.5	37
17	12.5	DPE16XB4	D	40	50	60	66	67	67	25.5	29.5	33.5	36	36.5	40
20	15	DPE16XB4	D	48	60	72	79	80	80	34.5	38.5	42.5	45.5	45.5	50
25	18.5	DPE18LB4	D	59	74	89	97	99	99	39.5	44.5	50	54	54	60
30	22	DPE18XB4	D	70	88	106	116	118	118	45.5	52	59	63	64	70
40	30	DPE20XA4	D	96	120	144	158	160	160	56	65	74	80	81	89
50	37	DPE22MA4	D	118	148	178	195	198	198	76	86	97	103	104	115

Field weakening for frequencies above 104 Hz, winding for standard voltage **265 V Δ / 60 Hz** ($U_{\max} = 460 \text{ V } \Delta / 104 \text{ Hz}$), Temperature Class F.

P Rated output
M permissible load torque (S1-100 %) for operation with frequency inverter
I Load current for operation with frequency inverter

The load currents in the table are guideline values for selecting the size of frequency inverter. Load current is lower if the load torque is below the values permitted for 30-100 Hz and the frequency inverter used is of the high-grade type. This means that a smaller inverter can sometimes be used, particularly in conjunction with large motors.

Notes on design

Use the torque required at the lowest operating speed to select motors for applications which require constant torque over the entire speed range, as is the case, for example, with lifting gear and conveyors. Bear in mind, too, the possibility of torque being lower in the field-weakening range.

Use only the torque required at the highest operating speed to select motors for applications which require square-law torque over the speed range, as is the case, for example, with pumps and fans. Field weakening is not permissible.

The motor's power is frequency-dependent. It can be approximated in kW from torque M in Nm, the 50 Hz or 60 Hz speed n and the frequency f in Hz by means of the equation

$$P = M \times n / 9550 \times f/50$$

or

$$P = M \times n / 9550 \times f/60$$

If a frequency inverter is used in conjunction with a pulse generator, the full 50 Hz or 60 Hz rated torque is available as holding torque at motor standstill (independent fan required for prolonged periods at standstill). In many instances, however, a mechanical brake is necessary for holding a position exactly or for safety reasons.

The use of thermistors for the thermal protection of the motor winding for frequency inverter duty are strictly recommended (available at extra cost for all motor sizes).

Increased torque with reduced duty factor

A reduction in duty factor increases the torque available at the low end of the frequency range (up to the transition frequency for field weakening) in accordance with the factors in the table below:

Duty factor	Motor torque with reduced duty factor	Increase in current requirement approximate
100 %	-	-
60 %	1.15 x S1 torque	1.15 x S1 current
40 %	1.30 x S1 torque	1.30 x S1 current
25 %	1.45 x S1 torque	1.45 x S1 current
15 %	1.60 x S1 torque	1.60 x S1 current

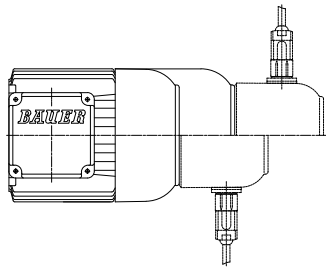
This, in turn, means that short-term overload by a factor of 1.6 is permissible for starting from a low speed, for example. An increase in torque in the field-weakening range due to a reduction in duty factor is possible only under certain conditions; the 1.6x S1 torque generally cannot be achieved

Increased torque with external fan

If an independent fan is used, the S1- torque in the lower frequency range (below 30 Hz) need not be reduced, i.e., when it has an independent fan the motor can provide the 50 Hz or 60 Hz rated torque throughout the entire frequency range to the cut-off frequency of the field weakening.

With a high quality frequency inverter of 160 %, when independent ventilation is combined with a reduced duty factor the 50 Hz or 60 Hz torque is available from rest through to the transition frequency of the field weakening range.

External ventilation is available for motor types D08 and larger (see chapter 16 "Motor-independent fan (FV). In many instances, a more economical alternative is to select a larger motor without external ventilation.



15

Motor-mounted components

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Energy Efficient Geared Motors

AC Line Operated / North America

Functional description

The compression springs act on the anchor disc, which is free to move in the axial direction and presses the brake disc, which is keyed to the rotor shaft, against the friction plate or the motor bearing plate. This produces the braking torque.

When a DC voltage is applied to the coil in the electromagnet housing, it generates a magnetic force that opposes the spring force and causes the anchor disc to be pulled toward the electromagnet enclosure.

This releases the brake disc and disengages the brake.

Brakes are classified into two types according to how they are used: holding brakes and working brakes.

Holding brake ES.. / ZS..

brake that in normal operation does not convert kinetic energy into frictional energy but is only used to hold a mechanism in a particular position, but which can also be used for motion braking in an emergency.

Service brake ESX.. / ZSX..

A brake that converts kinetic energy into frictional energy in normal operation, which means that it brakes mechanical motion.

When a working brake is used as a holding brake, the braking torque tolerance of up to -30 % (in new condition) must be taken into account.

Product description of type ES(X) spring-actuated brakes

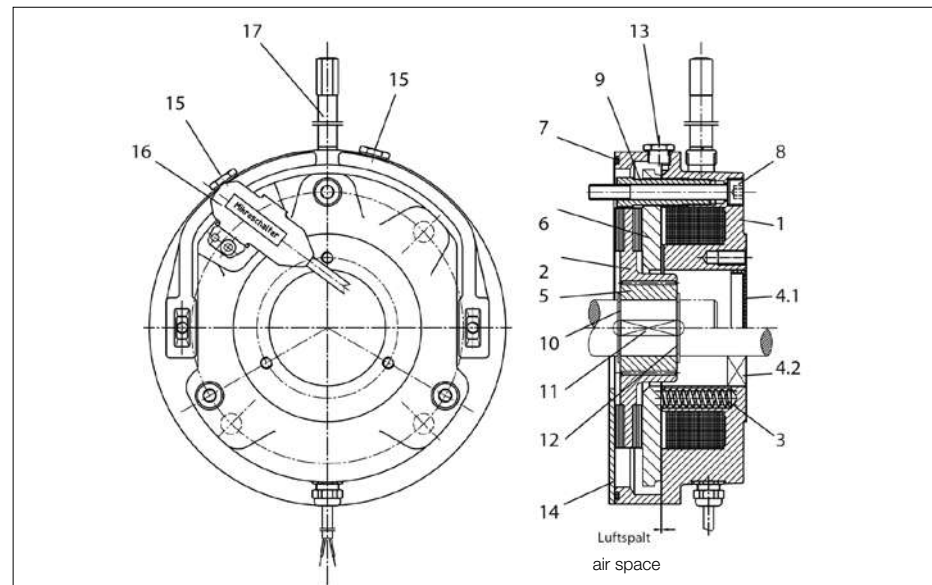


Figure 1: Construction of ES(X) brake

Construction of ES(X) brake

1	Electromagnet housing	9	Hollow screw
2	Brake disc	10	Retaining ring
3	Compression spring	11	Key
4.1	Cover plate with closed brake	12	Retaining ring
4.2	Shaft seal with through shaft	13	Screw plug for checking air gap
5	Drive bush	14	Friction plate (only with motor size Dxx08 or Dxx09)
6	Anchor disc	15	Screw plug for checking microswitch setting
7	O-ring	16	Microswitch (optional)
8	Fitting screw with copper washer	17	Manual release (optional)

Brake mounting

ES and ESX: Brake mounting is under the fan cover

EH and EHX: Brake mounting is on the fan cover

Options

- Manual release, non-locking or locking
- Microswitch for monitoring operation or wear

Product description of type ZS(X) spring-actuated brakes

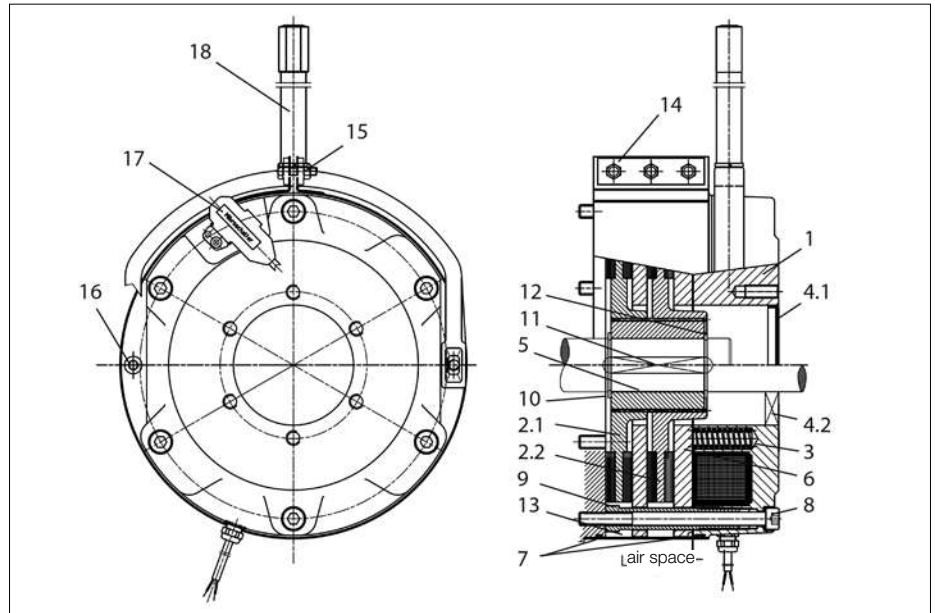


Figure 2: Construction of ZS(X) brake

Construction of ZS(X) brake

1 Electromagnet housing	9 Hollow screw
2.1 Brake disc	10 Retaining ring
2.2 Brake disc	11 Key
3 Compression spring	12 Retaining ring
4.1 Cover plate	13 Cover
4.2 Shaft seal with through shaft	14 Fitting screws
5 Drive bush	15 Bracket
6 Anchor disc	16 Assembly screw/assembly aid
7 O-ring	17 Microswitch (optional)
8 Fitting screw with copper washer	18 Manual release (optional)

Options

- Manual release, non-locking or locking
- Microswitch for monitoring operation or wear

Brake selection and sizing

If the working brake is undersized, it will have increased wear and a shorter lifetime. If it is oversized, the resulting mechanical forces may overload the drive.

If specific application data is not available, in the case of horizontally driven equipment we recommend selecting a braking torque with a safety factor (K) of 1 to 1.5 times the rated torque of the motor.

For braking to standstill, the selected braking torque should be at least 80 % of the rated torque of the drive.

Rated torque:

$$M_{\text{Berf}} = \frac{P \times 9550}{n_2} \times K$$

M_{Berf}	Braking torque	[Nm]
P	Motor power	[kW]
n	Rated speed at rotor shaft	[rpm]

For lifting operation, a braking torque equal to twice the rated motor torque should always be chosen for safety reasons.

If the moment of inertia, speed and allowable deceleration time of the machine are known, the braking torque can be calculated as described below.

External moments of inertia

If the masses to be decelerated by the brake do not run at the same speed as the rotor shaft, the moment of inertia (J_{ext}) must be reduced to the value at the rotor shaft

$$J_{\text{ext}'} = \frac{J_{\text{ext}1} \times n_1^2 + J_{\text{ext}2} \times n_2^2 + \dots + J_{\text{ext}n} \times n_n^2}{i^2}$$

or the external moment of inertia reduced by the gear ratio of the gear unit to the value at the rotor shaft.

$$J_{\text{ext}'} = \frac{J_{\text{ext}}}{i^2}$$

J_{ext}	Total external moment of inertia [kgm ²]
$J_{\text{ext}'}$	Total external moment of inertia referenced to the rotor shaft [kgm ²]
$J_{\text{ext}1,2,\dots}$	Individual external moments of inertia [kgm ²]
i	Gear reduction ratio
n	Rotor shaft speed
$n_{1,2,\dots}$	Speeds of the individual moments of inertia [rpm]

Load torque under static load

$$M_L = F \times r$$

M_L	Load torque [Nm]
F	Force [N]
r	radius [m]

Braking torque with dynamic load

A purely dynamic load is present when flywheels, rolls, etc. must be decelerated and the static load torque is negligible.

$$M_a = \frac{J_{ges} \times n_a}{9,55 \times (t_a - t_A)} = \frac{(J_{ext} + J_{rot} + J_{Br}) \times n_a}{9,55 \times (t_a - t_A)}$$

J_{br}	Moment of inertia of the brake [kgm ²]
J_{rot}	Moment of inertia of the rotor shaft and rotor [kgm ²]
M_a	Deceleration torque [Nm]
n_a	Initial speed at start of deceleration [rpm]
t_a	Total deceleration time (from switch-off until drive is stationary) [s]
t_A	The response time of the brake for braking corresponds to t_{AC} or t_{DC} in the specification tables [s]

Dynamic and static loads

In most application situations, both static and dynamic loads are present.

$$M_{Berf} = (M_a \pm M_L) \times K \quad \text{where} \quad M_{Berf} \leq M_{Br} \quad \text{must hold true.}$$

M_L braking (positive) or driving (negative) load torque [Nm]

Heat generated by each brake cycle

Friction converts the kinetic energy of the moving masses into heat.

This amounts to

$$W = \frac{J_{ges} \times n^2}{182,5} = \frac{(J_{ext} + J_{rot} + J_{Br}) \times n_a^2}{182,5} \quad \text{where} \quad W \leq W_{max} \quad \text{must hold true.}$$

W	Braking energy for each brake cycle [J]
M_{max}	Maximum permissible frictional energy per brake cycle (see brake tables)

Thermally allowable braking energy of working brakes

With a uniform sequence of brake cycles, which means a certain average number of brake cycles per hour, the temperature rises until an equilibrium between heat input and heat dissipation is reached. The temperature rise must be sized to avoid overheating the coil and the friction layer, taking the ambient temperature into account.

Braking to standstill:

$$W_z = W \times Z \leq W_{th}$$

W_{th}	Maximum allowable braking energy per hour
W_z	Braking energy with Z brake cycles
Z	Number of brake cycles per hour

Lifting operation

In lowering operation, the drive motor acts as a generator and its braking effect results in a steady downward motion (constant speed). If we ignore transmission losses, under full load the drive must brake the load with the rated motor torque. If a mechanical brake with a braking torque equal to the braking torque of the motor is applied after the drive is switched off, the downward motion will continue at the same speed. This means that additional braking torque is necessary to stop the motion of the load. For example, if the brake is dimensioned for 200 % braking torque, approximately 100 % is used for "static" deceleration and the rest is used for "dynamic" deceleration. If part of the braking torque is required for braking the load during lowering (downward motion), the brake engagement time is greater, and the thermal load is therefore greater.

In this case

$$W_H = \frac{M_{Br}}{M_{Br} - M_L} \times W_z$$

W_H	Friction energy per hour in lifting operation
M_{Br}	Braking torque of the brake

Brake lifetime

The energy absorbed during braking causes the brake disc to wear, which increases the air gap. If the air gap increases beyond a certain maximum gap size, the magnetic field is so weak that the pulling force of the electromagnet is no longer sufficient to release the brake. A proper air gap must be restored by adjusting the air gap or by replacing the brake disc, depending on the type of brake construction.

The maximum number of brake cycles until service is necessary can be calculated as follows:

$$Z_L = \frac{W_L}{W}$$

Z_L	Number of brake cycles until the air gap limit is reached
W_L	Maximum allowable braking energy until maintenance; i.e. replacing the brake disc or adjusting the air gap. Adjustment of the air gap is possible only with type ZXsxx brakes.

Deceleration time

The pure braking time from the start of mechanical braking to standstill depends on the braking deceleration.

Especially with lifting operation, but also in other types of operation, it is necessary to check whether the load torque reinforces the braking effect or counters the braking effect.

The deceleration time is therefore calculated as follows:

$$t_a = \frac{J_{ges} \times n_a}{9,55 \times (M_{Br} \pm M_L)}$$

Electrical connection

General

There are two basic options for providing the supply voltage for the DC electromagnet:

1. Externally from an existing DC control voltage mains or a rectifier in the cabinet.
2. From a rectifier built into the motor or brake terminal box. In this case, the rectifier can be powered either directly from the motor terminal board or from the mains.

Note that in the following cases the rectifier is not allowed to be connected to the terminal board of the motor:

- Pole-changing motors and motors with wide operating voltage range
- Operation from a frequency converter
- Other configurations in which the motor voltage is not constant, such as operation with soft-start devices, start-up transformers, etc.

Release

When the rated voltage is applied to the electromagnet coil, the current through the coils increases exponentially and with it the generated magnetic field. The current must rise to a certain value (I_{release}) before it overcomes the spring force and starts to release the brake.

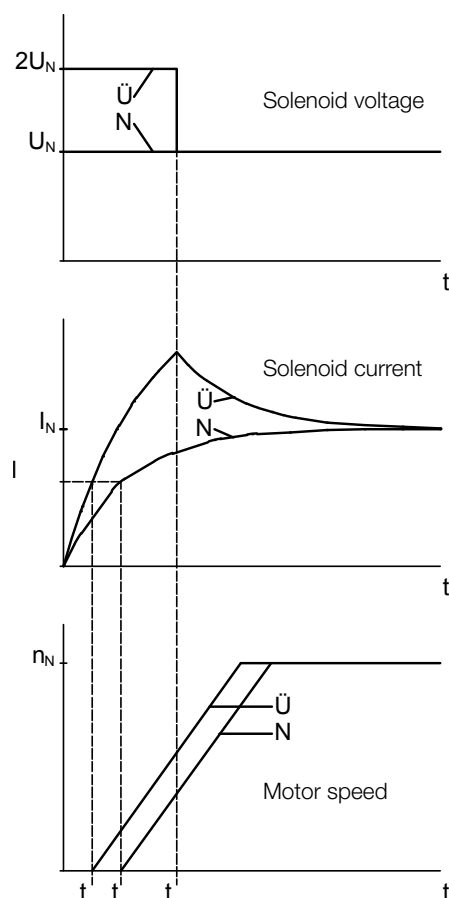


Figure 3: Idealized curves of coil voltage, coil current and motor speed with normal excitation (N) and overexcitation (Ü).
 t_U : overexcitation time; t_{AN} , $t_{AÜ}$: Response time with normal excitation and overexcitation.

Two different situations can arise during the response time t_A , assuming that the voltage is applied to the motor and the brake simultaneously:

- The motor is locked if $M_A < M_L + M_{Br}$
The motor draws its locked-rotor current, which increases the thermal load on the motor.
This situation is illustrated in Figure 3.
- The brake slips if $M_A > M_L + M_{Br}$
In this case, the brake is also thermally stressed during start-up and wears faster.

M_A : locked rotor torque of the motor; M_L : load torque; M_{Br} : braking torque

As can be seen, there is an additional load on the motor and brake in both cases. The effect of the response time increases with increasing brake size. Consequently, it is advisable to reduce the response time, especially with medium-sized and large brakes and with a high cycle rate. This can be achieved relatively easily by means of electrical overexcitation. With this approach, the coil is briefly operated at twice its rated voltage after switch-on.

This causes the current to rise faster than with normal excitation, and it reduces the response time by approximately 50 %. This overexcitation function is built into the type MSG special rectifier.

The release current increases with increasing air gap, and with it the response time. When the release current exceeds the rated coil current, the brake will not be released with normal excitation and the brake has reached its wear limit.

Braking

The brake does not start generating braking torque immediately after the coil voltage is switched off. First the magnetic energy must decline to the point that the spring force can overcome the magnetic force. This occurs at the holding current I_{hold} , which is lower than the release current.

The response time depends on how the voltage is switched off.

Switching off the AC supply voltage to a type SG standard rectifier

- a) Rectifier powered from the motor terminal board (Figure 4, curve 1)
Response time t_{A1} : very long

Cause: Due to the residual magnetism of the motor, after the motor voltage is switched off a slowly decaying voltage is induced, and it continues to supply power to the rectifier and thereby to the brake. In addition, the magnetic energy of the brake coil is dissipated relatively slowly in the freewheel circuit of the rectifier.

- b) Rectifier powered separately (Figure 4, curve 2)
Response time t_{A2} : long

Cause: After the rectifier voltage is switched off, the magnetic energy of the brake coil is dissipated relatively slowly in the freewheel circuit of the rectifier.

If the supply voltage is interrupted on the AC side, no significant switch-off voltage occurs on the electromagnet coil.

Interrupting the DC circuit of the electromagnet coil (Figure 4, curve 3)

a) By a mechanical switch

- with separate power supply from a DC control voltage mains or
- at the DC switch contacts (A2 and A3) of the type SG standard rectifier

Response time t_{A3} : very short

Cause: The magnetic energy of the brake coil is dissipated very quickly by arcing across the switch contacts.

b) Electronic

Using a type ESG or MSG special rectifier

Response time t_{A3} : short

Cause: The magnetic energy of the brake coil is dissipated quickly by a varistor integrated in the rectifier.

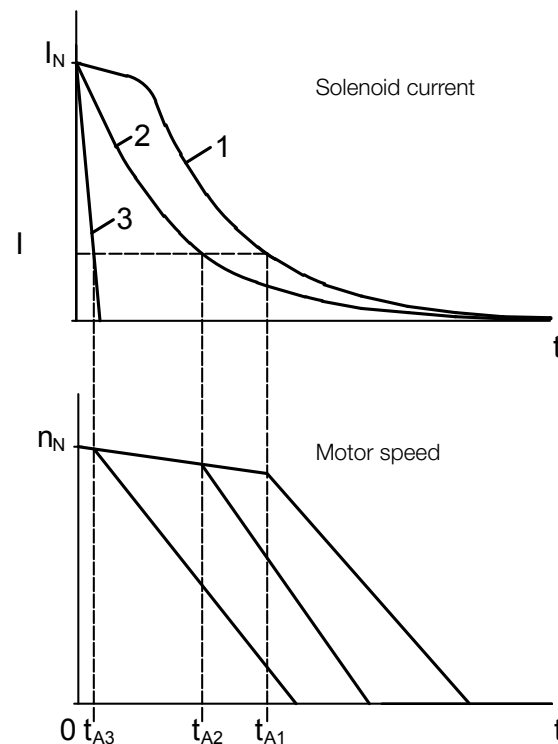


Figure 4 Idealized coil current and motor speed curves after switching off power on the AC side (1 and 2) or DC side (3)

If the circuit is interrupted on the DC side, a high voltage u_q is induced by the electromagnet coil. The magnitude of this voltage depends on the inductance L of the coil and the switch-off speed di/dt according to the formula

$$u_q = L \cdot \frac{di}{dt}$$

Due to the winding design, the inductance L increases with increasing rated coil voltage. Consequently, the voltage spikes induced at switch-off can reach hazardous levels with relatively high coil voltages. For this reason, a varistor is included in the circuit for all brakes with voltages greater than 24 V.

This varistor is solely intended to protect the electromagnet coil; it is not intended to protect adjacent electronic components or devices against electromagnetic interference. On request, brakes with rated voltages of 24 V or less can also be fitted with a varistor.

If the circuit is interrupted on the DC side by a mechanical switch, the resulting arcing over the switch contacts causes strong erosion of the contacts. For this reason, only special DC contactors or adapted AC contactors with contacts rated for use class AC3 as specified in EN 60947-4-1 may be used.

Specifications of holding brakes with emergency stop capability

The maximum allowable friction energy values stated here do not apply to brake motors for use in areas with potentially explosive atmospheres.
Refer to separate data in appropriate documents for explosion-proof drives.

Type	M _{Br} [Nm]	W _{max} [10 ³ J]	W _{th} [10 ³ J]	W _L [10 ⁶ J]	t _A [ms]	t _{AC} [ms]	t _{DC} [ms]	P _{el} [W]	J [10 ⁻³ kgm ²]
E003B9	3	1.5	-	-	35	150	15	20	0.01
E003B7	2.2	1.8	-	-	28	210	20		
E003B4	1.5	2.1	-	-	21	275	30		
E004B9	5	2.5	-	-	37	125	15	30	0.017
E004B8	4	3	-	-	30	160	18		
E004B6	2.8	3.6	-	-	23	230	26		
E004B4	2	4.1	-	-	18	290	37		
E004B2	1.4	4.8	-	-	15	340	47		
ES/EH010AX	15*	3	-	-	110	-	30	35	0.045
ES/EH010A9	10	3	-	-	60	100	15		
ES/EH010A8	8	3	-	-	55	150	20		
ES/EH010A5	5	3	-	-	45	220	20		
ES/EH010A4	4	3	-	-	30	250	20		
ES/EH010A2	2.5	3	-	-	25	350	25		
ES027AX	32*	2.5	-	-	80	-	30	50	0.172
ES/EH027A9	27	2.5	-	-	120	100	15		
ES/EH027A7	20	2.5	-	-	100	130	20		
ES/EH027A6	16	2.5	-	-	80	170	25		
ES/EH040A9	40	3.5	-	-	100	100	20	65	0.45
ES/EH040A8	34	3.5	-	-	80	200	25		
ES/EH040A7	27	3.5	-	-	70	250	30		
ES/EH070AX	90*	3.5	-	-	120	-	40	85	0.86
ES/EH070A9	70	3.5	-	-	120	150	18		
ES/EH070A8	63	3.5	-	-	120	200	20		
ES/EH070A7	50	3.5	-	-	90	220	25		
ES/EH125A9	125	4.5	-	-	170	220	25	105	1.22
ES/EH125A8	105	4.5	-	-	150	320	28		
ES/EH125A7	85	4.5	-	-	135	350	30		
ES/EH125A6	70	4.5	-	-	120	440	35		
ES125A5	57	4.5	-	-	100	600	40		
ES125A3	42	4.5	-	-	90	700	45		
ES/EH200A9**	200	8	-	-	400	150	22	105	2.85
ES/EH200A8**	150	8	-	-	280	250	35		
ES/EH200A7**	140	8	-	-	200	320	35		
ES250A9**	250	9	-	-	300	500	45	135	6.65
ES250A8**	200	9	-	-	200	960	60		
ES250A6**	150	9	-	-	160	1100	60		
ES250A5**	125	9	-	-	150	1500	90		
ES250A4**	105	9	-	-	130	1800	110		
ZS300A9**	300	8	-	-	280	220	35	75	5.7
ZS300A8**	250	8	-	-	210	380	45		
EH400A9**	400	10	-	-	300	600	60	180	19.5
EH400A7**	300	10	-	-	200	850	75		
EH400A5**	200	10	-	-	150	1400	85		
ZS500A9**	500	9	-	-	320	320	50	100	13.3
ZS500A8**	400	9	-	-	260	600	60		

* Requires overexcitation; permissible only with MSG rectifier

** Cannot be combined with PMSM motors of the S series

Braking torque tolerance: -10 / +30 %

W_{th} and W_L are not specified because little or no braking energy is dissipated by holding brakes when they are used as intended.

For versions with braking torque marked with *, which may only be used with an MSG rectifier, the values of t_A and t_{DC} apply to operation with an MSG rectifier; i.e. t_A for overexcitation or t_{DC} for electronic circuit interruption on the DC side.

Due to the effects of operating temperature and manufacturing tolerances, actual response times may differ from the guideline values listed here.

Motor Mounted Components

Brake

Specifications of working brakes

The maximum braking energy values stated here do not apply to brake motors for use in areas with potentially explosive atmospheres. Refer to separate data in appropriate documents for explosion-proof drives.

Type	M _{Br} [Nm]	W _{max} [10 ³ J]	W _{th} [10 ³ J]	W _L [10 ⁶ J]		t _A [ms]	t _{AC} [ms]	t _{DC} [ms]	P _{el} [W]	J [10 ⁻³ kgm ²]
				without HL***	with HL***					
E003B9	3	1.5	36	55	55	35	150	15	20	0.01
E003B7	2.2	1.8	36	90	90	28	210	20		
E003B4	1.5	2.1	36	140	140	21	275	30		
E004B9	5	2.5	60	50	50	37	125	15	30	0.017
E004B8	4	3	60	100	100	30	160	18		
E004B6	2.8	3.6	60	180	180	23	230	26		
E004B4	2	4.1	60	235	235	18	290	37		
E004B2	1.4	4.8	60	310	310	15	340	47		
ESX/EHX010AX	15*	3	250	120	120	110	-	30	35	0.045
ESX/EHX010A9	10	3	250	120	120	60	100	15		
ESX/EHX010A8	8	3	250	150	150	55	150	20		
ESX/EHX010A5	5	3	250	240	240	45	220	20		
ESX/EHX010A4	4	3	250	300	240	30	250	20		
ESX/EHX010A2	2.5	3	250	390	240	25	350	25		
ESX027AX	27*	10	350	150	150	80	-	30	50	0.172
ESX/EHX027A9	22	10	350	150	150	120	100	15		
ESX/EHX027A7	16	10	350	300	300	100	130	20		
ESX/EHX027A6	13	10	350	350	350	80	170	25		
ESX/EHX040A9	32	20	450	420	420	100	100	20	65	0.45
ESX/EHX040A8	27	20	450	560	490	80	200	25		
ESX/EHX040A7	22	20	450	700	490	70	250	30		
ESX/EHX070AX	72*	28	550	700	700	120	-	40	85	0.86
ESX/EHX070A9	58	28	550	500	500	120	150	18		
ESX/EHX070A8	50	28	550	800	700	120	200	20		
ESX/EHX070A7	40	28	550	1200	700	90	220	25		
ESX/EHX125AX	100*	40	700	1900	1900	100	-	70	105	1.22
ESX/EHX125A9	85	40	700	1700	1700	150	320	28		
ESX/EHX125A8	70	40	700	1900	1700	135	350	30		
ESX/EHX125A7	58	40	700	2700	1700	120	440	35		
ESX125A5	45	40	700	3300	1700	100	600	40		
ESX125A3	34	40	700	3300	1700	90	700	45		
ESX/EHX200AX**	160*	60	850	2000	2000	105	-	70	105	2.85
ESX/EHX200A9**	120	60	850	1700	1700	280	250	35		
ESX/EHX200A8**	110	60	850	2600	2600	200	320	35		
ESX250A9**	200	84	1000	2800	2800	300	500	45	135	6.65
ESX250A8**	160	84	1000	6800	5700	200	960	60		
ESX250A6**	120	84	1000	8500	5700	160	1100	60		
ESX250A5**	100	84	1000	11000	5700	150	1500	90		
ESX250A4**	85	84	1000	11000	5700	130	1800	110		
ZSX300A9**	250	60	850	1300	1300	280	220	35	75	5.7
ZSX300A8**	200	60	850	2000	2000	210	380	45		
EHX400A9**	320	120	1100	3000	3000	300	600	60	180	19.5
EHX400A7**	240	120	1100	4800	4800	200	850	75		
EHX400A5**	160	120	1100	6000	4800	150	1400	85		
ZSX500A9**	400	84	1000	2800	2800	320	320	50	100	13.3
ZSX500A8**	320	84	1000	4000	4000	260	600	60		

* Requires overexcitation; permissible only with MSG rectifier

** Cannot be combined with PMSM motors of the S series

*** HL = manual release

Braking torque tolerance:

E003 / E004: -10 / +30 %

ES(X)xxx / ZS(X)xxx: -20 / +30 % after run-in; up to -30 % in new condition.

For versions with braking torque marked with *, which may only be used with an MSG rectifier, the values of t_A and t_{DC} apply for operation with an MSG rectifier; i.e. t_A for overexcitation or t_{DC} for electronic circuit interruption on the DC side.

The values for W_L are guidelines; actual values may vary significantly depending on the application situation. Periodic inspection of the air gap or brake disc thickness is recommended.

Actual response times may differ from the times listed here due to the effects of operating temperature, brake disc wear and manufacturing tolerances.

Key to symbols

M_{Br}	Rated braking torque
W_{max}	Maximum allowable friction energy for an emergency stop with a holding brake
W_{max}	Maximum allowable friction energy for each brake cycle with working brakes
W_{th}	Maximum allowable braking energy per hour
W_L	Maximum allowable braking energy until maintenance; i.e. brake disc replacement or air gap adjustment. Air gap adjustment is possible only with type ZSXxxx brakes.
H_L	Manual release
t_A	Response time for release with normal excitation. Overexcitation with a type MSG special rectifier reduces the response time by approximately 50 %.
t_{AC}	Response time for brakes with AC-side switch-off, i.e. by switching off the supply voltage to a separately powered standard rectifier. If the supply voltage for the rectifier is taken from the motor terminals, considerably longer response times should be expected (depending on the motor size and winding design).
t_{DC}	Response time for braking with DC-side circuit interruption by a mechanical switch. In the case of electronic circuit interruption on the DC side by a type ESG or MSG special rectifier, the response times will be approximately two to three times as long.
P_{el}	Electromagnet coil power consumption at 20 °C. Depending on the rated voltage of the coil, the actual power may differ from the guideline value stated here.
J	Moment of inertia of the drive bush and brake disc(s)

Motor Mounted Components

Brake

Connection

The electrical connections to the brake are made in the motor terminal box using terminals or the rectifier. Standard voltages:

380–420 V 50/60 Hz (brake coil voltage 180 V DC)

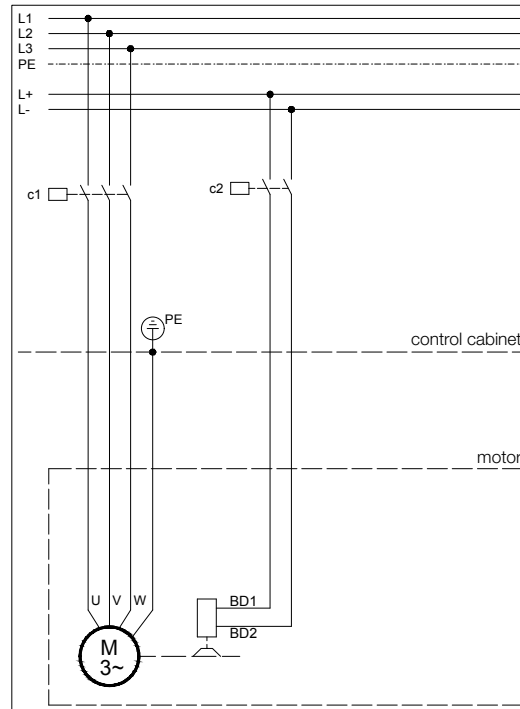
220–230 V 50/60 Hz (brake coil voltage 105 V DC)

24 V DC (brake coil voltage 24 V DC)

Other voltages are available at additional cost.

DC connection via terminals (K)

The brake must be connected via separate terminals in the motor or brake terminal box directly to the DC voltage. The standard voltages are 180 V DC, 105 V DC and 24 V DC. Brakes with other operating voltages are available at additional cost.



Standard rectifier (S)

Working principle

Half-wave rectifier with switch contacts for DC-side circuit interruption

Input voltage U_1

max. 575 VAC +5 %

Output voltage

$0.45 \times U_1$ VDC

Max. output current

2.5 A DC

Ambient temperature

-40 to +40 °C

Connection

Caged Clamp terminals with clamp lever

Clampable conductor cross-section

max. 1.5 mm² without wire end sleeve

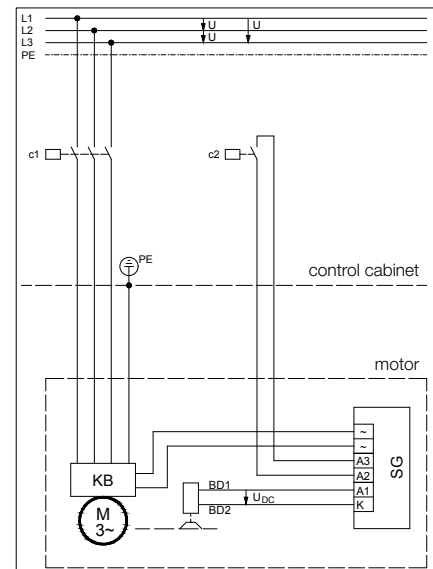
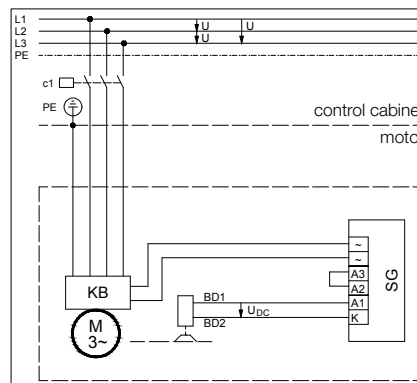
max. 1.5 mm² with wire end sleeve

Approvals

c-CSA-us

c-UL-us (only in combination with B2000 geared motors and brakes in the ES(X) or ZS(X) product series)

The brake must be connected to the AC supply via the standard rectifier in the motor terminal box or brake terminal box. The standard voltages are 380 ... 420 V 50/60 Hz or 220 ... 230 V 50/60 Hz. Other voltages up to 575 V are available at extra cost. In a configuration with standard rectifier, the brake circuit can be interrupted by an extra contact on the d.c. side in order to reduce the response time. This significantly reduces the braking time and overtravel distance.



Voltage connection for the rectifier from the motor terminal block or cage clamp (see Rectifier Connection on Motor Terminal Block or Cage Clamp)

Motor Mounted Components

Brake

Rectifier for electronic rapid shutdown (E)

Working principle

Input voltage U_1

Output voltage

Max. output current

Ambient temperature

Clampable conductor cross-section max. 1.5 mm²

Half-wave rectifier with electronic

DC-side circuit interruption

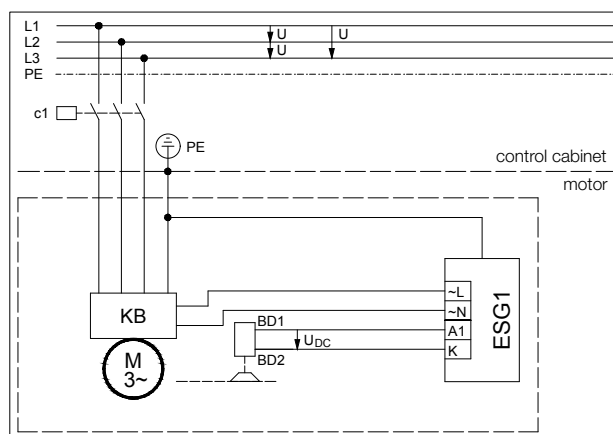
220–460 V AC $\pm 5\%$, 50/60 Hz

0.45 x U_1 V DC

1 A DC

-20 °C to +40 °C

This rectifier permits electronic DC-side interruption of the brake circuit. No additional cable to the rectifier is necessary. The rectifier is supplied complete with a protective resistor which prevents a mains short-circuit via the shutdown arc of the high-speed motor contactor. Brake response times are significantly shorter than those achievable by AC-side interruption of the brake circuit. They are, however, longer than those achievable with DC-side interruption by a mechanical switch. The brake must be connected to the alternating current via the rapid shutdown rectifier in the motor terminal box or the brake terminal box. The standard voltages are 380 ... 420 V 50/60 Hz or 220 ... 230 V 50/60 Hz. Other voltages up to 460 V are available at extra cost.

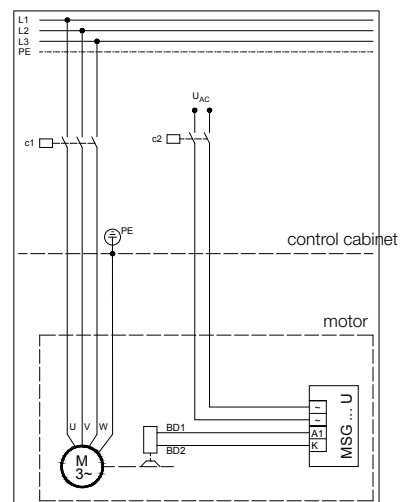
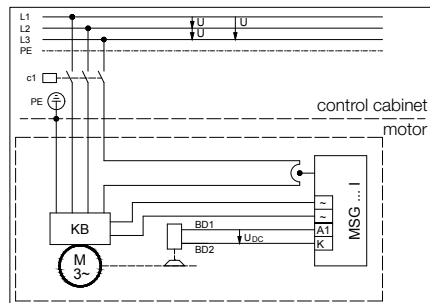


Voltage connection for the rectifier from the motor terminal block or cage clamp (see Rectifier Connection on Motor Terminal Block or Cage Clamp)

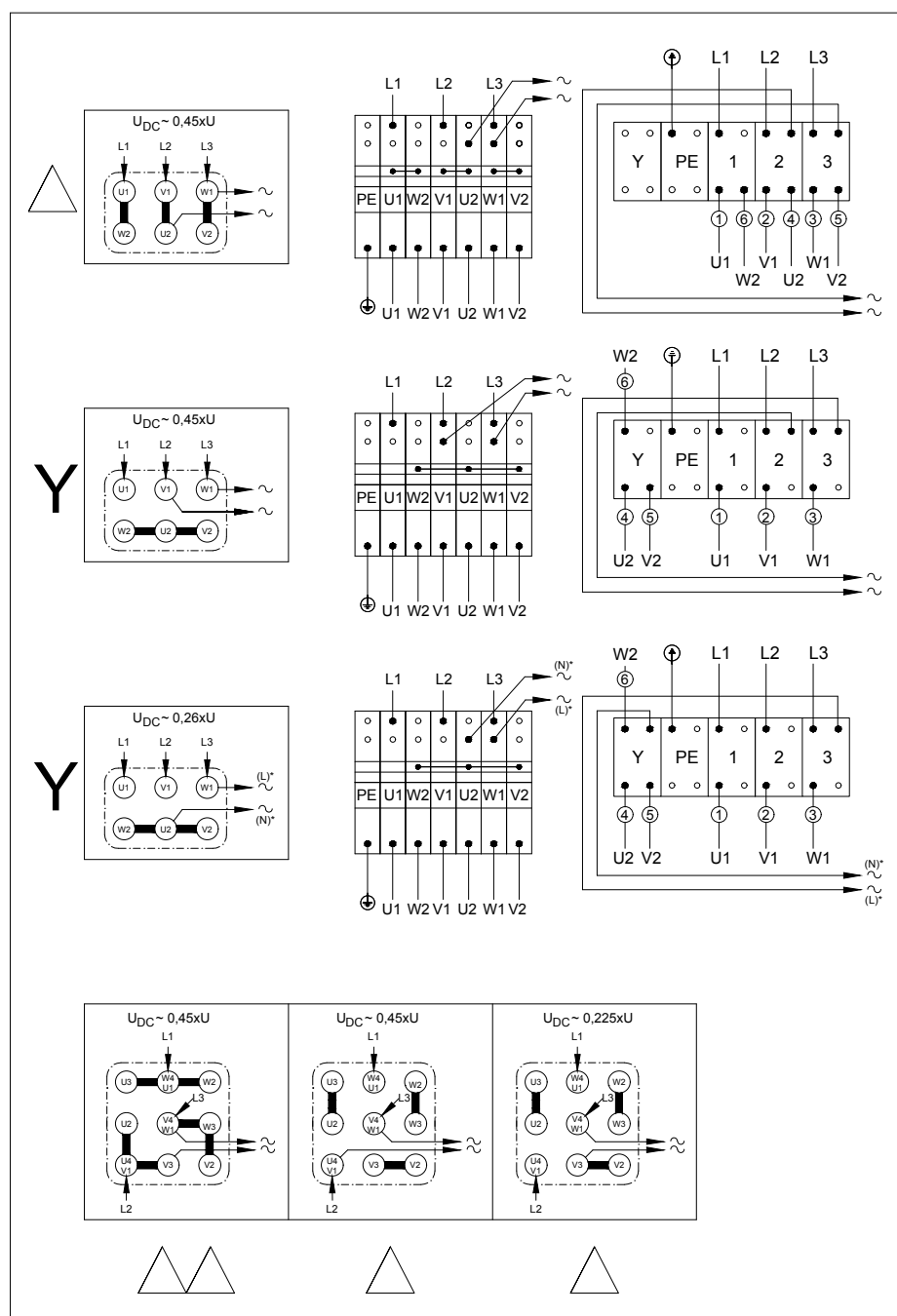
Standard rectifier (M)

Working principle	MSG 1.5.480I Half-wave rectifier with time-limited overexcitation and electronic DC-side circuit interruption Fast shutdown due to no motor current in one phase
Input voltage U_1	220–480 V AC +6 / -10 %, 50/60 Hz
Output voltage	0.9 x U_1 V DC during overexcitation 0.45 x U_1 V DC over overexcitation period
Overexcitation time	0.3 s
Max. output current	1.5 A DC
Ambient temperature	-20 °C to +40 °C
Clampable	
conductor cross-section	max. 1.5 mm ²
Working principle	MSG 1.5.500U Half-wave rectifier with time-limited overexcitation and electronic DC-side circuit interruption Fast shutdown due to the absence of input voltage
Input voltage U_1	220–500 V AC ±10 %, 50/60 Hz
Output voltage	0.9 x U_1 V DC during overexcitation 0.45 x U_1 V DC over overexcitation period
Overexcitation time	0.3 s
Max. output current	1.5 A DC
Ambient temperature	-20 °C to +40 °C
Clampable	
conductor cross-section	max. 1.5 mm ²

In cases where there are high motor switching frequencies, the brake can be de-energized more rapidly with this rectifier thereby significantly reducing the thermal stress on the motor. In addition, interrupting the brake's DC circuit by electronic means significantly reduces response times. Depending on the circumstances in which they are to be used, either the MSG 1.5.500 U (rapid shutdown brought about by removed supply voltage) or MSG 1.5.480 I (rapid shutdown brought about by removed motor current in a phase) is used. Power supply 220 to 480 V AC.



Rectifier Connection on Motor Terminal Block or Cage Clamp



Brake connection, operation with frequency converter

The voltage present at the motor terminal block when operating with a frequency converter is frequency-dependent. Brakes require a constant voltage, so they need a separate electrical connection. This is the reason why the brake is not connected to the motor terminals ex- works.

Brake connection, pole-changing motors

The brakes of pole-changing motors need a separate electrical connection. As is the case with motors for operation with frequency inverters, the brake is not connected to the motor terminals ex-works.

Manual release (HA, HN)

All brakes are available with mechanical manual release on request. Non-latching manual release is the standard version (HN). A latching manual release (HA) can be supplied if required for all brake sizes.

Explosion protection

Brakes for use in hazardous areas are subject to special regulations. Please consult our support specialists in these special cases.

Back stop (RR, RL)

Motors of size D..08 up D..22 are available with backstop. The locking rotational direction clockwise (RR) or anticlockwise (RL) is to given in the order. The reference is the connection side of the gearbox. Should the connection side not be clearly defined, gearbox side "V" (front) will be assumed (see chapter 16 Dimensions drawing "Motor with back stop").

Note that the back-stop functionality on a motor operating with a frequency converter is guaranteed only at rotor speeds above 670/min.

It is advisable to consult BAUER for applications in corrosive atmospheres, especially for motor-down installed positions.

Second motor extension (ZW, ZV)

The motors are also available on request with a second motor shaft extension in design ZW (shaft with key) or ZV (shaft with square end).

Half the central motor's rated power is available at each of the two shafts. Permissible radial loads available on request. Guards are not included in the scope of supply (for dimensional drawing see chapter 16).

Motors with brakes are available on request with a second shaft stub extended through the brake.

Protective fan cowl (D)

A protective hood over the fan cowl is recommended for outdoor installations where the motor is pointing upward and subject to severe or prolonged exposure to water (dimensional drawing, see chapter 16).

This protective hood is mandatory for upright explosion-proof motors.

A special fan cowl for the textiles industry is available on request at extra cost. This design prevents airborne fibers and fluff clogging the fan cowl.

Motor-independent fan (FV)

For special applications, standard motors and brake motors of size D08 and larger are available with externally mounted motor-independent fans. The standard line voltage of the motor-independent fan matches the voltage of the geared motor (dimensional drawing for motor-independent fan, see chapter 16).

The independent fans are supplied as standard with Bayonet-fitting for standard motors sizes D..16 and D..18 and brake motors sizes D..11 to D..18.

Technical Data:

Multivolt Conception Running capacitor for single phase duty enclosed as standard.

Motor Mounted Components

Brake

Technical Data Motor-independent fan

Mode	Frame size	Blower Diameter [mm]	Range of voltage		max. permissible current		max. power input	
			[V]		[A]		[W]	
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
1 ~ Δ (Δ)	63	118	230-277	230-277	0.18	0.21	46	54
	71	132	230-277	230-277	0.18	0.21	48	56
	80	150	230-277	230-277	0.19	0.22	48	59
	90	169	220-277	220-277	0.29	0.23	59	61
	100	187	220-277	220-277	0.29	0.28	62	73
	112	210	220-277	220-277	0.27	0.36	64	88
	132	250	230-277	230-277	0.52	0.61	125	163
	160-200	300	230-277	230-277	1.05	1.52	246	390
3 ~ Y	63	118	346-525	380-575	0.09	0.08	28	29
	71	132	346-525	380-575	0.09	0.07	29	28
	80	150	346-525	380-575	0.09	0.07	33	36
	90	169	346-525	380-575	0.22	0.18	78	71
	100	187	346-525	380-575	0.21	0.18	80	80
	112	210	346-525	380-575	0.2	0.17	87	93
	132	250	346-525	380-575	0.37	0.32	160	180
	160-200	300	346-525	380-575	0.74	0.62	314	391
3 ~ Δ	63	118	200-303	220-332	0.15	0.14	28	29
	71	132	200-303	220-332	0.15	0.13	29	28
	80	150	200-303	220-332	0.16	0.13	33	36
	90	169	200-303	220-332	0.39	0.32	78	71
	100	187	200-303	220-332	0.37	0.3	80	80
	112	210	200-303	220-332	0.35	0.29	87	93
	132	250	200-303	220-332	0.64	0.55	160	180
	160-200	300	200-303	220-332	1.28	1.08	314	391

Heavy cast fan impeller

A heavy cast fan impeller can be used instead of the standard fan impeller with D05 to D09 motors in applications requiring soft start or a reduction in switching shock when poles are changed. The heavy cast fan impeller reduces the permissible switching frequency of the motor.

Classification, motors and cast-iron fan impeller

Type of motor	J _{SL} (Moment of inertia of the cast-iron fan impeller)
D05/D06	0.0014 kgm ²
D07	0.0014 kgm ²
D08	0.004 kgm ²
D09	0.007 kgm ²

Shaft encoder (G)

Bauer gear motors can be fitted with either an incremental encoder or an absolute encoder for special applications. Both the standard incremental encoder and the absolute encoder are optimized and suitable for use with all modern inverters.

Bauer standard encoders as from motor frame size D05 (0,18kW) are protected against mechanical damage by means of a protective cover (Additional Dimension Sheet see chapter 17).

Special features: standard incremental encoder:

- Robust mount
- EMC-tested
- Protected against polarity reversal
- Supply voltage 8-30 V DC
- A-, B- and N-lines and inverted signals or output signals as preferred
- HTL output circuit (TTL on request)
- 1024 pulses per revolution

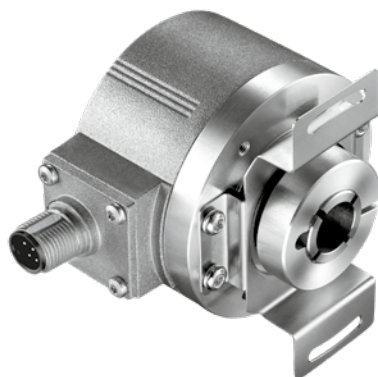
Special features: standard absolute encoder

- Steps per revolution: 8192 (13 Bit)
- Number of turns: 4096 (12 Bit) shaft turns
- Execution of electronic: SSI (Synchronous-Serial Interface)
- Output code: Gray-Code
- Supply voltage: 11-27 VDC
- Loss efficiency (no load): ≤ 3 Watt
- Output driver: RS-422 (2-wire)

Motor Mounted Components

Incremental rotary encoder

Functional description



Incremental encoders are used to determine motor shaft positions. An incremental encoder detects rotary motion and converts it into an electrical output signal. An encoder disc with a specific number of periods per rotation senses angular motion. The optoelectronic scanning unit generates signals and issues pulses after the signals have been processed in trigger stages. The resolution is defined by the number of opaque and clear segments on the encoder disc. For example, an encoder with 1024 lines will generate a sequence of 1024 pulses for one full rotation.

The combination of an incremental encoder and a frequency converter allows optimised solutions to be developed, such as

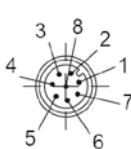
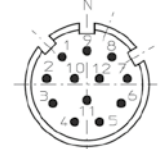
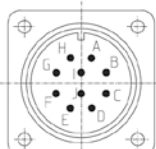
- speed controllers with a wide adjustment range
- accurate speed control
- constant-speed control
- position control

Supply voltage:	8–30 V DC with HTL 5 V DC with differential TTL
Output signals:	HTL A, B and N tracks; optional TTL
Pulses per revolution:	1024 Optional 1...65536
Enclosure rating:	IP65 (optional IP67)
Temperature range:	-40 °C to +100 °C

Electrical specifications

Output voltage	RS 422 (TTL compatible)	RS 422 (TTL compatible)	Differential	Differential (7272)
Supply voltage	5–30 V DC	5 V ±5%	8–30 V DC	5–30 V DC
No-load current consumption With inversion:	max. 70 mA	max. 70 mA	max. 70 mA	max. 70 mA
Allowable load per channel: Pulse rate:	max. ±20 mA max. 300 kHz	max. ±20 mA max. 300 kHz	max. ±20 mA max. 160 kHz	max. ±20 mA max. 160 kHz
High signal level:	min. 2.5 V	min. 2.5 V	min. UB – 3 V	min. UB – 3 V
Low signal level:	max. 0.5 V	max. 0.5 V	max. 1 V	max. 1 V

Plug end view with male pin insert

Connector type	8-pin M12 plug	12-pin M23 plug	MIL connector 10-pin
Layout			
Order code:	8.5000.XXX3.XXXX 8.5000.XXX4.XXXX	8.5000.XXX7.XXXX 8.5000.XXX8.XXXX	8.5000XXXY.XXXX
Mating 05.CMB-8181-0 connector:		8.0000.5012.0000	8.0000.5062.0000

Signal assignments

Signal:	0 V GND	+U _B	0 V Sens	+U _B Sens	A	A	B	B	Z	Z	Shield
M23 Multifast, 12-pin connector; pin assignments: M12 Eurofast, 8-pin connector; pin assignments:	10 1	12 2	11	2	5 3	6 4	8 5	1 6	3 7	4 8	1) 1)
Military version; 10-pin connector; pin assignments:	F	D		E	A	G	B	H	C	I	J ¹⁾
Cable; lead colour:	WH	BN	GY PK	RD BU	GN	YE	GY	PK	BU	RD	Shield

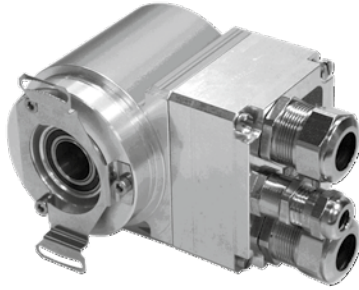
¹ Shield connected to plug housing.

Insulate unused outputs before putting into service.

Functional description

Absolute encoders detect both angular and rotational motions and convert them into electrical signals. In contrast to incremental encoders, with absolute encoders the current position is directly available. If an absolute encoder is moved mechanically while it is switched off, after the power is switched on again the current position can be read out immediately and directly. Absolute encoders are available in single-turn and multi-turn versions.

Profibus DP interface



Specifications

Supply voltage	11–27 VDC
No-load current consumption	< 350 mA
Total resolution ¹	≤ 33 bits
Number of steps per revolution, standard/extended ¹	≤ 8,192 / ≤ 32,768
Number of turns, standard/extended ¹	≤ 4,096 / ≤ 256,000
Profibus DP V0	IEC 61158, IEC 61784
PNO encoder profile	Class 1/Class 2
parameters ¹	Counting direction switchover, scaling function, etc.
Output code ¹	Binary, Gray, truncated Gray
Address	3–99, set using a rotary switch
Baud rate	9.6 kbit/s to 12 Mbit/s
TR-specific functions ¹	Gear and speed outputs
Data width on bus for actual position	≤ 25 bits
Permissible mechanical speed	≤ 12,000 rpm
Shaft load	Own mass
Bearing life	≥ 3.9 × 10 ¹⁰ revolutions at
- speed	≤ 6,000 rpm
- operating temperature	≤ 60 °C
Shaft diameter [mm]	10H7
Permissible angular acceleration	≤ 10 ⁴ rad/s ²
Moment of inertia	2.5 × 10 ⁻⁶ kg m ² (typical)
Start-up torque at 20 °C	2 Ncm (typical)
Weight	0.3–0.5 kg

¹ Configurable parameter

Ambient conditions

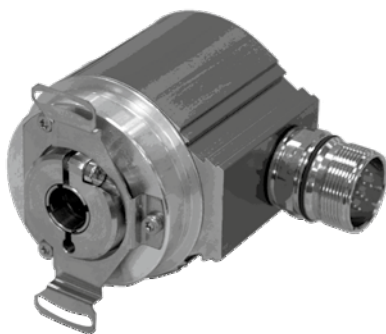
Vibration (EN 60068-2-6:1996)	≤ 100 m/s ² , sinusoidal 50–2,000 Hz
Shock (EN 60068-2-27:1995)	≤ 1000 m/s ² , half-cycle sinusoidal 11 ms
EMC	- Interference emission compliant with EN 61000-6-3:2007 - Interference immunity compliant with EN 61000-6-2:2006
Operating temperature	0 °C to +60 °C; optionally -20 °C to +70 °C
Storage temperature	-30 °C to +80 °C, dry
Relative humidity (EN 60068-3-4:2002)	98 %, non condensing
Enclosure rating (EN 60529:1991) ²	IP 65

² With mating connector fitted and/or cable glands fitted and tightened

Motor Mounted Components

Absolute rotary encoders

SSI interface



Specifications

Supply voltage	11–27 VDC
No-load current consumption	< 350 mA
Total resolution ¹	≤ 25 bits
Number of steps per revolution ¹	≤ 8,192
Number of rotations, standard ¹	≤ 4,096
Number of rotations, extended ¹	≤ 256,000
SSI	Synchronous Serial Interface
Clock input	Optocoupler
Data output	RS-422, 2-wire
Clock frequency	80 kHz – 1 MHz
Monostable time t_M	16 μ s ≤ t_M ≤ 25 μ s (20 μ s typical)
Output code ¹	Binary, Gray, BCD
Output format ¹	Standard, Tannenbaum, SSI + CRC, 26-bit cycle, variable number of data bits
Negative values ¹	Sign and magnitude, twos complement
SSI or parallel special bits ¹	Limit switch, overspeed, direction indication, motion indication, error indication, parity
F/R ¹	Counting direction
Preset ¹	Electronic alignment
Logic levels	“0” < +2 VDC; “1” = supply voltage
Permissible mechanical speed	≤ 12,000 rpm
Shaft load	Own mass
Bearing life	≥ 3.9 x 10 ¹⁰ revolutions at
- speed	≤ 6,000 rpm
- operating temperature	≤ 60 °C
Shaft diameter [mm]	10H7
Permissible angular acceleration	≤ 10 ⁴ rad/s ²
Moment of inertia	2.5 x 10 ⁻⁶ kg m ² (typical)
Start-up torque at 20 °C	2 Ncm (typical)
Weight	0.3–0.5 kg
Optional	- incremental signals, RS422 levels K1+, K1-, K2+, K2- with 1024 or 2048 pulses

¹⁾ Configurable parameter

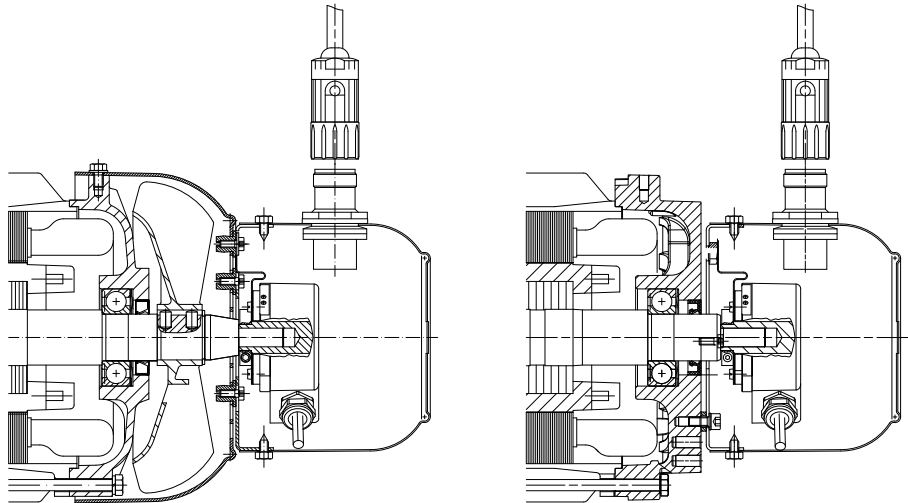
Ambient conditions

Vibration (EN 60068-2-6:1996)	≤ 100 m/s ² , sinusoidal 50–2,000 Hz
Shock (EN 60068-2-27:1995)	≤ 1000 m/s ² , half-cycle sinusoidal 11 ms
EMC	- Interference emission compliant with EN 61000-6-3:2007 - Interference immunity compliant with EN 61000-6-2:2006
Operating temperature	0 °C to +60 °C; optionally -20 °C to +70 °C
Storage temperature	-30 °C to +80 °C, dry
Relative humidity (EN 60068-3-4:2002)	98 %, non condensing
Enclosure rating (EN 60529:1991) ²	IP 65

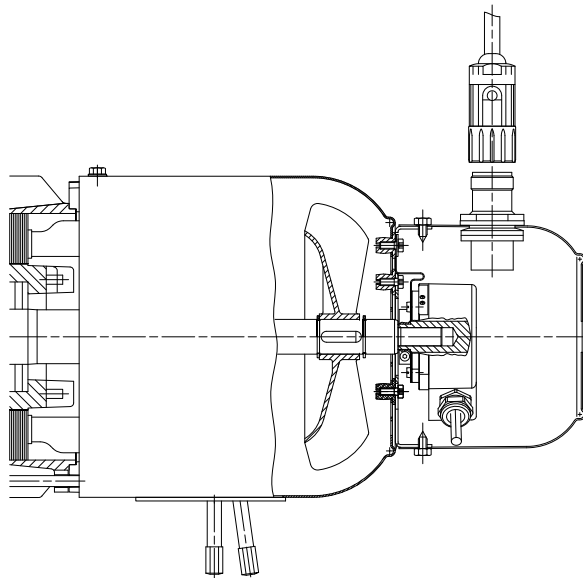
²⁾ With mating connector fitted and/or cable glands fitted and tightened

In addition to the angular position within a rotation, multiturn encoders detect multiple rotations. An internal reduction gear mechanism connected to the motor shaft is used to detect the number of turns. Consequently, the value measured by a multiturn encoder consists of the current angular position and the number of turns. As with incremental encoders, the reading is calculated and output via various interface modules, depending on the interface. On request, a large range of motor frames can be fitted with sensor bearings. The output signal from the sensor allows the direction of rotation to be determined, among other things. The number of possible pulse counts depends on the frame size. Please enquire for more information.

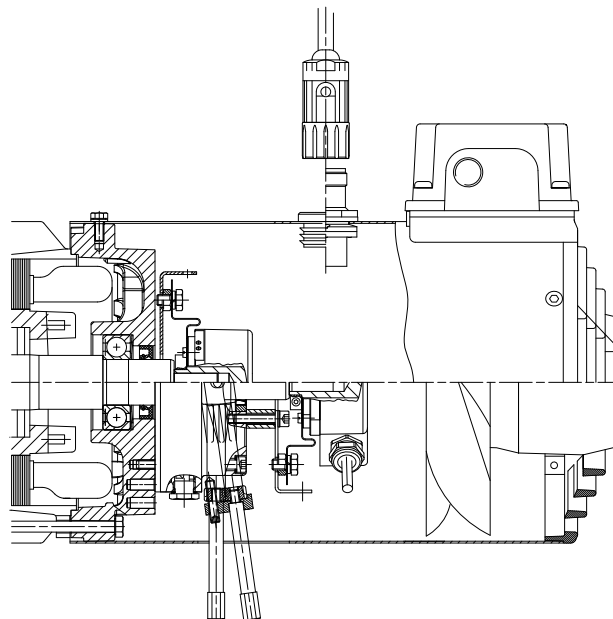
Motor and encoder



Motor, brake and encoder

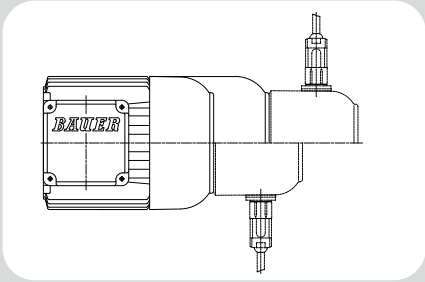


Motor and forced ventilation



Energy Efficient Geared Motors

AC Line Operated / North America



16

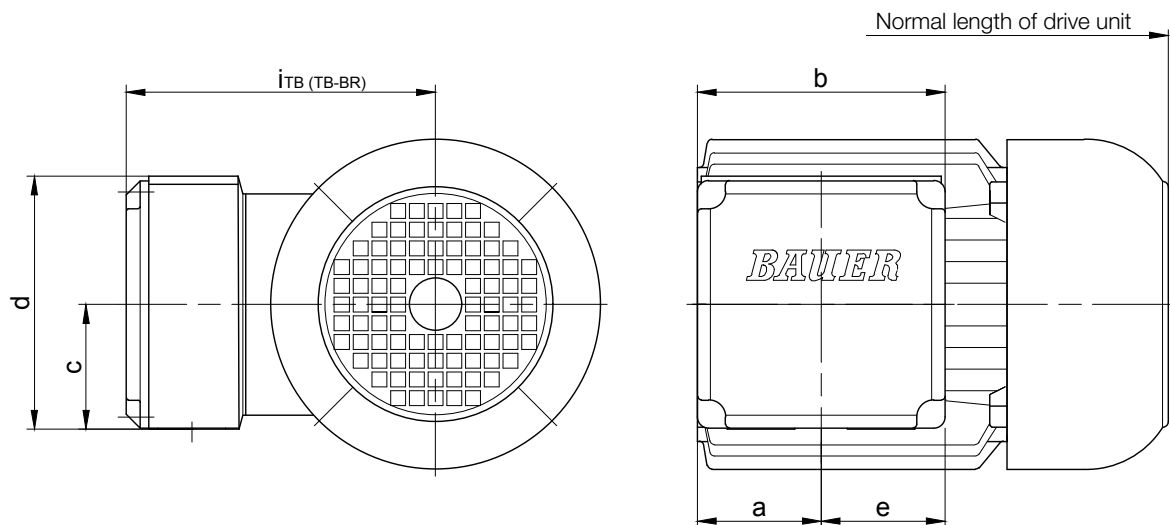
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Energy Efficient Geared Motors

AC Line Operated / North America

Standard terminal box



Motor	Dimensions (inch)						Code	Cable entry	
	a	b	c	d	e	i _{TB(TB-BR)}		Major (M)	Minor (N)
D04..	1.57	3.54	1.87	3.74	1.77	4.41	TB112..	M=NPT=1/2"	N=2xM20x1.5
D..05..	2.17	3.54	1.87	3.74	1.77	4.61	TB112..	M=NPT=1/2"	N=2xM20x1.5
D..06..	1.77	3.54	1.87	3.74	1.77	4.65	TB112..	M=NPT=1/2"	N=2xM20x1.5
D..07..	1.77	3.54	1.87	3.74	1.77	4.65	TB112..	M=NPT=1/2"	N=2xM20x1.5
D..08..	1.61	3.54	1.87	3.74	1.77	5.32	TB112..	M=NPT=1/2"	N=2xM20x1.5
D..09..	2.44	5.20	2.60	5.32	2.82	6.46	TB212..	M=NPT=3/4"	N=2xM25x1.5
D..11..	2.44	5.20	2.60	5.32	2.82	7.13	TB212..	M=NPT=3/4"	N=2xM25x1.5
D..13..	3.07	6.14	3.07	6.22	3.29	8.50	TB312..	M=NPT=1"	N=2xM25x1.5
D..16..	2.91	6.14	3.07	6.22	3.29	9.53	TB312..	M=NPT=1"	N=2xM25x1.5
D..18..	3.70	7.87	3.94	7.91	4.15	11.30	TB412..	M=NPT=1 1/2"	N=2xM25x1.5

Motor with Brake	Dimensions (inch)						Code	Cable entry	
	a	b	c	d	e	i		Major (M)	Minor (N)
D04..-D..08..	1.57	3.54	1.87	3.74	2.68	5.18	TBR112..	M=NPT=1/2"	N=2xM20x1.5
from D..09..	see above								

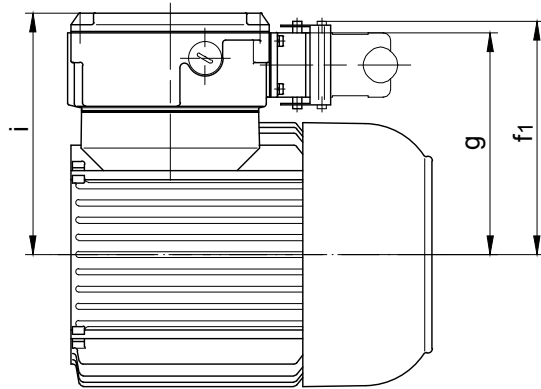
The actual gearbox design can vary from the geometry shown.

Motor-mounted components

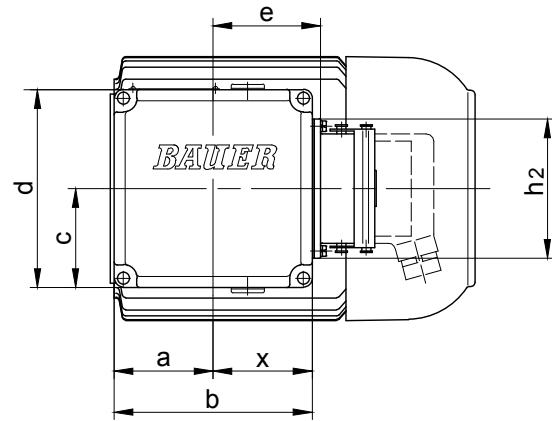
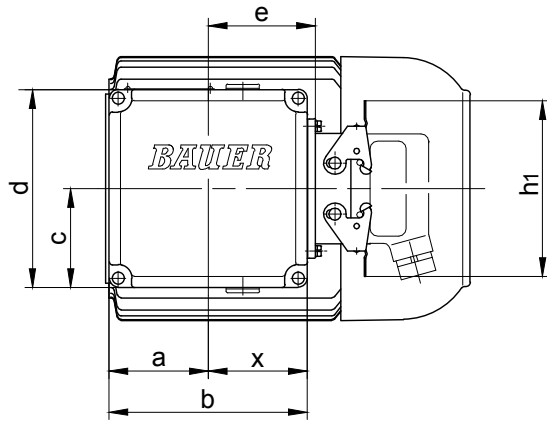
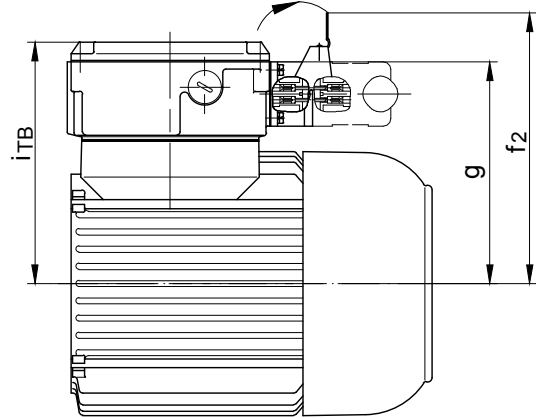
Dimensional Drawings Imperial

Plug-connector terminal box

Standard design (two brackets)



Optional for DESINA (one bracket)



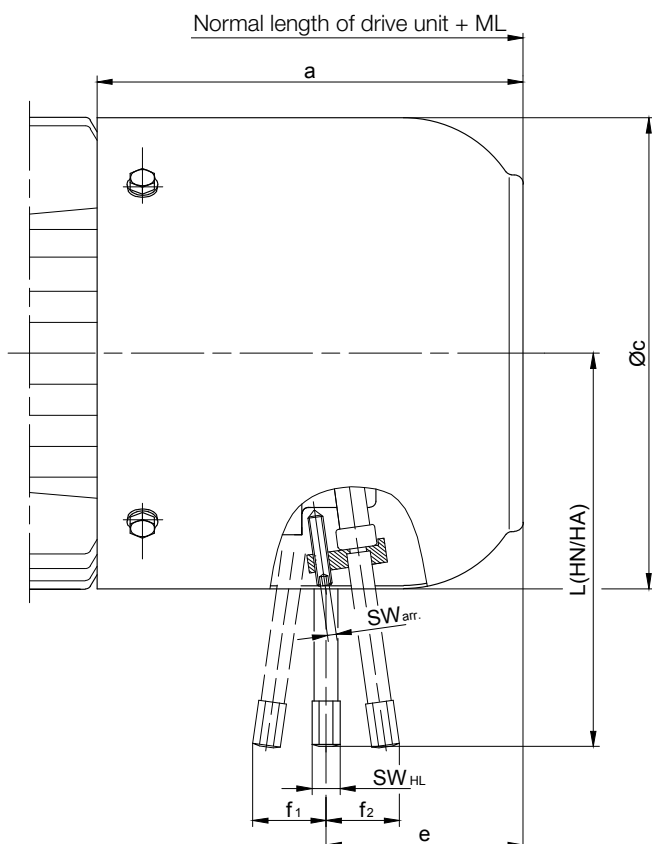
Fan cover geometry for D..16 and D..18, see dimensional drawing: terminal box as standard version

Motor	Size Terminal box	a	b	c	d	e	f ₁	f ₂	g	h ₁	h ₂	i _{TB}	x
D04..	TBS1	1.18	3.54	2.07	4.17	1.93	4.67	5.79	4.37	4.61	3.66	4.90	1.81
D..05..	TBS1	2.24	3.54	2.07	4.17	1.93	4.86	5.98	4.57	4.61	3.66	5.10	1.81
D..06..	TBS1	1.77	3.54	2.07	4.17	1.93	4.94	6.06	4.65	4.61	3.66	5.18	1.81
D..07..	TBS1	1.77	3.54	2.07	4.17	1.93	4.94	6.06	4.65	4.61	3.66	5.18	1.81
D..08..	TBS1	1.77	3.54	2.07	4.17	1.93	5.65	6.77	5.35	4.61	3.66	5.89	1.81
D..09..	TBS2	2.44	5.20	2.60	5.32	2.82	6.24	7.36	6.22	4.61	3.66	6.46	2.70
D..11..	TBS2	2.44	5.20	2.60	5.32	2.82	6.91	7.52	6.54	4.61	3.66	7.13	2.70
D..13..	TBS3	3.07	6.14	3.07	6.22	3.29	7.83	8.96	7.54	4.61	3.66	8.50	3.13
D..16..	TBS3	2.91	6.14	3.07	6.22	3.29	8.86	9.98	8.86	4.61	3.66	9.53	3.13
D..18..	TBS4	3.70	7.87	3.94	7.91	4.15	10.12	11.77	10.12	4.61	3.66	11.30	3.96
D..20L	TBS4	3.70	7.87	3.94	7.91	4.15	10.79	11.77	10.49	4.61	3.66	11.95	3.96
D..22S	TBS4	3.70	7.87	3.94	7.91	4.15	10.79	11.77	10.49	4.61	3.66	11.95	3.96
D..22M													

Dimensions in inch

The actual gearbox design can vary from the geometry shown.

Standard brake



Motor	Brake	ML (inch) Additional length with brake	Dimensions (inch)								Add.weight lbs						
			a	Øc	e	f ₁	f ₂	L(HA/HN)	SW _{HL}	SW _{arr.}							
D04.. D..05.. D..06.. D..07..	E003 E003/E004	1.71 1.65	3.82 4.02	4.35 4.84	2.30 2.36 2.30	0.81	0.94	3.78/4.01	0.43	0.43	2.20						
D..08..	ES(X)010	2.60	5.55	6.14	2.68							-	1.14	5.20	0.32	0.10	5.73
D..09..	ES(X)010	3.66	6.81	6.93	3.90							-	1.14	5.20	0.32	0.10	5.95
	ES(X)027				3.58							-	1.40	6.38			9.26
D..11..	ES(X)027	3.86	7.68	8.58	4.06	-	1.40	6.38	0.32	0.10	9.92						
	ES(X)040				3.94	-	1.46	6.77			13.89						
	ES(X)070				3.78	-	1.36	7.48	0.47	0.16	18.74						
D..13..	ES(X)040	4.37	8.86	10.16	4.92	-	1.61	7.95	0.47	0.16	14.33						
	ES(X)070				4.76	-	1.50	8.86			18.74						
	ES(X)125				4.57	-	1.77	8.78			27.56						
D..16..	ES(X)125	5.67	11.42	12.20	5.83	-	1.91	9.61	0.47	0.16	29.76						
	ES(X)200				5.55	-	1.97	10.08			41.89						
	ES(X)300				4.41	-					48.50						
D..18..	ES(X)250	5.91	13.35	13.70	6.02	-	2.30	11.26	0.47	0.16	61.73						
	ZS(X)500				4.84	-			0.75	0.20	66.14						
D..20L	ES(X)250	5.02	15.71	14.29	7.20	1.93	-	11.26	0.75	0.20	60.63						
	ZS(X)500				6.00			12.32									
	ZS(X)800				5.87			12.32									
D..22S	ES(X)250	5.02	15.71	14.29	7.20	1.93	-	11.26	0.75	0.20	61.07						
	ZS(X)500				6.00			12.32									
	ZS(X)800				5.87			12.32									
D..22M	ES(X)250	5.02	15.71	14.29	7.20	1.93	-	11.26	0.75	0.20	135.58						
	ZS(X)500				6.00			12.32									
	ZS(X)800				5.87			12.32									

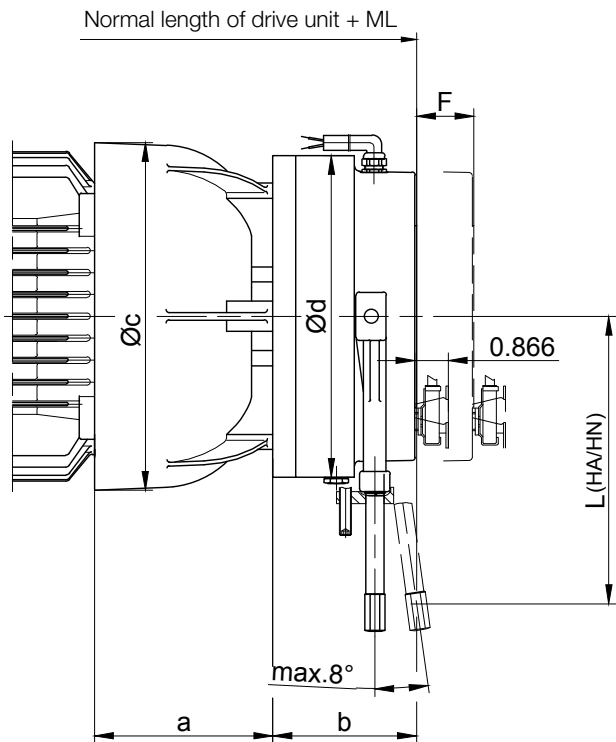
HA = manual release lockable
HN = manual release not lockable

The actual gearbox design can vary from the geometry shown.

Motor-mounted components

Dimensional Drawings Imperial

Heavy duty brake



Motor	Brake	Additional length with brake (inch)		Dimensions (inch)					Additional weight lbs
		ML Standard	ML Microswitch	a	b	c	$\varnothing d$	L (HA/HN)	
D..08..	EH(X)027	3.110	3.976	3.287	2.618	6.535	5.709	6.378	12.13
D..09..	EH(X)040	3.543	4.409	4.016	2.874	7.520	6.614	6.772	18.30
D..11..	EH(X)125	4.488	5.354	4.724	3.740	9.094	8.386	8.209	42.99
D..13..	EH(X)200	5.039	5.906	5.512	4.173	10.807	9.646	8.701	64.59
D..16..	EH(X)400	5.551	6.417	6.102	4.882	12.835	12.756	12.323	123.02
D..18..		5.984	6.850	7.205		14.409			134.48

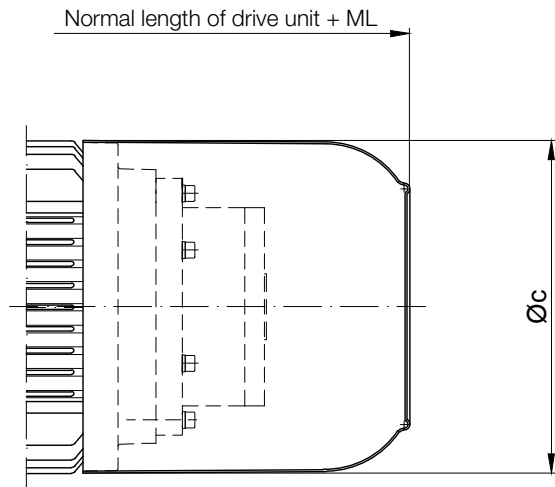
HA = manual release lockable
HN = manual release not lockable

The actual gearbox design can vary from the geometry shown.

Motor-mounted components

Dimensional Drawings Imperial

Motor with backstop

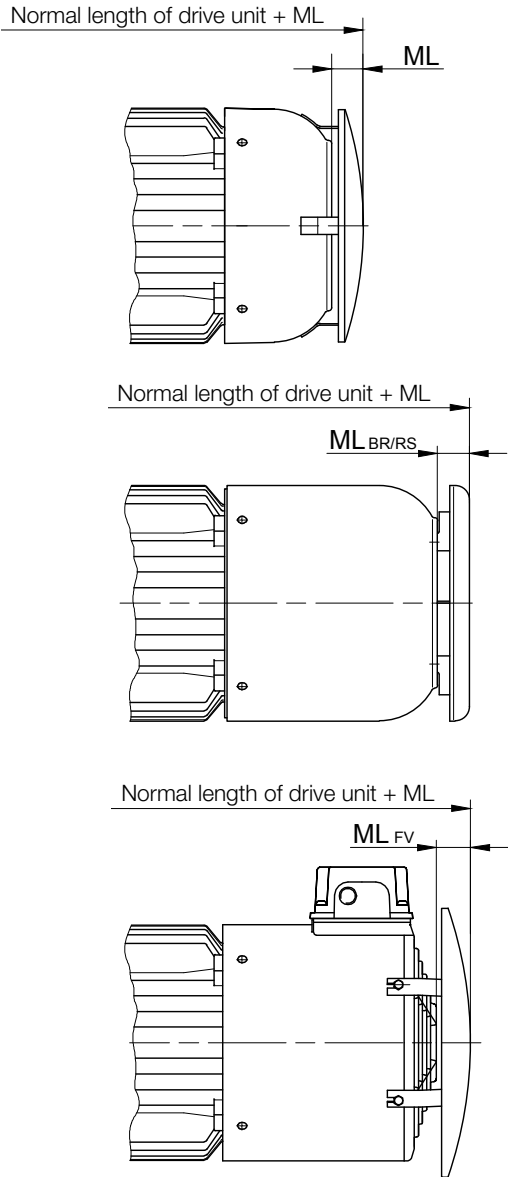


Motor	ML (inch) Additional length with backstop	Dimensions (inch) c	Additional weight lbs
D..08..	2.60	6.14	14.33
D..09..	3.66	7.13	14.33
D..11..	3.86	8.98	17.64
D..13..	4.37	10.16	29.76
D..16..	5.67	12.21	35.27
D..18..	5.91	13.70	37.48
D..20L	-	14.29	20.94
D..22S			
D..22M			

Motor-mounted components

Dimensional Drawings Imperial

Motor with rain cover

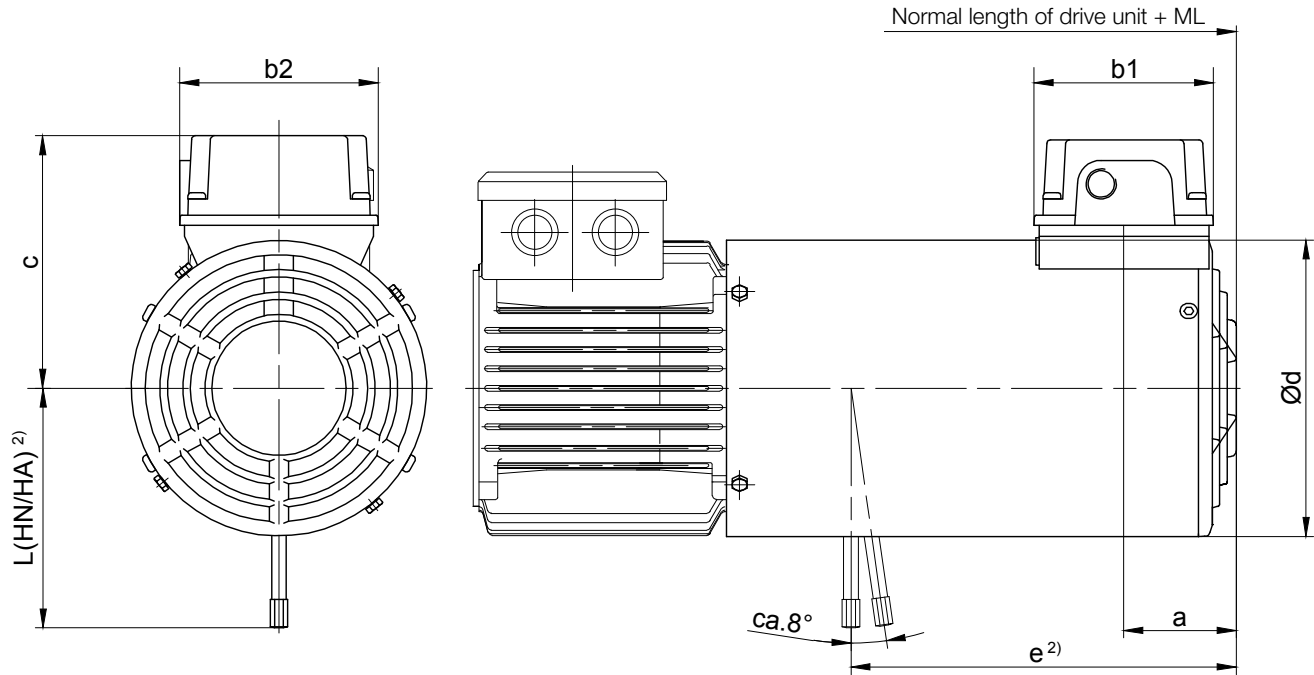


Fan cover geometry for D..16 - D..22, see dimensional drawing: terminal box as standard version

Motor	ML (inch)				Additional weight
	Additional length with attached protective cover				
	ML	ML _{BR}	ML _{RS}	ML _{FV}	lbs
D04..	0.63	-	-	-	0.33
D..05..	0.71	-	-	-	0.33
D..06..	0.71	-	-	-	0.33
D..07..	0.71	-	-	-	0.33
D..08..	0.57	0.96	0.96	1.57	0.44
D..09..	0.87	0.96	0.96	1.18	0.66
D..11..	1.14	1.16	1.16	1.30	0.88
D..13..	1.18	1.16	1.16	0.98	1.32
D..16..	1.20	1.36	1.36	1.26	3.97
D..18..	1.20	1.36	1.36	1.26	12.13
D..20L	1.22	1.22	1.22	1.22	14.11
D..22S	1.22	1.22	1.22	1.22	14.11
D..22M	1.22	1.22	1.22	1.22	14.11

The actual gearbox design can vary from the geometry shown.

Motor with independent fan



Drive Motor	Fan Motor	kW	r/min	400 V A	ML (inch) Additional length with forced cooling fan	Dimensions (inch)					Additional weight ~lbs
						a	b1	b2	c	d	
D..08..	FV D08	0.019	2670	0.029	3.62	2.74	4.21	4.13	5.28	6.18	4.85
D..09..	FV D09	0.046	2820	0.106	3.82	2.74	4.21	4.13	5.63	6.97	5.95
D..11..	FV D11	0.051	2660	0.110	3.82	3.13	4.21	4.13	6.40	8.62	7.05
D..13..	FV D13	0.073	2820	0.169	4.69	3.10	4.21	4.13	6.46	10.16	10.14
D..16*	FV D16	0.154	2760	0.347	5.67	3.10	4.21	4.13	7.28	12.24	14.11
D..18*	FV D18	0.154	2760	0.347	11.93	3.10	4.21	4.13	8.31	13.70	18.52

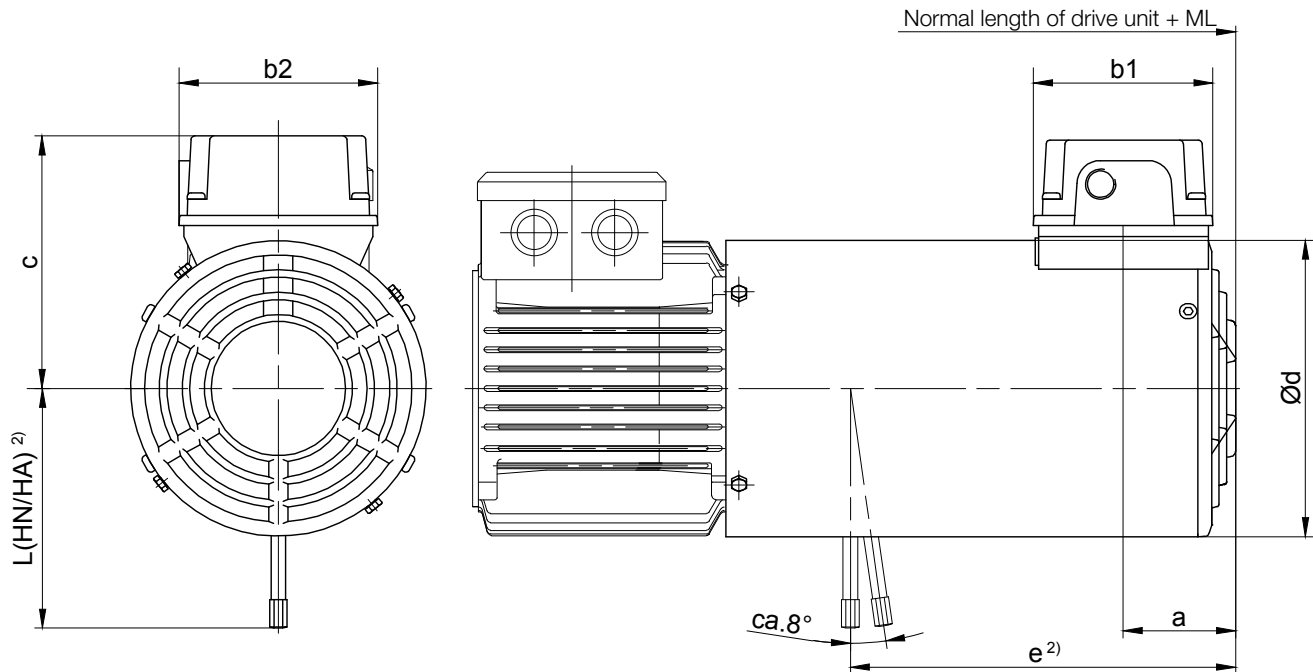
* with bayonet joint

The actual gearbox design can vary from the geometry shown.

Motor-mounted components

Dimensional Drawings Imperial

Motor with standard brake and independent fan



Motor	Brake	ML (inch) ¹⁾ Additional length with brake and forced ventilation	Dimensions (inch)							Additional weight ~lbs
			a	b1	b2	c	Ød	e ²⁾	L(HA/HN) ²⁾	
D..08..	ES(X)010	7.95	2.32	4.21	4.13	5.28	6.18	8.03	5.20	11.02
D..09..	ES(X)010	8.43	2.74	4.21	4.13	5.63	6.97	8.66	5.20	12.13
	ES(X)027							8.35	6.38	16.53
D..11*	ES(X)027	8.70	2.74	4.21	4.13	6.40	8.62	8.90	6.38	17.64
	ES(X)040							8.78	6.77	22.05
	ES(X)070							8.58	7.24	26.46
D..13*	ES(X)040	9.33	3.13	4.21	4.13	6.46	10.16	10.00	7.95	25.35
	ES(X)070							9.84	8.86	29.76
	ES(X)125							9.65	8.78	38.58
D..16*	ES(X)125	11.57	3.10	4.21	4.13	7.28	12.24	11.73	9.61	42.99
	ES(X)200							11.46	10.08	55.11
	ES(X)300							10.32		59.52
D..18*	ES(X)250	11.93	3.10	4.21	4.13	8.31	13.70	12.09	11.26	81.57
	ES(X)500							10.91		84.88

* with bayonet joint

¹⁾The additional length is for normal motor unit without brake.

Other dimensions see the appropriate normal dimensioned sketch.

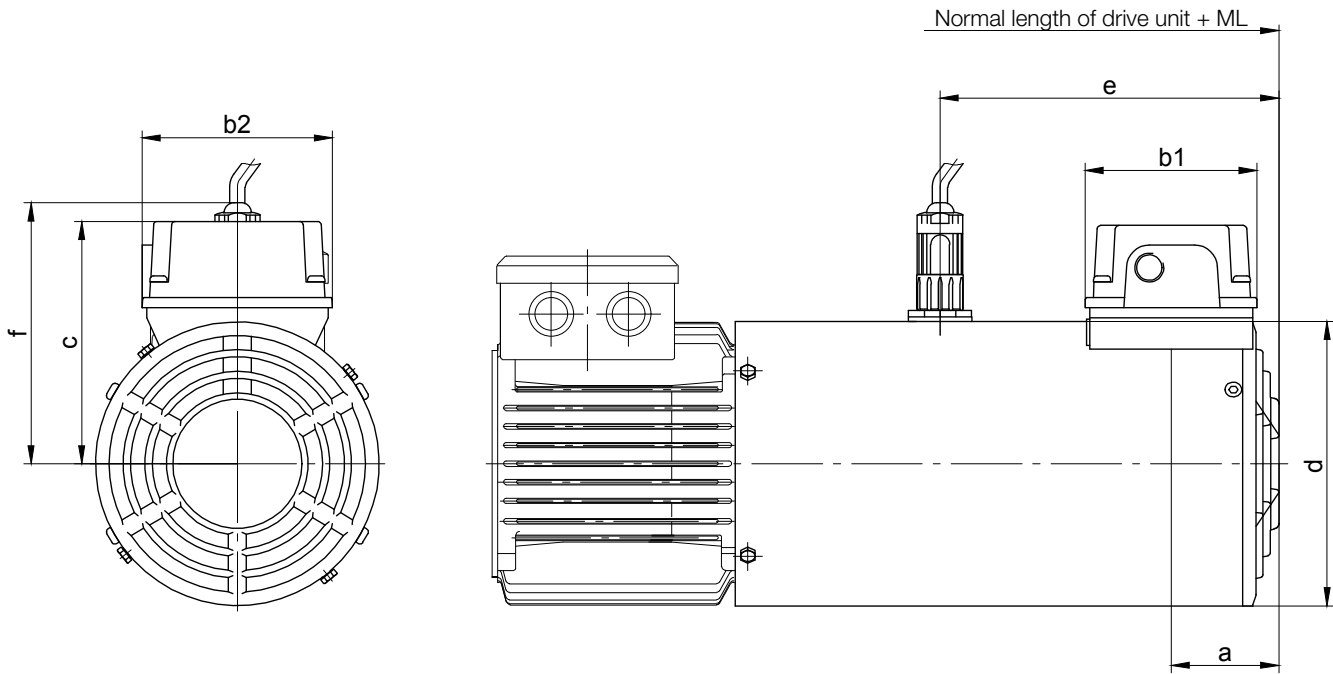
²⁾Brake release on request

HA = manual release lockable

HN = manual release not lockable

The actual gearbox design can vary from the geometry shown.

Motor with encoder with built-on independent fan



Motor	ML (inch) ¹⁾ Additional length with encoder and forced ventilation	Dimensions (inch)							Additional weight ~lbs
		a	b1	b2	c	d	e	f	
D..08..	7.95	2.32	4.21	4.13	5.28	6.18	7.36	5.67	5.73
D..09..	8.43	2.74	4.21	4.13	5.63	6.97	7.56	6.04	7.28
D..11*	8.70	2.74	4.21	4.13	6.40	8.58	7.56	-	8.82
D..13*	9.45	3.13	4.21	4.13	6.46	10.16	8.54	-	12.57
D..16*	11.57	3.10	4.21	4.13	7.28	12.24	9.92	-	17.72
D..18*	11.93	3.10	4.21	4.13	8.31	13.70	10.51	-	24.03

* with bayonet joint

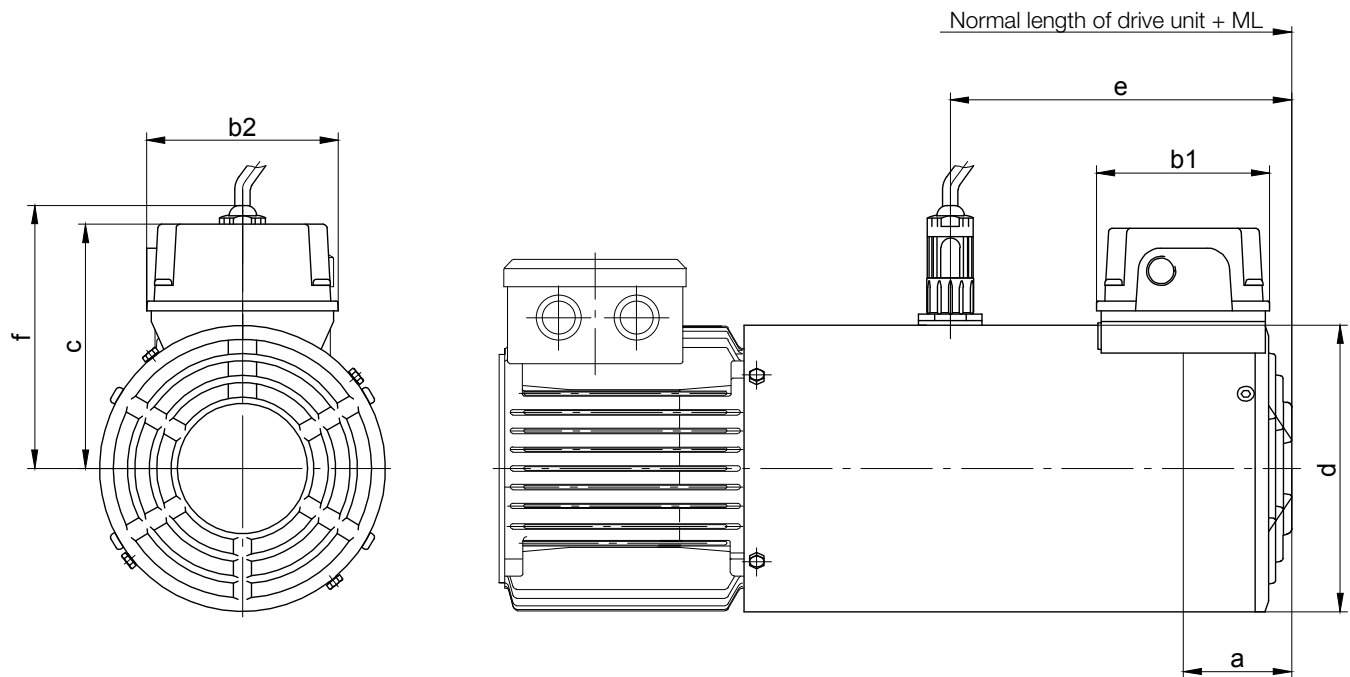
¹⁾ The additional length is for normal motor unit without brake.

Other dimensions see the appropriate normal dimensioned sketch.

Motor-mounted components

Dimensional Drawings Imperial

Motor with standard brake and encoder with built-on independent fan



Motor	Brake	ML (inch) ¹⁾ Additional length with brake, encoder and forced ventilation	Dimensions (inch)									Additional weight ~lbs
			a	b1	b2	c	Ød	e2)	g	h	L(HA/HN) ²⁾	
D..08..	ES(X)010	7.95	2.32	4.21	4.13	5.28	6.18	8.03	5.91	5.91	5.20	6.0
D..09..	ES(X)010	8.43	2.74	4.21	4.13	5.63	6.97	8.66	6.30	6.30	5.20	6.5
	ES(X)027							8.35	6.30		6.38	18.74
D..11*	ES(X)027	8.70	2.74	4.21	4.13	6.40	8.62	8.90	6.10	6.89	6.38	19.84
	ES(X)040							8.78	6.10		6.77	25.35
	ES(X)070							8.58	6.10		7.24	29.76
								D..13*	ES(X)040		9.45	3.13
ES(X)070	9.84	6.89	8.86	33.07								
ES(X)125	9.65	6.89	8.78	41.89								
D..16*	ES(X)125	11.57	3.10	4.21	4.13	7.28	12.24	11.73	7.68	8.70	9.61	46.30
	ES(X)200							11.46	7.68		10.08	59.52
	ES(X)300							10.32	7.68			63.93
D..18*	ES(X)250	11.93	3.10	4.21	4.13	8.31	13.70	8.15	8.35	9.43	11.26	85.98
	ES(X)500							10.91	8.35			89.29

* with bayonet joint

¹⁾ The additional length is for normal motor unit without brake.

Other dimensions see the appropriate normal dimensioned sketch.

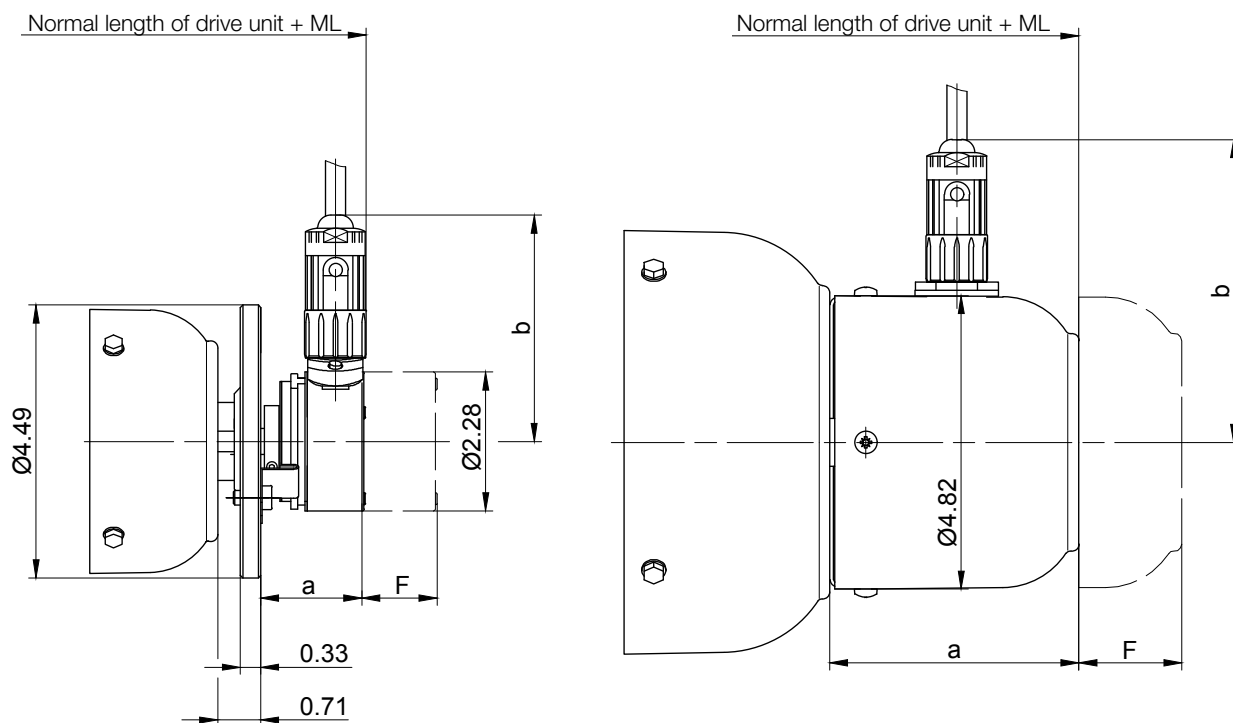
²⁾ Brake release on request

HA = manual release lockable

HN = manual release not lockable

The actual gearbox design can vary from the geometry shown.

Motor with encoder



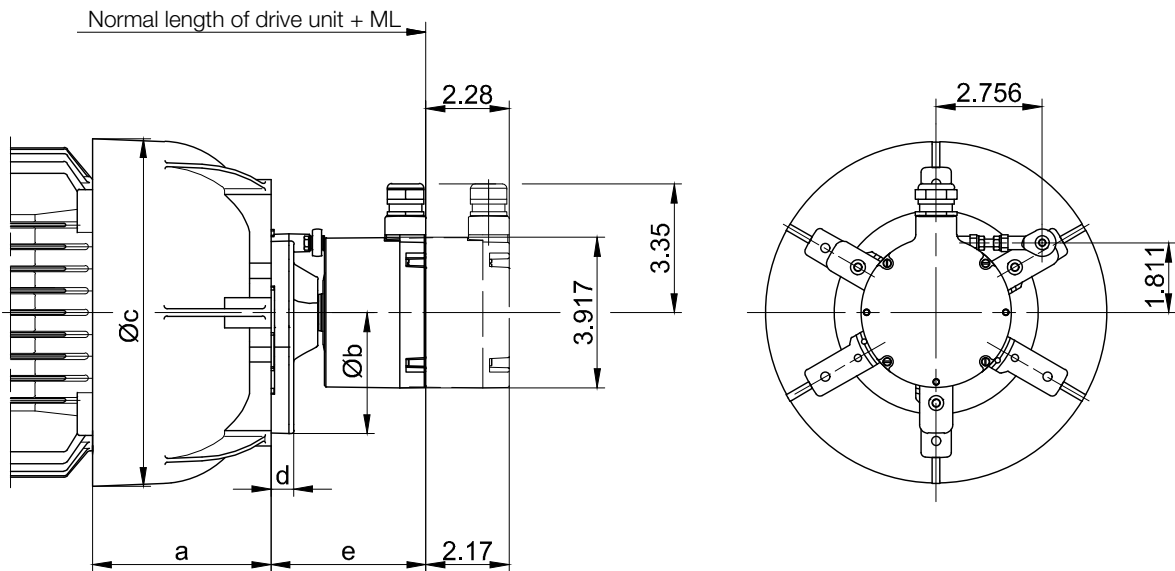
Fan cover geometry for D..16 - D..22, see dimensional drawing: terminal box as standard version

Motor	ML(inch) Additional length with encoder	Dimensions (inch)				Additional weight	Free space for removing encoder „F“			
		Incremental encoder		Absolute encoder			Incremental encoder	Absolute encoder		
		a	c	a	b					
D04..	2.46	1.71	3.74	2.74	4.31	1.54	1.18	2.17		
D..05..	4.06	3.88	5.00	3.88	5.00	1.98	2.48	3.46		
D..06..										
D..07..										
D..08..	4.23	4.23		1.76	1.61	2.60				
D..09..	4.09	4.09			1.69	2.68				
D..11..										
D..13..										
D..16..										
D..18..										
D..20L	4.17	4.17		4.17			2.65			
D..22S										
D..22M										

Motor-mounted components

Dimensional Drawings Imperial

Motor with “heavy duty” encoder



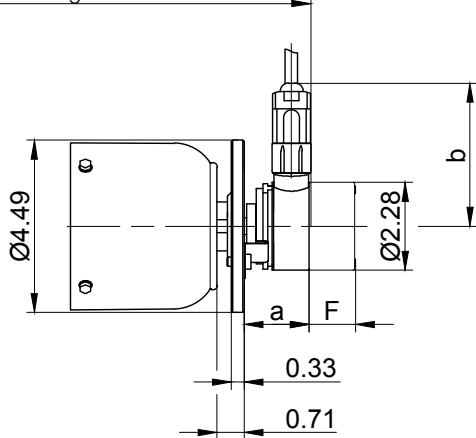
Motor	ML (inch)	Dimensions (inch)					Additional weight lbs
	Additional length with encoder	a	b	c	d	e	
D..08..	4.488	3.287	6.299	6.535	0.591	4.035	4.41
D..09..	4.665	4.016		7.520			
D..11..	4.783	4.724		9.094			
D..13..	4.547	5.512	7.283	10.807	0.669	3.720	18.96
D..16..	4.469	6.102		12.835			
D..18..	4.823	7.205		14.409			

The actual gearbox design can vary from the geometry shown.

Motor with standard brake and encoder

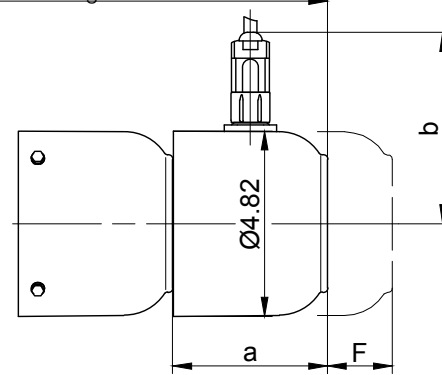
D04

Normal length of drive unit + ML



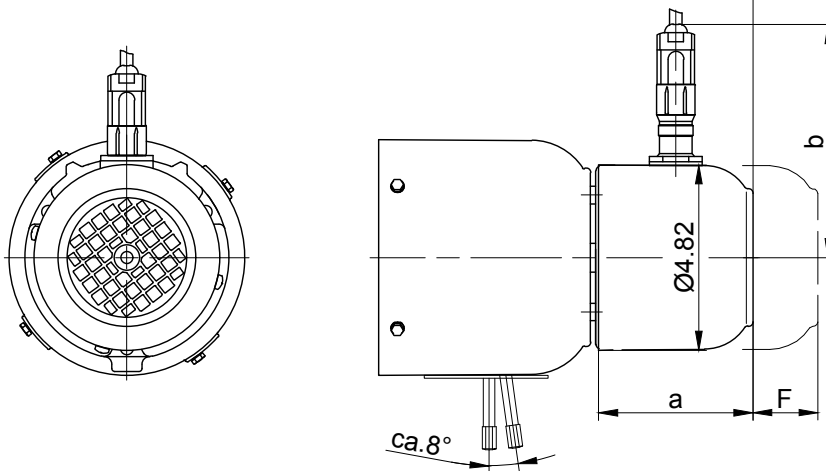
D05-D07

Normal length of drive unit + ML



D..08-D..22

Normal length of drive unit + ML



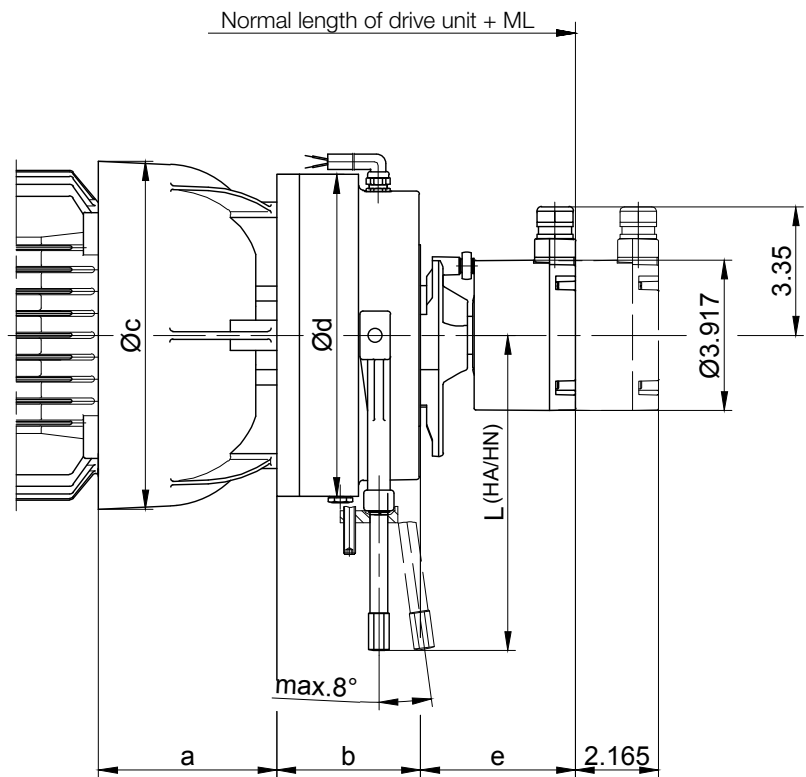
Motor	Brake	ML (inch) Additional length with brake and encoder	Dimensions (inch)				Additional weight lbs	Free space for removing encoder „F“		
			Incremental encoder		Absolute encoder			Incremental encoder	Absolute encoder	
			a	c	a	b				
D04..	E003	4.15	1.71	3.74	2.74	4.31	1.54	1.18	2.17	
D..05..		5.71	4.02	5.00	4.02	5.00	1.98	2.48	3.46	
D..06..										
D..07..	E003/E004									
D..08..	ES(X).. ES(X).. ES(X).. ES(X).. ES(X)..ZS(X) ES(X)..ZS(X) ES(X)..ZS(X) ES(X)..ZS(X)	6.83					1.76	1.93	2.91	
D..09..	7.76									
D..11..	7.87									
D..13..	8.35									
D..16..	9.76	4.10								
D..18..	9.74									
D..20L	ES(X)..ZS(X)	9.76	4.17							2.65
D..22S	ES(X)..ZS(X)									
D..22M	ES(X)..ZS(X)									

The actual gearbox design can vary from the geometry shown.

Motor-mounted components

Dimensional Drawings Imperial

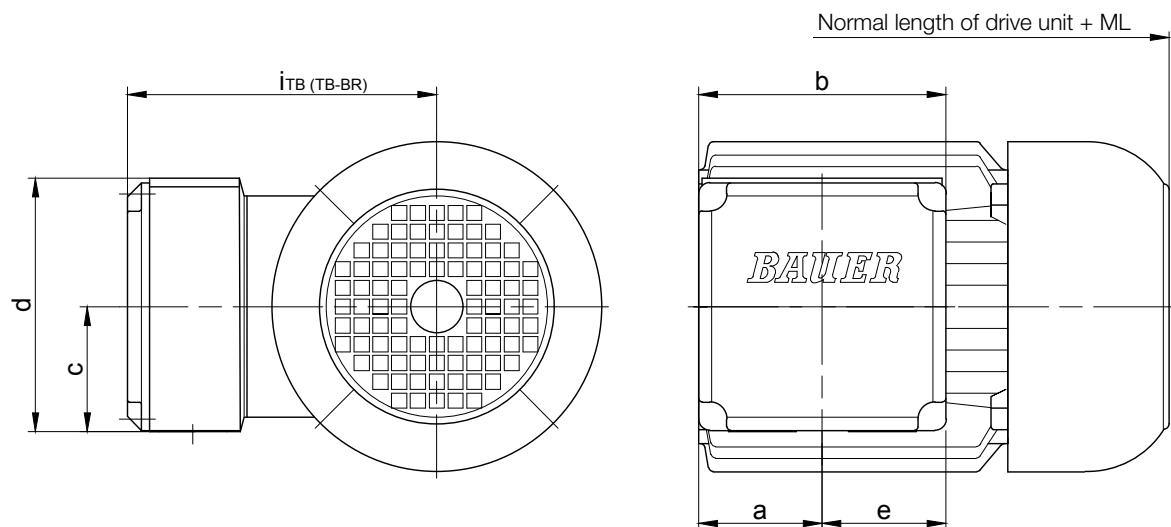
Motor with “heavy duty” brake and encoder



Motor	Brake	ML (inch) Additional length with brake and encoder	Dimensions (inch)						Additional weight lbs
			a	b	c	Ød	e	L (HA/HN)	
D..08..	EH(X)027	7.106	3.287	2.618	6.535	5.709	4.035	6.378	15.65
D..09..	EH(X)040	7.539	4.016	2.874	7.520	6.614		6.772	22.05
D..11..	EH(X)125	8.524	4.724	3.740	9.094	8.386		8.209	47.18
D..13..	EH(X)200	10.197	5.512	4.173	10.807	9.646	3.720	8.701	70.55
D..16..	EH(X)400	9.567	6.102	4.882	12.835	12.756		12.323	127.87
D..18..		10.000	7.205		14.409				134.48
HA = manual release lockable HN = manual release not lockable									

The actual gearbox design can vary from the geometry shown.

Standard terminal box



Motor	Dimensions (mm)						Code	Cable entry		max.wrench size for cable entry gland
	a	b	c	d	e	i _{TB(TB-BR)}		Major (M)	Minor (N)	
D04..	40	90	47.5	95	45	112	TB112..	M=NPT=1/2"	N=2xM20x1.5	24 mm
D..05..	55	90	47.5	95	45	117	TB112..	M=NPT=1/2"	N=2xM20x1.5	29 mm
D..06..	45	90	47.5	95	45	118	TB112..	M=NPT=1/2"	N=2xM20x1.5	29 mm
D..07..	45	90	47.5	95	45	118	TB112..	M=NPT=1/2"	N=2xM20x1.5	29 mm
D..08..	41	90	47.5	95	45	135	TB112..	M=NPT=1/2"	N=2xM20x1.5	29 mm
D..09..	62	132	66	135	71.5	164	TB212..	M=NPT=3/4"	N=2xM25x1.5	-
D..11..	62	132	66	135	71.5	181	TB212..	M=NPT=3/4"	N=2xM25x1.5	-
D..13..	78	156	78	158	83.5	216	TB312..	M=NPT=1"	N=2xM25x1.5	-
D..16..	74	156	78	158	83.5	242	TB312..	M=NPT=1"	N=2xM25x1.5	-
D..18..	94	200	100	201	105.5	287	TB412..	M=NPT=1 1/2"	N=2xM25x1.5	-

Motor with Brake	Dimensions (mm)						Code	Cable entry		max.wrench size for cable entry gland
	a	b	c	d	e	i		Major (M)	Minor (N)	
D04..-D..08..	40	90	47.5	95	68	131.5	TBR122	M=2xM20x1.5	-	24 mm
from D..09..	see above									

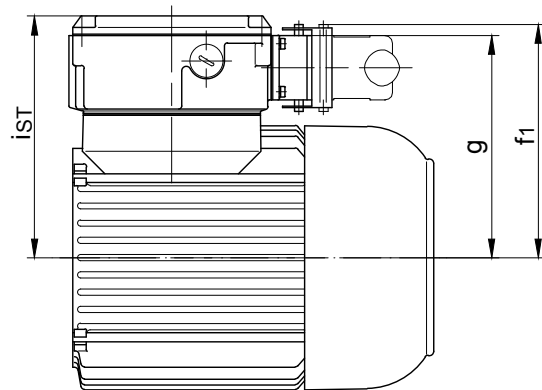
The actual gearbox design can vary from the geometry shown.

Motor-mounted components

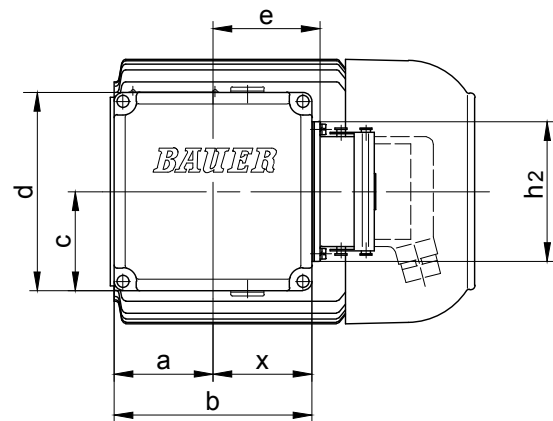
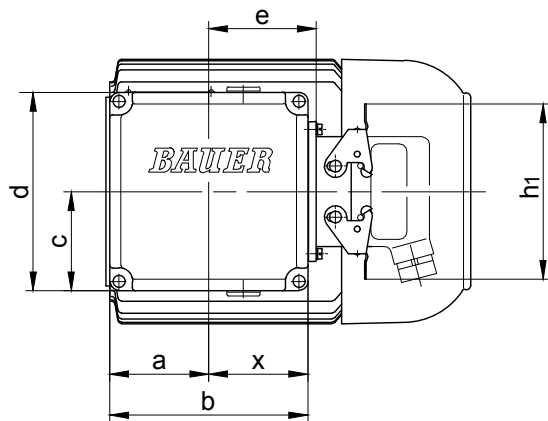
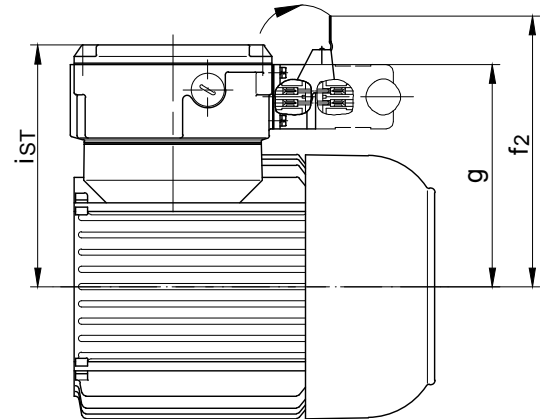
Dimensional Drawings Metric

Plug-connector terminal box

Standard design (two brackets)



Optional for DESINA (one bracket)



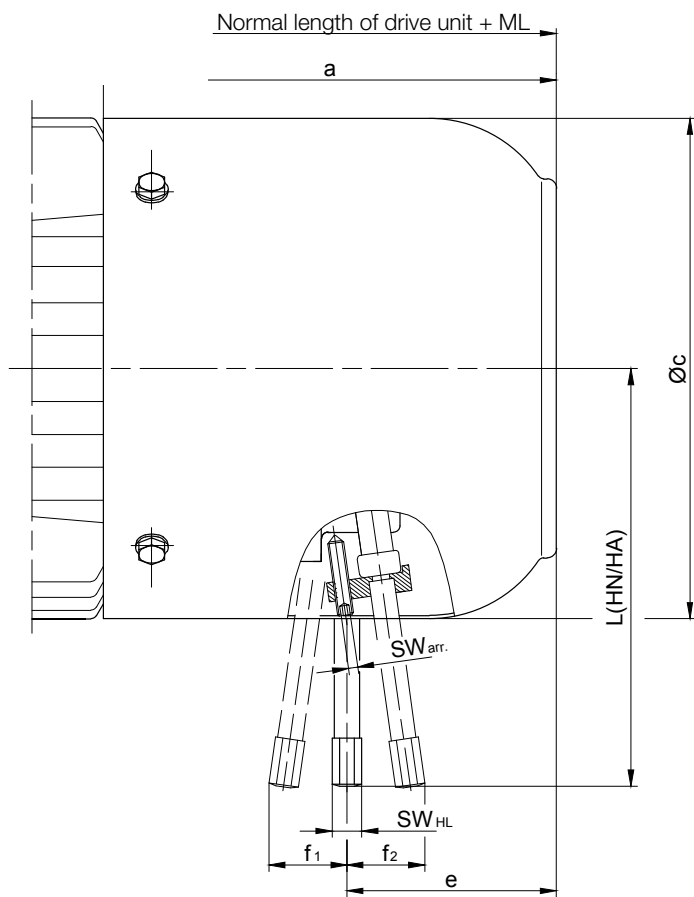
Fan cover geometry for D..16 - D..22, see dimensional drawing: terminal box as standard version

Motor	Size Terminal box	a	b	c	d	e	f ₁	f ₂	g	h ₁	h ₂	i _{ST}	x
D04..	TBS1	30	90	52.5	106	49	118.5	147	111	117	93	124.5	46
D..05	TBS1	57	90	52.5	106	49	123.5	152	116	117	93	129.5	46
D..06	TBS1	45	90	52.5	106	49	125.5	154	118	117	93	131.5	46
D..07	TBS1	45	90	52.5	106	49	125.5	154	118	117	93	131.5	46
D..08	TBS1	45	90	52.5	106	49	143.5	172	136	117	93	149.5	46
D..09	TBS2	62	132	66	135	71.5	158.5	187	158	117	93	164	68.5
D..11	TBS2	62	132	66	135	71.5	175.5	191	166	117	93	181	68.5
D..13	TBS3	78	156	78	158	83.5	199	227.5	191.5	117	93	216	79.5
D..16	TBS3	74	156	78	158	83.5	225	253.5	225	117	93	242	79.5
D..18	TBS4	94	200	100	201	105.5	257	299	257	117	93	287	100.5
D..20L	TBS4	94	200	100	201	105.5	274	299	266.5	117	93	303.5	100.5
D..22S	TBS4	94	200	100	201	105.5	274	299	266.5	117	93	303.5	100.5
D..22M													

Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown.

Standard brake



Motor	Brake	ML (mm) Additional length with brake	a	Øc	e	Dimensions (mm)					Additional weight
						f ₁	f ₂	L(HA/HN)	SW _{IHL}	SW _{arr.}	kg
D04..	E003	43.5	97	110.5	58.5	20.5	24	96/102	11	11	1.0
D..05..		42	102	123	60						
D..06..					58.5						
D..07..											
D..08..	ES(X)010	66	141	156	68	-	29	132	8	2.5	2.6
D..09..	ES(X)010	93	173	176	99	-	29	132	8	2.5	2.7
	ES(X)027				91	-	35.5	162			4.2
D..11..	ES(X)027	98	195	218	103	-	35.5	162	8	2.5	4.5
	ES(X)040				100	-	37	172			6.3
	ES(X)070				96	-	34.5	190	12	4	8.5
	D..13..				ES(X)040	111	225	258	125	-	41
ES(X)070		121	-	38	225				8.5		
ES(X)125		116	-	45	223				12.5		
D..16..	ES(X)125	144	290	310	148	-	48.5	244	12	4	13.5
	ES(X)200				141	-	50	256			19
	ES(X)300				112	-					22
D..18..	ES(X)250	150	339	348	153	-	58.5	286	12	4	28
	ZS(X)500				123	-			19	5	30
D..20L	ES(X)250	127.5	399	363	183	49	-	286	19	5	27.5
	ZS(X)500				152.5			313			
	ZS(X)800				149						
D..22S	ES(X)250	127.5	399	363	183	49	-	286	19	5	27.7
	ZS(X)500				152.5			313			
	ZS(X)800				149						
D..22M	ES(X)250	127.5	399	363	183	49	-	286	19	5	61.5
	ZS(X)500				152.5			313			
	ZS(X)800				149						

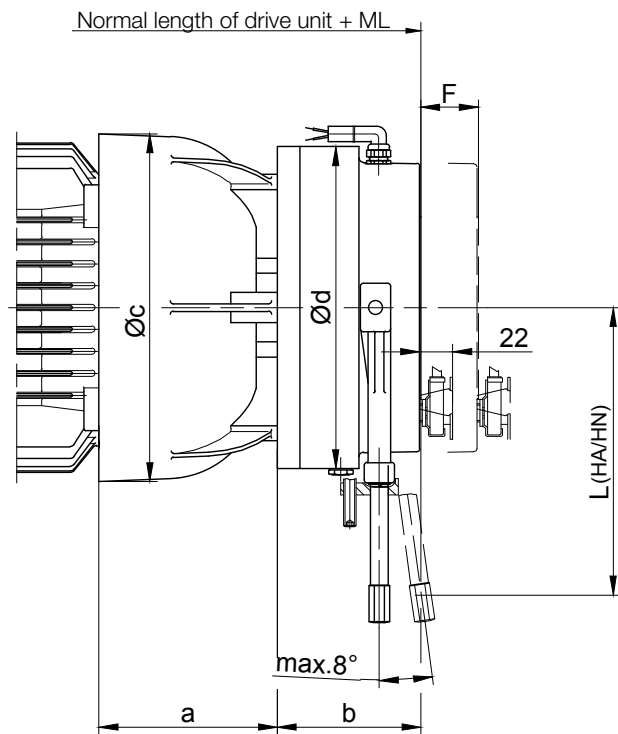
HA = manual release lockable
HN = manual release not lockable

The actual gearbox design can vary from the geometry shown.

Motor-mounted components

Dimensional Drawings Metric

Heavy duty brake

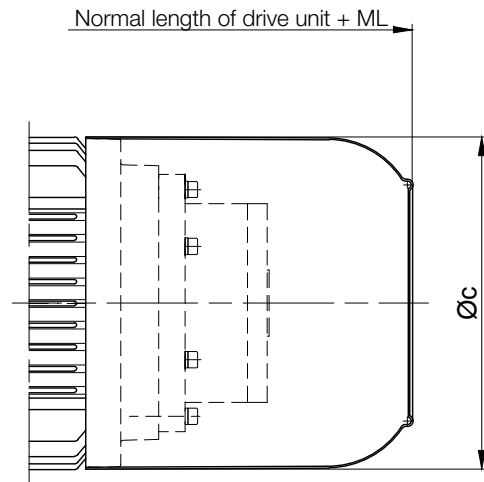


Motor	Brake	Additional length with brake (mm)		Dimensions (mm)					Additional weight kg
		ML Standard	ML Microswitch	a	b	c	Ød	L (HA/HN)	
D..08..	EH(X)027	79	101	83.5	66.5	166	145	162	5.5
D..09..	EH(X)040	90	112	102	73	191	168	172	8.3
D..11..	EH(X)125	114	136	120	95	231	213	208.5	19.5
D..13..	EH(X)200	128	150	140	106	274.5	245	221	29.3
D..16..	EH(X)400	141	163	155	124	326	324	313	55.8
D..18..		152	174	183		366			61

HA = manual release lockable

HN = manual release not lockable

Motor with backstop

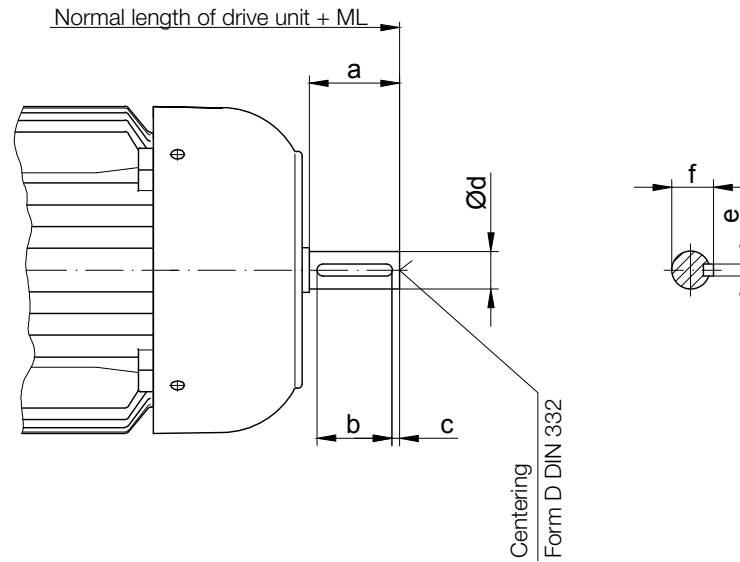


Motor	ML (mm) Additional length with backstop	Dimensions (mm) c	Additional weight kg
D..08..	66	156	6.5
D..09..	93	181	6.5
D..11..	98	228	8
D..13..	111	258	13.5
D..16..	144	310	16
D..18..	150	348	17
D..20L	-	363	9.5
D..22S			
D..22M			

Motor-mounted components

Dimensional Drawings Metric

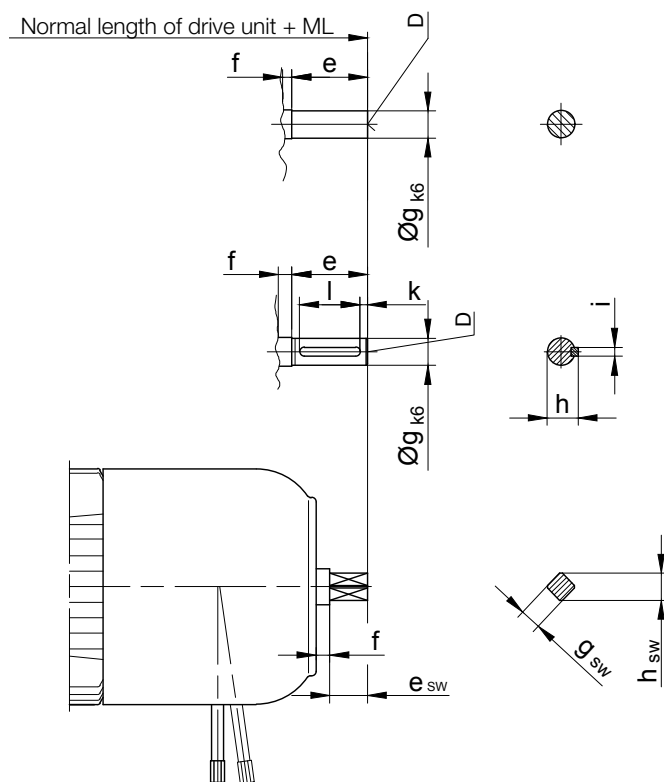
Second shaft extension



Motor	ML (mm) Additional length with second shaft end	Dimensions (mm)						Centering DIN 332
		a	b	c	d	e	f	
D04..	20	15	-	-	8 _{g6}	-	-	-
D..05..	25	20	-	-	10 _{k6}	-	-	-
D..06..	25	20	-	-	10 _{k6}	-	-	-
D..07..	25.5	20	-	-	10 _{k6}	-	-	-
D..08..	45	40	30	5	16 _{k6}	5	18	D5
D..09..	55	50	40	5	20 _{k6}	6	22.5	D5
D..11..	65	60	50	5	25 _{k6}	8	28	D8
D..13..	85	80	60	10	35 _{k6}	10	38	D12
D..16..	115	110	90	10	40 _{k6}	12	43	D16
D..18..	115	110	90	10	45 _{k6}	14	48.5	D16
D..20L	115	110	90	10	45 _{k6}	14	48.5	D16
D..22S	115	110	90	10	45 _{k6}	14	48.5	D16
D..22M								

The actual gearbox design can vary from the geometry shown.

Motor with standard brake and second shaft end



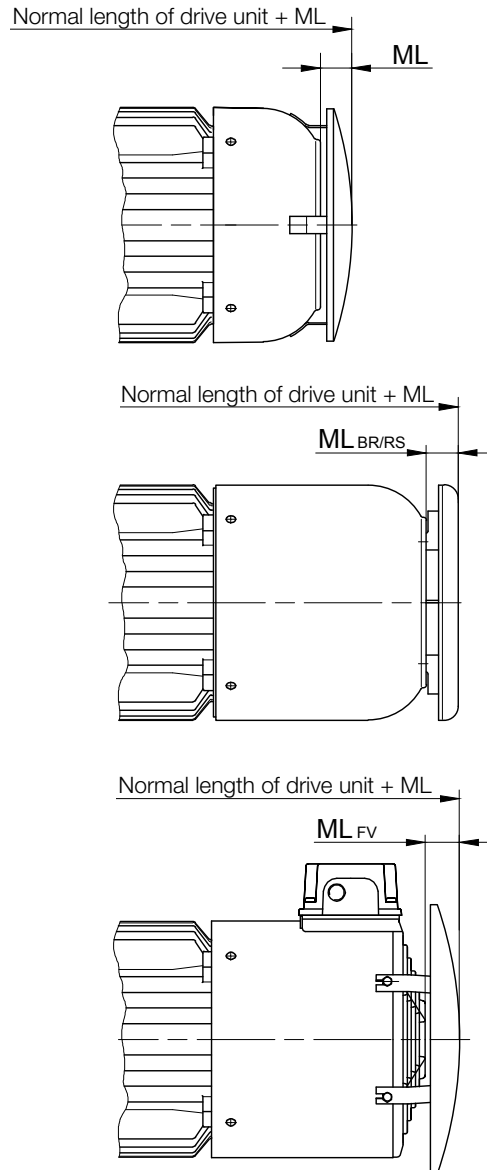
Motor	Brake	Additional length (mm)		Dimensions (mm)										Centering DIN 332	SW
		ML	ML _{SW}	e	e _{SW}	f	g	g _{SW}	h	h _{SW}	i	k	l		
D04..	E003	63	-	15	-	5	8	-	-	-	-	-	-	-	-
D..05..															
D..06..															
D..07..	E003/E004			20			10								
D..08..	ES(X)..	121	96*	50	25*	5	18	SW14*	20.5	18*	6	5	40	D6	D4*
D..09..		98	123*				20*	SW14	22.5*	18	6*	5*	40*	D6*	D4*
D..11..		153.5*	128	50*	25		28*	SW22	31*	28	8*		50*	D10*	D10
D..13..		176*	156	60*	40							4.5			
D..16..	ES(X)../ZS(X)..	208.5*	188.5	60*	40	5	28*	SW22	31*	28	8*	5*	50*	D10*	D10
D..18..		359*	194.5			5									
D..20L	ES(X)../ZS(X)..	127.5*	172.5	60*	40	5	28*	SW22	31*	28	8*	5*	50*	D10*	D10
D..22S															
D..22M															
* special design with manual release															

* special design with manual release

Motor-mounted components

Dimensional Drawings Metric

Motor with rain cover

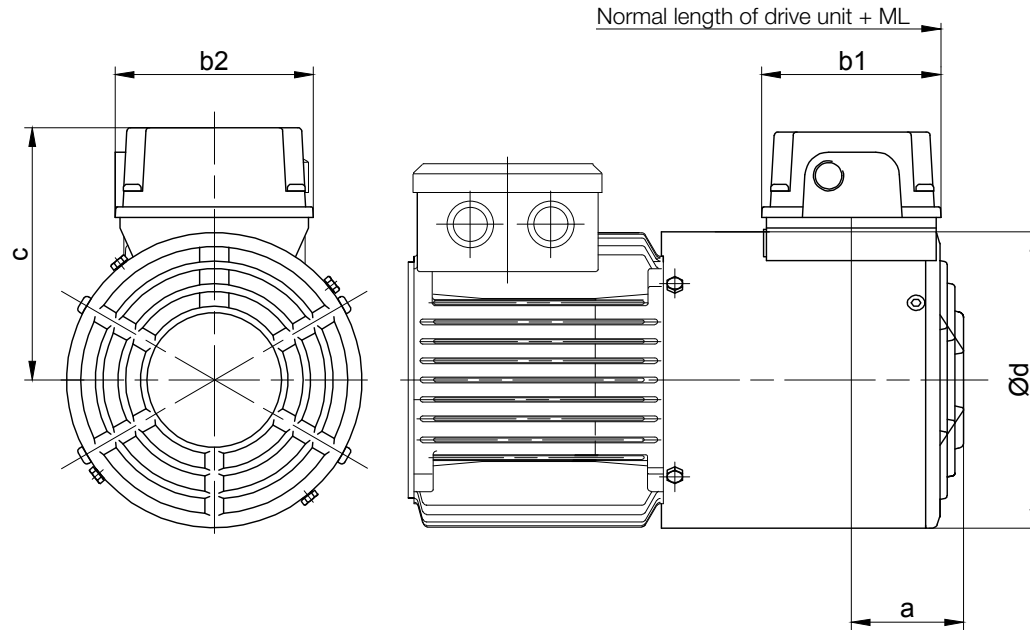


Fan cover geometry for D..16 - D..22, see dimensional drawing: terminal box as standard version

Motor	ML (mm)				Additional weight
	Additional length with attached protective cover				
	ML	ML _{BR}	ML _{RS}	ML _{FV}	kg
D04..	16	-	-	-	0.15
D..05..	18				0.15
D..06..	18	-	-	-	0.15
D..07..	18	-	-	-	0.15
D..08..	14.5	24.5	24.5	40	0.20
D..09..	22	24.5	24.5	30	0.30
D..11..	29	29.5	29.5	33	0.40
D..13..	30	29.5	29.5	25	0.6
D..16..	30.5	34.5	34.5	32	1.8
D..18..	30.5	34.5	34.5	32	5.5
D..20L	31	31	31	31	6.4
D..22S	31	31	31	31	6.4
D..22M	31	31	31	31	6.4

The actual gearbox design can vary from the geometry shown.

Motor with independent fan



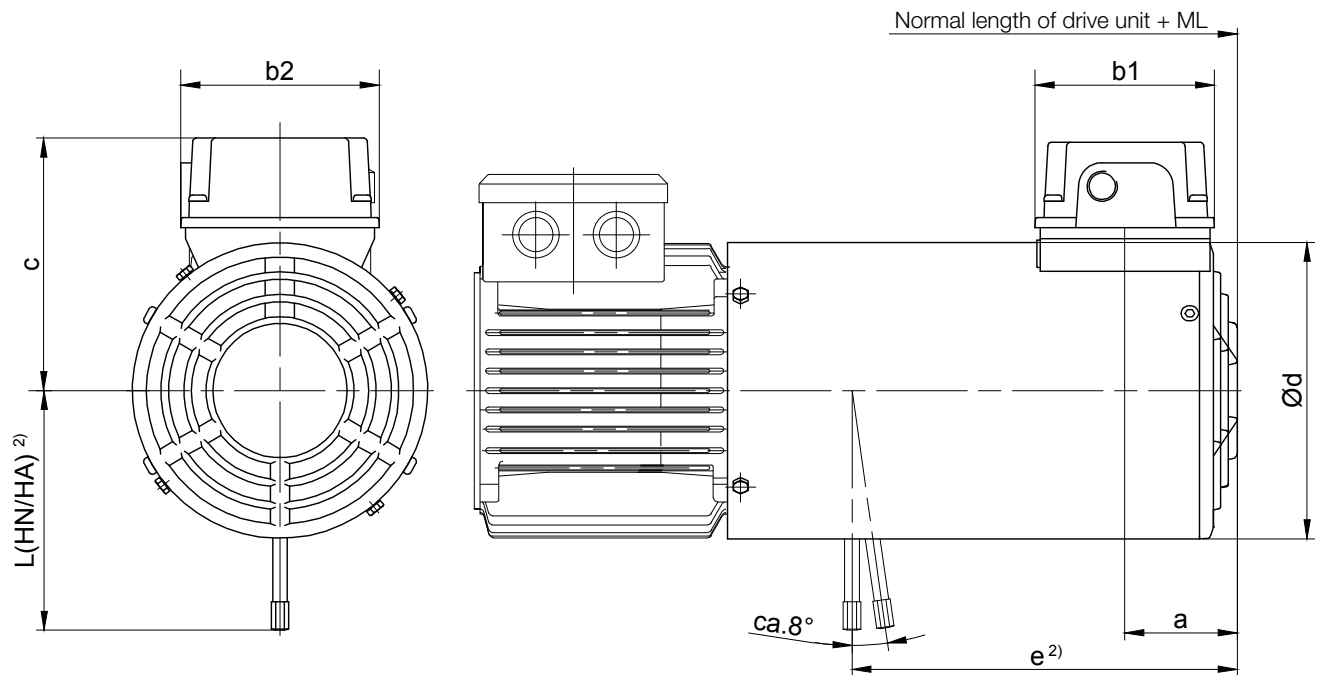
Drive Motor	Fan Motor			400 V A	ML (mm) Additional length with forced cooling fan	Dimensions (mm)					Additional weight ~kg
		kW	r/min			a	b1	b2	c	d	
D..08..	FV D08	0.019	2670	0.029	92	69.5	107	105	134	157	2.2
D..09..	FV D09	0.046	2820	0.106	97	69.5	107	105	143	177	2.7
D..11..	FV D11	0.051	2660	0.110	97	79.5	107	105	162.5	219	3.2
D..13..	FV D13	0.073	2820	0.169	119	78.8	107	105	164	258	4.6
D..16*	FV D16	0.154	2760	0.347	144	78.8	107	105	185	311	6.4
D..18*	FV D18	0.154	2760	0.347	303	78.8	107	105	211	348	8.4

* with bayonet joint

Motor-mounted components

Dimensional Drawings Metric

Motor with standard brake and independent fan



Motor	Bremse	ML (mm) ¹⁾ Mehrlänge mit Bremse und Fremdlüfter	Maße (mm)							Mehrgewicht ~kg
			a	b1	b2	c	Ød	e ²⁾	L(HA/HN) ²⁾	
D..08..	ES(X)010	202	59	107	105	134	157	204	132	5.0
D..09..	ES(X)010	214	69.5	107	105	143	177	220	132	5.5
	ES(X)027							212	162	7.5
D..11*	ES(X)027	221	69.5	107	105	162.5	219	226	162	8.0
	ES(X)040							223	172	10
	ES(X)070							218	184	12
D..13*	ES(X)040	237	79.5	107	105	164	164	254	202	11.5
	ES(X)070							250	225	13.5
	ES(X)125							245	223	17.5
	ES(X)125							298	244	19.5
D..16*	ES(X)200	294	78.8	107	105	185	311	291	256	25
	ES(X)300							262	256	27
	ES(X)250	303	78.8	107	105	211	348	307	286	37
D..18*	ES(X)500							277	286	38.5

* mit Bajonetverschluss

¹⁾Die Mehrlänge bezieht sich auf das normale Motorteil ohne Bremse.

Übrige Maße siehe jeweiliges Standard-Maßbild.

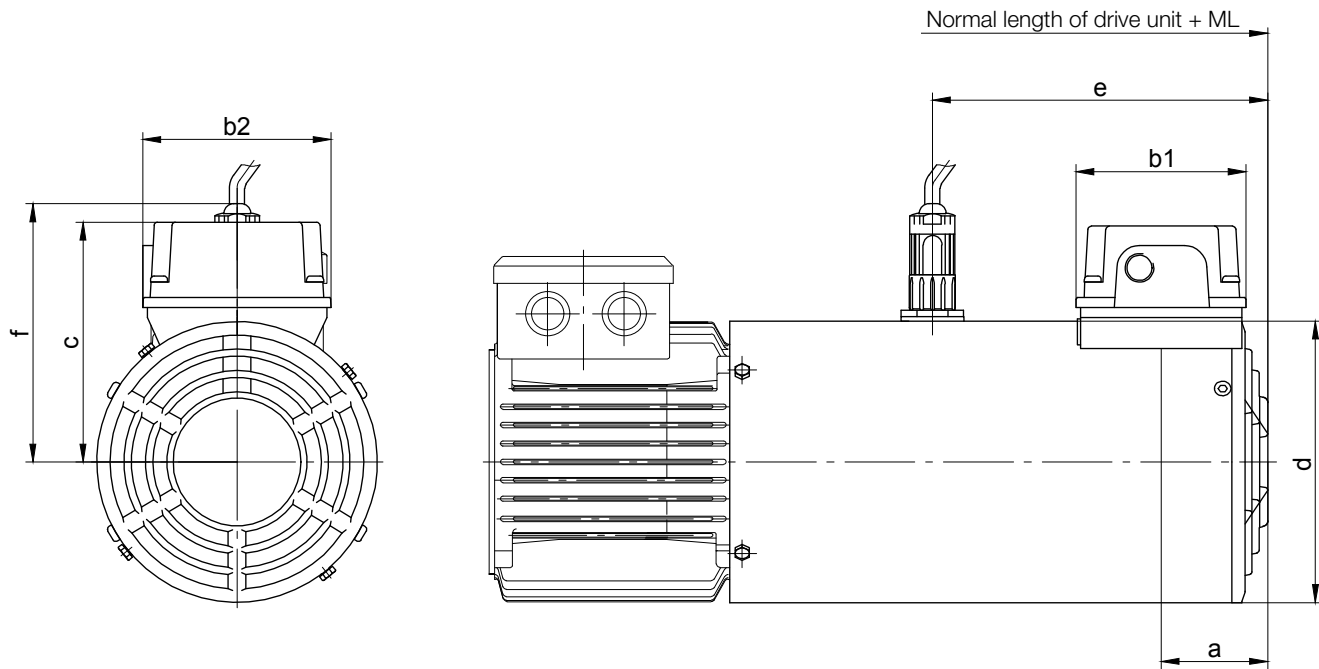
²⁾Handlüftung auf Anfrage

HA = Handlüftung arretierbar

HN = Handlüftung nicht arretierbar

The actual gearbox design can vary from the geometry shown.

Motor with encoder with built-on independent fan



Motor	ML (mm) ¹⁾ Additional length with encoder and forced ventilation	Dimensions (mm)							Additional weight ~kg
		a	b1	b2	c	d	e	f	
D..08..	202	59	107	105	134	157	187	144	2.6
D..09..	214	69.5	107	105	143	177	192	153.5	3.3
D..11*	221	69.5	107	105	162.5	218	192	-	4.0
D..13*	240	79.5	107	105	164	258	217	-	5.7
D..16*	294	78.8	107	105	185	311	252	-	7.9
D..18*	303	78.8	107	105	211	348	267	-	10.9

* with bayonet joint

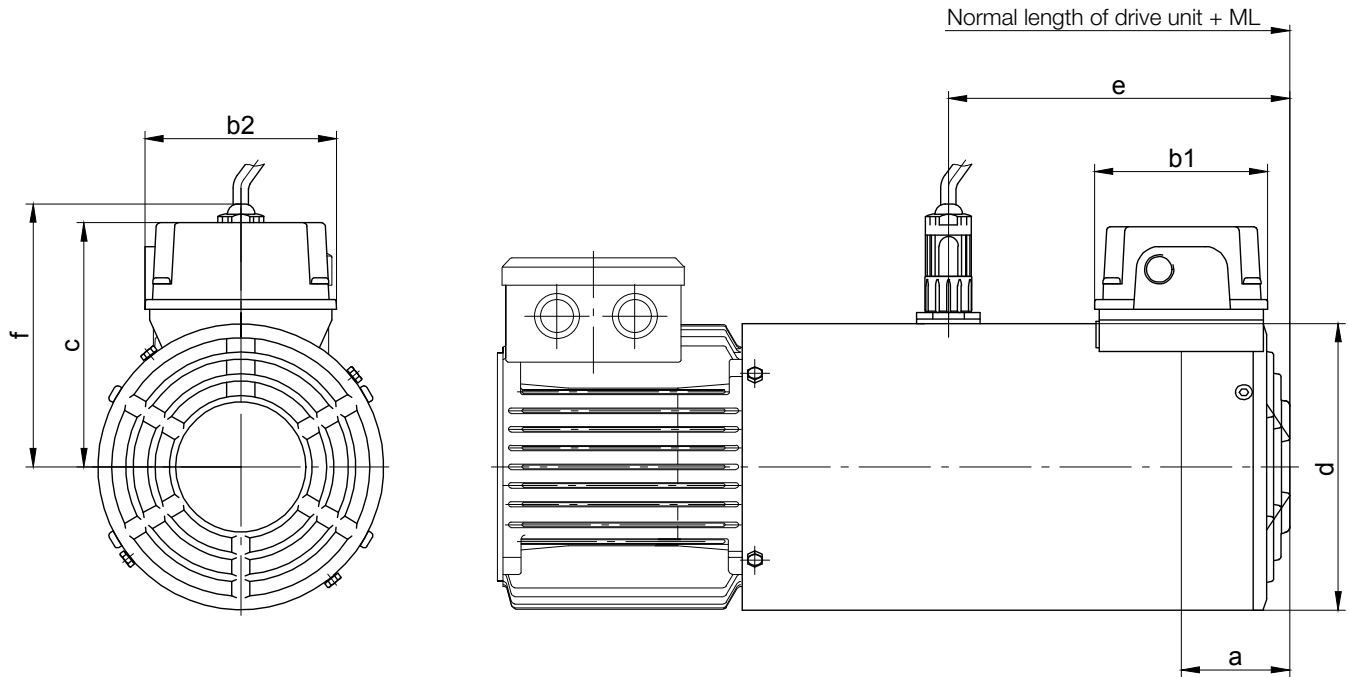
¹⁾ The additional length is for normal motor unit without brake.

Other dimensions see the appropriate normal dimensioned sketch.

Motor-mounted components

Dimensional Drawings Metric

Motor with standard brake and encoder with built-on independent fan



Motor	Brake	ML (mm) ¹⁾ Additional length with brake, encoder and forced ventilation	Dimensions (mm)									Additional weight ~kg
			a	b1	b2	c	Ød	e ²⁾	g	h	L(HA/HN) ²⁾	
D..08..	ES(X)010	202	59	107	105	134	157	204	150	150	132	6.0
D..09..	ES(X)010	214	69.5	107	105	143	177	220	160	160	132	6.5
	ES(X)027							212	160		162	8.5
D..11*	ES(X)027	221	69.5	107	105	162.5	219	226	155	175	162	9.0
	ES(X)040							223	155		172	11.5
	ES(X)070							218	155		184	13.5
D..13*	ES(X)040	240	79.5	107	105	164	258	254	175	194.5	202	13
	ES(X)070							250	175		225	15
	ES(X)125							245	175		223	19
	ES(X)125							298	195		244	21
D..16*	ES(X)200	294	78.8	107	105	185	311	291	195	221	256	27
	ES(X)300							262	195			29
	ES(X)250							207	212		286	39
D..18*	ES(X)500	303	78.8	107	105	211	348	277	212	239.5		40.5

* with bayonet joint

¹⁾ The additional length is for normal motor unit without brake.

Other dimensions see the appropriate normal dimensioned sketch.

²⁾ Brake release on request

HA = manual release lockable

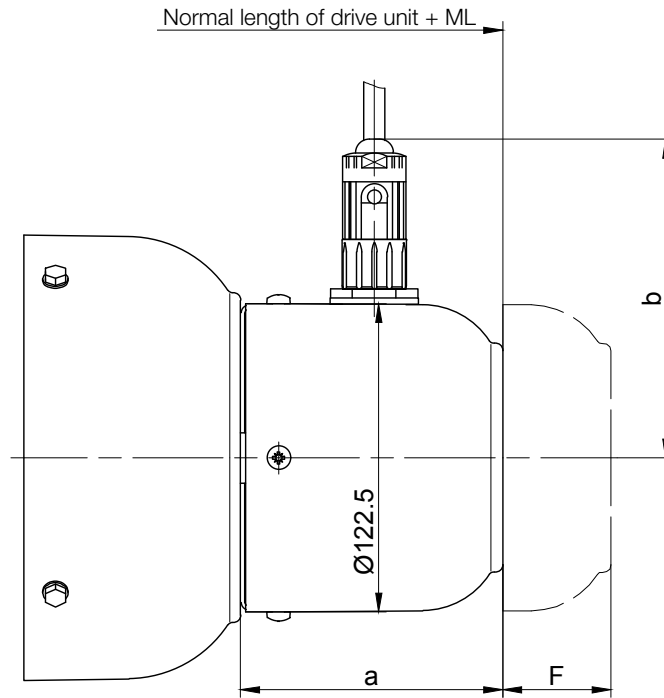
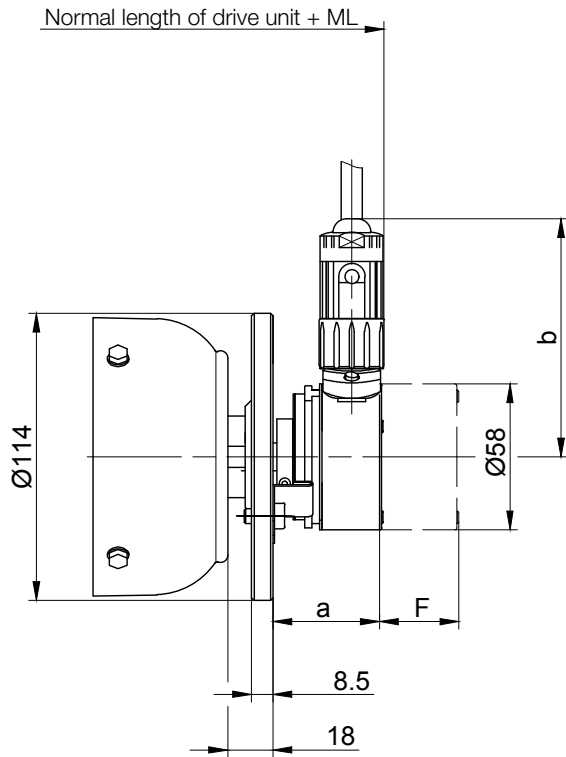
HN = manual release not lockable

The actual gearbox design can vary from the geometry shown.

Motor with encoder

D04

D05-D..22



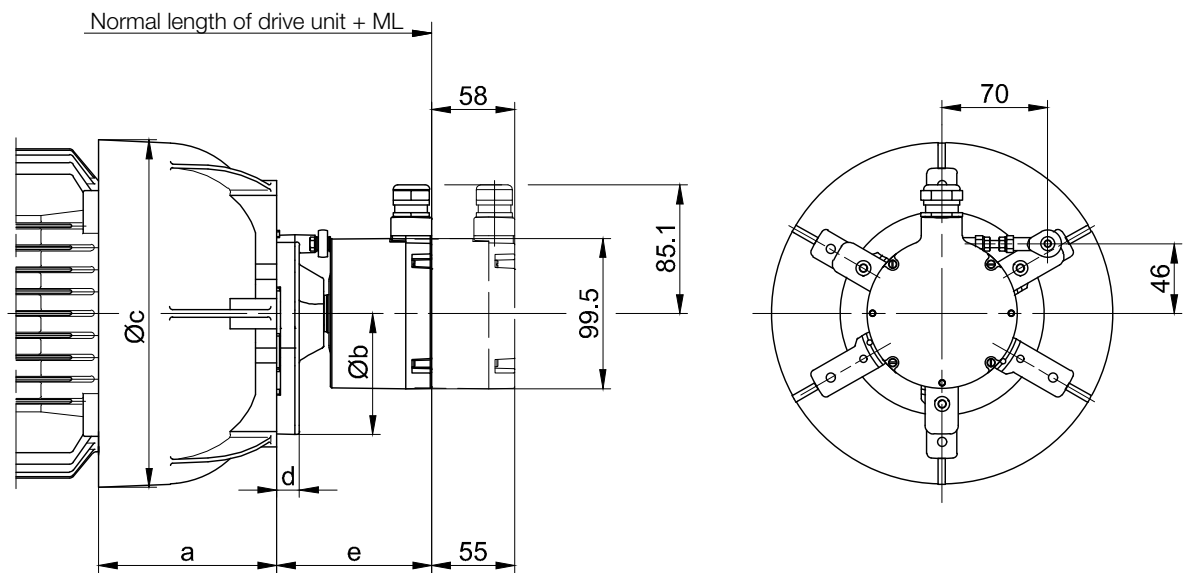
Fan cover geometry for D..16 - D..22, see dimensional drawing: terminal box as standard version

Motor	ML (mm) Additional length with encoder	Dimensions (mm)				Additional weight kg	Free space for removing encoder „F“	
		Incremental encoder		Absolute encoder			Incremental encoder	Absolute encoder
		a	c	a	b			
D04..	62.5	43.5	95	69.5	109.5	0.7	30	55
D..05..	103	98.5	127	98.5	127	0.9	63	88
D..06..				107.5				
D..07..								
D..08..	107	107.5		107.5	0.8	41	66	
D..09..		104		104				
D..11..								
D..13..	110							
D..16..		106	106	1.2	43	68		
D..18..								
D..20L								
D..22S	106	106	106	1.2	43	68		
D..22M								

Motor-mounted components

Dimensional Drawings Metric

Motor with “heavy duty” encoder



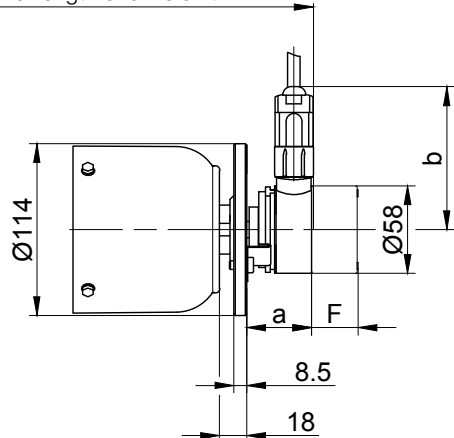
Motor	ML (mm) Additional length with encoder	Dimensions (mm)					Additional weight kg
		a	b	c	d	e	
D..08..	114	83.5	160	166	15	102.5	2
D..09..	118.5	102		191			
D..11..	121.5	120		231			
D..13..	115.5	140	185	274.5	17	94.5	8.6
D..16..	113.5	155		326			9.6
D..18..	122.5	183		366			11.5

The actual gearbox design can vary from the geometry shown.

Motor with standard brake and encoder

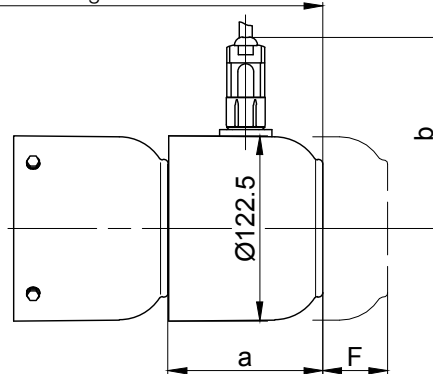
D04

Normal length of drive unit + ML



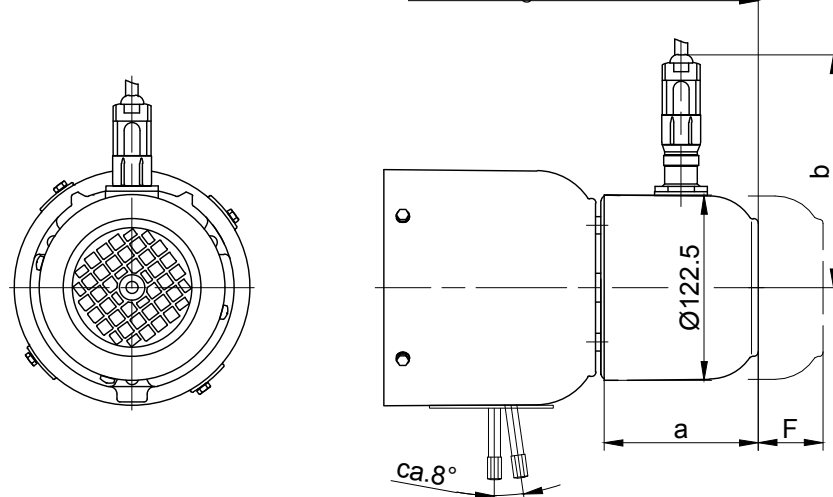
D05-D..22

Normal length of drive unit + ML



D..08-D..22

Normal length of drive unit + ML



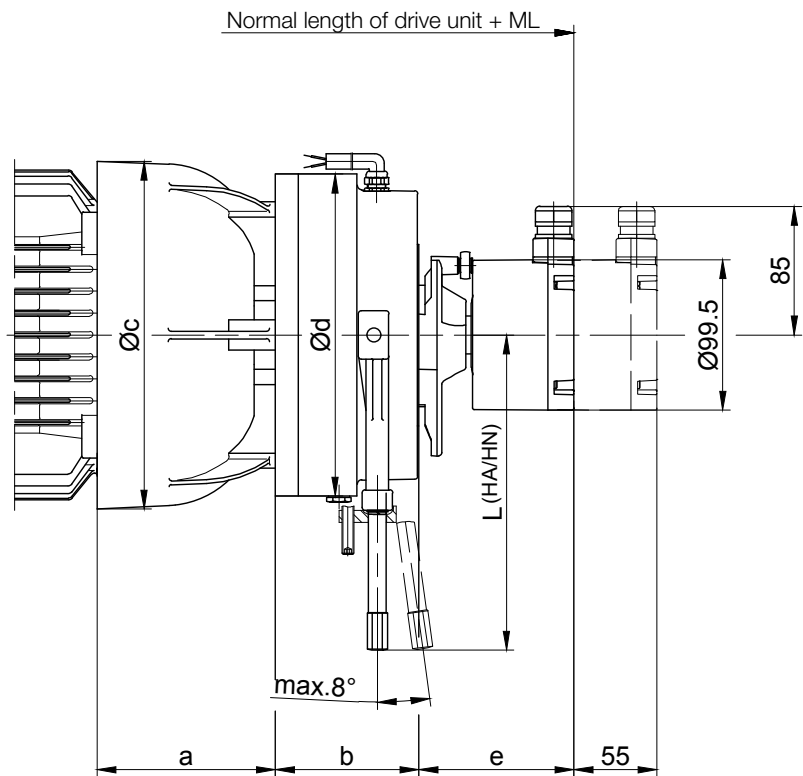
Motor	Brake	ML (mm)	Dimensions (mm)				Additional weight	Free space for removing encoder „F“				
		Additional length with brake and encoder	Incremental encoder		Absolute encoder			Incremental encoder	Absolute encoder			
			a	c	a	b						
D04..	E003	105.5	43.5	95	69.5	109.5	0.7	30	55			
D..05..		145	102	127	102	127	0.9	63	88			
D..06..												
D..07..	E003/E004											
D..08..	ES(X).. ES(X).. ES(X).. ES(X).. ES(X)..ZS(X) ES(X)..ZS(X) ES(X)..ZS(X)	173.5										
D..09..	197											
D..11..	200											
D..13..	212											
D..16..	248	104										
D..18..	247.5											
D..20L	ES(X)..ZS(X)	233.5	106							0.8	49	74
D..22S	ES(X)..ZS(X)											
D..22M	ES(X)..ZS(X)											

The actual gearbox design can vary from the geometry shown.

Motor-mounted components

Dimensional Drawings Metric

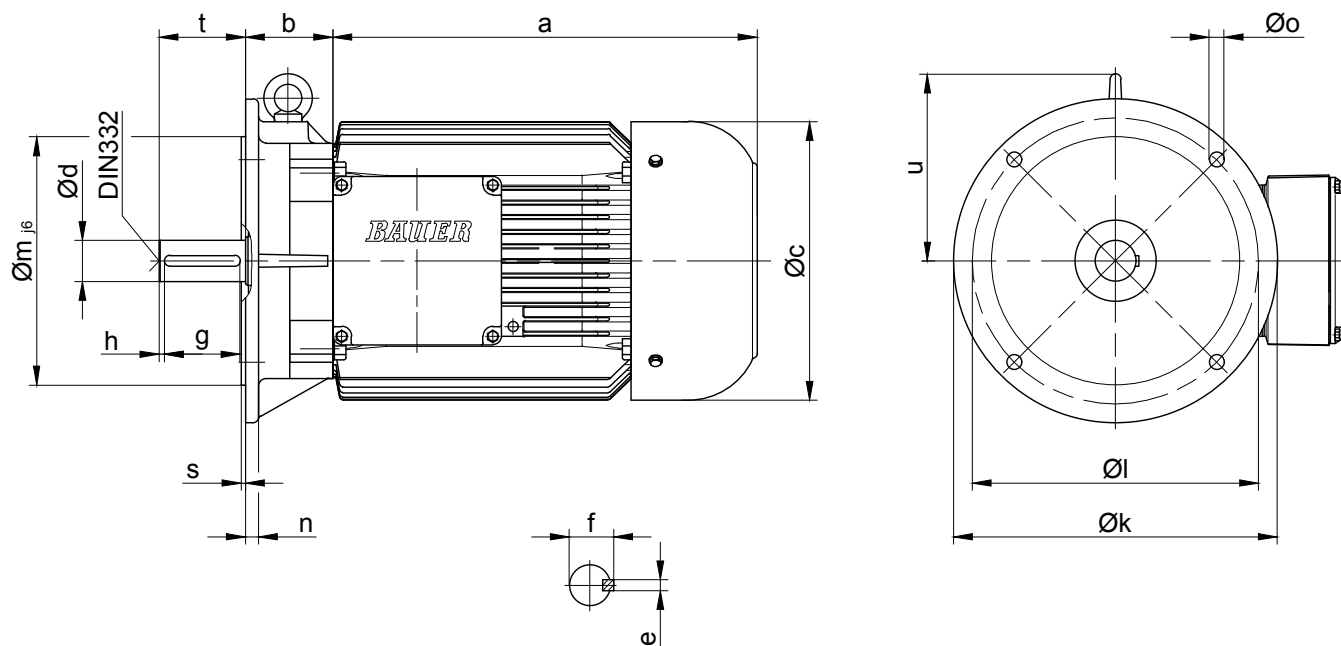
Motor with “heavy duty” brake and encoder



Motor	Brake	ML (mm) Additional length with brake and encoder	Dimensions (mm)						Additional weight kg
			a	b	c	Ød	e	L (HA/HN)	
D..08..	EH(X)027	180.5	83.5	66.5	166	145	102.5	162	7.1
D..09..	EH(X)040	191.5	102	73	191	168		172	10
D..11..	EH(X)125	216.5	120	95	231	213		208.5	21.4
D..13..	EH(X)200	259	140	106	274.5	245	94.5	221	32
D..16..	EH(X)400	243	155	124	326	324		313	58
D..18..		254	183		366				61
HA = manual release lockable HN = manual release not lockable									

The actual gearbox design can vary from the geometry shown.

Motor in IEC design

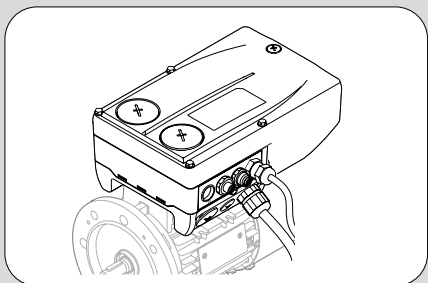


Fan cover geometry for D..16 - D..18, see dimensional drawing: terminal box as standard version

Motor	Dimensions (mm)																Centering DIN 332
	a	b	c	d	e	f	g	h	k	l	m	n	o	s	t	u	
D..06..	170	45	123	11 _{j6}	4	12.5	18	2.5	140	115	95	9	10	2.75	23	-	D4
D..07..	190	45	123	11 _{j6}	4	12.5	18	2.5	140	115	95	9	10	2.75	23	-	D4
D..08..	200	49	156	19 _{j6}	6	21.5	35	2.5	200	165	130	10	12	3.5	40	-	D4
D..09..	251	66	176	24 _{j6}	8	27	40	5	200	165	130	10	12	3.5	50	128.5	D6
D..11..	319	75	218	28 _{j6}	8	31	50	5	250	215	180	11	14.5	4	60	145.5	D10
D..13..	393	81	266	38 _{k6}	10	41	70	5	300	265	230	12	14	4	80	173	D12
D..16..	454.5	98.5	310	42 _{k6}	12	45	90	10	350	300	230	13	18.5	5	110	215.5	D16
D..18..	542	128.5	348	48 _{k6}	14	51.5	100	5	350	300	250	15	18.5	5	110	218	D16

Energy Efficient Geared Motors

AC Line Operated / North America



17

Decentral Drive Technology

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 EtaK2.0 geared motors 739

 Efficient and ideal for distributed systems 739

 Features of EtaK2.0 geared motors 739

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 Possible assemblies for EtaK2.0 746

Energy Efficient Geared Motors

AC Line Operated / North America

EtaK2.0 geared motors

All Bauer geared motors from 0.12 to 7.5 kW are available with an externally mounted EtaK 2.0 frequency inverter. These are mounted directly onto the motor in place of a terminal box. The installation volume required for the geared motor is not much greater than that required for standard geared motors.

Efficient and ideal for distributed systems

EtaK2.0 geared motors help you to save several times over: in planning and installation, in operation and in maintenance. They help you boost the efficiency of your installations, protect your mechanical components and reduce the mains load. In this way, EtaK2.0 geared motors make a significant contribution to energy savings and efficiency optimisation of your application.

All EtaK2.0 geared motor models (helical, shaft-mounted, bevel and worm-geared motors) are equipped with a variable frequency drive (VFD). They give you compact drive solutions with continuously variable speed and rated motor power up to 7.5 kW.

EtaK2.0 geared motors are smart power components for future-oriented system designs and can easily be adapted to specific working conditions and required process speeds. They are preferably controlled using a field bus system, but they also support control through digital and analogue inputs and outputs. The VFD provides valuable additional information for system protection and monitoring.



Features of EtaK2.0 geared motors

The combination of geared motor and inverter opens up a whole range of attractive possibilities:

Reduce costs - Save space

- Planning and installation costs are down
- Less space needed for switchgear
- Fewer drive versions, so stock holding is streamlined
- Thermal situation inside the switchgear cabinet is better
- Fewer shielded motor cables

Think system - Avoid interfaces

- Inverter and motor are integrated in a single, compact unit
- Inverter is optimised ex-works for motor and application
- Retrofits available for existing drive configurations
- Cabling is simplified

User benefits

- Preconfigured, plug and play on application-specific basis
- Slip compensation for load-independent constant speed
- PID controller for structuring process control
- Switching frequency adjusts automatically to temperature

Technical Data for EtaK2.0

- Motor power range 0.12 to 7.5 kW
- Supply voltage 3 x 400 .. 480 V +/- 10 %
- Input frequency 50/60 Hz
- 200 % of rated motor torque over the entire frequency-inverter range
- Design compliant with UL requirements
- Degree of protection IP 65: motor and inverter
- Integrated protection against overload, overcurrent, phase failure, overvoltage and under-voltage
- Drive is thermally monitored

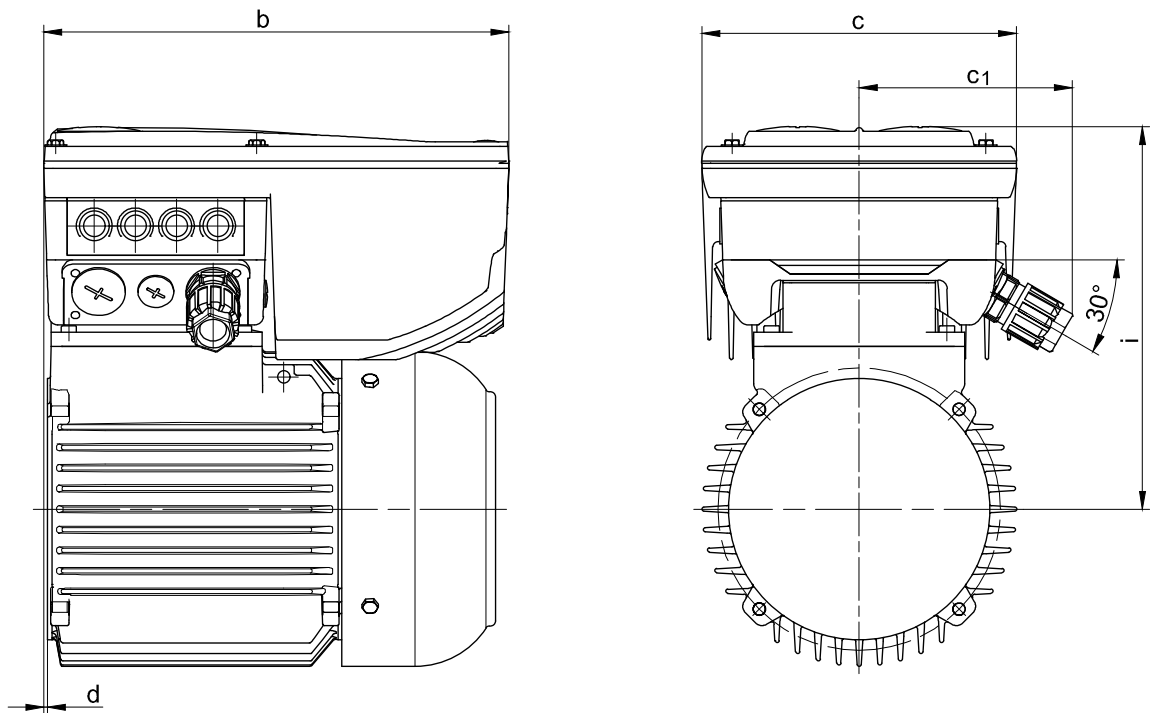
Added benefits

- 200 % overload current (3 s)
- V/f control with or without encoder
- Sensorless vector control
- Short-circuit and frame fault protection
- Direct current braking
- S ramps for gentle acceleration
- Maximum output frequency 300 Hz
- CANopen, PROFIBUS, PROFINET, EtherCAT, EtherNet/IP and AS-Interface
- Safety function STO in combination with a communication unit with field bus system

Motor combinations

P _N 60 Hz [kW]	Typ*	Base frequency 60 Hz Motor: 405 V/60 Hz/Y	Base frequency 104 Hz Motor: 234 V/60 Hz/D
		P _{FU} [kW]	P _{FU} [kW]
0.12	DHE06LA4	0.37	0.37
0.18	DHE06LA4	0.37	0.37
0.25	DHE07LA4	0.37	0.55
0.37	DHE08MA4	0.37	0.75
0.55	DHE08LA4	0.55	1.1
0.75	DHE08XA4	0.75	1.5
1.1	DHE09LA4	1.1	2.2
1.5	DHE09XA4	1.5	3
2.2	DHE09XB4	2.2	4
3	DHE11MA4	3	5.5
4	DHE11LA4	4	7.5
5.5	DHE11LB4	5.5	-
7.5	DHE13LA4	7.5	-

Dimensional drawing with attached EtaK2.0 inverter



Other dimensions see the appropriate normal dimensioned sketch

Motor	Type ETA-K2...		Dimensions (inch)					Cable entry
			b	c	c ₁	d	i	
D06	K2A003		9.65	6.14	4.72	-0.2	6.26	QUICKON
D07	K2A005		9.65	6.14	4.72	-0.2	6.26	QUICKON
D..08	K2A003	K2A005	13.43	6.14	4.72	-0.04	6.93	QUICKON
	K2A007	K2A011	13.43	6.14	4.72	-0.04	6.93	QUICKON
	K2A015		13.43	6.14	4.72	-0.04	6.93	QUICKON
D..09	K2A011	K2A015	9.37	6.14	4.72	0.08	8.39	QUICKON
	K2A022	K2A030	10.16	6.93	4.72	0.08	8.39	QUICKON
	K2A040		12.83	7.68	4.72	-0.04	11.22	QUICKON
D..11	K2A022	K2A030	10.20	6.93	4.72	0.04	9.17	QUICKON
	K2A040	K2A055	12.87	7.68	4.72	-0.08	11.97	QUICKON
	K2A075		12.87	7.68	5.20	-0.08	11.97	QUICKON
D..13	K2A075		13.54	7.68	5.20	-0.73	13.19	QUICKON

The actual gearbox design can vary from the geometry shown.

Available accessories

Either the USB diagnostic adapter in combination with free software or the handheld terminal is required for parameterisation and control of the EtaK2.0. Without this accessory, no parameter adjustments are possible.

USB diagnostic adapter

The EtaK 2.0 is operated, parameterised and diagnosed via the diagnostic interface. A PC can be connected via the USB interface and the USB diagnostic adapter. To connect the USB diagnostic adapter to the diagnostic interface (DIAG) on the inverter, a 5-metre flying lead is already included in the package. The connection can be established during operation. The EASY Starter or Engineer engineering tools can be used to operate, parameterise or diagnose the inverters. Both tools have simple intuitive interfaces. This makes commissioning, for example, quick and easy to carry out.

Features	Plug-in location	BAU ID
• Input-side power supply via USB connection from PC • Output-side power supply via inverter diagnostic interface • Diagnostic LEDs • Galvanic decoupling of PC and inverter • Hot-plug-capable • 5 m flying lead	DIAG	BAU4020468



Handheld terminal

As an alternative to the PC, the handheld terminal can be used for local operation, parameterisation or diagnostics. The data is quickly accessible via structured menus and a plain text display. The handheld terminal can be plugged onto the diagnostic interface (DIAG) of the VFD from the outside.

Features	Plug-in location	BAU ID
• Handheld terminal in robust housing • Including 2.5 m cable • IP20 enclosure rating • For 8400 motec	DIAG	BAU2612968



Switch potentiometer unit

The switch / potentiometer unit is mounted directly onto the 8400 motec or to another part of the system. With the switch/potentiometer unit and the control connections integrated into the drive controller, an analogue reference value can be preset with the integrated potentiometer; the drive can be started or stopped or the direction of rotation can be changed, for example, via the rotary switch.

Specification	Features	Plug-in location	BAU ID
Switch / potentiometer unit E82ZBU	• 2.5 m flying lead • IP65 enclosure rating	Connection to the control ports of the communication unit	BAU2616424

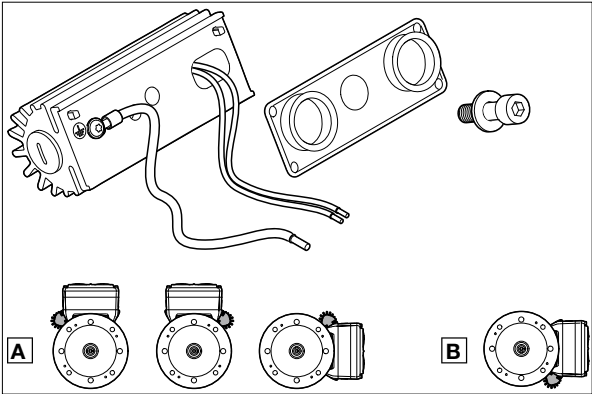


Built-in potentiometer

Features	Plug-in location	BAU ID
• The mounted potentiometer can be mounted directly to the EtaK2.0 wiring unit. • With the potentiometer and the control connections integrated into the drive controller, an analogue reference value can be preset or the drive can be started or stopped.	Connection to the control ports of the communication unit	BAU3126561



Internal braking resistances



	R_B (C00129)	P_D (C00130)		Q_B (C00131)	C00574	IP	E84DGDVB...
		A	B				
	[Ω]	[W]	[W]	[kVA]	=		
BAU-ID 2612887	220	40	30	0.6	1 Fault	IP65	3714 5514 7514 1124 1524
BAU-ID 2612879	100	40	30	0.6	1 Fault	IP65	2224 3024
BAU-ID 2612861	47	40	30	0.6	1 Fault	IP65	4024 5524 7524

Setpoint potentiometer

A setpoint potentiometer for installation in a cable entry gland of the inverter housing is available for adjusting speed directly at the drive. This potentiometer is particularly suitable as an alternative to mechanical actuating drives.

Easy Starter

All VFDs can be parameterised, operated and controlled from the PC using this software. This considerably simplifies parameter setting, commissioning, diagnostics and documentation of the systems. Networking of up to 126 VFDs is possible. Downtimes during device replacement can thus be drastically reduced.

- Basic module for convenient parameterisation and test run.
- Protocol module with monitor function for commissioning complex systems and possibility of modem connection.
- Masking module for creating input and output masks with password protection.

Braking operation with braking resistor

For regenerative operation over a longer period of time or when you have to decelerate large moments of inertia, you need a braking resistor. It converts the braking energy into heat. The braking resistor is switched on when the DC link voltage exceeds the switching threshold. This prevents the drive controller from setting pulse inhibition due to the „overvoltage“ fault and the drive from running out.

The braking resistor guides the braking process at all times.

Note:

An internal braking resistor is not integrated in the device. Conversion of braking energy into heat is not possible. Only the brake chopper is integrated in the device.

Supply for mechanical brake

Bauer geared motors can be equipped with spring-applied brakes. A mechanical brake for the motor can be actuated directly by the frequency inverter. The EtaK2.0 VFDs have an integrated motor brake control. The EtaK2.0 supplies and controls the brake as long as it is supplied with mains voltage. The EtaK2.0 generates an appropriate brake supply voltage depending on the mains voltage present, so that a brake suitable for the application can be fitted. The corresponding values for a brake supply voltage are listed in the following table:

--> on the 400 V mains: solenoid voltage 180 V DC
--> on the 400 V mains: solenoid voltage 180 V DC

Optionally, the switching of the brake can also be controlled via an external control contact (e.g. PLC).

The actual gearbox design can vary from the geometry shown.

Possible assemblies for EtaK2.0

BG-series

Terminal box position	B3 H4	B6 H1	B7 H2	B8 H3	V5 H5	V6 H6	B5	V1	V3
I	✓	x	✓	✓	✓	✓	✓	✓	✓
II	✓	✓	✓	x	✓	✓	✓	✓	✓
III	✓	✓	x	✓	✓	✓	✓	✓	✓
IV	x	✓	✓	✓	✓	✓	x	✓	✓

✓ possible, x not possible

BF-series

Terminal box position	H1	H2	H3	H4	V1	V2
I	x	✓	✓	✓	✓	✓
II	✓	✓	x	✓	✓	✓
III	✓	x	✓	✓	✓	✓
IV	✓	✓	✓	x	✓	✓

✓ possible, x not possible

BK-series

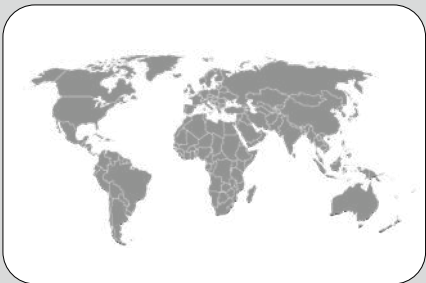
Terminal box position	H1	H2	H3	H4	V1	V2
I	✓	✓	✓	✓	x	✓
II	✓	x	✓	✓	✓	✓
III	✓	✓	✓	✓	✓	x
IV	x	✓	✓	✓	✓	✓

✓ possible, x not possible

BS-series

Terminal box position	H1	H2	H3	H4	V1	V2
I	✓	✓	✓	✓	x	✓
II	✓	x	✓	✓	✓	✓
III	✓	✓	✓	✓	✓	x
IV	x	✓	✓	✓	✓	✓

✓ possible, x not possible



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Europe	751
Eastern Europe	754
Middle East & Africa	755
APAC	756
China	757

Energy Efficient Geared Motors

AC Line Operated / North America

North America

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United States	Bauer Gear Motor LLC.	701 Carrier Dr. NC 28216 Charlotte	Phone +1 (800) 3871030 Fax +1 (732) 4698773	bauer.us@bauergears.com www.bauergears.com

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Panama	Transmisiones LTDA.	Cra. 69 B No. 21 A - 24 Parque Industrial Salitre 77158 Bogota / Colombia	Phone Fax	+57 (1) 4126898 +57 (1) 2929737	aguerrero@transmisiones.de www.transmisiones.de
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Energy Efficient Geared Motors

AC Line Operated / North America

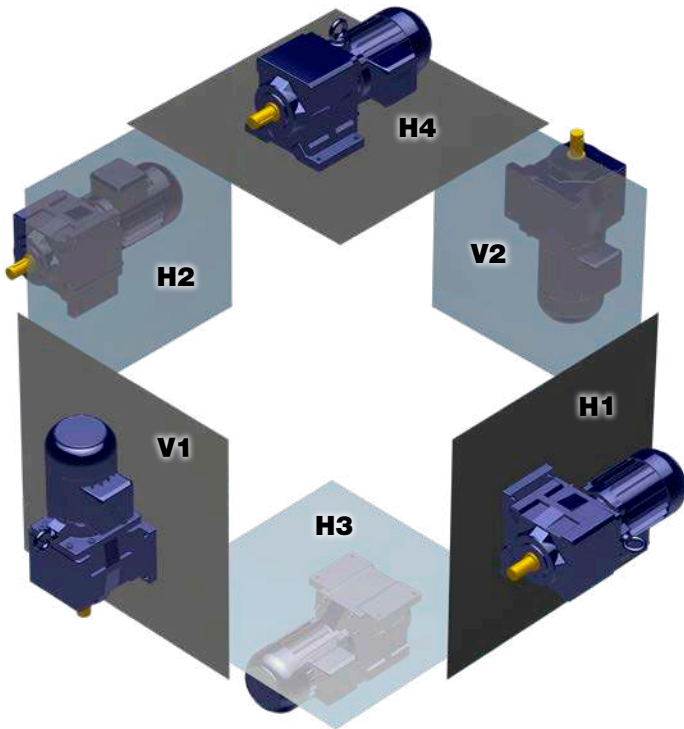
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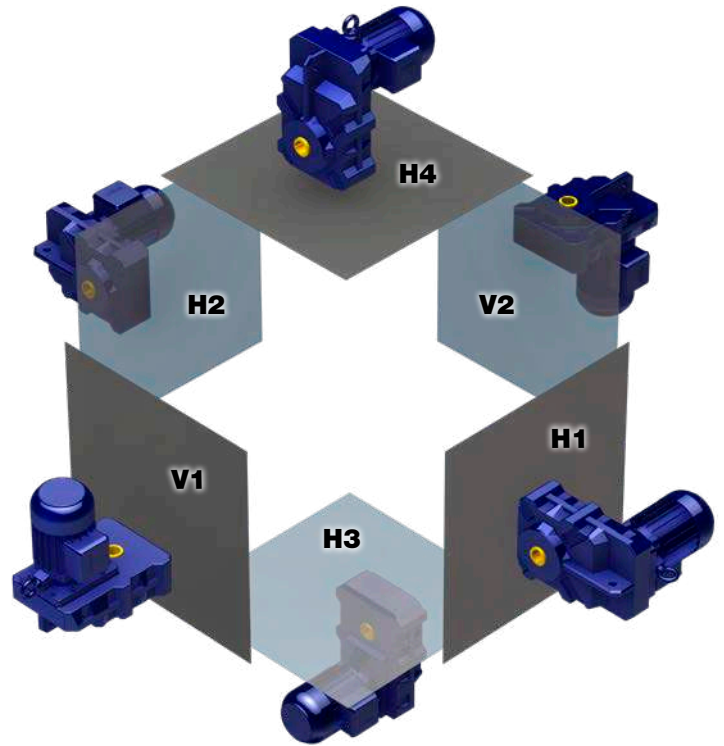
Energy Efficient Geared Motors

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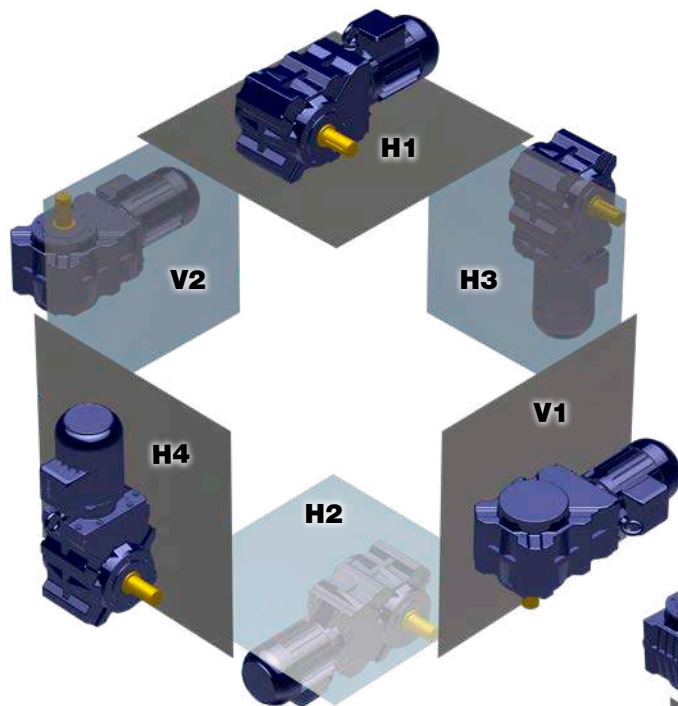
Mounting Positions



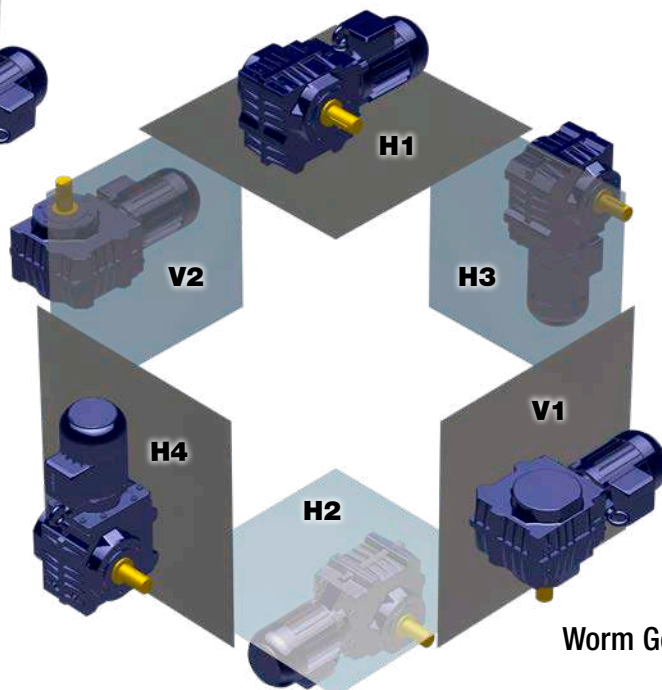
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