7.2 Eta geared motors

All Bauer geared motors from 0,12 to 7,5 kW are available with an externally mounted Eta-K 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.

7.2.1 Features of Eta geared motors

The combination of geared motor and converter 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
- Converter and motor are integrated in a single, compact unit
- Converter is optimised ex-works for motor and application
- Retrofits available for existing drive configurations
- Cabling is simplified

Replace standards - Boost functionality
- Substitute the convenience of remote operation for mechanical actuation
- Replacement for pole-changing motors with defined ramp functions

Design features
- Compact, slimline geometry
- Plug-fit to motor
- Maintenance-friendly, accessible and easily replaced
- Complete unit, requires no external control voltage

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

7.2.2 Technical Data for Eta-K

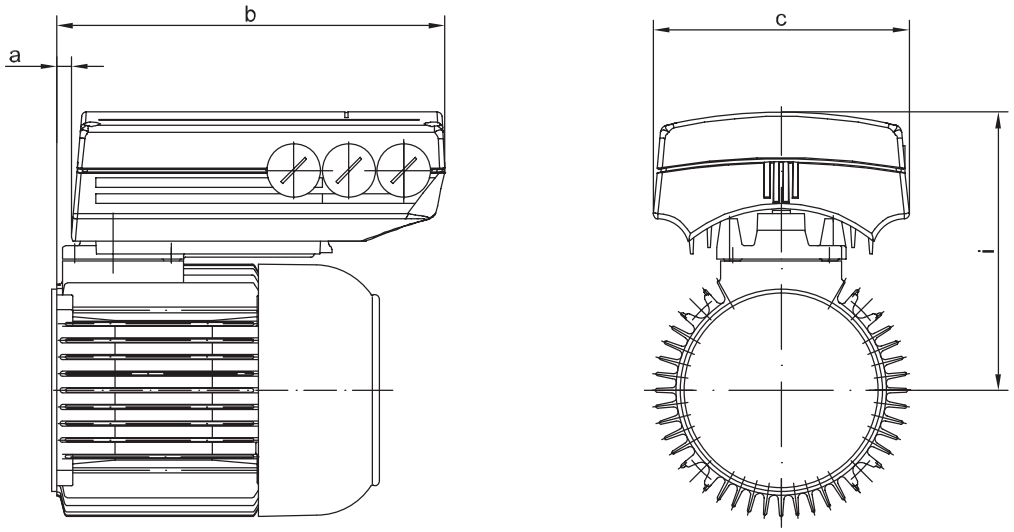
- Motor power range 0,12 to 7,5 kW
- Supply voltage 3 x 380 .. 480 V +/- 10%
- Frequency 50/60 Hz
- Speed range 1 : 50
- 160 % of rated motor torque over the entire frequency-converter range
- Flux braking
- Integrated Profibus interface instead of standard controller card available on request
- CE mark
- Compliant with EMC Directive for Industry and Households as per EN 61800-3 (EN 50081, EN 50082)
- Design compliant with UL requirements
- Degree of protection IP 65: motor and converter
- Integrated protection against overload, overcurrent, phase failure, overvoltage and undervoltage
- Drive is thermally monitored

7.2.3 Classification, Eta-K to motor

Motor power	Type of motor	Type of inverter 400 V / 50 Hz	Type of inverter 400 V / 87 Hz
0,12	D06LA4	K305	K305
0,18	D06LA4	K305	K305
0,25	D06LA4	K305	K305
0,37	D08MA4	K305	K307
0,55	D08MA4	K305	K311
0,75	D08LA4	K307	K315
1,1	D09SA4	K311	K322
1,5	D09LA4	K315	K330
1,8	D09XA4	K322	K340
2,2 *	D09XA4-FV	K322	K340
2,2	D11SA4	K322	K340
3,0	D11MA4	K330	K355
4,0	D11LA4	K340	K375
5,5	D13LA4	K355	-
7,5	D16MA4	K375	-

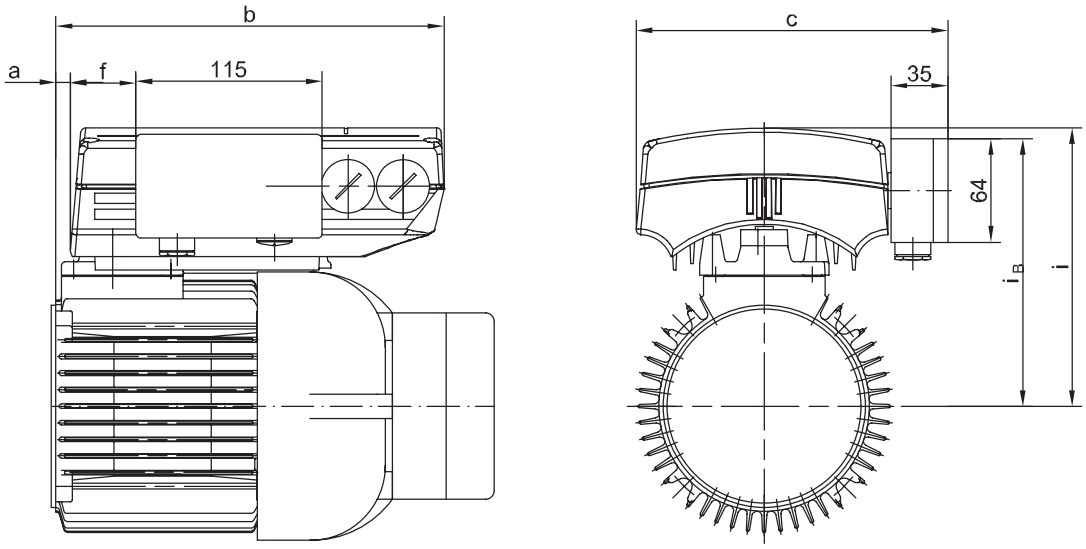
* = Motor design only with Forced Cooling (FV) permissible

7.2.4 Dimensional drawing, motors with externally mounted Eta-K inverter



Motor Motor Moteur	Typ Eta-K... Type Eta-K... Type Eta-K...		Masse (mm) Dimensions (mm) Dimensions (mm)				Kabeleinführung Cable entry Entrée des câbles
			a	b	c	i	
D06	K305		12	218	141	148	3xM20x1.5
D08	K305	K307	8	214	141	166	3xM20x1.5
D08	K311	K315	9	240	158	174	3xM20x1.5
D09	K311	K315	5	236	158	202	3xM20x1.5
D09	K322	K330	2	259	176	212	3xM20x1.5
D09	K340		1	289	197	228	2xM20x1.5;1xM25x1.5
D11	K322	K330	3	260	176	223	3xM20x1.5
D11	K340		2	290	197	245	2xM20x1.5;1xM25x1.5
D11	K355	K375	4	363	245	257	2xM20x1.5;1xM25x1.5
D13	K355		7	366	245	278	2xM20x1.5;1xM25x1.5
D16	K375		8	367	245	304	2xM20x1.5;1xM25x1.5

7.2.5 Dimensional drawing, Eta-K converter with brake control



Motor Motor Moteur	Typ Eta-K... Type Eta-K... Type Eta-K...		Masse (mm) Dimensions (mm) Dimensions (mm)						Kabeleinführung Cable entry Entrée des câbles
			a	b	c	f	i	i_B	
D06	K305		12	218	180.5	17	148	157	2xM20x1.5
D08	K305	K307	8	214	180.5	17	166	172	2xM20x1.5
D08	K311	K315	9	240	198	40	175	170	2xM20x1.5
D09	K311	K315	5	236	198	40	202	197	2xM20x1.5
D09	K322	K330	2	259	215	65	212	210	2xM20x1.5
D09	K340		1	289	236	82	228	218	1xM20x1.5; 1xM25x1.5
D11	K322	K330	3	260	215	65	223	223	1xM20x1.5
D11	K340		2	290	236	82	245	235	1xM20x1.5; 1xM25x1.5

7.2.6 Accessories

7.2.6.1
Operating panel with keyboard (LCP2) for setting parameters

This IP 65 control panel has a 4-line plain-text display for easy operation and parameterisation. All parameters can be stored in the control panel for straightforward transfer to other converters. The control panel connects to the RS 485 serial interface. 2 connecting-cable sets are available:

- Connecting cable from LCP to the terminal strip of the converter
- Connecting cable for LCP with plug connector and adapter to terminal strip with plug socket for installation in PG16 hole. A kit complete with connecting cable for installing the control panel in a master panel is also available.

7.2.6.2
Local operator panel (LOP)

A LOP with connecting cable can be used for setting speed locally and for starting and stopping the drive. The LOP can be used to control the following functions via the converter's programmable inputs/outputs: Start clockwise, start counter-clockwise, stop, acknowledge, increase speed, decrease speed.

7.2.6.3
Setpoint potentiometer

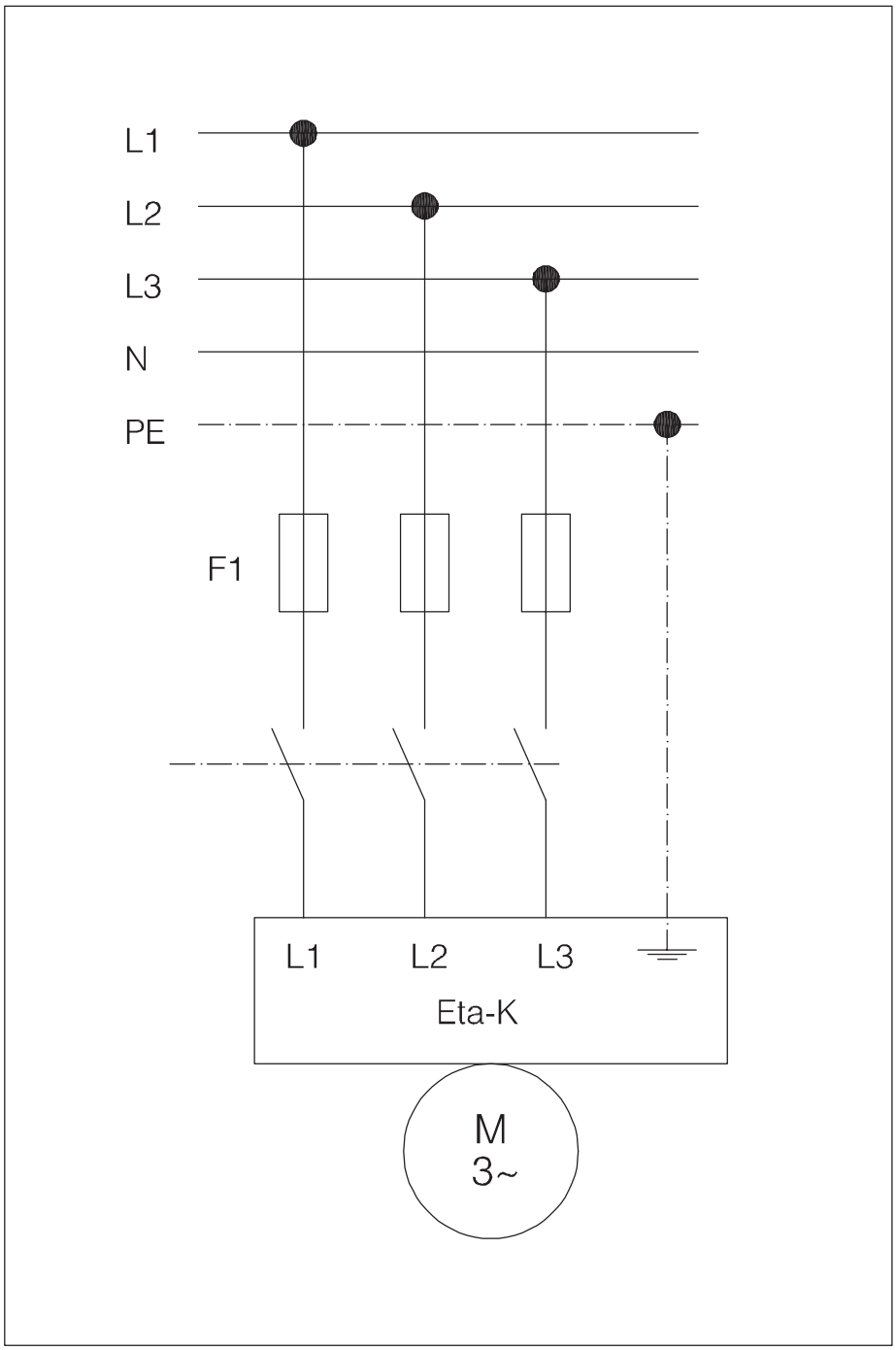
A setpoint potentiometer for installation in a cable entry gland of the converter housing is available for adjusting speed directly at the drive. Resistance 1 kohm, angle of rotation 270°, protection IP52. This potentiometer is particularly suitable as an alternative to mechanical actuating drives.

7.2.6.4
Parameterisation software

Using this software it is possible to set parameters, operate and control all Danfoss frequency inverters by means of a PC. This contributes significantly to simplifying parameterisation, initial operation, diagnosis and documentation of the systems. It is possible to network up to 126 inverters. Downtimes for device replacement are cut dramatically using a

7.2.7 Connection diagrams

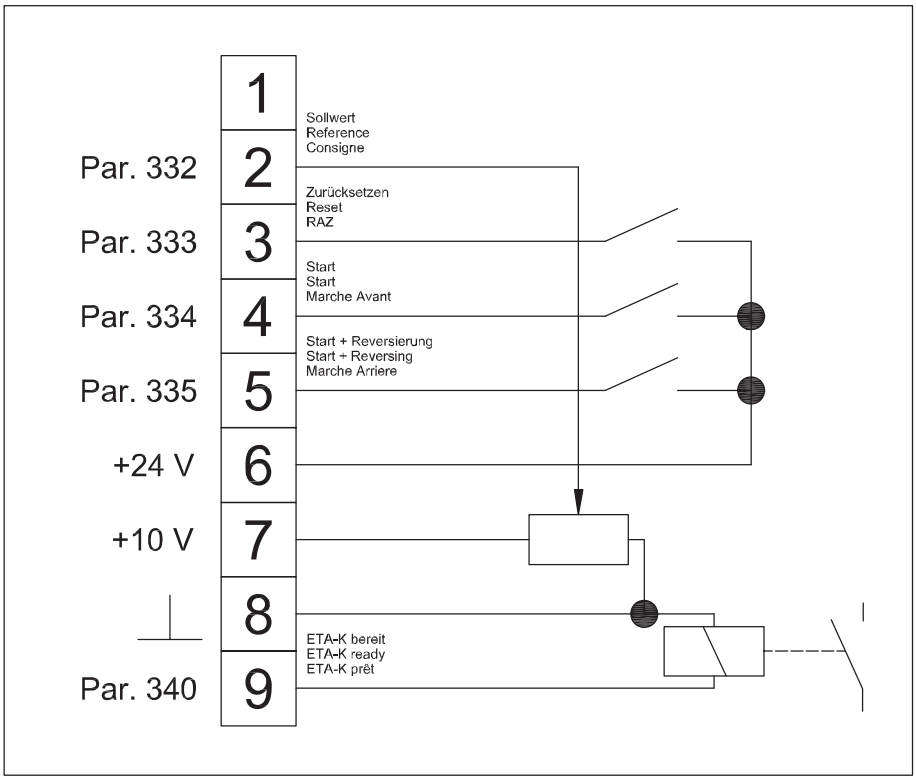
7.2.7.1
Power section



7.2.7.2
Control section

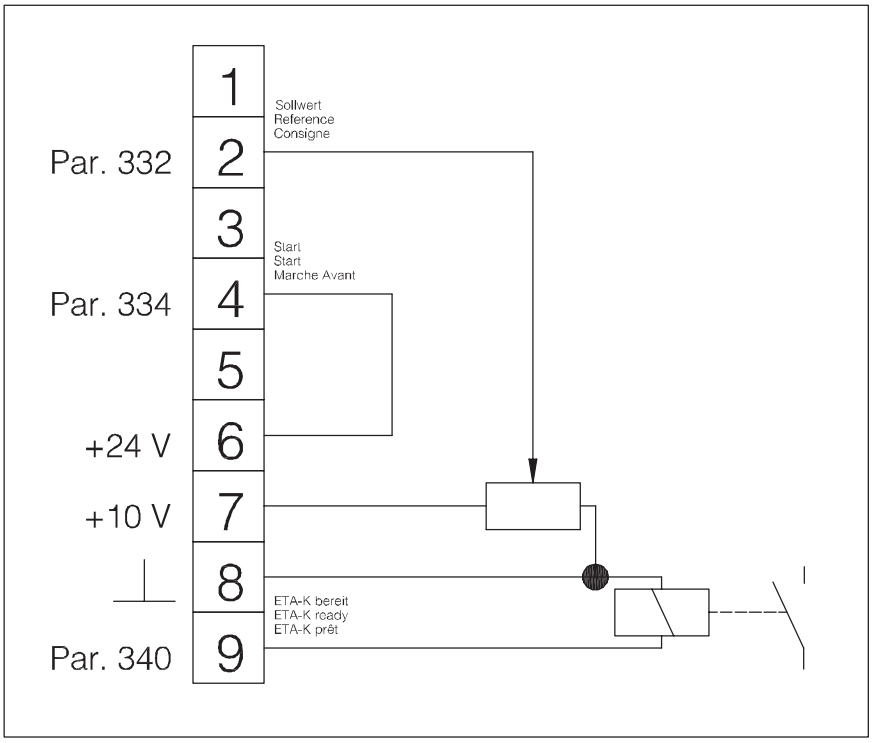
Standard

Two directions of rotation with analog setpoint



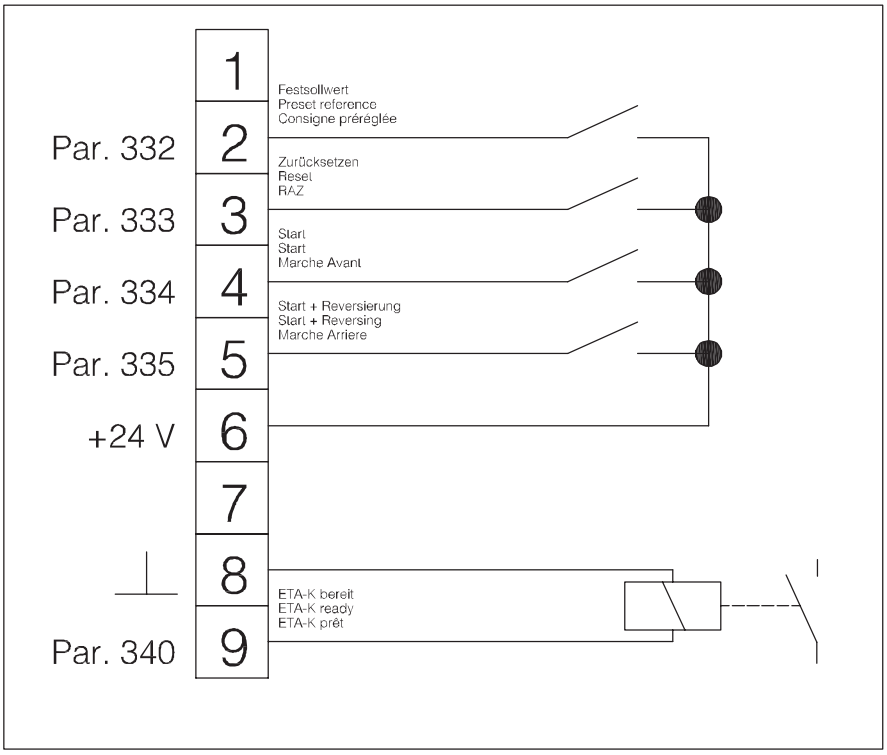
One direction of rotation with analog setpoint

e. g. as a substitute for actuator geared motors.



2 speeds + 2 directions of rotation

e. g. as a substitute for pole-changing drives



7.3 Possible assemblies for FCD and Eta-K

BG-series

Terminal box position	B3 H4	B6 H1	B7 H2	B8 H3	V5 H5	V6 H6	B5	V1	V3
I	+	o	+	+	+	+	+	+	+
II	+	+	+	o	+	+	+	+	+
III	+	+	o	+	+	+	+	+	+
IV	o	+	+	+	+	+	o	+	+

+ posible, o not possible

BF-series

Terminal box position	H1	H2	H3	H4	V1	V2			
I	o	+	+	+	+	+			
II	+	+	o	+	+	+			
III	+	o	+	+	+	+			
IV	+	+	+	o	+	+			

+ posible, o not possible

BK-series

Terminal box position	H1	H2	H3	H4	V1	V2			
I	+	+	+	+	o	+			
II	+	o	+	+	+	+			
III	+	+	+	+	+	o			
IV	o	+	+	+	+	+			

+ posible, o not possible

BS-series

Terminal box position	H1	H2	H3	H4	V1	V2			
I	+	+	+	+	o	+			
II	+	o	+	+	+	+			
III	+	+	+	+	+	o			
IV	o	+	+	+	+	+			

+ posible, o not possible

7.4 VLT® Micro Drive — Microdrive for standard product applications

7.4.1 Technical data for VLT® Micro Drive

Power range:
0.37–7.5 kW (380–480 V, 3 phase)
0.18–2.2 kW (200–240 V, 1 phase)
0.25–3.7 kW (200–240 V, 3 phase)

Protection:
IP 20 / IP 21

Advantages
- Approx. 40% smaller than comparable drives
- Integrated EMC filter
- Protective housing
- Removable control unit with copy function
- Control unit with setpoint potentiometer (option)
- RS485 port as standard
- Extremely easy commissioning (preconfigured)

7.5 VLT® 2800 Series — General-purpose converter for small and medium power levels

7.5.1 Technical data for VLT® 2800 Series

Power range:
0.55–18.5 kW (380–480 V, 3 phase)
0.37–1.5 kW (200–240 V, 1 phase)
0.37–3.7 kW (200–240 V, 3 phase)

Protection:
IP 20

Advantages
- Integrated EMC filter and RFI choke
- Robust cold-plate heatsink
- Suitable for side-by-side or horizontal mounting
- Large integrated control panel
- RS 485 port as standard
- Optional Profibus DPV1 interface

7.6 VLT® AutomationDrive — Modular drive platform with full power spectrum

7.6.1 Technical data for VLT® AutomationDrive

Power range:
0.37–800 kW (380–500 V, 3 phase)
0.25–37 kW (200–240 V, 3 phase)

Protection:
IP 20 / IP 21, IP 55, IP 66

Advantages
- A single drive platform for all main and auxiliary drives
- Modular design for optimal matching to the application
- Safety features: Basic unit with STO/SIL 2
- Integrated EMC filter and RFI choke
- Plain-text control unit with online help and copy function (optional)
- RS485 and USB interfaces as standard
- Motor cable lengths up to 150 m screened without extra fittings
- Mechanical braking/lifting function
- "Smart Logic" simplifies logic tasks
- Optional fieldbus interfaces (Profibus, Profinet, Ethernet/IP, Powerlink, Interbus, Safetybus-p)

7.7 MCT 10 Software — Project-oriented PC software for all VLT® series drive systems

7.7.1 Description of MCT 10 software

Supported VLT series:
Eta-K
VLT® FCD 300
VLT® Micro Drive
VLT® 2800 series
VLT® 5000 series
VLT® Automation Drive

Advantages
- Easy project management overview, even with extensive system data
- A single software tool for all VLT® drives
- Online processing for commissioning
- Oscilloscope function
- Supports RS485, USB and Profibus DP-V1 interfaces
- Operational basic version free of charge

Download:
www.danfoss.de/drives (Software)

7.8 MCD soft starters

MCD 100/MCD 200 soft-start equipment for gentle handling of mechanical transfer components

7.8.1 Technical data for MCD100 / MCD 200 Softstarters

Power range:
MCD 100: 1.1–11 kW (200–600 V)
MCD 200: 7.5–110 kW (200–575 V)

Protection:
IP 20 / IP 21

MCD 100 advantages
- Minimal space requirement
- Rail mounting
- Extremely easy to use

MCD 200 advantages
- Motor protection features
- External control unit (optional)
- Fieldbus interfaces (optional)

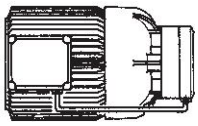
7.9 Additional information

Detailed information on VLT® frequency converters and MCD soft starters is available online at

www.danfoss.de/drives

We would also be pleased to send you additional engineering documentation on these products.

8 Motor-mounted components



8.1 Brakes

Bauer geared motors are also available on request with a motor-mounted spring-loaded brake for defined braking where there is movement and for holding a load.

8.1.1 Design

Bauer brakes are safety brakes with holding function. Braking torque is applied by spring force when the motor is de-energised. The brake releases electromagnetically when electric power is applied. The D.C. solenoid is designed for continuous operation (S1).
They are externally mounted on the motors. This design renders the brakes very easy to service (shorter outages for inspection). On D04, D05, D06 and D07 motors the brakes are mounted on the NDE bearing plate below the fan cowl; on D08 motors and larger they are mounted externally on the fan cowl. The externally mounted Bauer brakes can also be supplied with terminal boxes if required.

The brake rectifier needed for the AC connection and is assembled in the motor or brake terminal box.

8.1.2 Run-on tolerances

Run-on during actuation time t_A (see Table 8.1.3) is virtually independent of load and practically constant. This component can be relatively large, because almost full speed is maintained during the actuation time. The figures for t_A in the table are for interruption of the solenoid's d.c. circuit (see Operating Instructions), the recommended means of actuating the brake in applications benefitting from much reduced run-on and for lifting gear. It is important not to ignore the inherent delays and scatter of the switching devices. The run-on during braking time t_A depends on loading, the external mass moments of inertia and on the braking torque. As it is not possible to preclude fluctuation of the friction characteristics for reasons of physics, for safety reasons relatively large tolerances should be allowed for. We recommend a tolerance of +/- 25% for total run-on time and total run-on travel, this allows for all conditions such as load, temperature, response times of the switching devices and controllers.

8.1.3 Technical data of the brakes

Type	M_N Nm	t_{DC} ms	P_{el} W	W_{max} 10^3 J	W_{th} 10^3 J	W_L 10^6 J	M_{red} Nm
E003B9	3	15	20	1,5	36	55	2,2 / 1,5
E003B4	1,5	30	20	2,1	36	140	-
E004B9	5	15	30	2,5	60	50	4 / 2,8 / 2 / 1,4
E..008B9	10	10	30	50	250	60	8 / 6,5 / 5 / 3,5 / 2,5
E..008B5	5	15	30	50	250	180	3,5 / 2,5
Z..008B9	20	10	30	50	250	60	16 / 13 / 10 / 7
Z..015B9	40	10	45	50	350	470	34 / 27 / 22 / 16
Z..015B6	27	15	45	50	350	690	22 / 16
E..075B9	70	20	110	100	600	600	63 / 50 / 42 / 33 / 25 / 19
E..075B7	50	20	110	100	600	1200	42 / 33 / 25 / 19
Z..075B9	140	20	110	100	600	600	125 / 105 / 85 / 65 / 50 / 38
Z..075B7	105	20	110	100	600	1200	85 / 65 / 50 / 38
Z..100B9	200	50	120	150	700	1500	185 / 150 / 125 / 100 / 80 / 60
E500B9	500	80	150	100	700	1200	400 / 350 / 250 / 200
E500B8	400	90	150	110	700	1600	350 / 250 / 200

Larger brakes on request

M_N Rated brake torque

t_{DC} Response time for interruption of the brake's d.c. circuit through mechanical contact (if the brake's a.c. circuit is interrupted, the response time is increased for reasons of physics by at least ten times and is therefore not suitable for positioning drives)

P_{el} electrical power consumption of the solenoid coil

W_{max} Permissible switching work per braking operation

W_{th} Thermally permissible switching work per hour

W_L Permissible switching energy before the friction discs must be replaced at max. M_{Br}

M_{red} Settings for reduced braking torque (response times and permissible switching work on request)

8.1.4 Connection

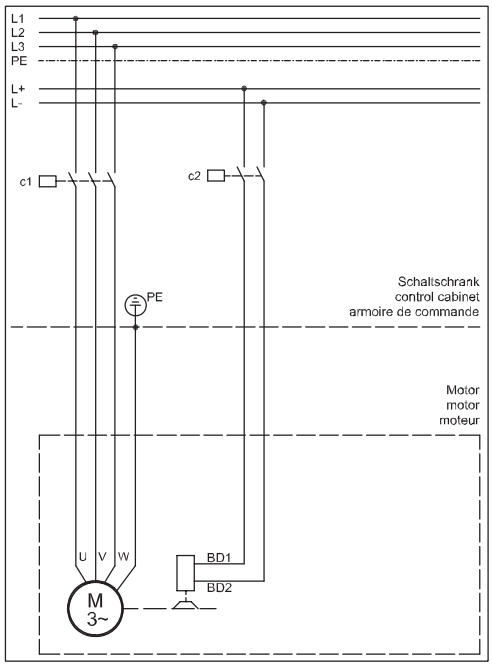
The brake connects to terminals or a rectifier in the motor terminal box. Standard voltages:

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 available at extra cost.

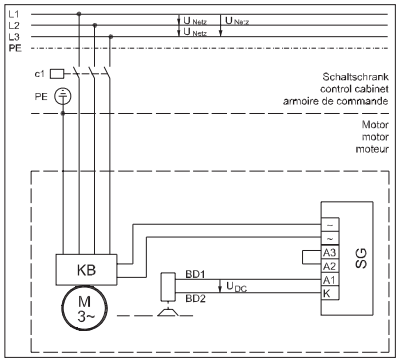
8.1.4.1 D.C. connection via terminal (K)

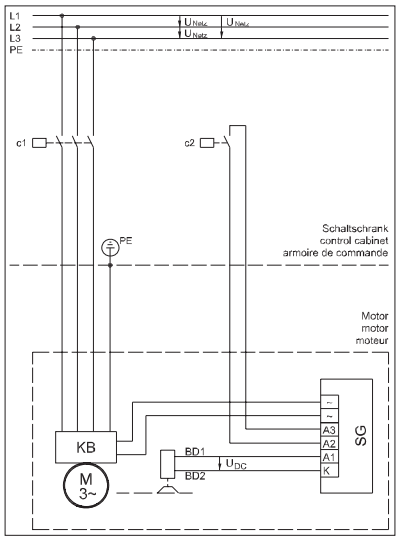
The brake must be connected directly to the DC supply via separate terminals in the motor terminal box or brake terminal box. The standard voltages are 180 V DC, 105 V DC and 24 V DC. Brakes for other voltages are available at extra cost.



8.1.4.2
Standard rectifier (S)

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.

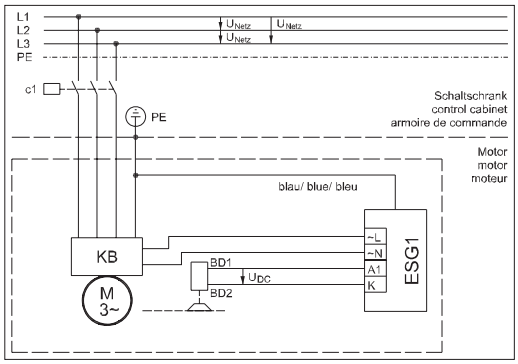




Voltage connection for the rectifier from the motor terminal block or cage clamp (see Rectifier Connection on Motor Terminal Block or Cage Clamp)

8.1.4.3
Rectifier for electronic rapid shutdown (E)

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.

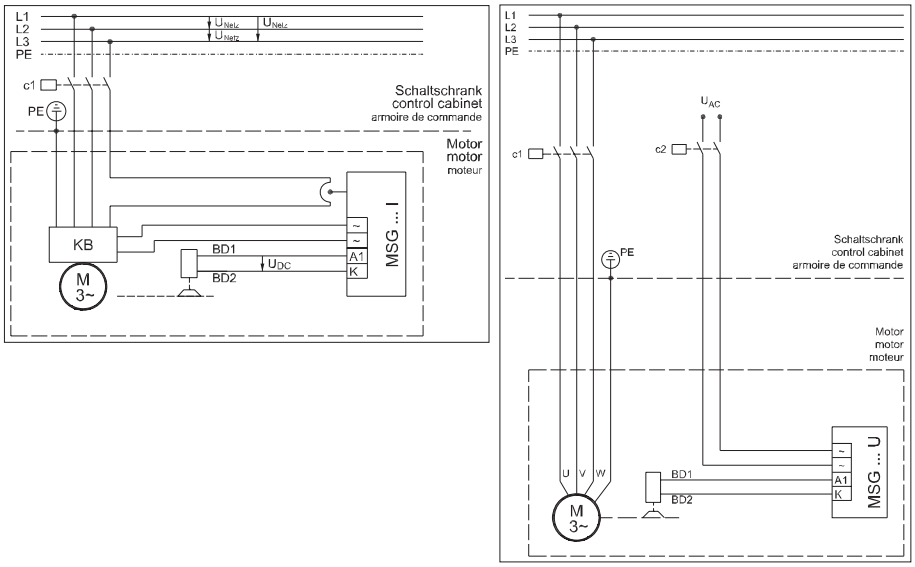


Voltage connection for the rectifier from the motor terminal block or cage clamp (see Rectifier Connection on Motor Terminal Block or Cage Clamp)

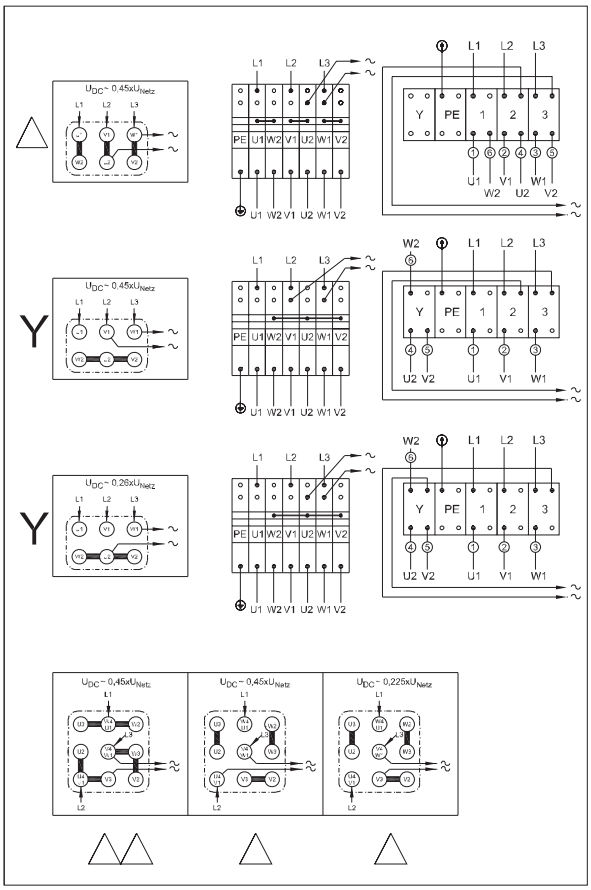
8

8.1.4.4
Rectifier for overexcitation and rapid shutdown (M)

In cases where there are high motor switching frequencies, the brake can be de-energised 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



8.1.5 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 seperate electrical connection. This is the reason why the brake is not connected to the motor terminals ex- works.

8.1.6 Brake connection, pole-changing motors

The brakes of pole-changing motors need a seperate electrical connection. As is the case with motors for operation with frequency inverters, the brake is not connected to the motor terminals ex-works.

8.1.7 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.

8.1.8 Degree of protection

All BAUER brakes comply with degree of protection IP 65.

8.1.9 Special corrosion protection

If high requirements for corrosion resistance apply, the brakes are available with two levels of enhanced corrosion protection:

CORO1 (C1): Finished with two-component paint to protect against chemically aggressive gases and vapours.

CORO2 (C2): Same finish as CORO1. The screws for the terminal-box cover are non- rusting steel. The mechanical internals of the brake are made of corrosion- proofed material.

8.1.10 CE mark

BAUER geared motors with externally mounted spring-loaded brakes bear the CE mark.

The brakes comply with:

- the **Machinery Directive (89/392/EC)**
  Manufacturer's declaration available on request
- the **Low-Voltage Directive (73/23/EC)**
  Documented by the CE mark
- the **EMC Directive (89/336/EC)**
  Documented by the CE mark

See BAUER special print SD33.. for more information.

8.1.11 Explosion protection

Brakes for use in hazardous areas are subject to special regulations. Please consult our support specialists in these special cases.

8.2 Back stop (RR, RL)

Motors of size D09 (1,1kW) up to D18 (30kW) 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 dimension sheet 9.5).

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.

8.3 Second motor shaft stub (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 9.6).

Motors with brakes are available on request with a second shaft stub extended through the brake.

8.4 Protective hood over 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 9.7).

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 fibres and fluff clogging the fan cowl.

8.5 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 Section 9.8 and 9.9).

The independent fans are supplied as standard with Bayonet-fitting for standard motors sizes D16 and D18 and brake motors sizes D11 to D18. Standard enclosure IP66.

Technical Data:
Multivolt Conception Running capacitor for single phase duty enclosed as standard.

Motor-type	Connection voltage-Forced Cooler (FV)	Pmax	Imax	Volume of air flow	
	V	W	A	m^3/h	dB(A)
D08	1 ~ 200 bis 277 V; 50/60 Hz	44	0,13		
	3 ~ 200 bis 290 V; 50/60 Hz	29	0,10	88	55
	3 ~ 346 bis 500 V; 50/60 Hz	29	0,05		
	3 ~ 575 V; 60 Hz	29	0,05		
D09	1 ~ 200 bis 277 V; 50/60 Hz	88	0,25		
	3 ~ 200 bis 290 V; 50/60 Hz	86	0,28	169	58
	3 ~ 346 bis 500 V; 50/60 Hz	82	0,16		
	3 ~ 575 V; 60 Hz	82	0,16		
D11	1 ~ 200 bis 277 V; 50/60 Hz	107	0,31		
	3 ~ 200 bis 290 V; 50/60 Hz	85	0,27	295	61
	3 ~ 346 bis 500 V; 50/60 Hz	82	0,15		
	3 ~ 575 V; 60 Hz	82	0,16		
D13	1 ~ 200 bis 277 V; 50/60 Hz	185	0,52		
	3 ~ 200 bis 290 V; 50/60 Hz	130	0,45	450	69
	3 ~ 346 bis 500 V; 50/60 Hz	138	0,24		
	3 ~ 575 V; 60 Hz	148	0,24		
D16	1 ~ 200 bis 277 V; 50/60 Hz	215	0,76		
D18	3 ~ 200 bis 290 V; 50/60 Hz	225	0,86	780	74
	3 ~ 346 bis 500 V; 50/60 Hz	230	0,43		
	3 ~ 575 V; 60 Hz	280	0,51		

8.6 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 optimised and suitable for use with all modern inverters.

Bauer standard encoders as from motor frame size D08 (0,55kW) are protected against mechanical damage by means of a protective cover (see 9.10 and 9.11).

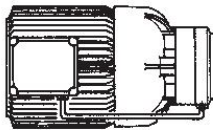
Special features: standard incremental encoder:

- Robust mount
- Degree of protection IP66
- 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

- Enclosure: IP66
- 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)

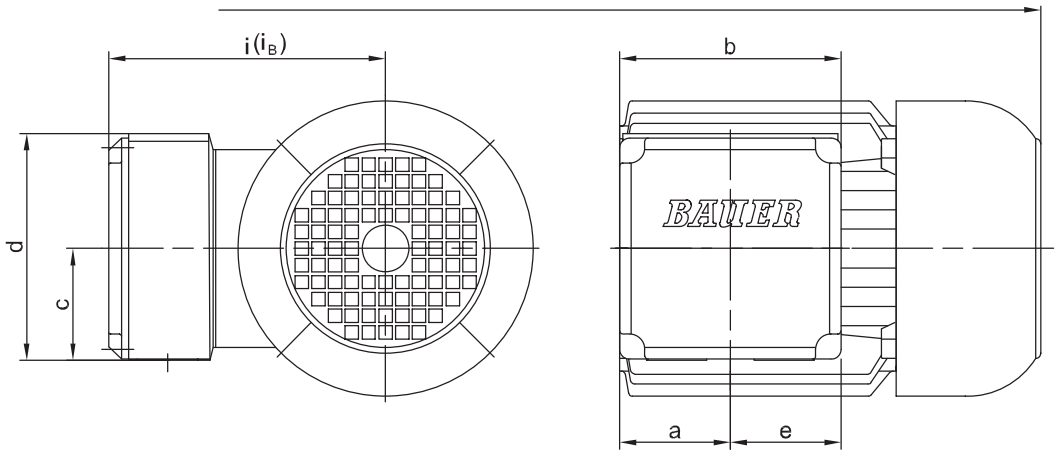
9 Additional dimensional drawings for motor-mounted components



In the following dimension sheets, the "standard length of drive unit" is shown. It is the length of the ventilated motor, without any motor extensions or 2nd shaft extensions in the standard dimension sheets in chapters 10.3, 11.3, 12.3 and 13.3 that is described in this case.

9.1 Dimensional drawing, standard terminal box

Normallänge der Antriebseinheit
Normal length of drive unit
Longueur normale de l'entrainement

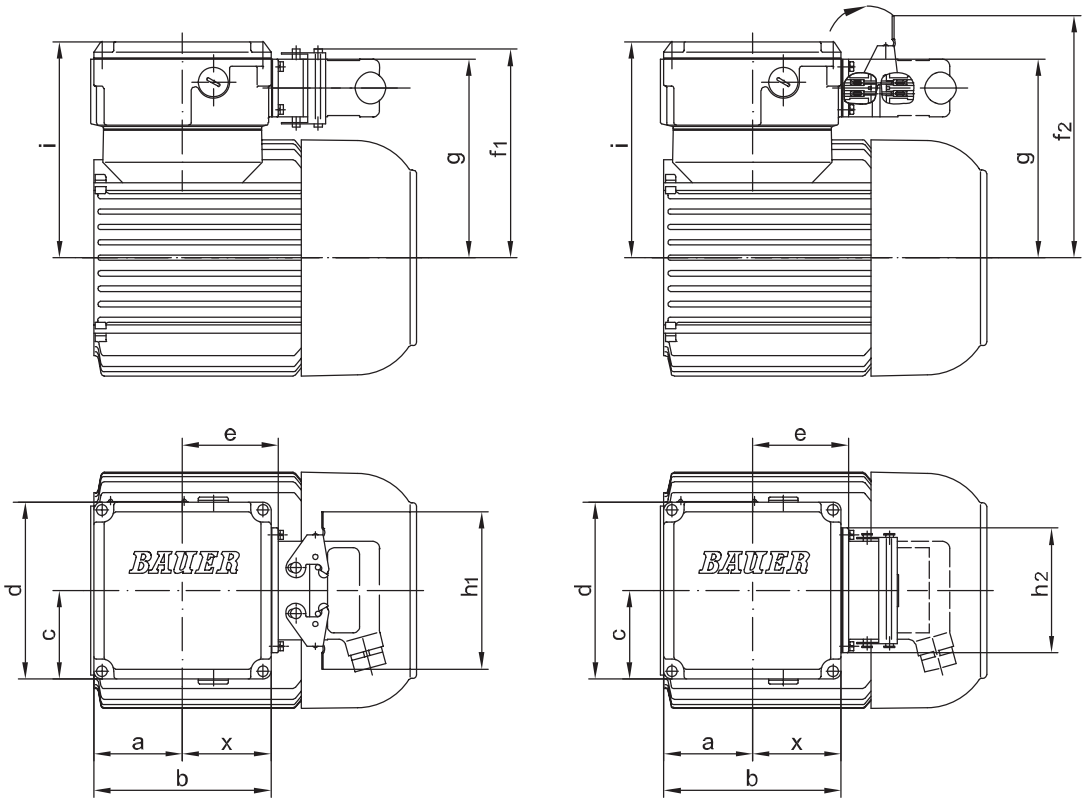


Motor Motor Moteur	Masse (mm) Dimensions (mm) Dimensions (mm)						Code Code Code	Kabeleinführung Cable entry Entrée de câbles Haupt/ Major/ principal (M) Neben/ Monir/ annexe (N)	max. Schlüsselweite für Kabelverschraubung max. wrench size for cable entry gland dimension de clé maxi pour presse-étoupe
	a	b	c	d	e	i			
D04..	42.5	88	44	88	44	90	KAG1	M=2xM20x1.5	24 mm
D05..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D06..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D07..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D08..	50	100	50	100	50	115	KAG2	M=2xM25x1.5	29 mm
D09..	50	100	50	100	50	124	KAG2	M=2xM25x1.5	29 mm
D11..	62	132	66.5	135	66	181	TB222	M=2xM32x1.5; N=2xM25x1.5	-
D13..	78	156	78.5	158	78	217	TB322	M=2xM40x1.5; N=2xM25x1.5	-
D16..	74	156	78.5	158	78	243	TB322	M=2xM40x1.5; N=2xM25x1.5	-
D18..	94	200	100.5	201	100	288	TB422	M=2xM50x1.5; N=2xM25x1.5	-
Motor mit Bremse Motor with Brake Moteur avec frein			Masse (mm) Dimensions (mm) Dimensions (mm)				Code Code Code	Kabeleinführung Cable entry Entrée de câbles Haupt/ Major/ principal (M) Neben/ Minor/ annexe (N)	max. Schlüsselweite für Kabelverschraubung max. wrench size for cable entry gland dimension de clé maxi pour presse-étoupe
	a	b	c	d	e	i_B			
D04..	42.5	88	44	88	44	90	KAG1	M=2xM20x1.5	24 mm
D05..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D06..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D07..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D08..	50	100	50	100	50	115	KAG2	M=2xM25x1.5	29 mm
D09..	50	100	50	100	50	124	KAG2	M=2xM25x1.5	29 mm
D11..	62	132	66.5	135	66	181	TB222	M=2xM32x1.5; N=2xM25x1.5	-
D13..	78	156	78.5	158	78	217	TB322	M=2xM40x1.5; N=2xM25x1.5	-
D16..	74	156	78.5	158	78	243	TB322	M=2xM40x1.5; N=2xM25x1.5	-
D18..	94	200	100.5	201	100	288	TB422	M=2xM50x1.5; N=2xM25x1.5	-

9.2 Dimensional drawing, plug-connector terminal box

Standardausführung (zwei Bügel)
Standard design (two brackets)
Exécution standard (deux verrouillages)

Option für DESINA (ein Bügel)
Optional for DESINA (one bracket)
Option pour DESINA (un verrouillage)

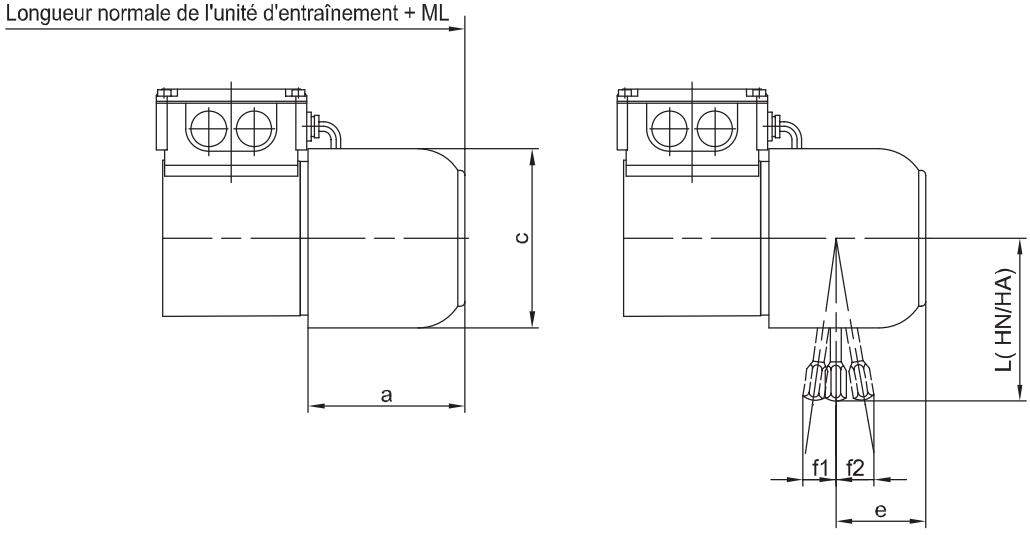


Motor Motor Moteur	Grösse Klemmenkasten Size of Terminalbox Boîte à bornes	a	b	c	d	e	f_1	f_2	g	h_1	h_2	i	x
D04	TBS1	30	90	52.5	106	49	118.5	147	111	117	93	124.5	46
D05	TBS1	57	90	52.5	106	49	123.5	152	116	117	93	129.5	46
D06	TBS1	45	90	52.5	106	49	125.5	154	118	117	93	131.5	46
D07	TBS1	45	90	52.5	106	49	125.5	154	118	117	93	131.5	46
D08	TBS1	45	90	52.5	106	49	143.5	172	136	117	93	149.5	46
D09	TBS2	62	132	66	135	71.5	158.5	187	158	117	93	164	68.5
D11	TBS2	62	132	66	135	71.5	175.5	191	166	117	93	181	68.5
D13	TBS3	78	156	78	158	83.5	199	227.5	191.5	117	93	216	79.5
D16	TBS3	74	156	78	158	83.5	225	253.5	225	117	93	242	79.5
D18	TBS4	94	200	100	201	105.5	257	299	257	117	93	287	100.5

9.3 Dimensional drawings, standard brakes without terminal box

9.3.1 Single-disc and below fan cowl E 003 - E 004

Normallänge der Antriebseinheit + ML
Normal length of drive unit + ML
Longueur normale de l'unité d'entraînement + ML

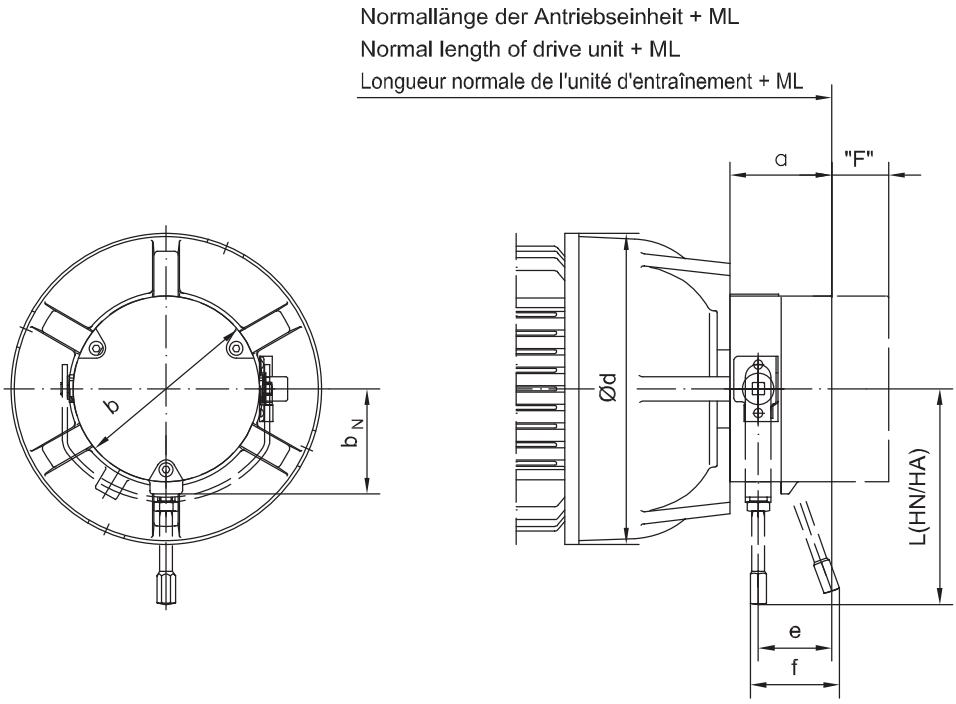


Motor Typ Motor Type Moteur Type	Bremse Typ Brake Type Frein Type	ML(mm) Mehrlänge mit Bremse ML(mm) Additional length with brake ML(mm) Longueur supplémentaire pour frein	Masse (mm) Dimensions (mm) Dimensions (mm)					
			a	c	e	f1	f2	L(HN/HA)
D04	E003	43.5	97	111	58.3	20.5	24	103
D05	E003	42	102	123	60	20.5	24	103
D06	E003	42	102	123	60	20.5	24	103
D07	E003/E004	42	102	123	58.5	20.5	24	108

HN = Handlüftung nicht arretierbar
HN = Manual release non-locking
HN = Déblocage manuel non maintenu

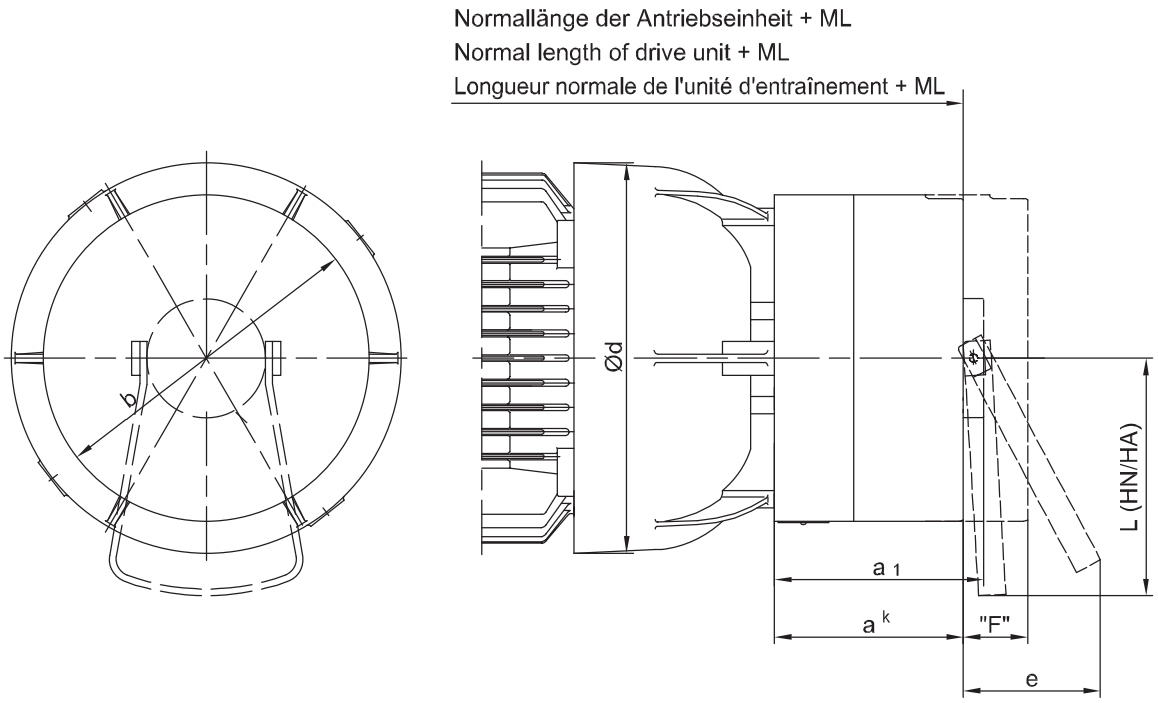
HA = Handlüftung arretierbar
HA = Manual release locking
HA = Déblocage manuel maintenu

9.3.2 Single-disc and double-disc brakes E008 - Z 015



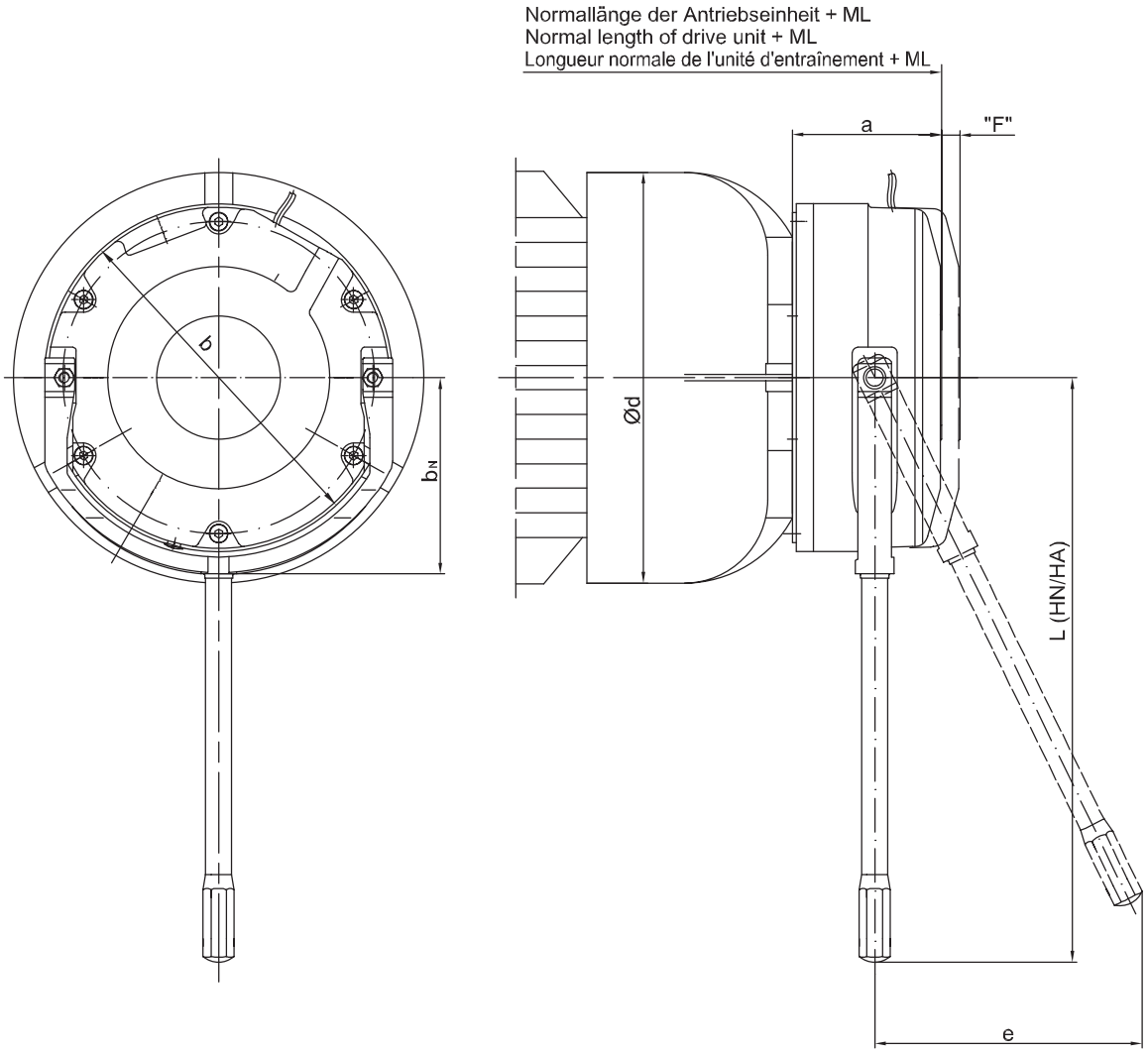
Motor / Motor / Moteur	Bremse / Brake / Frein	ML(mm) Mehrlänge mit Bremse / ML(mm) Additional length with brake / ML(mm) Longueur supplémentaire pour frein	Masse (mm) / Dimensions (mm) / Dimensions (mm)							Mehrgewicht / Add. weight / Poids suppl.	Freiraum zur Demontage der Bremse "F" / Free space for removing brake "F" / Dégagement pour démontage du frein "F"
			a	b	b_N	d	e	f	L	kg	
Einscheibenbremse / Single-disc brake / Frein monodisque											
D08	E008	74	63	115	65	166	45.5	57.5	156	5.5	30
D09	E008	78	63	115	65	192	45.5	57.5	156	5.5	30
Zweischeibenbremsen / Double-disc brakes / Freins bidisques											
D09	Z008	93	77	115	65	192	45.5	57.5	156	8.5	41
	Z015	101	83	131	76	192	49.5	64.5	175	10.5	41
D11	Z015	105	83	131	76	230	49.5	64.5	175	11	41

9.3.3 Single-disc and double-disc brakes E 075 - Z 100



Motor Motor Moteur	Bremse Brake Frein	ML(mm) Mehrlänge mit Bremse ML(mm) Additional length with brake ML(mm) Longueur supplémentaire pour frein	Masse (mm) Dimensions (mm) Dimensions (mm) a^k a_1 b d e L						Mehrgewicht Add. weight Poids suppl. kg	Freiraum zur Demontage der Bremse "F" Free space for removing brake "F" Dégagement pour démontage du frein "F"
Einscheibenbremse / Single-disc brake / Frein monodisque										
D11	E075	133	113	123	192	231	81	140	23	38
D13	E075	134	113	123	192	275	81	140	25	38
D16	E075	133	113	123	192	326	81	140	27	38
Zweischeibenbremsen / Double-disc brakes / Freins bidisques										
D13	Z075	154	133	143	192	275	81	140	31	53
D16	Z075	152	133	143	192	326	81	140	31	53
	Z100	171	152	162	242	326	81	140	47	58
D18	Z100	180	152	162	242	366	81	140	50	58

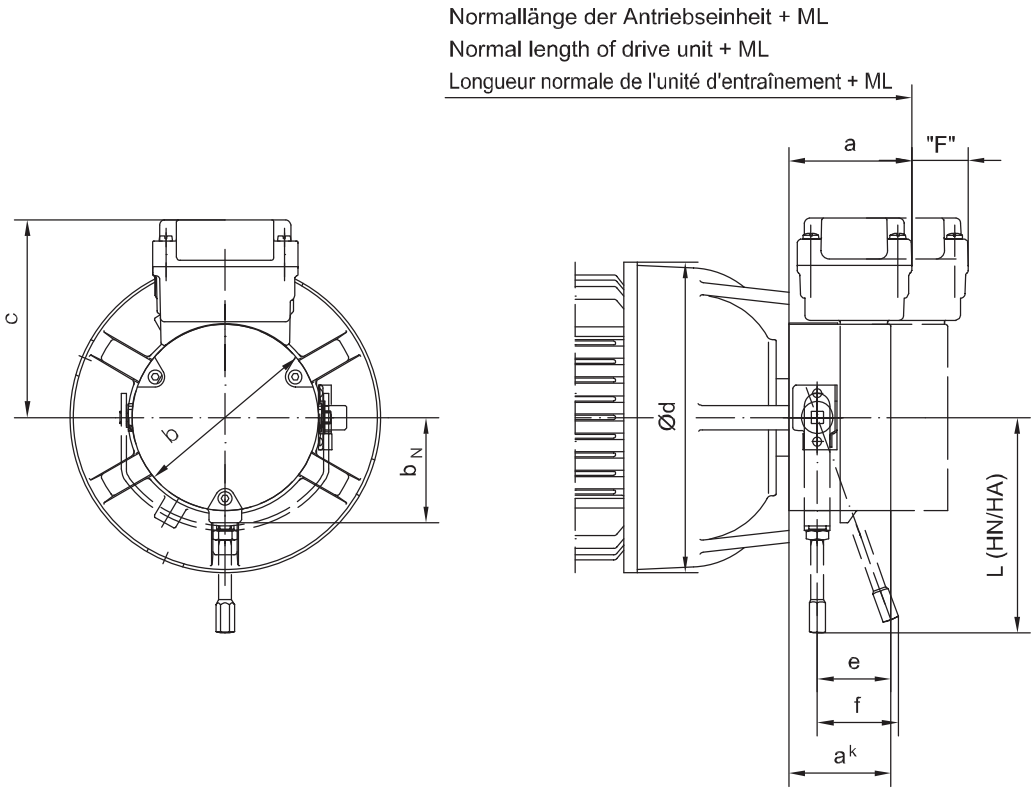
9.3.4 Single-disc brakes
E 500



Motor / Motor / Moteur	Bremse / Brake / Frein	ML(mm) Mehrlänge mit Bremse / ML(mm) Additional length with brake / ML(mm) Longueur supplémentaire pour frein	Masse (mm) / Dimensions (mm) / Dimensions (mm)						Mehrgewicht / Add. weight / Poids suppl.	Freiraum zur Demontage der Bremse "F" / Free space for removing brake "F" / Dégagement pour démontage du frein "F"
			a	b	b_N	d	e	L	kg	
D16	E500	152	133	310	175	326	239	521	40	40
D18	E500	161	133	310	175	366	239	521	40	40

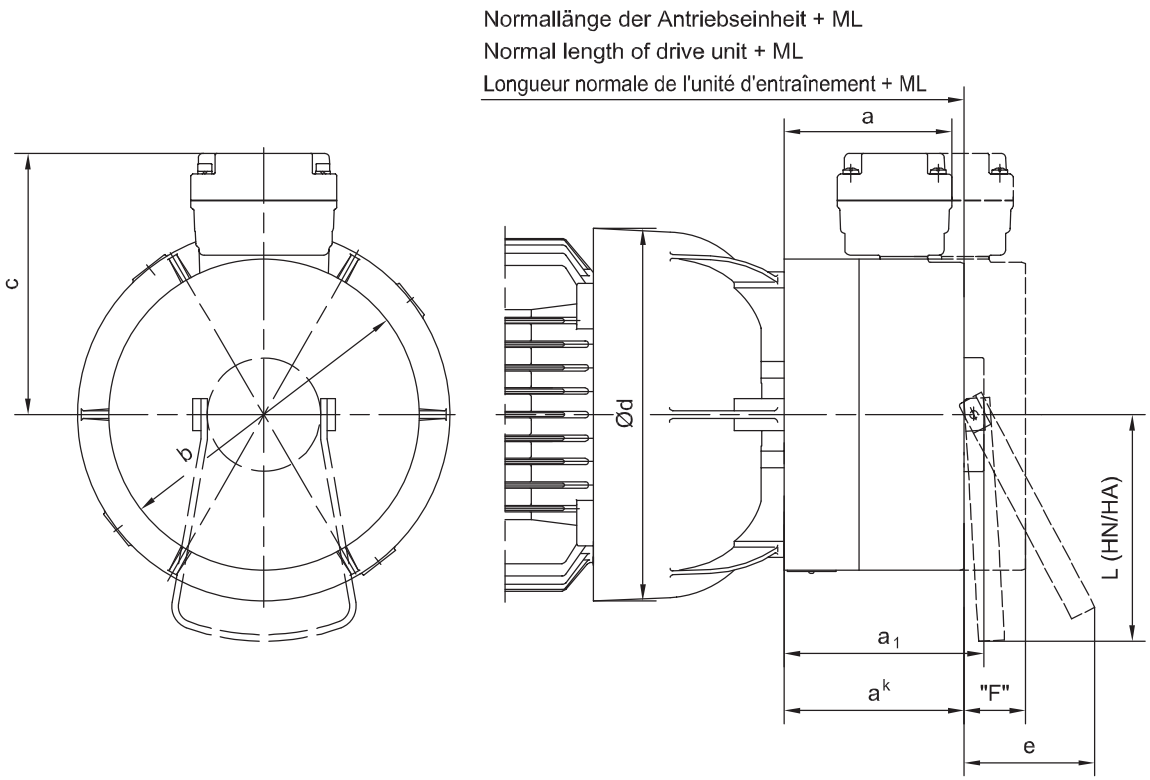
9.4 Dimensional drawings for brakes with terminal box

9.4.1 Single- and double-disc brakes with terminal box EK.008 - ZK.015



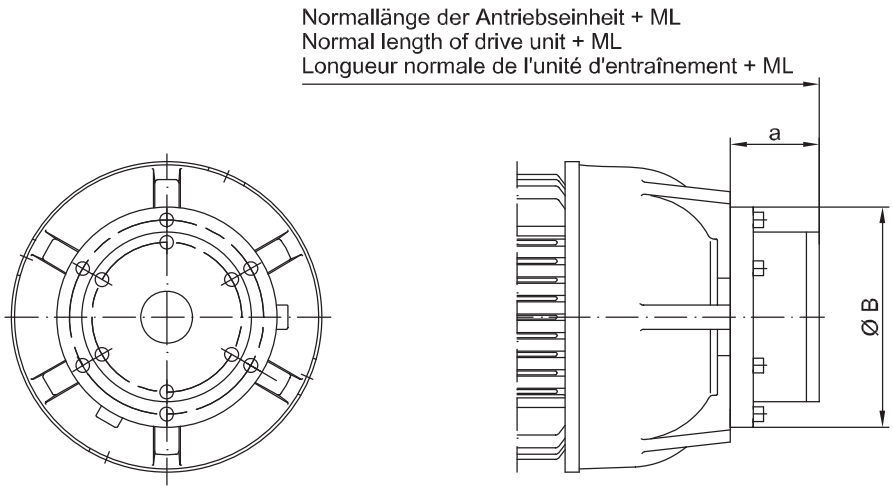
Motor / Motor / Moteur	Bremse / Brake / Frein	ML(mm) Mehrlänge mit Bremse / ML(mm) Additional length with brake / ML(mm) Longueur supplémentaire pour frein	Masse (mm) / Dimensions (mm) / Dimensions (mm)									Mehrgewicht / Add. weight / Poids suppl.	Freiraum zur Demontage der Bremse "F" / Free space for removing brake "F" / Dégagement pour démontage du frein "F"
			a	a^k	b	b_N	c	d	e	f	L	kg	
Einscheibenbremse / Single-disc brake / Frein monodisque													
D08	EK.008	87	76	63	115	65	123	166	45.5	57.5	156	6.5	30
D09	EK.008	92	76	63	115	65	123	192	45.5	57.5	156	6.5	30
Zweischeibenbremsen / Double-disc brakes / Freins bidisques													
D09	ZK.008	106	90	77	115	65	123	192	45.5	57.5	156	10.5	41
	ZK.015	108	92	83	131	76	136	192	49.5	64.5	175	12.5	41
D11	ZK.015	111	92	83	131	76	136	231	49.5	64.5	175	13	41

9.4.2 Single and double-disc brakes with terminal box EK.075 - ZK.100



Motor / Motor / Moteur	Bremse / Brake / Frein	ML(mm) Mehrlänge mit Bremse / ML(mm) Additional length with brake / ML(mm) Longueur supplémentaire pour frein	Masse (mm) / Dimensions (mm) / Dimensions (mm) a	a^k	a_1	b	c	d	e	L	Mehrgewicht / Add. weight / Poids suppl. kg	Freiraum zur Demontage der Bremse "F" / Free space for removing brake "F" / Dégagement pour démontage du frein "F"
Einscheibenbremse / Single-disc brake / Frein monodisque												
D11	EK.075	131	104	113	123	192	162	230	81	140	24	38
D13	EK.075	134	104	113	123	192	162	275	81	140	26	38
D16	EK.075	133	104	113	123	192	162	326	81	140	28	38
Zweischeibenbremsen / Double-disc brakes / Freins bidisques												
D13	ZK.075	150	123	133	143	192	162	275	81	140	32	53
D16	ZK.075	152	123	133	143	192	162	326	81	140	34	53
	ZK.100	171	133	152	162	242	188	326	81	140	50	58
D18	ZK.100	180	133	152	162	242	188	366	81	140	52	58

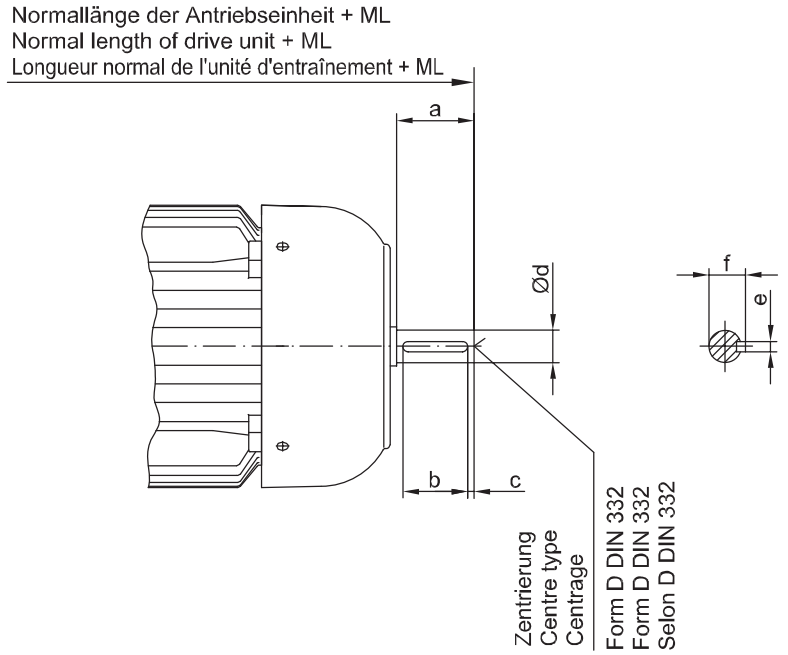
9.5 Dimensional drawing, motor with back stop



Motor Motor Moteur	ML (mm) Mehrlänge mit Rücklaufsperre ML (mm) Add. length with backstop ML (mm) Longueur suppl. pour moteur dispositif d'irréversibilité	Masse (mm) Dimensions (mm) Dimensions (mm)		Mehrgewicht Add. weight Poids suppl.
		a	b	kg
D09	71	55	136	6
D11	74	55	136	7.5
D13	81	60	190	13
D16	79	60	190	15
D18	88	60	190	17

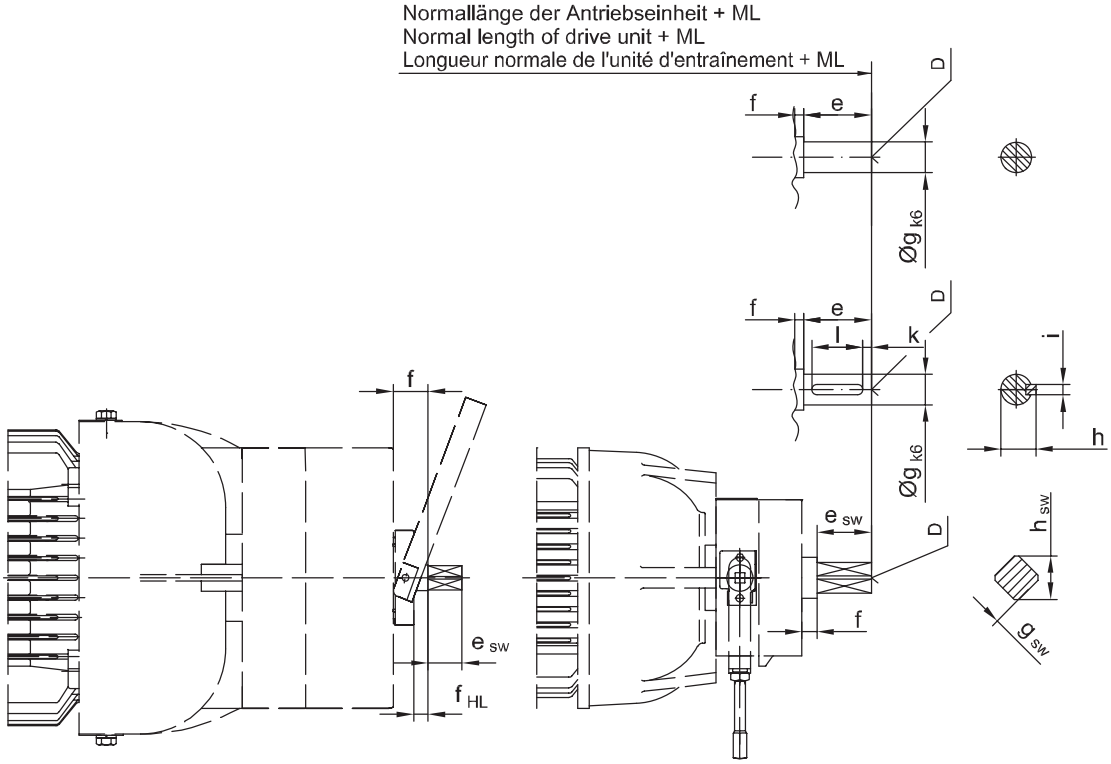
9.6 Dimensional drawing, motor with second shaft end

9.6.1 Standard motors with second shaft end



Motor Motor Moteur	ML(mm) Mehrlänge bei zweitem Wellenende ML(mm) Add. length with second shaft extension ML(mm) Longueur suppl. pour bout d'arbre primaire dépassant	Masse (mm) Dimensions (mm) Dimensions (mm)						Zentrierung Centre Centrage
		a	b	c	d	e	f	DIN 332
D04	20	15	-	-	8 g6	-	-	-
D05	25	20	-	-	10 k6	-	-	-
D06	25	20	-	-	10 k6	-	-	-
D07	25.5	20	-	-	10 k6	-	-	-
D08	45	40	30	5	16 k6	5	18	D 5
D09	55	50	40	5	20 k6	6	22.5	D 5
D11	65	60	50	5	25 k6	8	28	D 8
D13	85	80	60	10	35 k6	10	38	D 12
D16	115	110	90	10	40 k6	12	43	D 16
D18	115	110	90	10	45 k6	14	48.5	D 16

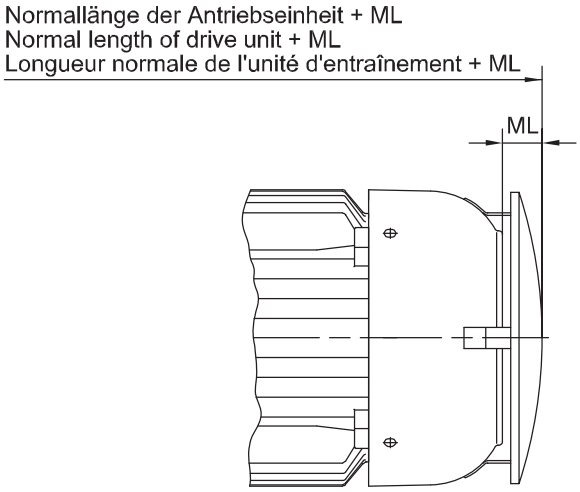
9.6.2 Motors with brake and second shaft end



Motor Motor Moteur	Bremse Brake Frein	Mehrlänge (mm) Additional length Longueur supplémentaire		Masse (mm) Dimensions (mm) Dimensions (mm)											Zentrierung D 332 Centre D DIN332 Centrage D DIN332	
		ML	ML_{SW}	e	e_{SW}	f	f_{HL}	g	g_{SW}	h	h_{SW}	i	k	l		SW
D04	E003	63	-	15	-	5	-	8	-	-	-	-	-	-	-	-
D05	E003	63	-	20	-	5	-	10	-	-	-	-	-	-	-	-
D06	E003	63	-	20	-	5	-	10	-	-	-	-	-	-	-	-
D07	E003	63	-	20	-	5	-	10	-	-	-	-	-	-	-	-
D07	E004	63	-	20	-	5	-	10	-	-	-	-	-	-	-	-
D08	E008	133.5	108.5*	50	25*	9	-	18	SW14*	20.5	18*	6	5	40	D6	D4*
D09	E008	138	127*	50	25*	9	-	18	SW14*	20.5	18*	6	5	40	D6	D4*
	Z008	152	127*	50	25*	9	-	18	SW14*	20.5	18*	6	5	40	D6	D4*
	Z015	152	127*	50	25*	5	-	18	SW14*	20.5	18*	6	5	40	D6	D4*
D11	E075	196.5*	171.5	50*	25	14	1**	20*	SW14	22.5*	18	6*	5*	40*	D6*	D4
D13	Z075	229*	209	60*	40	15	2**	28*	SW22	31*	29	8*	5*	50*	D10*	D10
D16	Z075	227*	207	60*	40	15	2**	28*	SW22	31*	29	8*	5*	50*	D10*	D10
D18	Z100	255.5*	235.5	60*	40	15	2**	28*	SW22	31*	29	8*	5*	50*	D10*	D10
D18	E500	226*	206	60*	40	5	-	30*	SW22	33*	28	8*	5*	50*	D10*	D10

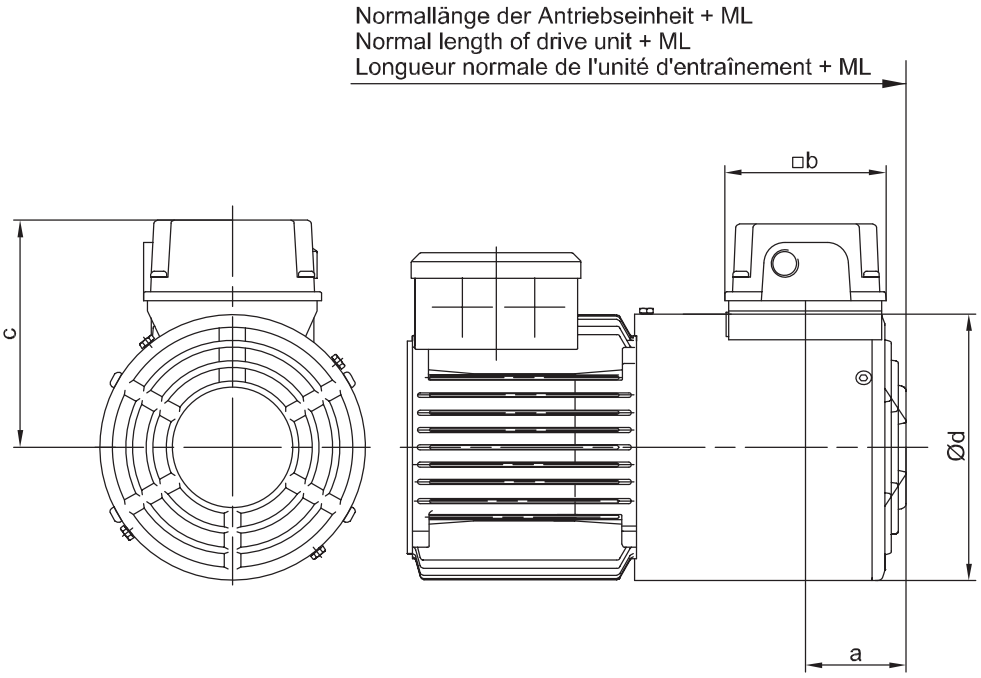
* Sonderausführung / special design / Équipement spécial
** mit Handlüftung / with manual release / avec Déblocage manuel

9.7 Dimensional drawing, motor with second shaft end



Motor Motor Moteur	ML(mm) Mehrlänge bei angebauter Schutzhaube ML(mm) Add. length with attached protective cover ML(mm) Longueur suppl. pour capot protecteur	Mehrgewicht Add. weight Poids suppl. kg
D06	18	0.12
D07	18	0.12
D08	20	0.14
D09	22	0.18
D11	29	0.30
D13	30	0.58
D16	47	1.76
D18	54	5.5

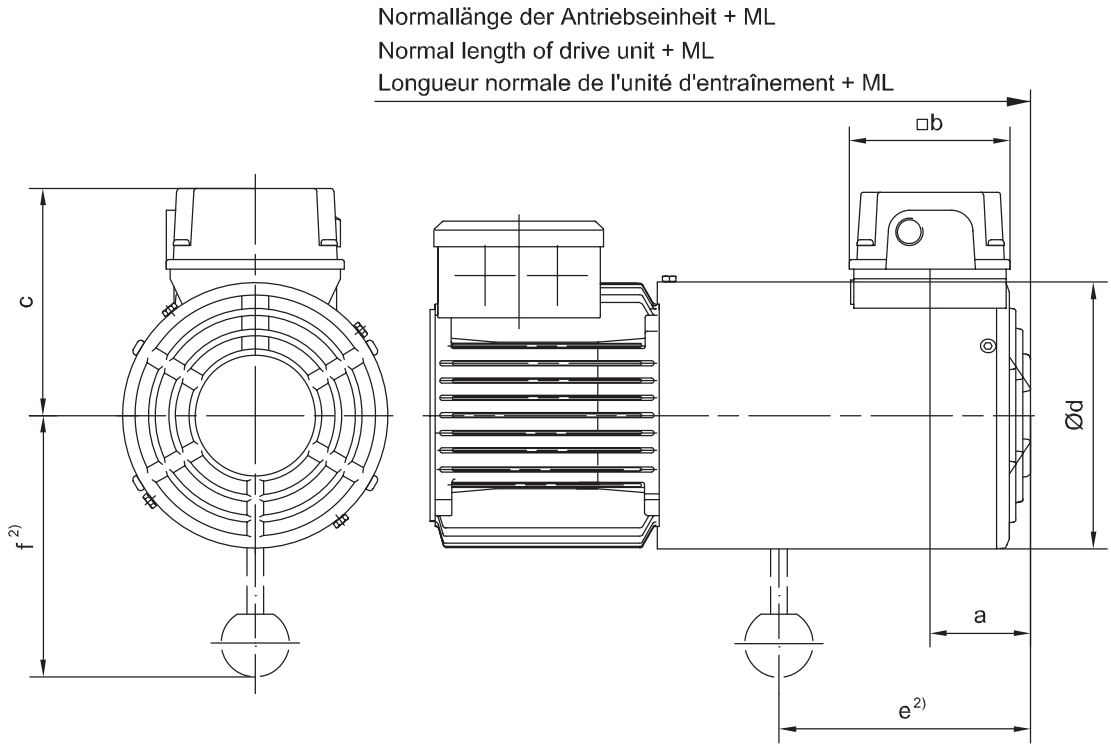
9.8 Dimensional drawing, motor with independent fan



Antriebs-motor	Lüfter-motor			400 V	ML(mm) Mehrlänge Fremdlüfter	Masse (mm)				Mehrgewicht
Drive Motor	Fan Motor				ML(mm) Additional length forced vent.	Dimensions (mm)				Add. weight
Moteur principal.	Moto-ventilateur				ML(mm) Longueur suppl. pour motor-ventilateur auxiliaire	Dimensions (mm)				Poids suppl.
Typ/ Type	Typ/ Type	kW	r/min	A		a	b	c	d	~ kg
D08	FV D08	0.019	2670	0.029	92	69.5	95	131.5	157	2.2
D09	FV D09	0.046	2820	0.106	97	69.5	95	141.5	176	2.7
D11	FV D11	0.051	2660	0.110	99	79.5	95	162.5	219	3.2
D13	FV D13	0.073	2820	0.169	122	78.8	95	182	258	4.6
D16*	FV D16	0.154	2760	0.347	146	78.8	95	208.5	311	6.4
D18*	FV D18	0.154	2760	0.347	358	78.8	95	208.5	348	8.4

* mit Bajonettverschluss / bayonet joint / Montage à baïonnette

9.9 Dimensional drawing, motor with brake and independent fan



Motor / Motor / Moteur	Bremse / Brake / Frein	ML(mm) 1) Mehrlänge bei angebauter Bremse und Fremdlüfter / Additional length with attached brake and forced ventilation / Longueur suppl. pour frein + motoventilateur auxiliaire	Masse (mm) / Dimensions (mm) / Dimensions(mm)						Mehrgewi / Add. weigl / Poids sup
			a	b	c	d	e 2)	f 2)	~kg
D08	E008	152	59	95	131.5	157	210	134	2.6
D09	E/Z008	254	69.5	95	141.5	176	271 / 257	133 / 133	3.3
	Z015						257	175	
D11 ✳	Z015	301	69.5	95	162.5	219	288	175	4.0
	E075						-	-	
D13 ✳	E/Z075	315	79.5	95	182	258	272 / 252	225	5.7
D16 ✳	E/Z075	374	78.8	95	208.5	311	329 / 309	225	7.9
	Z100						308	250	
D18 ✳	Z100	358	78.8	95	208.5	348	302	250	10.9
	E500						-	-	

✳ mit Bajonettverschluss / bayonet joint / avec Montage à baionette.

1) Die Mehrlänge bezieht sich auf das normale Motorteil ohne Bremse. Übrige Maße siehe jeweiliges Standard-Maßbild.

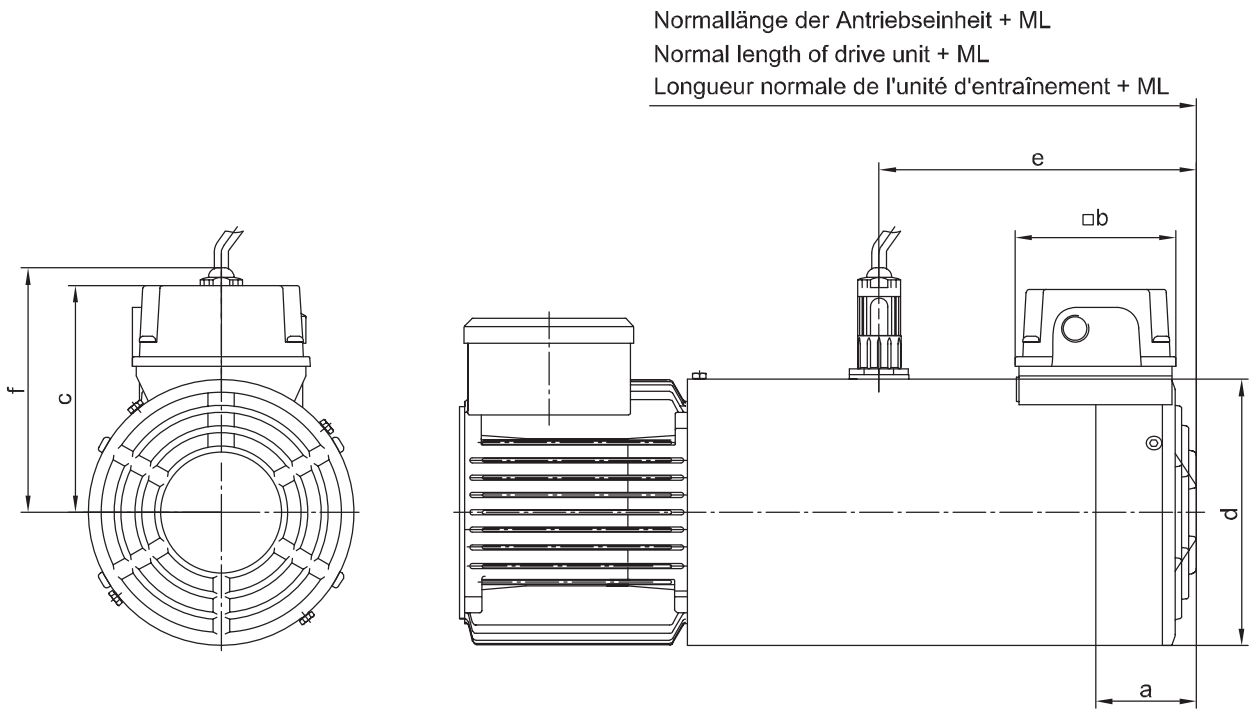
1) The additional length is for normal motor unit without brake. Other dimensions see the appropriate normal dimensioned sketch

1) La longueur suppl. s'entend, par rapport au moteur normal sans frein. Pour les autres cotes, consulter le croquis coté avec moteur standard.

2) Handlüftung auf Anfrage

2) Brake release on request

9.9.1 Dimensional drawing, motor with encoder with built-on independent fan



Motor Motor Moteur	ML(mm)[1] Mehrlänge bei angebauter Geber und Fremdlüfter ML(mm)[1] Additional length with attached encoder and forced ventilation ML(mm)[1] Longueur suppl. pour codeur + motoventilateur auxiliaire	Maße (mm) Dimensions (mm) Cotes (mm)						Mehrgewicht Add. weight Poids suppl.
		a	b	c	d	e	f	~ kg
D08	232	59	95	131.5	157	187	144	2.6
D09	254	69.5	95	141.5	176	192	153.5	3.3
D11 ✳	301	69.5	95	162.5	219	192	-	4.0
D13 ✳	315	79.5	95	182	258	217	-	5.7
D16 ✳	374	78.8	95	208.5	311	252	-	7.9
D18 ✳	358	78.8	95	208.5	348	267	-	10.9

✳ mit Bajonettverschluss / bayonet joint / Montage à baïonnette

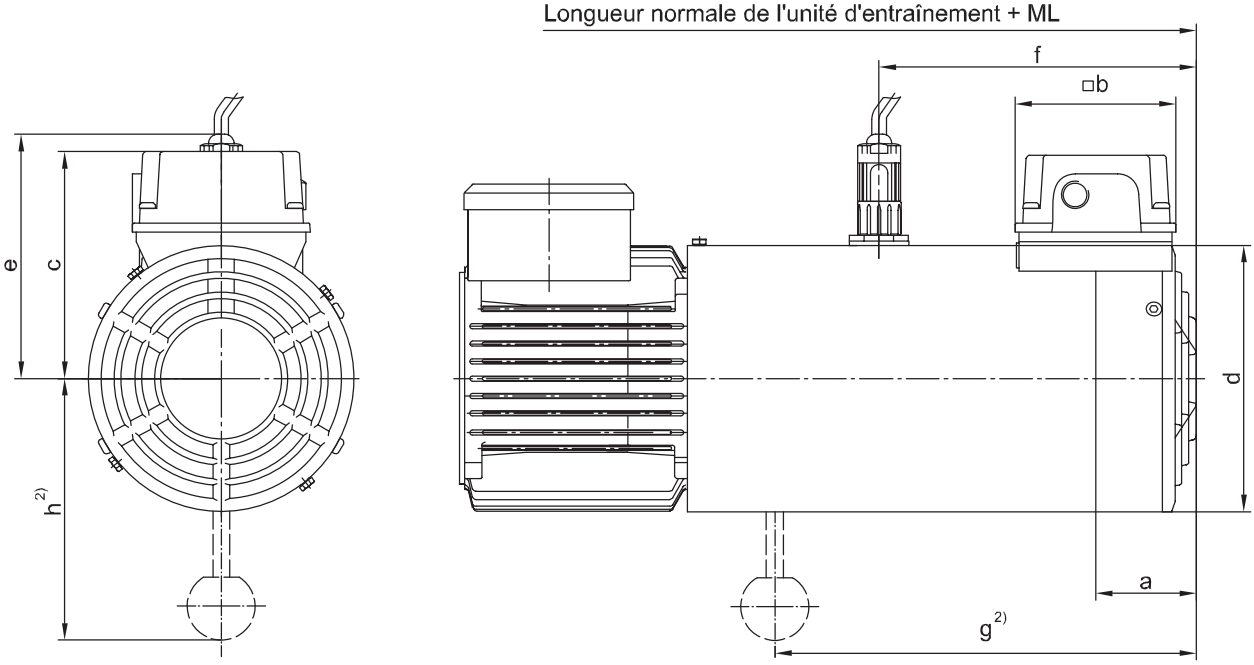
1) Die Mehrlänge bezieht sich auf das normale Motorteil ohne Bremse. Übrige Maße siehe jeweiliges Standard-Massbild.

1) The additional length is for normal motor unit without brake. Other dimensions see the appropriate normal dimensioned sketch

1) La longueur suppl. s'entend, par rapport au moteur normal sans frein. Pour les autres cotes, consulter le croquis coté avec moteur standard.

9.9.2 Dimensional drawing, motor with brake and encoder with built-on independent fan

Normallänge der Antriebseinheit + ML
Normal length of drive unit + ML
Longueur normale de l'unité d'entraînement + ML



Motor / Motor / Moteur	Bremse / Brake / Frein	ML(mm) 1) Mehrlänge bei angebauter Bremse, Geber und Fremdlüfter / ML(mm) 1) Additional length with attached brake, encoder and forced ventilation / ML(mm) 1) Longueur suppl. pour frein, codeur + motoventilateur auxiliaire	Maße (mm) / Dimensions (mm) / Cotes (mm)								Mehrgewicht / Add. weight / Poids suppl.
			a	b	c	d	e	f	g 2)	h 2)	~ kg
D08	E008	232	59	95	131.5	157	144	187.5	210	156	2.6
D09	E/Z008 Z015	254	69.5	95	141.5	176	153.5	192	271 / 257 257	156 / 156 175	3.3
D11✳	Z015 E075	301	69.5	95	162.5	219	-	192	288 -	175 -	4.0
D13✳	E/Z075	315	79.5	95	182	258	-	217	272 / 252	225	5.7
D16✳	E/Z075 Z100	374	78.8	95	208.5	311	-	252	329 / 309 308	225 250	7.9
D18✳	Z100 E500	358	78.8	95	208.5	348	-	267	302 -	250 -	10.9

✳ mit Bajonettverschluss / bayonet joint / Montage à baïonnette

1) Die Mehrlänge bezieht sich auf das normale Motorteil ohne Bremse. Übrige Maße siehe jeweiliges Standard-Massbild.

1) The additional length is for normal motor unit without brake. Other dimensions see the appropriate normal dimensioned sketch

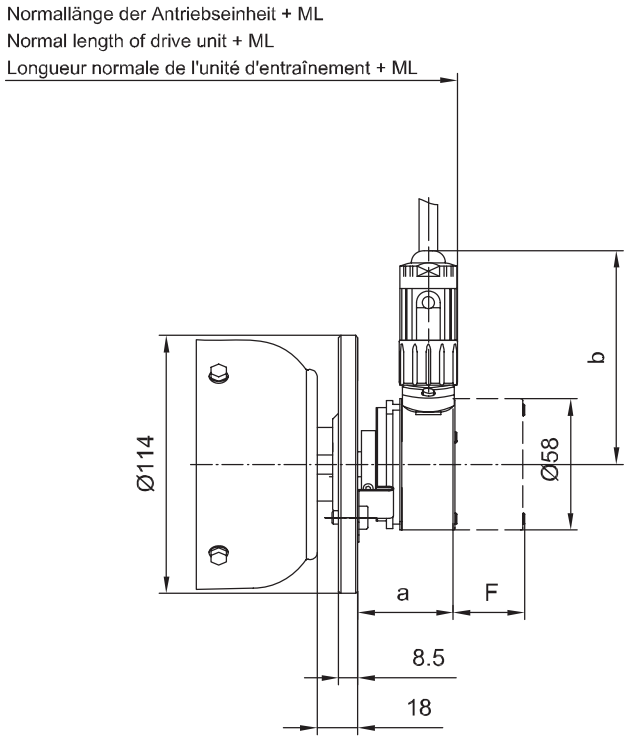
1) La longueur suppl. s'entend, par rapport au moteur normal sans frein. Pour les autres cotes, consulter le croquis coté avec moteur standard.

2) Handlüftung auf Anfrage

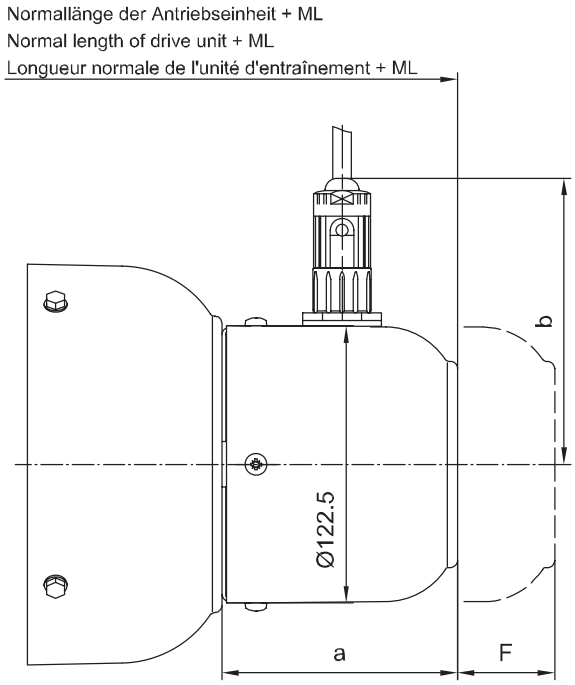
2) Brake release on request

2) Déblocaque manuel sur demande

9.10 Dimensional drawing, motor with encoder



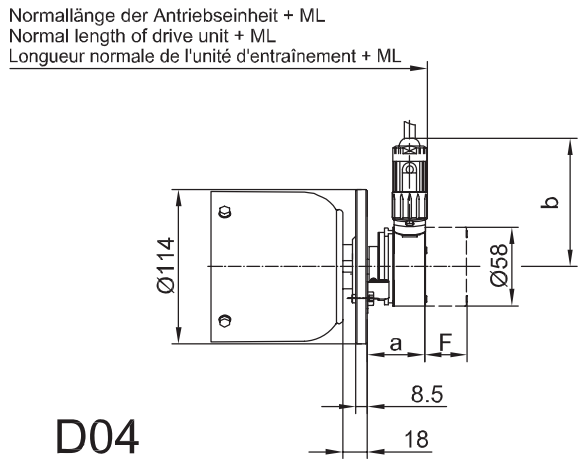
D04



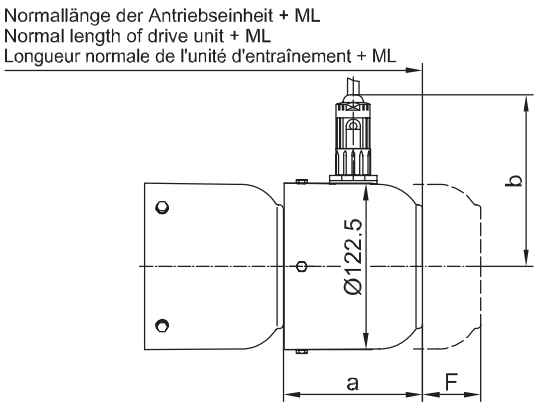
D05-D18

Motor / Motor / Moteur	ML(mm) Mehrlänge mit Geber / ML(mm) Additional length with encoder / ML(mm) Longueur supplémentaire pour codeur	Maße (mm) / Dimensions (mm) / Cotes (mm)				Mehrgewicht / Add. weight / Poids suppl.	Freiraum zur Demontage des Tachos "F" / Free space for removing encoder "F" / Dégagement pour démontage du codeur "F"	
		Inkrementalgeber incremental encoder codeur incremental Fa. Kübler Typ 5820		Absolutwertgeber absolute encoder codeur absolut Fa. TR Typ CS58-M			Inkrementalgeber incremental encoder codeur incremental Fa. Kübler Typ 5820	Absolutwertgeber absolute encoder codeur absolut Fa. TR Typ CS58-M
		a	b	a	b	kg		
D04	62.5	43.5	95	69.5	109.5	0.7	30	55
D05	103	98.5	127	98.5	127	0.9	63	88
D06								
D07								
D08	107	107.5		107.5			41	66
D09		104		104		0.8	43	68
D11								
D13								
D16	108							
D18								

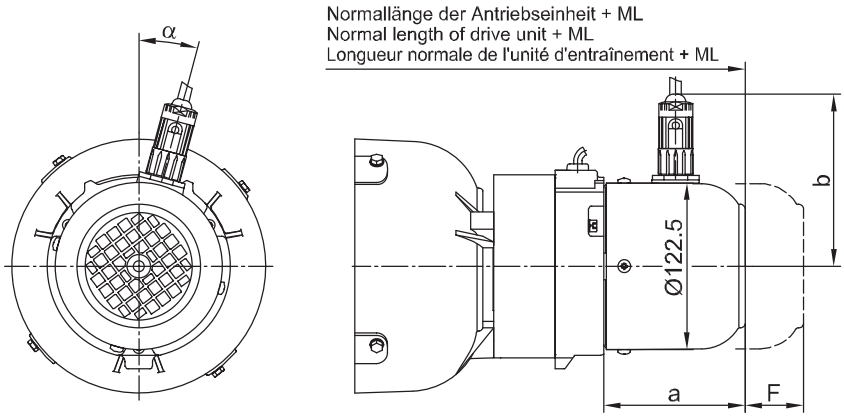
9.11 Dimensional drawing, motor with brake and encoder



D04



D05-D07

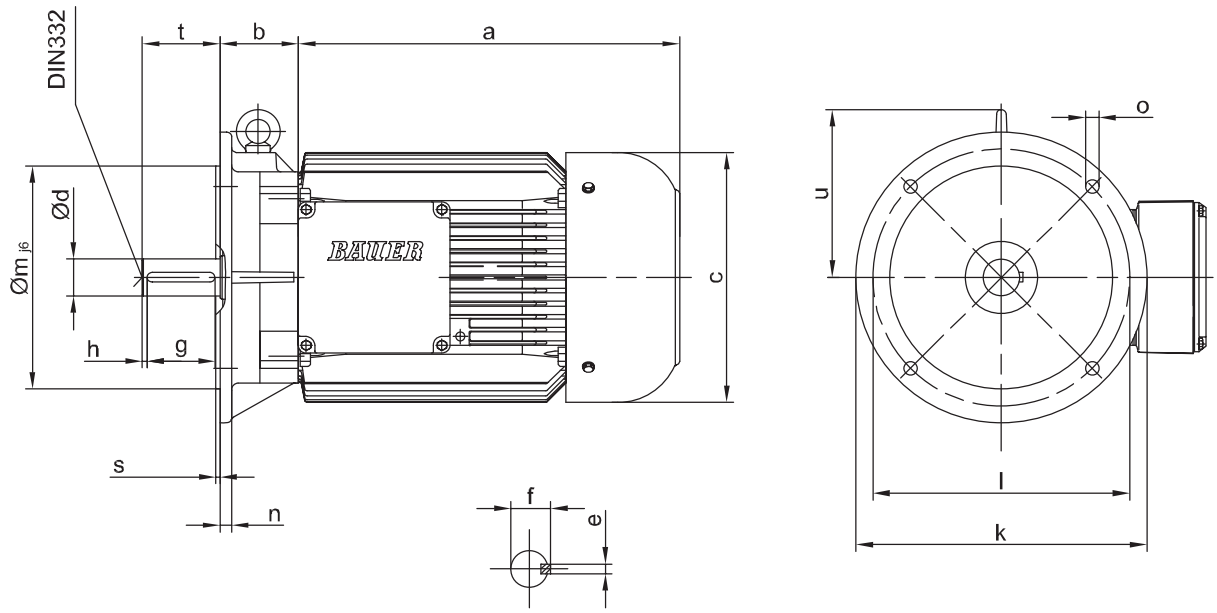


D08-D18

Motor Motor Moteur	Bremse Brake Frein	ML(mm) Mehrlänge mit Geber und Bremse ML(mm) Additional length with encoder and brake ML(mm) Longueur supplémentaire pour codeur + pour frein	Maße (mm) Dimensions (mm) Cotes (mm) Inkrementalgeber incremental encoder codeur incremental Fa. Kübler Typ 5820 a	b	Absolutwertgeber absolute encoder codeur absolut Fa. TR Typ CS58-M a	b	Position des Kabels (°) Position of cable (°) Position du cable (°) α	Mehrgewicht Add. weight Poids suppl. kg	Freiraum zur Demontage des Tachos "F" Free space for removing encoder "F" Dégagement pour démontage du codeur "F" Inkrementalgeber incremental encoder codeur incremental Fa. Kübler Typ 5820	Absolutwertgeber absolute encoder codeur absolut Fa. TR Typ CS58-M
D04	E003	105.5	43.5	95	69.5	109.5	0	0.7	30	55
D05		145	103	127	103	127		0.9	63	88
D06										
D07	E003 E004									
D08	E008	179	104	127	104	127	15	0.8	44	69
D09	E008, Z008 Z015	183.5, 197 203					0		48 48	73 73
D11	Z015 E075	207 235							44 67	69 92
D13	E075, Z075	236.5, 256							67	92
D16	E075, Z075 Z100	235, 254.5 273.5							67 44	92 69
D18	Z100 E500	282.5 265							44	69

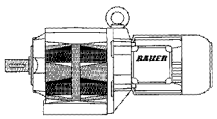
9

9.12 Dimensional drawing, motor in IEC design



Motor Motor Moteur	Masse(mm) Dimensions(mm) Dimensions(mm)																Zentrierung Centre Centrage
	a	b	c	d	e	f	g	h	k	l	m	n	o	s	t	u	DIN 332
D06	170	45	123	11_{j6}	4	12.8	18	2.5	140	115	95	9	10	2.75	23	-	D4
D07	190	45	123	11_{j6}	4	12.8	18	2.5	140	115	95	9	10	2.75	23	-	D4
D08	200	49	156	19_{j6}	6	21.8	35	2.5	200	165	130	10	12	3.5	40	-	D4
D09	251	66	176	24_{j6}	8	27.3	40	5	200	165	130	10	12	3.5	50	128.5	D6
D11	319	75	218	28_{j6}	8	31.3	50	5	250	215	180	11	14.5	4	60	145.5	D8
D13	393	81	266	38_{k6}	10	41.3	70	5	300	265	230	12	14	4	80	173	D12

10 BG-series helical-geared motors



10.1 Description of helical-geared units

10.1.1 Sizes

Bauer BG-series helical-geared 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.

10.1.2 Bauer service factors (f_B) for helical- geared 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 *service factors*. 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/MN), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

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

10.1.2.1
Continuous operation without switchingfrequency Z ≤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

10.1.2.2
Switching duty

Factor f_2 for shock classification and switching frequency

Switching frequency in single-shift operation t_d ≤8 h/d

Shock classification	1 <Z ≤100	100 <Z ≤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 ≤100	100 <Z ≤1000	1000 <Z
I	1,3	1,45	1,5
II	1,5	1,6	1,65
III	1,75	1,8	1,8

10.1.2.3
DV-series wide-voltage motors and energy-saving motors (eff 1)

Factors f_1 and f_2 must be increased according to shock classification:

Shock classification I	x 1,2
Shock classification II	x 1,5
Shock classification III	x 1,8

10.1.2.4
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 $f_B = f_2 = 1.5$

10.1.2.5
Explanation of shock classification

Shock classification I:
Uniform without shock loads. All the following requirements must be satisfied:
- FI ≤1,3
- M/MN ≤1,0
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, φ N≥ 5°)

Shock classification II:
Moderate shock loads. At least one of the following conditions applies:
- 1,3 <FI ≤4
- 1 <M/MN ≤1,6
- Shock-neutral power transmission components (e.g. gear wheels, zero- play rigid coupling or resilient coupling with φ N <5°)

Shock classification III:
Heavy shock loads. At least one of the following conditions applies:
- FI >4
- 1,6 <M/MN ≤2,0
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

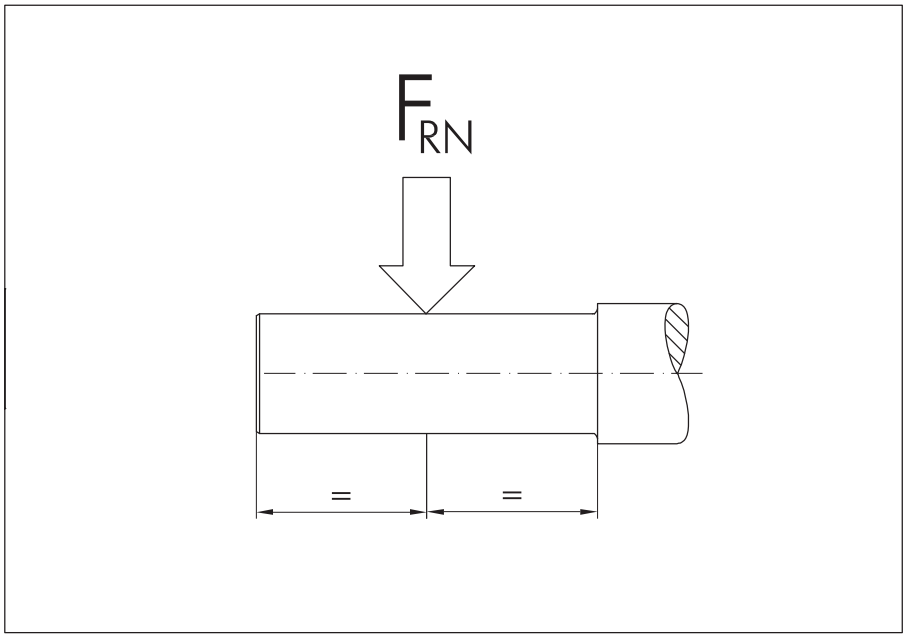
10.1.2.6
Key to abbreviations

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/M_N	Relative torque in relation to the rated torque
φ_N	Torsional offset of the resilient coupling under rated torque

10.2 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)

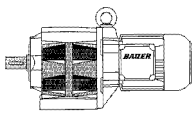


Use the selection tables to determine the size of geared motor required. The codes clearly define the type of gear (see dimensional drawing).

The torques marked (*) are maximum permissible torques for service factor f_B=1,0.

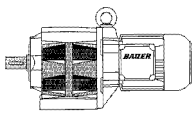
Motor power overload protection
Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect 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).

P = 0.03 kW



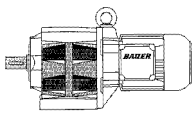
50 Hz			i	Type	m	F_{RN}	F_{RV}	60Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**0.53**	**7.5**	2.51	**BG04-../D04LA4**	4.4	340	-	650	0.44	9.1
370	**0.77**	**6.5**	3.65	"	"	390	-	445	0.64	7.8
310	**0.92**	**7.6**	4.39	"	"	380	-	370	0.77	9.1
255	**1.12**	**8.0**	5.36	"	"	380	-	305	0.93	9.7
205	**1.39**	**7.2**	6.67	"	"	410	-	245	1.16	8.6
158	**1.81**	**6.1**	8.58	"	"	410	-	189	1.51	7.3
150	**1.91**	**6.3**	9.00	"	"	470	-	180	1.59	7.5
137	**2.05**	**6.3**	9.90	"	"	480	-	164	1.74	7.5
125	**2.25**	**6.2**	10.82	"	"	480	-	150	1.91	7.3
114	**2.5**	**6.0**	11.90	"	"	490	-	137	2.05	7.3
108	**2.65**	**5.7**	12.55	"	"	490	-	130	2.2	6.8
103	**2.75**	**5.8**	13.20	"	"	500	-	123	2.3	7.0
93	**3.05**	**5.6**	14.52	"	"	510	-	112	2.55	6.7
83	**3.45**	**5.2**	16.44	"	"	530	-	99	2.85	6.3
75	**3.8**	**4.7**	18.08	"	"	540	-	90	3.15	5.7
64	**4.45**	**4.3**	21.12	"	"	560	-	77	3.7	5.1
59	**4.85**	**4.1**	23.23	"	"	600	-	70	4.05	4.9
56	**5.1**	**3.9**	24.45	"	"	610	-	67	4.25	4.7
51	**5.6**	**3.6**	26.89	"	"	650	-	61	4.65	4.3
44	**6.5**	**3.1**	30.91	"	"	690	-	53	5.4	3.7
40	**7.1**	**2.8**	34.00	"	"	720	-	48	5.9	3.4
38.5	**7.4**	**2.7**	35.35	"	"	730	-	46	6.2	3.2
35	**8.1**	**2.5**	38.89	"	"	750	-	42	6.8	2.9
32	**8.9**	**2.2**	42.24	"	"	750	-	38.5	7.4	2.7
29.5	**9.7**	**2.1**	46.47	"	"	750	-	35	8.1	2.5
28.5	**10**	**2.0**	47.52	"	"	750	-	34.5	8.3	2.4
26	**11**	**1.8**	52.28	"	"	750	-	31	9.2	2.2
25	**11.4**	**1.75**	54.97	"	"	750	-	29.5	9.7	2.1
22.5	**12.7**	**1.55**	60.47	"	"	750	-	27	10.6	1.9
31	**9.2**	**3.3**	43.57	**BG05-../D04LA4**	5.1	900	-	37.5	7.6	3.9
29	**9.8**	**3.1**	47.00	"	"	930	-	34.5	8.3	3.6
26.5	**10.8**	**2.8**	51.27	"	"	970	-	32	8.9	3.4
25.5	**11.2**	**2.7**	53.44	"	"	980	-	30.5	9.3	3.2
23.5	**12.1**	**2.5**	58.30	"	"	1000	-	28	10.2	2.9
20.5	**13.9**	**3.2**	66.79	**BG06-../D04LA4**	6.1	1070	-	24.5	11.6	3.9
18	**13.8**	**2.9**	75.99	**BG06G04-../D04LA4**	8.4	1070	-	21.5	11.2	3.6
16.5	**15**	**2.9**	82.89	"	"	1070	-	20	12	3.6
15	**16.5**	**2.7**	93.00	"	"	1070	-	17.5	13.8	3.3
13.5	**18.4**	**2.4**	101.5	"	"	1070	-	16	15.1	3.0
11.5	**21**	**2.1**	122.0	"	"	1070	-	13.5	17.3	2.6
9.1	**26**	**1.75**	149.0	"	"	1070	-	11	21	2.1
7.3	**33.5**	**1.35**	185.4	"	"	1070	-	8.8	26.5	1.7
5.4	**46**	**0.98**	250.2	"	"	1070	-	6.5	37	1.2
5.0	**50**	**0.9**	275.2	"	"	1070	-	5.9	41	1.1
4.1	**45***	**1.0**	330.8	"	"	1070	-	4.9	45	1.0
3.7	**45***	**1.0**	367.0	"	"	1070	-	4.5	45	1.0
3.0	**45***	**1.0**	457.0	"	"	1070	-	3.6	45	1.0
2.7	**45***	**1.0**	502.6	"	"	1070	-	3.3	45	1.0
2.3	**45***	**1.0**	587.1	"	"	1070	-	2.8	45	1.0
2.1	**45***	**1.0**	645.8	"	"	1070	-	2.6	45	1.0
1.9	**45***	**1.0**	747.5	"	"	1070	-	2.2	45	1.0
1.6	**45***	**1.0**	859.3	"	"	1070	-	1.9	45	1.0
1.5	**45***	**1.0**	945.2	"	"	1070	-	1.8	45	1.0
1.3	**45***	**1.0**	1081	"	"	1070	-	1.5	45	1.0
1.2	**45***	**1.0**	1174	"	"	1070	-	1.4	45	1.0
1.1	**45***	**1.0**	1321	"	"	1070	-	1.3	45	1.0
0.9	**45***	**1.0**	1528	"	"	1070	-	1.1	45	1.0
0.85	**45***	**1.0**	1681	"	"	1070	-	1.0	45	1.0
0.7	**45***	**1.0**	1948	"	"	1070	-	0.85	45	1.0
0.65	**45***	**1.0**	2126	"	"	1070	-	0.8	45	1.0
0.6	**45***	**1.0**	2435	"	"	1070	-	0.7	45	1.0

P = 0.03 kW



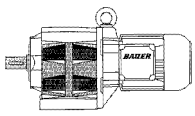
50 Hz			i	Type	m	F_{RN}	F_{RV}	60Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
7.4	**38.5**	**3.1**	184.0	**BG10Z-../D04LA4**	11	2000	2800	8.9	32	3.8
7.0	**40.5**	**3.0**	194.6	"	"	2000	2800	8.4	34	3.5
6.3	**45**	**2.7**	215.7	"	"	2000	2800	7.6	37.5	3.2
5.7	**50**	**2.4**	240.4	"	"	2000	2800	6.8	42	2.9
5.1	**56**	**2.1**	266.3	"	"	2000	2800	6.1	46.5	2.6
4.9	**58**	**2.1**	276.0	"	"	2000	2800	5.9	48.5	2.5
4.5	**63**	**1.9**	305.8	"	"	2000	2800	5.3	54	2.2
3.6	**49**	**2.7**	379.6	**BG10G06-../D04LA4**	14	2000	2800	4.3	36	3.6
3.1	**57**	**2.3**	435.9	"	"	2000	2800	3.8	40	3.3
2.7	**68**	**1.9**	512.6	"	"	2000	2800	3.2	51	2.5
2.3	**83**	**1.55**	613.6	"	"	2000	2800	2.7	65	2.0
1.9	**105**	**1.25**	748.9	"	"	2000	2800	2.2	84	1.55
1.6	**130**	**1.0**	899.5	"	"	2000	2800	1.9	102	1.25
1.3	**130***	**1.0**	1081	"	"	2000	2800	1.5	130	1.0
1.1	**130***	**1.0**	1272	"	"	2000	2800	1.3	130	1.0
0.9	**130***	**1.0**	1523	"	"	2000	2800	1.1	130	1.0
0.75	**130***	**1.0**	1863	"	"	2000	2800	0.9	130	1.0
0.6	**130***	**1.0**	2356	"	"	2000	2800	0.7	130	1.0
0.55	**130***	**1.0**	2699	"	"	2000	2800	0.65	130	1.0
0.46	**130***	**1.0**	2944	"	"	2000	2800	0.6	130	1.0
0.4	**130***	**1.0**	3378	"	"	2000	2800	0.48	130	1.0
0.37	**130***	**1.0**	3684	"	"	2000	2800	0.44	130	1.0
0.31	**130***	**1.0**	4477	"	"	2000	2800	0.37	130	1.0
0.28	**130***	**1.0**	4884	"	"	2000	2800	0.34	130	1.0
2.5	**77**	**2.9**	550.6	**BG20G06-../D04LA4**	17	5000	-	3.0	58	3.8
2.1	**95**	**2.3**	671.9	"	"	5000	-	2.5	73	3.0
1.7	**125**	**1.75**	807.1	"	"	5000	-	2.1	93	2.4
1.4	**160**	**1.4**	969.9	"	"	5000	-	1.7	123	1.8
1.2	**188**	**1.15**	1142	"	"	5000	-	1.5	141	1.55
1.0	**230**	**0.96**	1366	"	"	5000	-	1.2	186	1.2
0.85	**220***	**1.0**	1672	"	"	5000	-	1.0	220	1.0
0.75	**220***	**1.0**	1824	"	"	5000	-	0.9	220	1.0
0.65	**220***	**1.0**	2114	"	"	5000	-	0.8	220	1.0
0.6	**220***	**1.0**	2422	"	"	5000	-	0.7	220	1.0
0.55	**220***	**1.0**	2642	"	"	5000	-	0.65	220	1.0
0.45	**220***	**1.0**	3031	"	"	5000	-	0.55	220	1.0
0.41	**220***	**1.0**	3306	"	"	5000	-	0.5	220	1.0
0.34	**220***	**1.0**	4017	"	"	5000	-	0.41	220	1.0
0.31	**220***	**1.0**	4383	"	"	5000	-	0.37	220	1.0
2.0	**101**	**3.2**	690.6	**BG30G06-../D04LA4**	21	6000	-	2.4	77	4.2
1.8	**116**	**2.8**	760.7	"	"	6000	-	2.2	87	3.7
1.7	**124**	**2.6**	829.5	"	"	6000	-	2.0	98	3.3
1.4	**158**	**2.1**	996.8	"	"	6000	-	1.7	122	2.7
1.3	**173**	**1.9**	1088	"	"	6000	-	1.5	143	2.3
1.1	**205**	**1.6**	1280	"	"	6000	-	1.3	166	1.95
1.0	**230**	**1.4**	1404	"	"	6000	-	1.2	184	1.75
0.8	**295**	**1.1**	1718	"	"	6000	-	0.95	240	1.35
0.75	**320**	**1.0**	1875	"	"	6000	-	0.9	255	1.25
0.65	**325***	**1.0**	2173	"	"	6000	-	0.75	325	1.0
0.5	**325***	**1.0**	2715	"	"	6000	-	0.6	325	1.0
0.44	**325***	**1.0**	3115	"	"	6000	-	0.55	325	1.0
0.4	**325***	**1.0**	3398	"	"	6000	-	0.48	325	1.0
0.35	**325***	**1.0**	3867	"	"	6000	-	0.42	325	1.0
0.3	**325***	**1.0**	4504	"	"	6000	-	0.36	325	1.0

P = 0.04 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**0.7**	**5.7**	2.51	**BG04-../D04LA4**	4.4	340	-	650	0.58	6.9
370	**1.03**	**4.9**	3.65	"	"	390	-	445	0.85	5.9
310	**1.23**	**5.7**	4.39	"	"	380	-	370	1.03	6.8
255	**1.49**	**6.0**	5.36	"	"	380	-	305	1.25	7.2
205	**1.86**	**5.4**	6.67	"	"	410	-	245	1.55	6.5
158	**2.4**	**4.6**	8.58	"	"	410	-	189	2.0	5.5
150	**2.5**	**4.8**	9.00	"	"	470	-	180	2.1	5.7
137	**2.75**	**4.7**	9.90	"	"	480	-	164	2.3	5.7
125	**3.05**	**4.6**	10.82	"	"	480	-	150	2.5	5.6
114	**3.35**	**4.5**	11.90	"	"	490	-	137	2.75	5.5
108	**3.5**	**4.3**	12.55	"	"	490	-	130	2.9	5.2
103	**3.7**	**4.3**	13.20	"	"	500	-	123	3.1	5.2
93	**4.1**	**4.1**	14.52	"	"	510	-	112	3.4	5.0
83	**4.6**	**3.9**	16.44	"	"	530	-	99	3.85	4.7
75	**5.0**	**3.6**	18.08	"	"	540	-	90	4.2	4.3
64	**5.9**	**3.2**	21.12	"	"	560	-	77	4.95	3.8
59	**6.4**	**3.1**	23.23	"	"	600	-	70	5.4	3.7
56	**6.8**	**2.9**	24.45	"	"	610	-	67	5.7	3.5
51	**7.4**	**2.7**	26.89	"	"	650	-	61	6.2	3.2
44	**8.6**	**2.3**	30.91	"	"	690	-	53	7.2	2.8
40	**9.5**	**2.1**	34.00	"	"	720	-	48	7.9	2.5
38.5	**9.9**	**2.0**	35.35	"	"	730	-	46	8.3	2.4
35	**10.9**	**1.85**	38.89	"	"	750	-	42	9.0	2.2
32	**11.9**	**1.7**	42.24	"	"	750	-	38.5	9.9	2.0
29.5	**12.9**	**1.55**	46.47	"	"	750	-	35	10.9	1.85
28.5	**13.4**	**1.5**	47.52	"	"	750	-	34.5	11	1.8
26	**14.6**	**1.35**	52.28	"	"	750	-	31	12.3	1.65
25	**15.2**	**1.3**	54.97	"	"	750	-	29.5	12.9	1.55
22.5	**16.9**	**1.2**	60.47	"	"	750	-	27	14.1	1.4
39	**9.7**	**3.1**	35.00	**BG05-../D04LA4**	5.1	810	-	46.5	8.2	3.7
35.5	**10.7**	**2.8**	38.18	"	"	850	-	42.5	8.9	3.4
34	**11.2**	**2.7**	39.94	"	"	860	-	41	9.3	3.2
31	**12.3**	**2.4**	43.57	"	"	900	-	37.5	10.1	3.0
29	**13.1**	**2.3**	47.00	"	"	930	-	34.5	11	2.7
26.5	**14.4**	**2.1**	51.27	"	"	970	-	32	11.9	2.5
25.5	**14.9**	**2.0**	53.44	"	"	980	-	30.5	12.5	2.4
23.5	**16.2**	**1.85**	58.30	"	"	1000	-	28	13.6	2.2
27	**14.1**	**3.2**	50.38	**BG06-../D04LA4**	6.1	940	-	32.5	11.7	3.8
26	**14.6**	**3.1**	52.56	"	"	950	-	31	12.3	3.7
24	**15.9**	**2.8**	57.34	"	"	1000	-	28.5	13.4	3.4
22.5	**16.9**	**2.7**	61.22	"	"	1020	-	26.5	14.4	3.1
20.5	**18.6**	**2.4**	66.79	"	"	1070	-	24.5	15.5	2.9
18	**19.1**	**2.1**	75.99	**BG06G04-../D04LA4**	8.4	1070	-	21.5	15.6	2.6
16.5	**20.5**	**2.1**	82.89	"	"	1070	-	20	16.8	2.6
15	**22.5**	**2.0**	93.00	"	"	1070	-	17.5	19.2	2.3
13.5	**25.5**	**1.75**	101.5	"	"	1070	-	16	21	2.1
11.5	**29**	**1.55**	122.0	"	"	1070	-	13.5	24	1.9
9.1	**36.5**	**1.25**	149.0	"	"	1070	-	11	29.5	1.55
7.3	**46.5**	**0.97**	185.4	"	"	1070	-	8.8	37.5	1.2
10.5	**36**	**3.3**	131.8	**BG10Z-../D04LA4**	11	2000	2800	12.5	30.5	3.9
9.3	**41**	**2.9**	146.0	"	"	2000	2800	11.5	33	3.6
8.2	**46.5**	**2.6**	166.0	"	"	2000	2800	9.8	38.5	3.1
7.4	**51**	**2.4**	184.0	"	"	2000	2800	8.9	42.5	2.8
7.0	**54**	**2.2**	194.6	"	"	2000	2800	8.4	45	2.7
6.3	**60**	**2.0**	215.7	"	"	2000	2800	7.6	50	2.4
5.7	**67**	**1.8**	240.4	"	"	2000	2800	6.8	56	2.1
5.1	**74**	**1.6**	266.3	"	"	2000	2800	6.1	62	1.95
4.9	**77**	**1.55**	276.0	"	"	2000	2800	5.9	64	1.9
4.5	**84**	**1.45**	305.8	"	"	2000	2800	5.3	72	1.65

P = 0.04 kW

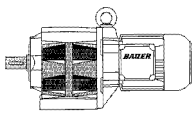


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
4.1	**60**	**2.2**	332.0	**BG10G06-../D04LA4**	14	2000	2800	4.9	45.5	2.9
3.6	**75**	**1.75**	379.6	"	"	2000	2800	4.3	58	2.2
3.1	**88**	**1.5**	435.9	"	"	2000	2800	3.8	65	2.0
2.7	**103**	**1.25**	512.6	"	"	2000	2800	3.2	81	1.6
2.3	**125**	**1.05**	613.6	"	"	2000	2800	2.7	100	1.3
1.9	**155**	**0.84**	748.9	"	"	2000	2800	2.2	128	1.0
6.1	**62**	**3.2**	222.1	**BG20Z-../D04LA4**	13	5000	-	7.3	52	3.8
3.9	**69**	**3.2**	352.1	**BG20G06-../D04LA4**	17	5000	-	4.7	52	4.2
3.5	**77**	**2.9**	391.1	"	"	5000	-	4.2	59	3.7
3.0	**93**	**2.4**	460.0	"	"	5000	-	3.6	71	3.1
2.5	**116**	**1.9**	550.6	"	"	5000	-	3.0	90	2.4
2.1	**141**	**1.55**	671.9	"	"	5000	-	2.5	112	1.95
1.7	**181**	**1.2**	807.1	"	"	5000	-	2.1	138	1.6
1.4	**225**	**0.98**	969.9	"	"	5000	-	1.7	180	1.2
1.2	**265**	**0.83**	1142	"	"	5000	-	1.5	200	1.1
2.4	**121**	**2.7**	565.8	**BG30G06-../D04LA4**	21	6000	-	2.9	93	3.5
2.0	**149**	**2.2**	690.6	"	"	6000	-	2.4	117	2.8
1.8	**169**	**1.9**	760.7	"	"	6000	-	2.2	130	2.5
1.7	**180**	**1.8**	829.5	"	"	6000	-	2.0	146	2.2
1.4	**225**	**1.45**	996.8	"	"	6000	-	1.7	178	1.85
1.3	**245**	**1.35**	1088	"	"	6000	-	1.5	205	1.6
1.1	**290**	**1.1**	1280	"	"	6000	-	1.3	235	1.4
1.0	**325**	**1.0**	1404	"	"	6000	-	1.2	260	1.25

P = 0.06 kW

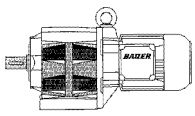
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**1.06**	**3.8**	2.51	**BG04-../D04LA4**	4.4	340	-	650	0.88	4.5
370	**1.54**	**3.2**	3.65	"	"	390	-	445	1.28	3.9
310	**1.84**	**3.8**	4.39	"	"	380	-	370	1.54	4.5
255	**2.2**	**4.1**	5.36	"	"	380	-	305	1.87	4.8
205	**2.75**	**3.6**	6.67	"	"	410	-	245	2.3	4.3
158	**3.6**	**3.1**	8.58	"	"	410	-	189	3.0	3.7
150	**3.8**	**3.2**	9.00	"	"	470	-	180	3.15	3.8
137	**4.15**	**3.1**	9.90	"	"	480	-	164	3.45	3.8
125	**4.55**	**3.1**	10.82	"	"	480	-	150	3.8	3.7
114	**5.0**	**3.0**	11.90	"	"	490	-	137	4.15	3.6
108	**5.3**	**2.8**	12.55	"	"	490	-	130	4.4	3.4
103	**5.5**	**2.9**	13.20	"	"	500	-	123	4.65	3.4
93	**6.1**	**2.8**	14.52	"	"	510	-	112	5.1	3.3
83	**6.9**	**2.6**	16.44	"	"	530	-	99	5.7	3.2
75	**7.6**	**2.4**	18.08	"	"	540	-	90	6.3	2.9
64	**8.9**	**2.1**	21.12	"	"	560	-	77	7.4	2.6
59	**9.7**	**2.1**	23.23	"	"	600	-	70	8.1	2.5
56	**10.2**	**1.95**	24.45	"	"	610	-	67	8.5	2.4
51	**11.2**	**1.8**	26.89	"	"	650	-	61	9.3	2.2
44	**13**	**1.55**	30.91	"	"	690	-	53	10.8	1.85
40	**14.3**	**1.4**	34.00	"	"	720	-	48	11.9	1.7
38.5	**14.8**	**1.35**	35.35	"	"	730	-	46	12.4	1.6
35	**16.3**	**1.25**	38.89	"	"	750	-	42	13.6	1.45
32	**17.9**	**1.1**	42.24	"	"	750	-	38.5	14.8	1.35
29.5	**19.4**	**1.05**	46.47	"	"	750	-	35	16.3	1.25
28.5	**20**	**1.0**	47.52	"	"	750	-	34.5	16.6	1.2
26	**22**	**0.91**	52.28	"	"	750	-	31	18.4	1.1
25	**22.5**	**0.89**	54.97	"	"	750	-	29.5	19.4	1.05
22.5	**25**	**0.8**	60.47	"	"	750	-	27	21	0.95

P = 0.06 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
72	**7.9**	**3.3**	18.82	**BG05-../D04LA4**	5.1	680	-	87	6.5	4.0
66	**8.6**	**3.1**	20.53	"	"	700	-	79	7.2	3.8
57	**10**	**2.8**	24.00	"	"	740	-	68	8.4	3.3
52	**11**	**2.6**	26.18	"	"	760	-	62	9.2	3.2
49	**11.6**	**2.6**	27.82	"	"	770	-	59	9.7	3.1
44.5	**12.8**	**2.3**	30.35	"	"	760	-	54	10.6	2.8
39	**14.6**	**2.1**	35.00	"	"	810	-	46.5	12.3	2.4
35.5	**16.1**	**1.85**	38.18	"	"	850	-	42.5	13.4	2.2
34	**16.8**	**1.8**	39.94	"	"	860	-	41	13.9	2.2
31	**18.4**	**1.65**	43.57	"	"	900	-	37.5	15.2	1.95
29	**19.7**	**1.5**	47.00	"	"	930	-	34.5	16.6	1.8
26.5	**21.5**	**1.4**	51.27	"	"	970	-	32	17.9	1.7
25.5	**22**	**1.35**	53.44	"	"	980	-	30.5	18.7	1.6
23.5	**24**	**1.25**	58.30	"	"	1000	-	28	20	1.5
42	**13.6**	**3.3**	32.22	**BG06-../D04LA4**	6.1	890	-	51	11.2	4.0
38.5	**14.8**	**3.0**	35.15	"	"	880	-	46.5	12.3	3.7
37	**15.4**	**2.9**	36.91	"	"	890	-	44	13	3.5
34	**16.8**	**2.7**	40.26	"	"	890	-	40.5	14.1	3.2
29.5	**19.4**	**2.3**	46.19	"	"	890	-	35.5	16.1	2.8
27	**21**	**2.1**	50.38	"	"	940	-	32.5	17.6	2.6
26	**22**	**2.0**	52.56	"	"	950	-	31	18.4	2.4
24	**23.5**	**1.9**	57.34	"	"	1000	-	28.5	20	2.3
22.5	**25**	**1.8**	61.22	"	"	1020	-	26.5	21.5	2.1
20.5	**27.5**	**1.65**	66.79	"	"	1070	-	24.5	23	1.95
18	**29.5**	**1.35**	75.99	**BG06G04-../D04LA4**	8.4	1070	-	21.5	24.5	1.65
16.5	**32**	**1.35**	82.89	"	"	1070	-	20	26	1.65
15	**35.5**	**1.25**	93.00	"	"	1070	-	17.5	30	1.5
13.5	**39.5**	**1.15**	101.5	"	"	1070	-	16	33	1.35
11.5	**45.5**	**0.99**	122.0	"	"	1070	-	13.5	38.5	1.15
15	**38**	**3.2**	92.19	**BG10Z-../D06LA4**	14	2000	2800	18	31.5	3.8
13.5	**42**	**2.9**	102.1	"	"	2000	2800	16	35.5	3.4
12.5	**45.5**	**2.6**	109.8	"	"	2000	2800	15	38	3.2
11.5	**49.5**	**2.4**	121.7	"	"	2000	2800	13.5	42	2.9
10.5	**54**	**2.2**	131.8	"	"	2000	2800	12.5	45.5	2.6
9.3	**61**	**1.95**	146.0	"	"	2000	2800	11.5	49.5	2.4
8.2	**69**	**1.75**	166.0	"	"	2000	2800	9.8	58	2.1
7.4	**77**	**1.55**	184.0	"	"	2000	2800	8.9	64	1.9
7.0	**81**	**1.5**	194.6	"	"	2000	2800	8.4	68	1.75
6.3	**90**	**1.35**	215.7	"	"	2000	2800	7.6	75	1.6
5.7	**100**	**1.2**	240.4	"	"	2000	2800	6.8	84	1.45
5.1	**112**	**1.05**	266.3	"	"	2000	2800	6.1	93	1.3
4.9	**116**	**1.05**	276.0	"	"	2000	2800	5.9	97	1.25
4.5	**127**	**0.94**	305.8	"	"	2000	2800	5.3	108	1.1
4.1	**107**	**1.2**	332.0	**BG10G06-../D06LA4**	18	2000	2800	4.9	84	1.55
3.6	**128**	**1.0**	379.6	"	"	2000	2800	4.3	102	1.25
3.1	**149**	**0.87**	435.9	"	"	2000	2800	3.8	115	1.15
8.4	**68**	**2.9**	162.2	**BG20Z-../D06LA4**	16	5000	-	10	57	3.5
7.5	**76**	**2.6**	180.1	"	"	5000	-	9.0	63	3.2
6.8	**84**	**2.4**	199.9	"	"	5000	-	8.2	69	2.9
6.1	**93**	**2.2**	222.1	"	"	5000	-	7.3	78	2.6
5.5	**77**	**2.9**	248.0	**BG20G06-../D06LA4**	20	5000	-	6.6	60	3.7
4.6	**95**	**2.3**	297.9	"	"	5000	-	5.5	75	2.9
3.9	**118**	**1.85**	352.1	"	"	5000	-	4.7	93	2.4
3.5	**132**	**1.65**	391.1	"	"	5000	-	4.2	104	2.1
3.0	**156**	**1.4**	460.0	"	"	5000	-	3.6	125	1.75
2.5	**192**	**1.15**	550.6	"	"	5000	-	3.0	154	1.45
2.1	**230**	**0.96**	671.9	"	"	5000	-	2.5	188	1.15
6.0	**95**	**3.2**	225.9	**BG30Z-../D06LA4**	22	6000	-	7.2	79	3.8
5.2	**110**	**2.7**	261.9	"	"	6000	-	6.2	92	3.3
4.7	**121**	**2.5**	290.5	"	"	6000	-	5.6	102	2.9

P = 0.06 kW

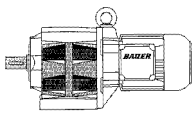


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
3.9	**118**	**2.8**	346.8	**BG30G06-../D06LA4**	25	6000	-	4.7	93	3.5
3.4	**136**	**2.4**	401.9	"	"	6000	-	4.1	107	3.0
2.9	**162**	**2.0**	472.8	"	"	6000	-	3.5	128	2.5
2.4	**200**	**1.65**	565.8	"	"	6000	-	2.9	159	2.0
2.0	**240**	**1.35**	690.6	"	"	6000	-	2.4	196	1.65
1.8	**275**	**1.2**	760.7	"	"	6000	-	2.2	215	1.5
1.7	**290**	**1.1**	829.5	"	"	6000	-	2.0	240	1.35
1.4	**360**	**0.9**	996.8	"	"	6000	-	1.7	290	1.1
1.3	**390**	**0.83**	1088	"	"	6000	-	1.5	330	0.98
2.2	**147**	**3.2**	640.0	**BG40G10-../D06LA4**	43	7000	-	2.6	107	4.3
1.9	**176**	**2.6**	710.9	"	"	7000	-	2.3	123	3.8
1.8	**179**	**2.6**	789.1	"	"	7000	-	2.1	133	3.5
1.4	**255**	**1.8**	965.2	"	"	7000	-	1.7	186	2.5
1.2	**315**	**1.5**	1225	"	"	7000	-	1.4	250	1.85
0.95	**440**	**1.05**	1459	"	"	7000	-	1.2	315	1.5
1.5	**230**	**3.0**	960.2	**BG50G10-../D06LA4**	51	10000	-	1.7	186	3.7
1.2	**315**	**2.2**	1219	"	"	10000	-	1.4	250	2.8
0.95	**445**	**1.55**	1452	"	"	10000	-	1.2	315	2.2
0.8	**550**	**1.25**	1729	"	"	10000	-	0.95	445	1.55
0.7	**660**	**1.05**	2076	"	"	10000	-	0.8	550	1.25
0.8	**445**	**2.9**	1741	**BG60G20-../D06LA4**	100	16000	-	0.95	330	3.9
0.75	**490**	**2.7**	1880	"	"	16000	-	0.9	365	3.6
0.65	**610**	**2.1**	2249	"	"	16000	-	0.75	490	2.7
0.48	**920**	**1.4**	2818	"	"	16000	-	0.6	680	1.9
0.42	**1090**	**1.2**	3234	"	"	16000	-	0.55	770	1.7
0.38	**1230**	**1.05**	3592	"	"	16000	-	0.46	970	1.35
0.49	**930**	**2.7**	2774	**BG70G20-../D06LA4**	130	20000	-	0.6	710	3.5
0.43	**1090**	**2.3**	3184	"	"	20000	-	0.55	800	3.1
0.35	**1390**	**1.8**	3925	"	"	20000	-	0.42	1120	2.2

P = 0.09 kW

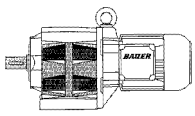
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**1.59**	**2.5**	2.51	**BG04-../D04LA4**	4.4	340	-	650	1.32	3.0
370	**2.3**	**2.2**	3.65	"	"	390	-	445	1.93	2.6
310	**2.75**	**2.5**	4.39	"	"	380	-	370	2.3	3.0
255	**3.35**	**2.7**	5.36	"	"	380	-	305	2.8	3.2
205	**4.15**	**2.4**	6.67	"	"	410	-	245	3.5	2.9
158	**5.4**	**2.0**	8.58	"	"	410	-	189	4.5	2.4
150	**5.7**	**2.1**	9.00	"	"	470	-	180	4.75	2.5
137	**6.2**	**2.1**	9.90	"	"	480	-	164	5.2	2.5
125	**6.8**	**2.1**	10.82	"	"	480	-	150	5.7	2.5
114	**7.5**	**2.0**	11.90	"	"	490	-	137	6.2	2.4
108	**7.9**	**1.9**	12.55	"	"	490	-	130	6.6	2.3
103	**8.3**	**1.95**	13.20	"	"	500	-	123	6.9	2.3
93	**9.2**	**1.85**	14.52	"	"	510	-	112	7.6	2.2
83	**10.3**	**1.75**	16.44	"	"	530	-	99	8.6	2.1
75	**11.4**	**1.6**	18.08	"	"	540	-	90	9.5	1.9
64	**13.4**	**1.4**	21.12	"	"	560	-	77	11.1	1.7
59	**14.5**	**1.4**	23.23	"	"	600	-	70	12.2	1.65
56	**15.3**	**1.3**	24.45	"	"	610	-	67	12.8	1.55
51	**16.8**	**1.2**	26.89	"	"	650	-	61	14	1.45
44	**19.5**	**1.05**	30.91	"	"	690	-	53	16.2	1.25
40	**21**	**0.95**	34.00	"	"	720	-	48	17.9	1.1
38.5	**22**	**0.91**	35.35	"	"	730	-	46	18.6	1.1
35	**24.5**	**0.82**	38.89	"	"	750	-	42	20	1.0

P = 0.09 kW



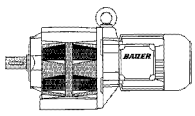
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
128	**6.7**	**3.0**	10.59	**BG05-../D04LA4**	5.1	590	-	153	5.6	3.6
117	**7.3**	**2.9**	11.55	"	"	600	-	141	6.0	3.5
113	**7.6**	**2.8**	12.05	"	"	510	-	135	6.3	3.3
108	**7.9**	**2.8**	12.60	"	"	610	-	129	6.6	3.3
99	**8.6**	**2.7**	13.75	"	"	630	-	118	7.2	3.2
89	**9.6**	**2.5**	15.23	"	"	640	-	107	8.0	3.0
82	**10.4**	**2.4**	16.62	"	"	660	-	98	8.7	2.9
72	**11.9**	**2.2**	18.82	"	"	680	-	87	9.8	2.7
66	**13**	**2.1**	20.53	"	"	700	-	79	10.8	2.5
57	**15**	**1.85**	24.00	"	"	740	-	68	12.6	2.2
52	**16.5**	**1.75**	26.18	"	"	760	-	62	13.8	2.1
49	**17.5**	**1.7**	27.82	"	"	770	-	59	14.5	2.1
44.5	**19.3**	**1.55**	30.35	"	"	760	-	54	15.9	1.9
39	**22**	**1.35**	35.00	"	"	810	-	46.5	18.4	1.65
35.5	**24**	**1.25**	38.18	"	"	850	-	42.5	20	1.5
34	**25**	**1.2**	39.94	"	"	860	-	41	20.5	1.45
31	**27.5**	**1.1**	43.57	"	"	900	-	37.5	22.5	1.35
29	**29.5**	**1.0**	47.00	"	"	930	-	34.5	24.5	1.2
26.5	**32**	**0.94**	51.27	"	"	970	-	32	26.5	1.15
25.5	**33.5**	**0.9**	53.44	"	"	980	-	30.5	28	1.05
23.5	**36.5**	**0.82**	58.30	"	"	1000	-	28	30.5	0.98
65	**13.2**	**3.0**	20.82	**BG06-../D04LA4**	6.1	800	-	78	11	3.6
60	**14.3**	**3.0**	22.71	"	"	810	-	72	11.9	3.6
53	**16.2**	**2.8**	25.48	"	"	850	-	64	13.4	3.4
49	**17.5**	**2.6**	27.80	"	"	840	-	59	14.5	3.1
42	**20**	**2.3**	32.22	"	"	890	-	51	16.8	2.7
38.5	**22**	**2.0**	35.15	"	"	880	-	46.5	18.4	2.4
37	**23**	**1.95**	36.91	"	"	890	-	44	19.5	2.3
34	**25**	**1.8**	40.26	"	"	890	-	40.5	21	2.1
29.5	**29**	**1.55**	46.19	"	"	890	-	35.5	24	1.9
27	**31.5**	**1.45**	50.38	"	"	940	-	32.5	26	1.75
26	**33**	**1.35**	52.56	"	"	950	-	31	27.5	1.65
24	**35.5**	**1.25**	57.34	"	"	1000	-	28.5	30	1.5
22.5	**38**	**1.2**	61.22	"	"	1020	-	26.5	32	1.4
20.5	**41.5**	**1.1**	66.79	"	"	1070	-	24.5	35	1.3
18	**45.5**	**0.88**	75.99	**BG06G04-../D04LA4**	8.4	1070	-	21.5	37.5	1.05
16.5	**49.5**	**0.87**	82.89	"	"	1070	-	20	40.5	1.05
15	**54**	**0.83**	93.00	"	"	1070	-	17.5	46.5	0.97
23.5	**36.5**	**3.3**	57.48	**BG10-../D06LA4**	13	2000	2800	28.5	30	4.0
21.5	**39.5**	**3.0**	63.69	"	"	2000	2800	25.5	33.5	3.6
20.5	**41.5**	**2.9**	66.00	"	"	2000	2800	25	34	3.5
18.5	**46**	**2.6**	73.13	"	"	2000	2800	22.5	38	3.2
17.5	**49**	**2.4**	77.40	**BG10Z-../D06LA4**	14	2000	2800	21	40.5	3.0
16	**53**	**2.3**	85.76	"	"	2000	2800	19	45	2.7
15	**57**	**2.1**	92.19	"	"	2000	2800	18	47.5	2.5
13.5	**63**	**1.9**	102.1	"	"	2000	2800	16	53	2.3
12.5	**68**	**1.75**	109.8	"	"	2000	2800	15	57	2.1
11.5	**74**	**1.6**	121.7	"	"	2000	2800	13.5	63	1.9
10.5	**81**	**1.5**	131.8	"	"	2000	2800	12.5	68	1.75
9.3	**92**	**1.3**	146.0	"	"	2000	2800	11.5	74	1.6
8.2	**104**	**1.15**	166.0	"	"	2000	2800	9.8	87	1.4
7.4	**116**	**1.05**	184.0	"	"	2000	2800	8.9	96	1.25
7.0	**122**	**0.98**	194.6	"	"	2000	2800	8.4	102	1.2
6.3	**136**	**0.88**	215.7	"	"	2000	2800	7.6	113	1.05
5.7	**150**	**0.8**	240.4	"	"	2000	2800	6.8	126	0.95
4.9	**146**	**0.89**	276.4	**BG10G06-../D06LA4**	18	2000	2800	5.9	116	1.1
13	**66**	**3.0**	104.7	**BG20Z-../D06LA4**	16	5000	-	15.5	55	3.6
12	**71**	**2.8**	112.8	"	"	5000	-	14.5	59	3.4
11	**78**	**2.6**	125.3	"	"	5000	-	13	66	3.0
9.6	**89**	**2.2**	141.3	"	"	5000	-	11.5	74	2.7
8.4	**102**	**1.95**	162.2	"	"	5000	-	10	85	2.4
7.5	**114**	**1.75**	180.1	"	"	5000	-	9.0	95	2.1
6.8	**126**	**1.6**	199.9	"	"	5000	-	8.2	104	1.9
6.1	**140**	**1.45**	222.1	"	"	5000	-	7.3	117	1.7

P = 0.09 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
5.5	**130**	**1.7**	248.0	**BG20G06-../D06LA4**	20	5000	-	6.6	103	2.1
4.6	**157**	**1.4**	297.9	"	"	5000	-	5.5	127	1.75
3.9	**192**	**1.15**	352.1	"	"	5000	-	4.7	154	1.45
3.5	**210**	**1.05**	391.1	"	"	5000	-	4.2	173	1.25
3.0	**250**	**0.88**	460.0	"	"	5000	-	3.6	200	1.1
9.5	**90**	**3.3**	142.5	**BG30Z-../D06LA4**	22	6000	-	11.5	74	4.1
9.0	**95**	**3.2**	151.5	"	"	6000	-	11	78	3.8
8.1	**106**	**2.8**	168.1	"	"	6000	-	9.7	88	3.4
7.4	**116**	**2.6**	182.9	"	"	6000	-	8.9	96	3.1
6.7	**128**	**2.3**	202.9	"	"	6000	-	8.0	107	2.8
6.0	**143**	**2.1**	225.9	"	"	6000	-	7.2	119	2.5
5.2	**165**	**1.8**	261.9	"	"	6000	-	6.2	138	2.2
4.7	**182**	**1.65**	290.5	"	"	6000	-	5.6	153	1.95
4.5	**161**	**2.0**	306.2	**BG30G06-../D06LA4**	25	6000	-	5.3	132	2.5
3.9	**192**	**1.7**	346.8	"	"	6000	-	4.7	154	2.1
3.4	**220**	**1.5**	401.9	"	"	6000	-	4.1	177	1.85
2.9	**260**	**1.25**	472.8	"	"	6000	-	3.5	210	1.55
2.4	**320**	**1.0**	565.8	"	"	6000	-	2.9	255	1.25
2.0	**385**	**0.84**	690.6	"	"	6000	-	2.4	315	1.05
6.1	**140**	**3.0**	221.9	**BG40Z-../D06LA4**	38	7000	-	7.4	116	3.7
5.5	**156**	**2.7**	246.5	"	"	7000	-	6.6	130	3.3
5.0	**171**	**2.5**	273.6	"	"	7000	-	6.0	143	3.0
3.1	**170**	**2.7**	448.8	**BG40G10-../D06LA4**	43	7000	-	3.7	125	3.7
2.6	**210**	**2.2**	534.2	"	"	7000	-	3.1	160	2.9
2.2	**275**	**1.7**	640.0	"	"	7000	-	2.6	215	2.2
1.9	**325**	**1.45**	710.9	"	"	7000	-	2.3	245	1.9
1.8	**335**	**1.4**	789.1	"	"	7000	-	2.1	270	1.7
1.4	**460**	**1.0**	965.2	"	"	7000	-	1.7	350	1.35
1.2	**550**	**0.85**	1225	"	"	7000	-	1.4	455	1.0
2.6	**210**	**3.3**	531.5	**BG50G10-../D06LA4**	51	10000	-	3.1	161	4.3
2.2	**280**	**2.5**	621.3	"	"	10000	-	2.7	205	3.4
2.0	**300**	**2.3**	708.3	"	"	10000	-	2.3	245	2.8
1.8	**335**	**2.1**	785.1	"	"	10000	-	2.1	270	2.6
1.5	**420**	**1.65**	960.2	"	"	10000	-	1.7	355	1.95
1.2	**550**	**1.25**	1219	"	"	10000	-	1.4	455	1.5
1.3	**420**	**3.1**	1051	**BG60G20-../D06LA4**	100	16000	-	1.6	295	4.4
1.2	**465**	**2.8**	1168	"	"	16000	-	1.4	365	3.6
1.1	**510**	**2.5**	1346	"	"	16000	-	1.3	395	3.3
0.95	**630**	**2.1**	1496	"	"	16000	-	1.1	510	2.5
0.8	**800**	**1.65**	1741	"	"	16000	-	0.95	630	2.1
0.75	**870**	**1.5**	1880	"	"	16000	-	0.9	680	1.9
0.65	**1050**	**1.25**	2249	"	"	16000	-	0.75	870	1.5
0.85	**770**	**3.2**	1666	**BG70G20-../D06LA4**	130	20000	-	1.0	620	4.0
0.7	**980**	**2.6**	1994	"	"	20000	-	0.85	770	3.2
0.65	**1080**	**2.3**	2215	"	"	20000	-	0.75	900	2.8
0.49	**1510**	**1.65**	2774	"	"	20000	-	0.6	1190	2.1
0.43	**1750**	**1.45**	3184	"	"	20000	-	0.55	1320	1.9
0.35	**2200**	**1.15**	3925	"	"	20000	-	0.42	1800	1.4

P = 0.12 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**2.1**	**1.9**	2.51	**BG04-../D04LA4**	4.4	340	-	650	1.76	2.3
370	**3.05**	**1.65**	3.65	"	"	390	-	445	2.55	1.95
310	**3.65**	**1.9**	4.39	"	"	380	-	370	3.05	2.3
255	**4.45**	**2.0**	5.36	"	"	380	-	305	3.75	2.4
205	**5.5**	**1.8**	6.67	"	"	410	-	245	4.65	2.2
158	**7.2**	**1.55**	8.58	"	"	410	-	189	6.0	1.85
150	**7.6**	**1.6**	9.00	"	"	470	-	180	6.3	1.9
137	**8.3**	**1.55**	9.90	"	"	480	-	164	6.9	1.9
125	**9.1**	**1.55**	10.82	"	"	480	-	150	7.6	1.85
114	**10**	**1.5**	11.90	"	"	490	-	137	8.3	1.8
108	**10.6**	**1.4**	12.55	"	"	490	-	130	8.8	1.7
103	**11.1**	**1.45**	13.20	"	"	500	-	123	9.3	1.7
93	**12.3**	**1.4**	14.52	"	"	510	-	112	10.2	1.65
83	**13.8**	**1.3**	16.44	"	"	530	-	99	11.5	1.55
75	**15.2**	**1.2**	18.08	"	"	540	-	90	12.7	1.4
64	**17.9**	**1.05**	21.12	"	"	560	-	77	14.8	1.3
59	**19.4**	**1.05**	23.23	"	"	600	-	70	16.3	1.25
56	**20**	**1.0**	24.45	"	"	610	-	67	17.1	1.15
51	**22**	**0.91**	26.89	"	"	650	-	61	18.7	1.05
295	**3.85**	**3.1**	4.59	**BG05-../D04LA4**	5.1	490	-	355	3.2	3.8
250	**4.55**	**3.1**	5.46	"	"	490	-	300	3.8	3.7
205	**5.5**	**2.9**	6.60	"	"	510	-	250	4.55	3.5
174	**6.5**	**2.8**	7.80	"	"	530	-	210	5.4	3.3
166	**6.9**	**2.6**	8.15	"	"	510	-	199	5.7	3.2
159	**7.2**	**2.6**	8.51	"	"	550	-	191	6.0	3.2
128	**8.9**	**2.2**	10.59	"	"	590	-	153	7.4	2.7
117	**9.7**	**2.2**	11.55	"	"	600	-	141	8.1	2.6
113	**10.1**	**2.1**	12.05	"	"	510	-	135	8.4	2.5
108	**10.6**	**2.1**	12.60	"	"	610	-	129	8.8	2.5
99	**11.5**	**2.0**	13.75	"	"	630	-	118	9.7	2.4
89	**12.8**	**1.9**	15.23	"	"	640	-	107	10.7	2.2
82	**13.9**	**1.8**	16.62	"	"	660	-	98	11.6	2.2
72	**15.9**	**1.65**	18.82	"	"	680	-	87	13.1	2.0
66	**17.3**	**1.55**	20.53	"	"	700	-	79	14.5	1.85
57	**20**	**1.4**	24.00	"	"	740	-	68	16.8	1.65
52	**22**	**1.3**	26.18	"	"	760	-	62	18.4	1.6
49	**23**	**1.3**	27.82	"	"	770	-	59	19.4	1.55
44.5	**25.5**	**1.2**	30.35	"	"	760	-	54	21	1.45
39	**29**	**1.05**	35.00	"	"	810	-	46.5	24.5	1.2
35.5	**32**	**0.94**	38.18	"	"	850	-	42.5	26.5	1.15
34	**33.5**	**0.9**	39.94	"	"	860	-	41	27.5	1.1
31	**36.5**	**0.82**	43.57	"	"	900	-	37.5	30.5	0.98
110	**10.4**	**3.2**	12.30	**BG06-../D04LA4**	6.1	670	-	132	8.6	3.8
105	**10.9**	**3.0**	12.98	"	"	600	-	125	9.1	3.6
92	**12.4**	**2.7**	14.78	"	"	730	-	110	10.4	3.3
84	**13.6**	**2.6**	16.13	"	"	740	-	101	11.3	3.1
78	**14.6**	**2.6**	17.40	"	"	760	-	94	12.1	3.1
72	**15.9**	**2.5**	18.98	"	"	770	-	86	13.3	3.0
65	**17.6**	**2.3**	20.82	"	"	800	-	78	14.6	2.7
60	**19.1**	**2.3**	22.71	"	"	810	-	72	15.9	2.7
53	**21.5**	**2.1**	25.48	"	"	850	-	64	17.9	2.5
49	**23**	**1.95**	27.80	"	"	840	-	59	19.4	2.3
42	**27**	**1.65**	32.22	"	"	890	-	51	22	2.0
38.5	**29.5**	**1.55**	35.15	"	"	880	-	46.5	24.5	1.85
37	**30.5**	**1.5**	36.91	"	"	890	-	44	26	1.75
34	**33.5**	**1.35**	40.26	"	"	890	-	40.5	28	1.6
29.5	**38.5**	**1.15**	46.19	"	"	890	-	35.5	32	1.4
27	**42**	**1.05**	50.38	"	"	940	-	32.5	35	1.3
26	**44**	**1.0**	52.56	"	"	950	-	31	36.5	1.25
24	**47.5**	**0.95**	57.34	"	"	1000	-	28.5	40	1.15
22.5	**50**	**0.9**	61.22	"	"	1020	-	26.5	43	1.05
20.5	**55**	**0.82**	66.79	"	"	1070	-	24.5	46.5	0.97

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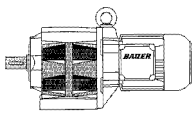
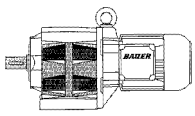


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
31	**36.5**	**3.3**	43.99	**BG10-../D06LA4**	13	1880	2600	37	30.5	3.9
29.5	**38.5**	**3.1**	46.55	"	"	1920	2650	35	32.5	3.7
26.5	**43**	**2.8**	51.57	"	"	2000	2800	31.5	36	3.3
23.5	**48.5**	**2.5**	57.48	"	"	2000	2800	28.5	40	3.0
21.5	**53**	**2.3**	63.69	"	"	2000	2800	25.5	44.5	2.7
20.5	**55**	**2.2**	66.00	"	"	2000	2800	25	45.5	2.6
18.5	**61**	**1.95**	73.13	"	"	2000	2800	22.5	50	2.4
17.5	**65**	**1.85**	77.40	**BG10Z-../D06LA4**	14	2000	2800	21	54	2.2
16	**71**	**1.7**	85.76	"	"	2000	2800	19	60	2.0
15	**76**	**1.6**	92.19	"	"	2000	2800	18	63	1.9
13.5	**84**	**1.45**	102.1	"	"	2000	2800	16	71	1.7
12.5	**91**	**1.3**	109.8	"	"	2000	2800	15	76	1.6
11.5	**99**	**1.2**	121.7	"	"	2000	2800	13.5	84	1.45
10.5	**109**	**1.1**	131.8	"	"	2000	2800	12.5	91	1.3
9.3	**123**	**0.98**	146.0	"	"	2000	2800	11.5	99	1.2
8.2	**139**	**0.86**	166.0	"	"	2000	2800	9.8	116	1.05
7.0	**143**	**0.91**	194.9	**BG10G06-../D06LA4**	18	2000	2800	8.4	115	1.15
17.5	**65**	**3.1**	78.60	**BG20Z-../D06LA4**	16	5000	-	21	54	3.7
15.5	**73**	**2.7**	87.30	"	"	5000	-	19	60	3.3
14.5	**79**	**2.5**	94.27	"	"	5000	-	17.5	65	3.1
13	**88**	**2.3**	104.7	"	"	5000	-	15.5	73	2.7
12	**95**	**2.1**	112.8	"	"	5000	-	14.5	79	2.5
11	**104**	**1.9**	125.3	"	"	5000	-	13	88	2.3
9.6	**119**	**1.7**	141.3	"	"	5000	-	11.5	99	2.0
8.4	**136**	**1.45**	162.2	"	"	5000	-	10	114	1.75
7.5	**152**	**1.3**	180.1	"	"	5000	-	9.0	127	1.55
6.8	**168**	**1.2**	199.9	"	"	5000	-	8.2	139	1.45
6.1	**187**	**1.05**	222.1	"	"	5000	-	7.3	156	1.3
5.5	**182**	**1.2**	248.0	**BG20G06-../D06LA4**	20	5000	-	6.6	147	1.5
4.6	**220**	**1.0**	297.9	"	"	5000	-	5.5	179	1.25
3.9	**265**	**0.83**	352.1	"	"	5000	-	4.7	215	1.0
12.5	**91**	**3.3**	109.6	**BG30Z-../D06LA4**	22	6000	-	15	76	3.9
11.5	**99**	**3.0**	121.6	"	"	6000	-	13.5	84	3.6
11	**104**	**2.9**	128.5	"	"	6000	-	13	88	3.4
9.5	**120**	**2.5**	142.5	"	"	6000	-	11.5	99	3.0
9.0	**127**	**2.4**	151.5	"	"	6000	-	11	104	2.9
8.1	**141**	**2.1**	168.1	"	"	6000	-	9.7	118	2.5
7.4	**154**	**1.95**	182.9	"	"	6000	-	8.9	128	2.3
6.7	**171**	**1.75**	202.9	"	"	6000	-	8.0	143	2.1
6.0	**191**	**1.55**	225.9	"	"	6000	-	7.2	159	1.9
5.2	**220**	**1.35**	261.9	"	"	6000	-	6.2	184	1.65
4.7	**240**	**1.25**	290.5	"	"	6000	-	5.6	200	1.5
4.5	**220**	**1.5**	306.2	**BG30G06-../D06LA4**	25	6000	-	5.3	186	1.75
3.9	**265**	**1.25**	346.8	"	"	6000	-	4.7	215	1.5
3.4	**300**	**1.1**	401.9	"	"	6000	-	4.1	245	1.35
2.9	**360**	**0.9**	472.8	"	"	6000	-	3.5	290	1.1
8.7	**131**	**3.2**	156.9	**BG40Z-../D06LA4**	38	7000	-	10.5	109	3.9
8.2	**139**	**3.1**	166.1	"	"	7000	-	9.8	116	3.7
7.4	**154**	**2.8**	184.4	"	"	7000	-	8.8	130	3.3
6.8	**168**	**2.5**	199.9	"	"	7000	-	8.2	139	3.1
6.1	**187**	**2.3**	221.9	"	"	7000	-	7.4	154	2.8
5.5	**205**	**2.1**	246.5	"	"	7000	-	6.6	173	2.5
5.0	**225**	**1.9**	273.6	"	"	7000	-	6.0	191	2.2
4.7	**153**	**3.0**	288.6	**BG40G10-../D06LA4**	43	7000	-	5.7	111	4.2
3.9	**194**	**2.4**	353.5	"	"	7000	-	4.6	149	3.1
3.1	**260**	**1.8**	448.8	"	"	7000	-	3.7	200	2.3
2.6	**320**	**1.45**	534.2	"	"	7000	-	3.1	250	1.85
2.2	**405**	**1.15**	640.0	"	"	7000	-	2.6	325	1.45
1.9	**475**	**0.98**	710.9	"	"	7000	-	2.3	370	1.25
1.8	**495**	**0.94**	789.1	"	"	7000	-	2.1	405	1.15

P = 0.12 kW

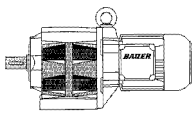


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
6.0	**191**	**3.3**	226.9	**BG50Z-../D06LA4**	47	10000	-	7.2	159	4.0
5.3	**215**	**2.9**	258.6	"	"	10000	-	6.3	181	3.5
4.8	**235**	**2.7**	286.7	"	"	10000	-	5.7	200	3.2
3.1	**260**	**2.7**	446.5	**BG50G10-../D06LA4**	51	10000	-	3.7	200	3.5
2.6	**320**	**2.2**	531.5	"	"	10000	-	3.1	250	2.8
2.2	**410**	**1.7**	621.3	"	"	10000	-	2.7	310	2.2
2.0	**445**	**1.55**	708.3	"	"	10000	-	2.3	370	1.85
1.8	**495**	**1.4**	785.1	"	"	10000	-	2.1	405	1.7
1.5	**610**	**1.15**	960.2	"	"	10000	-	1.7	520	1.35
1.2	**790**	**0.87**	1219	"	"	10000	-	1.4	660	1.05
1.7	**470**	**2.8**	804.5	**BG60G20-../D06LA4**	100	16000	-	2.1	340	3.8
1.6	**490**	**2.7**	891.5	"	"	16000	-	1.9	375	3.5
1.3	**640**	**2.0**	1051	"	"	16000	-	1.6	475	2.7
1.2	**700**	**1.85**	1168	"	"	16000	-	1.4	570	2.3
1.1	**770**	**1.7**	1346	"	"	16000	-	1.3	610	2.1
0.95	**930**	**1.4**	1496	"	"	16000	-	1.1	770	1.7
0.8	**1160**	**1.1**	1741	"	"	16000	-	0.95	930	1.4
0.75	**1250**	**1.05**	1880	"	"	16000	-	0.9	1000	1.3
1.0	**900**	**2.8**	1389	**BG70G20-../D06LA4**	130	20000	-	1.2	710	3.5
0.9	**1030**	**2.4**	1543	"	"	20000	-	1.1	800	3.1
0.85	**1100**	**2.3**	1666	"	"	20000	-	1.0	900	2.8
0.7	**1390**	**1.8**	1994	"	"	20000	-	0.85	1100	2.3
0.65	**1520**	**1.65**	2215	"	"	20000	-	0.75	1280	1.95
0.49	**2050**	**1.2**	2774	"	"	20000	-	0.6	1670	1.5
0.43	**2400**	**1.05**	3184	"	"	20000	-	0.55	1840	1.35

P = 0.18 kW

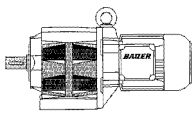
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
520	**3.3**	**2.7**	2.64	**BG05-../D05LA4**	7.0	420	-	620	2.75	3.3
400	**4.25**	**2.4**	3.38	"	"	460	-	480	3.55	2.8
295	**5.8**	**2.1**	4.59	"	"	490	-	355	4.8	2.5
250	**6.8**	**2.1**	5.46	"	"	490	-	300	5.7	2.5
205	**8.3**	**1.95**	6.60	"	"	510	-	250	6.8	2.4
174	**9.8**	**1.85**	7.80	"	"	530	-	210	8.1	2.2
166	**10.3**	**1.75**	8.15	"	"	510	-	199	8.6	2.1
159	**10.8**	**1.75**	8.51	"	"	550	-	191	9.0	2.1
128	**13.4**	**1.5**	10.59	"	"	590	-	153	11.2	1.8
117	**14.6**	**1.45**	11.55	"	"	600	-	141	12.1	1.75
113	**15.2**	**1.4**	12.05	"	"	510	-	135	12.7	1.65
108	**15.9**	**1.4**	12.60	"	"	610	-	129	13.3	1.65
99	**17.3**	**1.35**	13.75	"	"	630	-	118	14.5	1.6
89	**19.3**	**1.25**	15.23	"	"	640	-	107	16	1.5
82	**20.5**	**1.2**	16.62	"	"	660	-	98	17.5	1.45
72	**23.5**	**1.1**	18.82	"	"	680	-	87	19.7	1.3
66	**26**	**1.05**	20.53	"	"	700	-	79	21.5	1.25
57	**30**	**0.93**	24.00	"	"	740	-	68	25	1.1
52	**33**	**0.88**	26.18	"	"	760	-	62	27.5	1.05
49	**35**	**0.86**	27.82	"	"	770	-	59	29	1.05
230	**7.4**	**3.2**	5.96	**BG06-../D05LA4**	8.0	570	-	275	6.2	3.9
193	**8.9**	**2.9**	7.01	"	"	580	-	235	7.3	3.6
161	**10.6**	**2.6**	8.39	"	"	600	-	194	8.8	3.2
144	**11.9**	**2.5**	9.38	"	"	640	-	173	9.9	3.0
132	**13**	**2.4**	10.24	"	"	640	-	159	10.8	2.9
120	**14.3**	**2.2**	11.28	"	"	670	-	144	11.9	2.7
110	**15.6**	**2.1**	12.30	"	"	670	-	132	13	2.5
105	**16.3**	**2.0**	12.98	"	"	600	-	125	13.7	2.4
92	**18.6**	**1.85**	14.78	"	"	730	-	110	15.6	2.2
84	**20**	**1.75**	16.13	"	"	740	-	101	17	2.1

P = 0.18 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
78	**22**	**1.75**	17.40	**BG06-../D05LA4**	"	760	-	94	18.2	2.1
72	**23.5**	**1.7**	18.98	"	"	770	-	86	19.9	2.0
65	**26**	**1.55**	20.82	"	"	800	-	78	22	1.8
60	**28.5**	**1.5**	22.71	"	"	810	-	72	23.5	1.85
53	**32**	**1.4**	25.48	"	"	850	-	64	26.5	1.7
49	**35**	**1.3**	27.80	"	"	840	-	59	29	1.55
42	**40.5**	**1.1**	32.22	"	"	890	-	51	33.5	1.35
38.5	**44.5**	**1.0**	35.15	"	"	880	-	46.5	36.5	1.25
37	**46**	**0.98**	36.91	"	"	890	-	44	39	1.15
34	**50**	**0.9**	40.26	"	"	890	-	40.5	42	1.05
46.5	**36.5**	**3.3**	29.09	**BG10-../D06LA4**	13	1540	2150	56	30.5	3.9
43	**39.5**	**3.0**	31.52	"	"	1600	2200	52	33	3.6
39	**44**	**2.7**	34.92	"	"	1690	2350	46.5	36.5	3.3
34.5	**49.5**	**2.4**	39.70	"	"	1780	2450	41	41.5	2.9
31	**55**	**2.2**	43.99	"	"	1880	2600	37	46	2.6
29.5	**58**	**2.1**	46.55	"	"	1920	2650	35	49	2.4
26.5	**64**	**1.9**	51.57	"	"	2000	2800	31.5	54	2.2
23.5	**73**	**1.65**	57.48	"	"	2000	2800	28.5	60	2.0
21.5	**79**	**1.5**	63.69	"	"	2000	2800	25.5	67	1.8
20.5	**83**	**1.45**	66.00	"	"	2000	2800	25	68	1.75
18.5	**92**	**1.3**	73.13	"	"	2000	2800	22.5	76	1.6
17.5	**98**	**1.2**	77.40	**BG10Z-../D06LA4**	14	2000	2800	21	81	1.5
16	**107**	**1.1**	85.76	"	"	2000	2800	19	90	1.35
15	**114**	**1.05**	92.19	"	"	2000	2800	18	95	1.25
13.5	**127**	**0.94**	102.1	"	"	2000	2800	16	107	1.1
12.5	**137**	**0.88**	109.8	"	"	2000	2800	15	114	1.05
11.5	**149**	**0.81**	121.7	"	"	2000	2800	13.5	127	0.94
28.5	**60**	**3.3**	47.92	**BG20-../D06LA4**	16	4750	-	34	50	4.0
25.5	**67**	**3.0**	53.22	"	"	4950	-	30.5	56	3.6
23	**74**	**2.7**	59.07	"	"	5000	-	27.5	62	3.2
21	**81**	**2.5**	65.62	"	"	5000	-	25	68	2.9
20	**85**	**2.4**	67.53	**BG20Z-../D06LA4**	16	5000	-	24	71	2.8
17.5	**98**	**2.0**	78.60	"	"	5000	-	21	81	2.5
15.5	**110**	**1.8**	87.30	"	"	5000	-	19	90	2.2
14.5	**118**	**1.7**	94.27	"	"	5000	-	17.5	98	2.0
13	**132**	**1.5**	104.7	"	"	5000	-	15.5	110	1.8
12	**143**	**1.4**	112.8	"	"	5000	-	14.5	118	1.7
11	**156**	**1.3**	125.3	"	"	5000	-	13	132	1.5
9.6	**179**	**1.1**	141.3	"	"	5000	-	11.5	149	1.35
8.4	**200**	**1.0**	162.2	"	"	5000	-	10	171	1.15
7.5	**225**	**0.89**	180.1	"	"	5000	-	9.0	191	1.05
6.8	**250**	**0.8**	199.9	"	"	5000	-	8.2	205	0.98
21	**81**	**3.3**	65.79	**BG30Z-../D06LA4**	22	6000	-	25	68	3.9
18.5	**92**	**3.3**	73.51	"	"	6000	-	22.5	76	3.9
17	**101**	**3.0**	81.55	"	"	6000	-	20	85	3.5
16	**107**	**2.8**	86.13	"	"	6000	-	19	90	3.3
14.5	**118**	**2.5**	95.55	"	"	6000	-	17	101	3.0
12.5	**137**	**2.2**	109.6	"	"	6000	-	15	114	2.6
11.5	**149**	**2.0**	121.6	"	"	6000	-	13.5	127	2.4
11	**156**	**1.9**	128.5	"	"	6000	-	13	132	2.3
9.5	**180**	**1.65**	142.5	"	"	6000	-	11.5	149	2.0
9.0	**191**	**1.55**	151.5	"	"	6000	-	11	156	1.9
8.1	**210**	**1.45**	168.1	"	"	6000	-	9.7	177	1.7
7.4	**230**	**1.3**	182.9	"	"	6000	-	8.9	193	1.55
6.7	**255**	**1.2**	202.9	"	"	6000	-	8.0	210	1.45
6.0	**285**	**1.05**	225.9	"	"	6000	-	7.2	235	1.3
5.2	**330**	**0.91**	261.9	"	"	6000	-	6.2	275	1.1
4.7	**365**	**0.82**	290.5	"	"	6000	-	5.6	305	0.98
4.5	**350**	**0.93**	306.2	**BG30G06-../D06LA4**	25	6000	-	5.3	290	1.1

P = 0.18 kW

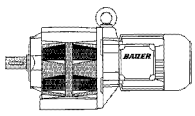


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
13	**132**	**3.2**	107.5	**BG40Z-../D06LA4**	38	7000	-	15.5	110	3.9
11.5	**149**	**2.9**	121.3	"	"	7000	-	13.5	127	3.3
10.5	**163**	**2.6**	134.6	"	"	7000	-	12.5	137	3.1
9.6	**179**	**2.4**	141.4	"	"	7000	-	11.5	149	2.9
8.7	**197**	**2.2**	156.9	"	"	7000	-	10.5	163	2.6
8.2	**205**	**2.1**	166.1	"	"	7000	-	9.8	175	2.4
7.4	**230**	**1.85**	184.4	"	"	7000	-	8.8	195	2.2
6.8	**250**	**1.7**	199.9	"	"	7000	-	8.2	205	2.1
6.1	**280**	**1.5**	221.9	"	"	7000	-	7.4	230	1.85
5.5	**310**	**1.35**	246.5	"	"	7000	-	6.6	260	1.65
5.0	**340**	**1.25**	273.6	"	"	7000	-	6.0	285	1.5
4.7	**275**	**1.7**	288.6	**BG40G10-../D06LA4**	43	7000	-	5.7	210	2.2
3.9	**340**	**1.35**	353.5	"	"	7000	-	4.6	270	1.7
3.1	**445**	**1.05**	448.8	"	"	7000	-	3.7	355	1.3
2.6	**540**	**0.86**	534.2	"	"	7000	-	3.1	435	1.05
8.2	**205**	**3.1**	164.9	**BG50Z-../D06LA4**	47	10000	-	9.9	173	3.6
7.4	**230**	**2.7**	182.8	"	"	10000	-	8.9	193	3.3
6.6	**260**	**2.4**	204.7	"	"	10000	-	8.0	210	3.0
6.0	**285**	**2.2**	226.9	"	"	10000	-	7.2	235	2.7
5.3	**320**	**1.95**	258.6	"	"	10000	-	6.3	270	2.3
4.8	**355**	**1.75**	286.7	"	"	10000	-	5.7	300	2.1
3.9	**340**	**2.0**	351.7	**BG50G10-../D06LA4**	51	10000	-	4.7	265	2.6
3.1	**445**	**1.55**	446.5	"	"	10000	-	3.7	355	1.95
2.6	**540**	**1.3**	531.5	"	"	10000	-	3.1	435	1.6
2.2	**670**	**1.05**	621.3	"	"	10000	-	2.7	520	1.35
2.0	**730**	**0.95**	708.3	"	"	10000	-	2.3	620	1.1
1.8	**810**	**0.85**	785.1	"	"	10000	-	2.1	680	1.0
2.7	**485**	**2.7**	504.9	**BG60G20-../D06LA4**	100	16000	-	3.3	370	3.5
2.5	**520**	**2.5**	559.5	"	"	16000	-	2.9	425	3.1
2.1	**650**	**2.0**	651.3	"	"	16000	-	2.5	520	2.5
1.7	**800**	**1.65**	804.5	"	"	16000	-	2.1	610	2.1
1.6	**840**	**1.55**	891.5	"	"	16000	-	1.9	670	1.95
1.3	**1080**	**1.2**	1051	"	"	16000	-	1.6	830	1.55
1.2	**1180**	**1.1**	1168	"	"	16000	-	1.4	980	1.35
1.1	**1290**	**1.0**	1346	"	"	16000	-	1.3	1050	1.25
1.8	**750**	**3.3**	790.2	**BG70G20-../D06LA4**	130	20000	-	2.1	610	4.1
1.6	**860**	**2.9**	877.6	"	"	20000	-	1.9	690	3.6
1.4	**1000**	**2.5**	1035	"	"	20000	-	1.6	850	2.9
1.2	**1190**	**2.1**	1193	"	"	20000	-	1.4	990	2.5
1.0	**1470**	**1.7**	1389	"	"	20000	-	1.2	1190	2.1
0.9	**1670**	**1.5**	1543	"	"	20000	-	1.1	1320	1.9
0.85	**1780**	**1.4**	1666	"	"	20000	-	1.0	1470	1.7
0.7	**2200**	**1.15**	1994	"	"	20000	-	0.85	1780	1.4
0.65	**2400**	**1.05**	2215	"	"	20000	-	0.75	2050	1.2

P = 0.25 kW

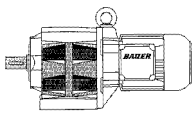
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
520	**4.55**	**2.0**	2.64	**BG05-../D05LA4**	7.0	420	-	620	3.85	2.3
400	**5.9**	**1.7**	3.38	"	"	460	-	480	4.95	2.0
295	**8.0**	**1.5**	4.59	"	"	490	-	355	6.7	1.8
250	**9.5**	**1.45**	5.46	"	"	490	-	300	7.9	1.75
205	**11.6**	**1.4**	6.60	"	"	510	-	250	9.5	1.7
174	**13.7**	**1.3**	7.80	"	"	530	-	210	11.3	1.6
166	**14.3**	**1.25**	8.15	"	"	510	-	199	11.9	1.5
159	**15**	**1.25**	8.51	"	"	550	-	191	12.5	1.5
128	**18.6**	**1.1**	10.59	"	"	590	-	153	15.6	1.3
117	**20**	**1.05**	11.55	"	"	600	-	141	16.9	1.25

P = 0.25 kW



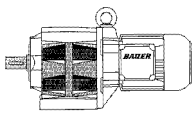
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
113	**21**	**1.0**	12.05	**BG05-../D05LA4**	"	510	-	135	17.6	1.2
108	**22**	**1.0**	12.60	"	"	610	-	129	18.5	1.2
99	**24**	**0.96**	13.75	"	"	630	-	118	20	1.15
89	**26.5**	**0.91**	15.23	"	"	640	-	107	22	1.1
82	**29**	**0.86**	16.62	"	"	660	-	98	24	1.05
360	**6.6**	**3.0**	3.78	**BG06-../D05LA4**	8.0	520	-	430	5.5	3.6
300	**7.9**	**2.8**	4.54	"	"	530	-	360	6.6	3.3
230	**10.3**	**2.3**	5.96	"	"	570	-	275	8.6	2.8
193	**12.3**	**2.1**	7.01	"	"	580	-	235	10.1	2.6
161	**14.8**	**1.9**	8.39	"	"	600	-	194	12.3	2.3
144	**16.5**	**1.8**	9.38	"	"	640	-	173	13.8	2.2
132	**18**	**1.7**	10.24	"	"	640	-	159	15	2.1
120	**19.8**	**1.6**	11.28	"	"	670	-	144	16.5	1.95
110	**21.5**	**1.55**	12.30	"	"	670	-	132	18	1.85
105	**22.5**	**1.45**	12.98	"	"	600	-	125	19.1	1.75
92	**25.5**	**1.35**	14.78	"	"	730	-	110	21.5	1.6
84	**28**	**1.25**	16.13	"	"	740	-	101	23.5	1.5
78	**30.5**	**1.25**	17.40	"	"	760	-	94	25	1.5
72	**33**	**1.2**	18.98	"	"	770	-	86	27.5	1.45
65	**36.5**	**1.1**	20.82	"	"	800	-	78	30.5	1.3
60	**39.5**	**1.1**	22.71	"	"	810	-	72	33	1.3
53	**45**	**1.0**	25.48	"	"	850	-	64	37	1.2
49	**48.5**	**0.93**	27.80	"	"	840	-	59	40	1.15
42	**56**	**0.8**	32.22	"	"	890	-	51	46.5	0.97
66	**36**	**3.3**	20.51	**BG10-../D06LA4**	13	1290	1800	79	30	4.0
62	**38.5**	**3.1**	22.04	"	"	1330	1860	74	32	3.8
56	**42.5**	**2.8**	24.42	"	"	1410	1970	67	35.5	3.4
52	**45.5**	**2.6**	26.26	"	"	1460	2000	62	38.5	3.1
46.5	**51**	**2.4**	29.09	"	"	1540	2150	56	42.5	2.8
43	**55**	**2.2**	31.52	"	"	1600	2200	52	45.5	2.6
39	**61**	**1.95**	34.92	"	"	1690	2350	46.5	51	2.4
34.5	**69**	**1.75**	39.70	"	"	1780	2450	41	58	2.1
31	**77**	**1.55**	43.99	"	"	1880	2600	37	64	1.9
29.5	**80**	**1.5**	46.55	"	"	1920	2650	35	68	1.75
26.5	**90**	**1.35**	51.57	"	"	2000	2800	31.5	75	1.6
23.5	**101**	**1.2**	57.48	"	"	2000	2800	28.5	83	1.45
21.5	**111**	**1.1**	63.69	"	"	2000	2800	25.5	93	1.3
20.5	**116**	**1.05**	66.00	"	"	2000	2800	25	95	1.25
18.5	**129**	**0.93**	73.13	"	"	2000	2800	22.5	106	1.15
17.5	**136**	**0.88**	77.40	**BG10Z-../D06LA4**	14	2000	2800	21	113	1.05
16	**149**	**0.81**	85.76	"	"	2000	2800	19	125	0.96
36.5	**65**	**3.1**	37.02	**BG20-../D06LA4**	16	4300	-	44	54	3.7
32.5	**73**	**2.7**	41.76	"	"	4500	-	39	61	3.3
29.5	**80**	**2.5**	46.38	"	"	4700	-	35	68	2.9
28.5	**83**	**2.4**	47.92	"	"	4750	-	34	70	2.9
25.5	**93**	**2.2**	53.22	"	"	4950	-	30.5	78	2.6
23	**103**	**1.95**	59.07	"	"	5000	-	27.5	86	2.3
21	**113**	**1.75**	65.62	"	"	5000	-	25	95	2.1
20	**119**	**1.7**	67.53	**BG20Z-../D06LA4**	16	5000	-	24	99	2.0
17.5	**136**	**1.45**	78.60	"	"	5000	-	21	113	1.75
15.5	**154**	**1.3**	87.30	"	"	5000	-	19	125	1.6
14.5	**164**	**1.2**	94.27	"	"	5000	-	17.5	136	1.45
13	**183**	**1.1**	104.7	"	"	5000	-	15.5	154	1.3
12	**198**	**1.0**	112.8	"	"	5000	-	14.5	164	1.2
11	**215**	**0.93**	125.3	"	"	5000	-	13	183	1.1
9.6	**245**	**0.82**	141.3	"	"	5000	-	11.5	205	0.98
26	**91**	**3.3**	52.44	**BG30-../D06LA4**	20	6000	-	31	77	3.9
23.5	**101**	**3.0**	58.18	"	"	6000	-	28	85	3.5
22.5	**106**	**2.8**	60.79	"	"	6000	-	27	88	3.4
20.5	**116**	**2.6**	67.44	"	"	6000	-	24.5	97	3.1

P = 0.25 kW



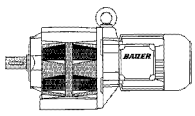
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
18.5	**129**	**2.3**	73.51	**BG30Z-../D06LA4**	22	6000	-	22.5	106	2.8
17	**140**	**2.1**	81.55	"	"	6000	-	20	119	2.5
16	**149**	**2.0**	86.13	"	"	6000	-	19	125	2.4
14.5	**164**	**1.85**	95.55	"	"	6000	-	17	140	2.1
12.5	**191**	**1.55**	109.6	"	"	6000	-	15	159	1.9
11.5	**205**	**1.45**	121.6	"	"	6000	-	13.5	176	1.7
11	**215**	**1.4**	128.5	"	"	6000	-	13	183	1.65
9.5	**250**	**1.2**	142.5	"	"	6000	-	11.5	205	1.45
9.0	**265**	**1.15**	151.5	"	"	6000	-	11	215	1.4
8.1	**290**	**1.05**	168.1	"	"	6000	-	9.7	245	1.2
7.4	**320**	**0.94**	182.9	"	"	6000	-	8.9	265	1.15
6.7	**355**	**0.85**	202.9	"	"	6000	-	8.0	295	1.0
18	**132**	**3.2**	75.19	**BG40Z-../D06LA4**	38	7000	-	22	108	3.9
16.5	**144**	**3.0**	82.00	"	"	7000	-	20	119	3.6
15	**159**	**2.7**	91.02	"	"	7000	-	18	132	3.2
14	**170**	**2.5**	96.86	"	"	7000	-	17	140	3.0
13	**183**	**2.3**	107.5	"	"	7000	-	15.5	154	2.8
11.5	**205**	**2.1**	121.3	"	"	7000	-	13.5	176	2.4
10.5	**225**	**1.9**	134.6	"	"	7000	-	12.5	191	2.2
9.6	**245**	**1.75**	141.4	"	"	7000	-	11.5	205	2.1
8.7	**270**	**1.55**	156.9	"	"	7000	-	10.5	225	1.9
8.2	**290**	**1.45**	166.1	"	"	7000	-	9.8	240	1.75
7.4	**320**	**1.35**	184.4	"	"	7000	-	8.8	270	1.55
6.8	**350**	**1.2**	199.9	"	"	7000	-	8.2	290	1.45
6.1	**390**	**1.1**	221.9	"	"	7000	-	7.4	320	1.35
5.5	**430**	**0.99**	246.5	"	"	7000	-	6.6	360	1.2
5.0	**475**	**0.89**	273.6	"	"	7000	-	6.0	395	1.1
4.7	**415**	**1.1**	288.6	**BG40G10-../D06LA4**	43	7000	-	5.7	325	1.45
3.9	**510**	**0.91**	353.5	"	"	7000	-	4.6	415	1.1
10.5	**225**	**2.8**	128.9	**BG50Z-../D06LA4**	47	10000	-	13	183	3.4
9.5	**250**	**2.5**	142.9	"	"	10000	-	11.5	205	3.1
8.2	**290**	**2.2**	164.9	"	"	10000	-	9.9	240	2.6
7.4	**320**	**1.95**	182.8	"	"	10000	-	8.9	265	2.4
6.6	**360**	**1.75**	204.7	"	"	10000	-	8.0	295	2.1
6.0	**395**	**1.6**	226.9	"	"	10000	-	7.2	330	1.9
5.3	**450**	**1.4**	258.6	"	"	10000	-	6.3	375	1.7
4.8	**495**	**1.25**	286.7	"	"	10000	-	5.7	415	1.5
3.9	**510**	**1.35**	351.7	**BG50G10-../D06LA4**	51	10000	-	4.7	405	1.7
3.1	**660**	**1.05**	446.5	"	"	10000	-	3.7	530	1.3
2.6	**800**	**0.86**	531.5	"	"	10000	-	3.1	650	1.05
4.5	**400**	**3.3**	306.1	**BG60G20-../D06LA4**	100	16000	-	5.3	320	4.1
4.1	**440**	**3.0**	334.3	"	"	16000	-	4.9	345	3.8
3.7	**490**	**2.7**	370.5	"	"	16000	-	4.4	385	3.4
3.1	**600**	**2.2**	437.3	"	"	16000	-	3.8	460	2.8
2.7	**730**	**1.8**	504.9	"	"	16000	-	3.3	570	2.3
2.5	**790**	**1.65**	559.5	"	"	16000	-	2.9	650	2.0
2.1	**970**	**1.35**	651.3	"	"	16000	-	2.5	790	1.65
1.7	**1200**	**1.1**	804.5	"	"	16000	-	2.1	930	1.4
1.6	**1260**	**1.05**	891.5	"	"	16000	-	1.9	1030	1.25
1.3	**1590**	**0.82**	1051	"	"	16000	-	1.6	1250	1.05
2.4	**840**	**3.0**	577.3	**BG70G20-../D06LA4**	130	20000	-	2.9	670	3.7
2.1	**960**	**2.6**	665.8	"	"	20000	-	2.5	780	3.2
1.8	**1120**	**2.2**	790.2	"	"	20000	-	2.1	930	2.7
1.6	**1280**	**1.95**	877.6	"	"	20000	-	1.9	1050	2.4
1.4	**1480**	**1.7**	1035	"	"	20000	-	1.6	1270	1.95
1.2	**1750**	**1.45**	1193	"	"	20000	-	1.4	1470	1.7
1.0	**2100**	**1.2**	1389	"	"	20000	-	1.2	1750	1.45
0.9	**2400**	**1.05**	1543	"	"	20000	-	1.1	1930	1.3

P = 0.3 kW



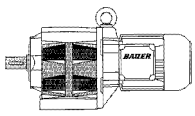
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
520	**5.5**	**1.65**	2.64	**BG05-../D07LA4**	11	420	-	620	4.6	1.95
400	**7.1**	**1.4**	3.38	"	"	460	-	480	5.9	1.7
295	**9.7**	**1.25**	4.59	"	"	490	-	355	8.0	1.5
250	**11.4**	**1.25**	5.46	"	"	490	-	300	9.5	1.45
205	**13.9**	**1.15**	6.60	"	"	510	-	250	11.4	1.4
174	**16.4**	**1.1**	7.80	"	"	530	-	210	13.6	1.3
166	**17.2**	**1.05**	8.15	"	"	510	-	199	14.3	1.25
159	**18**	**1.05**	8.51	"	"	550	-	191	15	1.25
128	**22**	**0.91**	10.59	"	"	590	-	153	18.7	1.05
117	**24**	**0.88**	11.55	"	"	600	-	141	20	1.05
113	**25**	**0.84**	12.05	"	"	510	-	135	21	1.0
108	**26.5**	**0.83**	12.60	"	"	610	-	129	22	1.0
99	**28.5**	**0.81**	13.75	"	"	630	-	118	24	0.96
360	**7.9**	**2.5**	3.78	**BG06-../D07LA4**	12	520	-	430	6.6	3.0
300	**9.5**	**2.3**	4.54	"	"	530	-	360	7.9	2.8
230	**12.4**	**1.95**	5.96	"	"	570	-	275	10.4	2.3
193	**14.8**	**1.75**	7.01	"	"	580	-	235	12.1	2.1
161	**17.7**	**1.6**	8.39	"	"	600	-	194	14.7	1.9
144	**19.8**	**1.5**	9.38	"	"	640	-	173	16.5	1.8
132	**21.5**	**1.45**	10.24	"	"	640	-	159	18	1.7
120	**23.5**	**1.35**	11.28	"	"	670	-	144	19.8	1.6
110	**26**	**1.25**	12.30	"	"	670	-	132	21.5	1.55
105	**27**	**1.2**	12.98	"	"	600	-	125	22.5	1.45
92	**31**	**1.1**	14.78	"	"	730	-	110	26	1.3
84	**34**	**1.05**	16.13	"	"	740	-	101	28	1.25
78	**36.5**	**1.05**	17.40	"	"	760	-	94	30	1.25
72	**39.5**	**1.0**	18.98	"	"	770	-	86	33	1.2
65	**44**	**0.91**	20.82	"	"	800	-	78	36.5	1.1
60	**47.5**	**0.91**	22.71	"	"	810	-	72	39.5	1.1
53	**54**	**0.83**	25.48	"	"	850	-	64	44.5	1.0
73	**39**	**3.1**	18.51	**BG10-../D07LA4**	15	1210	1690	88	32.5	3.7
66	**43**	**2.8**	20.51	"	"	1290	1800	79	36	3.3
62	**46**	**2.6**	22.04	"	"	1330	1860	74	38.5	3.1
56	**51**	**2.4**	24.42	"	"	1410	1970	67	42.5	2.8
52	**55**	**2.2**	26.26	"	"	1460	2000	62	46	2.6
46.5	**61**	**1.95**	29.09	"	"	1540	2150	56	51	2.4
43	**66**	**1.8**	31.52	"	"	1600	2200	52	55	2.2
39	**73**	**1.65**	34.92	"	"	1690	2350	46.5	61	1.95
34.5	**83**	**1.45**	39.70	"	"	1780	2450	41	69	1.75
31	**92**	**1.3**	43.99	"	"	1880	2600	37	77	1.55
29.5	**97**	**1.25**	46.55	"	"	1920	2650	35	81	1.5
26.5	**108**	**1.1**	51.57	"	"	2000	2800	31.5	90	1.35
23.5	**121**	**0.99**	57.48	"	"	2000	2800	28.5	100	1.2
21.5	**133**	**0.9**	63.69	"	"	2000	2800	25.5	112	1.05
20.5	**139**	**0.86**	66.00	"	"	2000	2800	25	114	1.05
44	**65**	**3.1**	30.94	**BG20-../D07LA4**	18	4000	-	53	54	3.7
41	**69**	**2.9**	33.33	"	"	4100	-	49	58	3.4
36.5	**78**	**2.6**	37.02	"	"	4300	-	44	65	3.1
32.5	**88**	**2.3**	41.76	"	"	4500	-	39	73	2.7
29.5	**97**	**2.1**	46.38	"	"	4700	-	35	81	2.5
28.5	**100**	**2.0**	47.92	"	"	4750	-	34	84	2.4
25.5	**112**	**1.8**	53.22	"	"	4950	-	30.5	93	2.2
23	**124**	**1.6**	59.07	"	"	5000	-	27.5	104	1.9
21	**136**	**1.45**	65.62	"	"	5000	-	25	114	1.75
20	**143**	**1.4**	67.53	**BG20Z-../D07LA4**	19	5000	-	24	119	1.7
17.5	**163**	**1.25**	78.60	"	"	5000	-	21	136	1.45
15.5	**184**	**1.1**	87.30	"	"	5000	-	19	150	1.35
14.5	**197**	**1.0**	94.27	"	"	5000	-	17.5	163	1.25
13	**220**	**0.91**	104.7	"	"	5000	-	15.5	184	1.1
12	**235**	**0.85**	112.8	"	"	5000	-	14.5	197	1.0

P = 0.3 kW



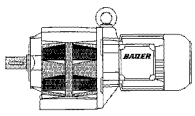
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
29	**98**	**3.1**	47.11	**BG30-../D07LA4**	22	6000	-	34.5	83	3.6
26	**110**	**2.7**	52.44	"	"	6000	-	31	92	3.3
23.5	**121**	**2.5**	58.18	"	"	6000	-	28	102	2.9
22.5	**127**	**2.4**	60.79	"	"	6000	-	27	106	2.8
20.5	**139**	**2.2**	67.44	"	"	6000	-	24.5	116	2.6
18.5	**154**	**1.95**	73.51	**BG30Z-../D07LA4**	25	6000	-	22.5	127	2.4
17	**168**	**1.8**	81.55	"	"	6000	-	20	143	2.1
16	**179**	**1.7**	86.13	"	"	6000	-	19	150	2.0
14.5	**197**	**1.5**	95.55	"	"	6000	-	17	168	1.8
12.5	**225**	**1.35**	109.6	"	"	6000	-	15	191	1.55
11.5	**245**	**1.2**	121.6	"	"	6000	-	13.5	210	1.45
11	**260**	**1.15**	128.5	"	"	6000	-	13	220	1.35
9.5	**300**	**1.0**	142.5	"	"	6000	-	11.5	245	1.2
9.0	**315**	**0.95**	151.5	"	"	6000	-	11	260	1.15
8.1	**350**	**0.86**	168.1	"	"	6000	-	9.7	295	1.0
20	**143**	**3.0**	67.74	**BG40Z-../D07LA4**	40	7000	-	24	119	3.6
18	**159**	**2.7**	75.19	"	"	7000	-	22	130	3.3
16.5	**173**	**2.5**	82.00	"	"	7000	-	20	143	3.0
15	**191**	**2.2**	91.02	"	"	7000	-	18	159	2.7
14	**200**	**2.1**	96.86	"	"	7000	-	17	168	2.5
13	**220**	**1.95**	107.5	"	"	7000	-	15.5	184	2.3
11.5	**245**	**1.75**	121.3	"	"	7000	-	13.5	210	2.0
10.5	**270**	**1.55**	134.6	"	"	7000	-	12.5	225	1.9
9.6	**295**	**1.45**	141.4	"	"	7000	-	11.5	245	1.75
8.7	**325**	**1.3**	156.9	"	"	7000	-	10.5	270	1.55
8.2	**345**	**1.25**	166.1	"	"	7000	-	9.8	290	1.45
7.4	**385**	**1.1**	184.4	"	"	7000	-	8.8	325	1.3
6.8	**420**	**1.0**	199.9	"	"	7000	-	8.2	345	1.25
6.1	**465**	**0.91**	221.9	"	"	7000	-	7.4	385	1.1
5.5	**520**	**0.82**	246.5	"	"	7000	-	6.6	430	0.99
4.7	**510**	**0.91**	288.6	**BG40G10-../D07LA4**	46	7000	-	5.7	410	1.15
14.5	**197**	**3.2**	95.58	**BG50Z-../D07LA4**	50	10000	-	17	168	3.8
13	**220**	**2.9**	106.0	"	"	10000	-	15.5	184	3.4
10.5	**270**	**2.3**	128.9	"	"	10000	-	13	220	2.9
9.5	**300**	**2.1**	142.9	"	"	10000	-	11.5	245	2.6
8.2	**345**	**1.85**	164.9	"	"	10000	-	9.9	285	2.2
7.4	**385**	**1.65**	182.8	"	"	10000	-	8.9	320	1.95
6.6	**430**	**1.45**	204.7	"	"	10000	-	8.0	355	1.75
6.0	**475**	**1.35**	226.9	"	"	10000	-	7.2	395	1.6
5.3	**540**	**1.15**	258.6	"	"	10000	-	6.3	450	1.4
4.8	**590**	**1.05**	286.7	"	"	10000	-	5.7	500	1.25
3.9	**630**	**1.1**	351.7	**BG50G10-../D07LA4**	54	10000	-	4.7	510	1.35
3.1	**810**	**0.85**	446.5	"	"	10000	-	3.7	660	1.05
4.9	**465**	**2.8**	276.2	**BG60G20-../D07LA4**	102	16000	-	5.9	365	3.6
4.5	**500**	**2.6**	306.1	"	"	16000	-	5.3	410	3.2
4.1	**550**	**2.4**	334.3	"	"	16000	-	4.9	440	3.0
3.7	**610**	**2.1**	370.5	"	"	16000	-	4.4	495	2.6
3.1	**750**	**1.75**	437.3	"	"	16000	-	3.8	580	2.2
2.7	**910**	**1.45**	504.9	"	"	16000	-	3.3	710	1.85
2.5	**980**	**1.35**	559.5	"	"	16000	-	2.9	820	1.6
2.1	**1190**	**1.1**	651.3	"	"	16000	-	2.5	980	1.35
1.7	**1480**	**0.88**	804.5	"	"	16000	-	2.1	1160	1.1
1.6	**1560**	**0.83**	891.5	"	"	16000	-	1.9	1280	1.0
2.8	**870**	**2.9**	495.9	**BG70G20-../D07LA4**	132	20000	-	3.3	720	3.5
2.4	**1040**	**2.4**	577.3	"	"	20000	-	2.9	840	3.0
2.1	**1190**	**2.1**	665.8	"	"	20000	-	2.5	970	2.6
1.8	**1390**	**1.8**	790.2	"	"	20000	-	2.1	1160	2.2
1.6	**1580**	**1.6**	877.6	"	"	20000	-	1.9	1300	1.9
1.4	**1820**	**1.35**	1035	"	"	20000	-	1.6	1570	1.6
1.2	**2150**	**1.15**	1193	"	"	20000	-	1.4	1810	1.4
1.0	**2600**	**0.96**	1389	"	"	20000	-	1.2	2100	1.2

P = 0.37 kW



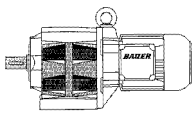
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
520	**6.7**	**1.35**	2.64	**BG05-../D07LA4**	11	420	-	620	5.6	1.6
400	**8.8**	**1.15**	3.38	"	"	460	-	480	7.3	1.35
295	**11.9**	**1.0**	4.59	"	"	490	-	355	9.9	1.2
250	**14.1**	**0.99**	5.46	"	"	490	-	300	11.7	1.2
205	**17.2**	**0.93**	6.60	"	"	510	-	250	14.1	1.15
174	**20**	**0.9**	7.80	"	"	530	-	210	16.8	1.05
166	**21**	**0.86**	8.15	"	"	510	-	199	17.7	1.0
159	**22**	**0.86**	8.51	"	"	550	-	191	18.5	1.05
360	**9.8**	**2.0**	3.78	**BG06-../D07LA4**	12	520	-	430	8.2	2.4
300	**11.7**	**1.9**	4.54	"	"	530	-	360	9.8	2.2
230	**15.3**	**1.55**	5.96	"	"	570	-	275	12.8	1.9
193	**18.3**	**1.4**	7.01	"	"	580	-	235	15	1.75
161	**21.5**	**1.3**	8.39	"	"	600	-	194	18.2	1.55
144	**24.5**	**1.2**	9.38	"	"	640	-	173	20	1.5
132	**26.5**	**1.15**	10.24	"	"	640	-	159	22	1.4
120	**29**	**1.1**	11.28	"	"	670	-	144	24.5	1.3
110	**32**	**1.05**	12.30	"	"	670	-	132	26.5	1.25
105	**33.5**	**0.99**	12.98	"	"	600	-	125	28	1.2
92	**38**	**0.89**	14.78	"	"	730	-	110	32	1.05
84	**42**	**0.83**	16.13	"	"	740	-	101	34.5	1.0
78	**45**	**0.84**	17.40	"	"	760	-	94	37.5	1.0
72	**49**	**0.82**	18.98	"	"	770	-	86	41	0.98
103	**34**	**3.2**	13.21	**BG10-../D07LA4**	15	1070	1490	123	28.5	3.9
93	**37.5**	**3.0**	14.58	"	"	1100	1540	112	31.5	3.6
84	**42**	**2.8**	16.15	"	"	1140	1590	101	34.5	3.4
73	**48**	**2.5**	18.51	"	"	1210	1690	88	40	3.0
66	**53**	**2.3**	20.51	"	"	1290	1800	79	44.5	2.7
62	**56**	**2.1**	22.04	"	"	1330	1860	74	47.5	2.5
56	**63**	**1.9**	24.42	"	"	1410	1970	67	52	2.3
52	**67**	**1.8**	26.26	"	"	1460	2000	62	56	2.1
46.5	**75**	**1.6**	29.09	"	"	1540	2150	56	63	1.9
43	**82**	**1.45**	31.52	"	"	1600	2200	52	67	1.8
39	**90**	**1.35**	34.92	"	"	1690	2350	46.5	75	1.6
34.5	**102**	**1.2**	39.70	"	"	1780	2450	41	86	1.4
31	**113**	**1.05**	43.99	"	"	1880	2600	37	95	1.25
29.5	**119**	**1.0**	46.55	"	"	1920	2650	35	100	1.2
26.5	**133**	**0.9**	51.57	"	"	2000	2800	31.5	112	1.05
23.5	**150**	**0.8**	57.48	"	"	2000	2800	28.5	123	0.98
53	**66**	**3.0**	25.79	**BG20-../D07LA4**	18	3700	-	63	56	3.6
48.5	**72**	**2.8**	27.85	"	"	3800	-	59	59	3.4
44	**80**	**2.5**	30.94	"	"	4000	-	53	66	3.0
41	**86**	**2.3**	33.33	"	"	4100	-	49	72	2.8
36.5	**96**	**2.1**	37.02	"	"	4300	-	44	80	2.5
32.5	**108**	**1.85**	41.76	"	"	4500	-	39	90	2.2
29.5	**119**	**1.7**	46.38	"	"	4700	-	35	100	2.0
28.5	**123**	**1.65**	47.92	"	"	4750	-	34	103	1.95
25.5	**138**	**1.45**	53.22	"	"	4950	-	30.5	115	1.75
23	**153**	**1.3**	59.07	"	"	5000	-	27.5	128	1.55
21	**168**	**1.2**	65.62	"	"	5000	-	25	141	1.4
20	**176**	**1.15**	67.53	**BG20Z-../D07LA4**	19	5000	-	24	147	1.35
17.5	**200**	**1.0**	78.60	"	"	5000	-	21	168	1.2
15.5	**225**	**0.89**	87.30	"	"	5000	-	19	185	1.1
14.5	**240**	**0.83**	94.27	"	"	5000	-	17.5	200	1.0
38.5	**91**	**3.3**	35.17	**BG30-../D07LA4**	22	5500	-	46.5	75	4.0
35	**100**	**3.0**	39.02	"	"	5800	-	42	84	3.6
32	**110**	**2.7**	42.46	"	"	5900	-	38.5	91	3.3
29	**121**	**2.5**	47.11	"	"	6000	-	34.5	102	2.9
26	**135**	**2.2**	52.44	"	"	6000	-	31	113	2.7
23.5	**150**	**2.0**	58.18	"	"	6000	-	28	126	2.4
22.5	**157**	**1.9**	60.79	"	"	6000	-	27	130	2.3
20.5	**172**	**1.75**	67.44	"	"	6000	-	24.5	144	2.1

P = 0.37 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
18.5	**191**	**1.55**	73.51	**BG30Z-../D07LA4**	25	6000	-	22.5	157	1.9
17	**205**	**1.45**	81.55	"	"	6000	-	20	176	1.7
16	**220**	**1.35**	86.13	"	"	6000	-	19	185	1.6
14.5	**240**	**1.25**	95.55	"	"	6000	-	17	205	1.45
12.5	**280**	**1.05**	109.6	"	"	6000	-	15	235	1.3
11.5	**305**	**0.98**	121.6	"	"	6000	-	13.5	260	1.15
11	**320**	**0.94**	128.5	"	"	6000	-	13	270	1.1
9.5	**370**	**0.81**	142.5	"	"	6000	-	11.5	305	0.98
20	**176**	**2.4**	67.74	**BG40Z-../D07LA4**	40	7000	-	24	147	2.9
18	**196**	**2.2**	75.19	"	"	7000	-	22	160	2.7
16.5	**210**	**2.0**	82.00	"	"	7000	-	20	176	2.4
15	**235**	**1.8**	91.02	"	"	7000	-	18	196	2.2
14	**250**	**1.7**	96.86	"	"	7000	-	17	205	2.1
13	**270**	**1.55**	107.5	"	"	7000	-	15.5	225	1.9
11.5	**305**	**1.4**	121.3	"	"	7000	-	13.5	260	1.65
10.5	**335**	**1.25**	134.6	"	"	7000	-	12.5	280	1.5
9.6	**365**	**1.15**	141.4	"	"	7000	-	11.5	305	1.4
8.7	**405**	**1.05**	156.9	"	"	7000	-	10.5	335	1.25
8.2	**430**	**0.99**	166.1	"	"	7000	-	9.8	360	1.2
7.4	**475**	**0.89**	184.4	"	"	7000	-	8.8	400	1.05
6.8	**510**	**0.83**	199.9	"	"	7000	-	8.2	430	0.99
17	**205**	**3.1**	79.78	**BG50Z-../D07LA4**	50	10000	-	20.5	172	3.7
14.5	**240**	**2.6**	95.58	"	"	10000	-	17	205	3.1
13	**270**	**2.3**	106.0	"	"	10000	-	15.5	225	2.8
10.5	**335**	**1.9**	128.9	"	"	10000	-	13	270	2.3
9.5	**370**	**1.7**	142.9	"	"	10000	-	11.5	305	2.1
8.2	**430**	**1.45**	164.9	"	"	10000	-	9.9	355	1.75
7.4	**475**	**1.35**	182.8	"	"	10000	-	8.9	395	1.6
6.6	**530**	**1.2**	204.7	"	"	10000	-	8.0	440	1.45
6.0	**580**	**1.1**	226.9	"	"	10000	-	7.2	490	1.3
5.3	**660**	**0.95**	258.6	"	"	10000	-	6.3	560	1.15
4.8	**730**	**0.86**	286.7	"	"	10000	-	5.7	610	1.05
3.9	**800**	**0.86**	351.7	**BG50G10-../D07LA4**	54	10000	-	4.7	650	1.05
4.9	**600**	**2.2**	276.2	**BG60G20-../D07LA4**	102	16000	-	5.9	480	2.7
4.5	**650**	**2.0**	306.1	"	"	16000	-	5.3	530	2.5
4.1	**720**	**1.8**	334.3	"	"	16000	-	4.9	580	2.2
3.7	**790**	**1.65**	370.5	"	"	16000	-	4.4	640	2.0
3.1	**970**	**1.35**	437.3	"	"	16000	-	3.8	760	1.7
2.7	**1160**	**1.1**	504.9	"	"	16000	-	3.3	920	1.4
2.5	**1240**	**1.05**	559.5	"	"	16000	-	2.9	1050	1.25
2.1	**1510**	**0.86**	651.3	"	"	16000	-	2.5	1240	1.05
3.5	**860**	**2.9**	387.6	**BG70G20-../D07LA4**	132	20000	-	4.2	690	3.6
3.3	**940**	**2.7**	417.8	"	"	20000	-	3.9	780	3.2
2.8	**1110**	**2.3**	495.9	"	"	20000	-	3.3	920	2.7
2.4	**1320**	**1.9**	577.3	"	"	20000	-	2.9	1070	2.3
2.1	**1510**	**1.65**	665.8	"	"	20000	-	2.5	1240	2.0
1.8	**1760**	**1.4**	790.2	"	"	20000	-	2.1	1480	1.7
1.6	**2000**	**1.25**	877.6	"	"	20000	-	1.9	1650	1.5
1.4	**2300**	**1.1**	1035	"	"	20000	-	1.6	1980	1.25
1.2	**2700**	**0.93**	1193	"	"	20000	-	1.4	2250	1.1

P = 0.55 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
500	**10.5**	**1.7**	2.82	**BG06-../D08MA4**	16	470	-	600	8.7	2.1
375	**14**	**1.45**	3.78	"	"	520	-	445	11.8	1.7
310	**16.9**	**1.3**	4.54	"	"	530	-	375	14	1.55
235	**22**	**1.1**	5.96	"	"	570	-	285	18.4	1.3
200	**26**	**1.0**	7.01	"	"	580	-	240	21.5	1.2
167	**31**	**0.9**	8.39	"	"	600	-	205	25.5	1.1
150	**35**	**0.86**	9.38	"	"	640	-	180	29	1.05
137	**38**	**0.82**	10.24	"	"	640	-	165	31.5	0.98
210	**25**	**3.2**	6.78	**BG10-../D08MA4**	16	660	920	250	21	3.9
174	**30**	**2.9**	8.07	"	"	660	920	210	25	3.5
151	**34.5**	**2.8**	9.33	"	"	950	1330	181	29	3.3
136	**38.5**	**2.6**	10.34	"	"	1000	1400	163	32	3.1
118	**44.5**	**2.4**	11.92	"	"	1030	1440	141	37	2.8
106	**49.5**	**2.2**	13.21	"	"	1070	1490	128	41	2.7
97	**54**	**2.1**	14.58	"	"	1100	1540	116	45	2.5
87	**60**	**1.95**	16.15	"	"	1140	1590	105	50	2.3
76	**69**	**1.75**	18.51	"	"	1210	1690	91	57	2.1
69	**76**	**1.6**	20.51	"	"	1290	1800	82	64	1.9
64	**82**	**1.45**	22.04	"	"	1330	1860	77	68	1.75
58	**90**	**1.35**	24.42	"	"	1410	1970	69	76	1.6
54	**97**	**1.25**	26.26	"	"	1460	2000	64	82	1.45
48.5	**108**	**1.1**	29.09	"	"	1540	2150	58	90	1.35
44.5	**118**	**1.0**	31.52	"	"	1600	2200	54	97	1.25
40.5	**129**	**0.93**	34.92	"	"	1690	2350	48.5	108	1.1
35.5	**147**	**0.82**	39.70	"	"	1780	2450	42.5	123	0.98
96	**54**	**3.2**	14.67	**BG20-../D08MA4**	19	3050	-	115	45.5	3.8
90	**58**	**3.1**	15.58	"	"	3100	-	108	48.5	3.6
81	**64**	**2.9**	17.31	"	"	3200	-	98	53	3.5
71	**73**	**2.7**	19.95	"	"	3350	-	85	61	3.2
64	**82**	**2.4**	22.16	"	"	3500	-	76	69	2.9
61	**86**	**2.3**	23.22	"	"	3550	-	73	71	2.8
55	**95**	**2.1**	25.79	"	"	3700	-	66	79	2.5
51	**102**	**1.95**	27.85	"	"	3800	-	61	86	2.3
45.5	**115**	**1.75**	30.94	"	"	4000	-	55	95	2.1
42.5	**123**	**1.65**	33.33	"	"	4100	-	51	102	1.95
38	**138**	**1.45**	37.02	"	"	4300	-	45.5	115	1.75
34	**154**	**1.3**	41.76	"	"	4500	-	40.5	129	1.55
30.5	**172**	**1.15**	46.38	"	"	4700	-	36.5	143	1.4
29.5	**178**	**1.1**	47.92	"	"	4750	-	35.5	147	1.35
26.5	**198**	**1.0**	53.22	"	"	4950	-	32	164	1.2
24	**215**	**0.93**	59.07	"	"	5000	-	28.5	184	1.1
21.5	**240**	**0.83**	65.62	"	"	5000	-	26	200	1.0
21	**250**	**0.8**	67.53	**BG20Z-../D08MA4**	20	5000	-	25	210	0.95
56	**93**	**3.2**	25.45	**BG30-../D08MA4**	23	4850	-	67	78	3.8
50	**105**	**2.9**	28.24	"	"	5100	-	60	87	3.4
47	**111**	**2.7**	29.83	"	"	5200	-	57	92	3.3
42.5	**123**	**2.4**	33.09	"	"	5400	-	51	102	2.9
40	**131**	**2.3**	35.17	"	"	5500	-	48	109	2.8
36	**145**	**2.1**	39.02	"	"	5800	-	43.5	120	2.5
33	**159**	**1.9**	42.46	"	"	5900	-	40	131	2.3
30	**175**	**1.7**	47.11	"	"	6000	-	36	145	2.1
27	**194**	**1.55**	52.44	"	"	6000	-	32.5	161	1.85
24.5	**210**	**1.45**	58.18	"	"	6000	-	29	181	1.65
23.5	**220**	**1.35**	60.79	"	"	6000	-	28	187	1.6
21	**250**	**1.2**	67.44	"	"	6000	-	25	210	1.45
19.5	**265**	**1.15**	73.51	**BG30Z-../D08MA4**	26	6000	-	23	225	1.35
17.5	**300**	**1.0**	81.55	"	"	6000	-	21	250	1.2
16.5	**315**	**0.95**	86.13	"	"	6000	-	20	260	1.15
15	**350**	**0.86**	95.55	"	"	6000	-	18	290	1.05

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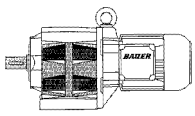

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
41	**128**	**3.3**	34.20	**BG40-../D08MA4**	38	7000	-	49.5	106	4.0
37	**141**	**3.0**	37.96	"	"	7000	-	44.5	118	3.6
35	**150**	**2.8**	40.19	"	"	7000	-	42	125	3.4
31.5	**166**	**2.6**	44.62	"	"	7000	-	38	138	3.1
29	**181**	**2.3**	48.36	"	"	7000	-	35	150	2.8
26.5	**198**	**2.1**	53.69	"	"	7000	-	31.5	166	2.6
23.5	**220**	**1.95**	59.64	"	"	7000	-	28.5	184	2.3
21.5	**240**	**1.75**	66.20	"	"	7000	-	25.5	205	2.1
21	**250**	**1.7**	67.74	**BG40Z-../D08MA4**	42	7000	-	25	210	2.0
19	**275**	**1.55**	75.19	"	"	7000	-	22.5	230	1.85
17.5	**300**	**1.4**	82.00	"	"	7000	-	20.5	255	1.65
15.5	**335**	**1.25**	91.02	"	"	7000	-	18.5	280	1.5
14.5	**360**	**1.2**	96.86	"	"	7000	-	17.5	300	1.4
13.5	**385**	**1.1**	107.5	"	"	7000	-	16	325	1.3
12	**435**	**0.98**	121.3	"	"	7000	-	14	375	1.15
10.5	**500**	**0.85**	134.6	"	"	7000	-	12.5	420	1.0
10	**520**	**0.82**	141.4	"	"	7000	-	12	435	0.98
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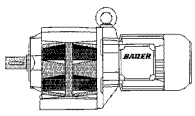
27	**194**	**3.2**	52.12	**BG50-../D08MA4**	46	10000	-	32.5	161	3.9
24	**215**	**2.9**	59.42	"	"	10000	-	28.5	184	3.4
21.5	**240**	**2.6**	65.86	"	"	10000	-	26	200	3.2
19.5	**265**	**2.4**	71.97	**BG50Z-../D08MA4**	51	10000	-	23.5	220	2.9
18	**290**	**2.2**	79.78	"	"	10000	-	21.5	240	2.6
15	**350**	**1.8**	95.58	"	"	10000	-	18	290	2.2
13.5	**385**	**1.65**	106.0	"	"	10000	-	16	325	1.95
11	**475**	**1.35**	128.9	"	"	10000	-	13.5	385	1.65
9.8	**530**	**1.2**	142.9	"	"	10000	-	12	435	1.45
8.5	**610**	**1.05**	164.9	"	"	10000	-	10.5	500	1.25
7.7	**680**	**0.93**	182.8	"	"	10000	-	9.2	570	1.1
6.9	**760**	**0.83**	204.7	"	"	10000	-	8.3	630	1.0
:										
14	**375**	**3.2**	101.0	**BG60Z-../D08MA4**	96	16000	-	17	305	3.9
12	**435**	**2.8**	119.2	"	"	16000	-	14.5	360	3.3
11	**475**	**2.5**	132.1	"	"	16000	-	13	400	3.0
8.9	**590**	**2.0**	158.0	"	"	16000	-	11	475	2.5
8.0	**650**	**1.85**	175.1	"	"	16000	-	9.6	540	2.2
6.9	**760**	**1.6**	204.6	"	"	16000	-	8.3	630	1.9
6.2	**840**	**1.45**	226.7	"	"	16000	-	7.5	700	1.7
5.7	**920**	**1.3**	247.7	"	"	16000	-	6.8	770	1.55
5.2	**1010**	**1.2**	274.5	"	"	16000	-	6.2	840	1.45
5.1	**910**	**1.45**	276.2	**BG60G20-../D08MA4**	103	16000	-	6.1	740	1.75
4.6	**1010**	**1.3**	306.1	"	"	16000	-	5.5	820	1.6
4.2	**1110**	**1.15**	334.3	"	"	16000	-	5.1	880	1.5
3.8	**1220**	**1.05**	370.5	"	"	16000	-	4.6	980	1.35
3.3	**1420**	**0.92**	437.3	"	"	16000	-	3.9	1180	1.1
:										
7.3	**710**	**3.2**	194.4	**BG70Z-../D08MA4**	136	20000	-	8.7	600	3.8
6.7	**780**	**2.9**	210.5	"	"	20000	-	8.0	650	3.5
5.7	**920**	**2.5**	249.8	"	"	20000	-	6.8	770	3.0
5.5	**840**	**3.0**	255.5	**BG70G20-../D08MA4**	133	20000	-	6.6	680	3.7
5.1	**910**	**2.7**	276.7	"	"	20000	-	6.1	740	3.4
4.3	**1080**	**2.3**	328.4	"	"	20000	-	5.2	870	2.9
3.7	**1270**	**1.95**	387.6	"	"	20000	-	4.4	1040	2.4
3.4	**1420**	**1.75**	417.8	"	"	20000	-	4.1	1150	2.2
2.9	**1660**	**1.5**	495.9	"	"	20000	-	3.4	1390	1.8
2.5	**1950**	**1.3**	577.3	"	"	20000	-	3.0	1600	1.55
2.2	**2200**	**1.15**	665.8	"	"	20000	-	2.6	1850	1.35
1.8	**2700**	**0.93**	790.2	"	"	20000	-	2.2	2150	1.15
1.6	**3050**	**0.82**	877.6	"	"	20000	-	2.0	2400	1.05
:										
2.9	**1430**	**3.2**	484.3	**BG80G40-../D08MA4**	215	26000	-	3.5	1120	4.1
2.5	**1720**	**2.7**	572.0	"	"	26000	-	3.0	1370	3.4
2.2	**1900**	**2.4**	657.8	"	"	26000	-	2.6	1540	3.0
2.0	**2100**	**2.2**	730.3	"	"	26000	-	2.4	1690	2.7
1.8	**2350**	**1.95**	817.4	"	"	26000	-	2.1	1970	2.3
1.6	**2700**	**1.7**	907.6	"	"	26000	-	1.9	2200	2.1

P = 0.55 kW

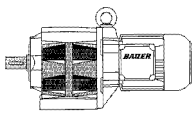


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
1.4	**3200**	**1.45**	1042	**BG80G40-../D08MA4**	"	26000	-	1.7	2500	1.85
1.2	**3800**	**1.2**	1261	"	"	26000	-	1.4	3200	1.45
1.0	**4700**	**0.98**	1400	"	"	26000	-	1.2	3800	1.2
1.2	**3700**	**2.5**	1174	**BG90G50-../D08MA4**	324	65000	-	1.5	2800	3.3
1.1	**4100**	**2.2**	1301	"	"	65000	-	1.3	3350	2.7
0.9	**5100**	**1.8**	1583	"	"	65000	-	1.1	4100	2.2
0.8	**5800**	**1.6**	1756	"	"	65000	-	1.0	4550	2.0
0.7	**6800**	**1.35**	2026	"	"	65000	-	0.85	5500	1.65
0.6	**8000**	**1.15**	2514	"	"	65000	-	0.7	6800	1.35
0.55	**8800**	**1.05**	2786	"	"	65000	-	0.65	7400	1.25
0.65	**6000**	**3.1**	2154	**BG100G50-../D08MA4**	512	90000	-	0.8	4500	4.1
0.55	**7100**	**2.6**	2656	"	"	90000	-	0.65	5700	3.2
0.48	**8600**	**2.2**	2952	"	"	90000	-	0.6	6500	2.8
0.43	**9700**	**1.9**	3286	"	"	90000	-	0.55	7000	2.6
0.39	**10900**	**1.7**	3644	"	"	90000	-	0.47	8600	2.2
0.33	**13400**	**1.4**	4366	"	"	90000	-	0.39	10900	1.7
0.29	**15600**	**1.2**	4839	"	"	90000	-	0.35	12500	1.5

P = 0.75 kW

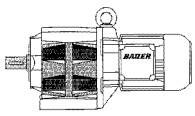
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
500	**14.3**	**1.25**	2.82	**BG06-../D08LA4**	18	470	-	600	11.9	1.5
375	**19.1**	**1.05**	3.78	"	"	520	-	445	16	1.25
310	**23**	**0.96**	4.54	"	"	530	-	375	19.1	1.15
235	**30**	**0.8**	5.96	"	"	570	-	285	25	0.96
325	**22**	**3.1**	4.36	**BG10-../D08LA4**	18	650	910	390	18.3	3.7
265	**27**	**2.8**	5.34	"	"	620	910	315	22.5	3.3
210	**34**	**2.4**	6.78	"	"	660	920	250	28.5	2.8
174	**41**	**2.1**	8.07	"	"	660	920	210	34	2.6
151	**47**	**2.1**	9.33	"	"	950	1330	181	39.5	2.5
136	**52**	**1.9**	10.34	"	"	1000	1400	163	43.5	2.3
118	**60**	**1.75**	11.92	"	"	1030	1440	141	50	2.1
106	**67**	**1.65**	13.21	"	"	1070	1490	128	55	2.0
97	**73**	**1.55**	14.58	"	"	1100	1540	116	61	1.85
87	**82**	**1.45**	16.15	"	"	1140	1590	105	68	1.7
76	**94**	**1.3**	18.51	"	"	1210	1690	91	78	1.55
69	**103**	**1.15**	20.51	"	"	1290	1800	82	87	1.4
64	**111**	**1.1**	22.04	"	"	1330	1860	77	93	1.3
58	**123**	**0.98**	24.42	"	"	1410	1970	69	103	1.15
54	**132**	**0.91**	26.26	"	"	1460	2000	64	111	1.1
48.5	**147**	**0.82**	29.09	"	"	1540	2150	58	123	0.98
169	**42**	**2.9**	8.29	**BG20-../D08LA4**	20	2250	-	205	34.5	3.5
158	**45**	**3.2**	8.91	"	"	2600	-	189	37.5	3.8
146	**49**	**2.5**	9.65	"	"	2250	-	175	40.5	3.0
133	**53**	**2.9**	10.54	"	"	2700	-	160	44.5	3.5
120	**59**	**2.7**	11.71	"	"	2800	-	144	49.5	3.2
106	**67**	**2.5**	13.21	"	"	2900	-	128	55	3.0
96	**74**	**2.3**	14.67	"	"	3050	-	115	62	2.8
90	**79**	**2.2**	15.58	"	"	3100	-	108	66	2.7
81	**88**	**2.1**	17.31	"	"	3200	-	98	73	2.5
71	**100**	**1.95**	19.95	"	"	3350	-	85	84	2.3
64	**111**	**1.8**	22.16	"	"	3500	-	76	94	2.1
61	**117**	**1.7**	23.22	"	"	3550	-	73	98	2.0
55	**130**	**1.55**	25.79	"	"	3700	-	66	108	1.85
51	**140**	**1.45**	27.85	"	"	3800	-	61	117	1.7
45.5	**157**	**1.25**	30.94	"	"	4000	-	55	130	1.55
42.5	**168**	**1.2**	33.33	"	"	4100	-	51	140	1.45
38	**188**	**1.05**	37.02	"	"	4300	-	45.5	157	1.25

P = 0.75 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
34	**210**	**0.95**	41.76	**BG20-../D08LA4**	"	4500	-	40.5	176	1.15
30.5	**230**	**0.87**	46.38	"	"	4700	-	36.5	196	1.0
29.5	**240**	**0.83**	47.92	"	"	4750	-	35.5	200	1.0
74	**96**	**3.1**	18.93	**BG30-../D08LA4**	25	4100	-	89	80	3.8
71	**100**	**3.0**	19.99	"	"	4200	-	85	84	3.6
64	**111**	**2.7**	22.18	"	"	4600	-	76	94	3.2
56	**127**	**2.4**	25.45	"	"	4850	-	67	106	2.8
50	**143**	**2.1**	28.24	"	"	5100	-	60	119	2.5
47	**152**	**1.95**	29.83	"	"	5200	-	57	125	2.4
42.5	**168**	**1.8**	33.09	"	"	5400	-	51	140	2.1
40	**179**	**1.7**	35.17	"	"	5500	-	48	149	2.0
36	**198**	**1.5**	39.02	"	"	5800	-	43.5	164	1.85
33	**215**	**1.4**	42.46	"	"	5900	-	40	179	1.7
30	**235**	**1.3**	47.11	"	"	6000	-	36	198	1.5
27	**265**	**1.15**	52.44	"	"	6000	-	32.5	220	1.35
24.5	**290**	**1.05**	58.18	"	"	6000	-	29	245	1.2
23.5	**300**	**1.0**	60.79	"	"	6000	-	28	255	1.2
21	**340**	**0.88**	67.44	"	"	6000	-	25	285	1.05
19.5	**365**	**0.82**	73.51	**BG30Z-../D08LA4**	28	6000	-	23	310	0.97
54	**132**	**3.2**	26.01	**BG40-../D08LA4**	40	6500	-	65	110	3.9
48	**149**	**2.9**	29.34	"	"	6800	-	58	123	3.5
43	**166**	**2.6**	32.57	"	"	7000	-	52	137	3.1
41	**174**	**2.4**	34.20	"	"	7000	-	49.5	144	3.0
37	**193**	**2.2**	37.96	"	"	7000	-	44.5	160	2.7
35	**200**	**2.1**	40.19	"	"	7000	-	42	170	2.5
31.5	**225**	**1.9**	44.62	"	"	7000	-	38	188	2.3
29	**245**	**1.75**	48.36	"	"	7000	-	35	200	2.1
26.5	**270**	**1.55**	53.69	"	"	7000	-	31.5	225	1.9
23.5	**300**	**1.4**	59.64	"	"	7000	-	28.5	250	1.7
21.5	**330**	**1.3**	66.20	"	"	7000	-	25.5	280	1.5
21	**340**	**1.25**	67.74	**BG40Z-../D08LA4**	43	7000	-	25	285	1.5
19	**375**	**1.15**	75.19	"	"	7000	-	22.5	315	1.35
17.5	**405**	**1.05**	82.00	"	"	7000	-	20.5	345	1.25
15.5	**460**	**0.92**	91.02	"	"	7000	-	18.5	385	1.1
14.5	**490**	**0.87**	96.86	"	"	7000	-	17.5	405	1.05
13.5	**530**	**0.8**	107.5	"	"	7000	-	16	445	0.96
37	**193**	**3.3**	37.89	**BG50-../D08LA4**	48	10000	-	44.5	160	3.9
33.5	**210**	**3.0**	42.00	"	"	10000	-	40	179	3.5
30	**235**	**2.7**	47.02	"	"	10000	-	36	198	3.2
27	**265**	**2.4**	52.12	"	"	10000	-	32.5	220	2.9
24	**295**	**2.1**	59.42	"	"	10000	-	28.5	250	2.5
21.5	**330**	**1.9**	65.86	"	"	10000	-	26	275	2.3
19.5	**365**	**1.75**	71.97	**BG50Z-../D08LA4**	52	10000	-	23.5	300	2.1
18	**395**	**1.6**	79.78	"	"	10000	-	21.5	330	1.9
15	**475**	**1.35**	95.58	"	"	10000	-	18	395	1.6
13.5	**530**	**1.2**	106.0	"	"	10000	-	16	445	1.4
11	**650**	**0.97**	128.9	"	"	10000	-	13.5	530	1.2
9.8	**730**	**0.86**	142.9	"	"	10000	-	12	590	1.05
18.5	**385**	**3.1**	75.71	**BG60Z-../D08LA4**	97	16000	-	22.5	315	3.8
15.5	**460**	**2.6**	91.09	"	"	16000	-	18.5	385	3.1
14	**510**	**2.4**	101.0	"	"	16000	-	17	420	2.9
12	**590**	**2.0**	119.2	"	"	16000	-	14.5	490	2.4
11	**650**	**1.85**	132.1	"	"	16000	-	13	550	2.2
8.9	**800**	**1.5**	158.0	"	"	16000	-	11	650	1.85
8.0	**890**	**1.35**	175.1	"	"	16000	-	9.6	740	1.6
6.9	**1030**	**1.15**	204.6	"	"	16000	-	8.3	860	1.4
6.2	**1150**	**1.05**	226.7	"	"	16000	-	7.5	950	1.25
5.7	**1250**	**0.96**	247.7	"	"	16000	-	6.8	1050	1.15
5.2	**1370**	**0.88**	274.5	"	"	16000	-	6.2	1150	1.05
5.1	**1280**	**1.0**	276.2	**BG60G20-../D08LA4**	105	16000	-	6.1	1050	1.25
4.6	**1420**	**0.92**	306.1	"	"	16000	-	5.5	1170	1.1
4.2	**1560**	**0.83**	334.3	"	"	16000	-	5.1	1260	1.05

P = 0.75 kW

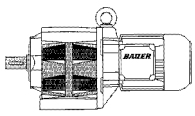


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
9.6	**740**	**3.1**	147.2	**BG70Z-../D08LA4**	137	20000	-	11.5	620	3.7
8.6	**830**	**2.8**	163.8	"	"	20000	-	10.5	680	3.4
7.3	**980**	**2.3**	194.4	"	"	20000	-	8.7	820	2.8
6.7	**1060**	**2.2**	210.5	"	"	20000	-	8.0	890	2.6
5.7	**1250**	**1.85**	249.8	"	"	20000	-	6.8	1050	2.2
5.5	**1190**	**2.1**	255.5	**BG70G20-../D08LA4**	135	20000	-	6.6	970	2.6
5.1	**1280**	**1.95**	276.7	"	"	20000	-	6.1	1050	2.4
4.3	**1520**	**1.65**	328.4	"	"	20000	-	5.2	1230	2.0
3.7	**1780**	**1.4**	387.6	"	"	20000	-	4.4	1480	1.7
3.4	**1980**	**1.25**	417.8	"	"	20000	-	4.1	1620	1.55
2.9	**2300**	**1.1**	495.9	"	"	20000	-	3.4	1960	1.3
2.5	**2700**	**0.93**	577.3	"	"	20000	-	3.0	2200	1.15
2.2	**3050**	**0.82**	665.8	"	"	20000	-	2.6	2550	0.98
3.9	**1490**	**3.1**	360.0	**BG80G40-../D08LA4**	216	26000	-	4.7	1180	3.9
3.6	**1610**	**2.9**	399.8	"	"	26000	-	4.3	1290	3.6
3.3	**1830**	**2.5**	436.2	"	"	26000	-	3.9	1490	3.1
2.9	**2050**	**2.2**	484.3	"	"	26000	-	3.5	1670	2.8
2.5	**2450**	**1.9**	572.0	"	"	26000	-	3.0	2000	2.3
2.2	**2750**	**1.65**	657.8	"	"	26000	-	2.6	2250	2.0
2.0	**3050**	**1.5**	730.3	"	"	26000	-	2.4	2450	1.9
1.8	**3450**	**1.35**	817.4	"	"	26000	-	2.1	2850	1.6
1.6	**3900**	**1.2**	907.6	"	"	26000	-	1.9	3200	1.45
1.4	**4550**	**1.0**	1042	"	"	26000	-	1.7	3650	1.25
1.2	**5400**	**0.85**	1261	"	"	26000	-	1.4	4550	1.0
2.0	**2900**	**3.2**	714.2	**BG90G50-../D08LA4**	326	65000	-	2.4	2300	4.0
1.6	**3800**	**2.4**	883.7	"	"	65000	-	2.0	2900	3.2
1.2	**5200**	**1.75**	1174	"	"	65000	-	1.5	4100	2.2
1.1	**5800**	**1.6**	1301	"	"	65000	-	1.3	4800	1.9
0.9	**7200**	**1.3**	1583	"	"	65000	-	1.1	5800	1.6
0.8	**8200**	**1.1**	1756	"	"	65000	-	1.0	6400	1.45
1.0	**5700**	**3.2**	1444	**BG100G50-../D08LA4**	513	90000	-	1.2	4550	4.1
0.85	**6800**	**2.7**	1678	"	"	90000	-	1.1	4900	3.8
0.75	**7700**	**2.4**	1867	"	"	90000	-	0.9	6100	3.0
0.65	**8900**	**2.1**	2154	"	"	90000	-	0.8	6800	2.7
0.55	**10600**	**1.75**	2656	"	"	90000	-	0.65	8600	2.2
0.48	**12600**	**1.45**	2952	"	"	90000	-	0.6	9600	1.95
0.43	**14100**	**1.3**	3286	"	"	90000	-	0.55	10500	1.75
0.39	**15800**	**1.15**	3644	"	"	90000	-	0.47	12700	1.45

P = 1.1 kW

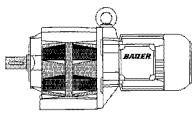
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
560	**18.7**	**3.0**	2.52	**BG10-../D09SA4**	22	560	790	670	15.6	3.6
410	**25.5**	**2.4**	3.42	"	"	630	880	495	21	3.0
325	**32**	**2.1**	4.36	"	"	650	910	390	26.5	2.6
265	**39.5**	**1.9**	5.34	"	"	620	910	315	33	2.3
210	**50**	**1.6**	6.78	"	"	660	920	250	42	1.95
174	**60**	**1.45**	8.07	"	"	660	920	210	50	1.75
151	**69**	**1.4**	9.33	"	"	950	1330	181	58	1.65
136	**77**	**1.3**	10.34	"	"	1000	1400	163	64	1.55
118	**89**	**1.2**	11.92	"	"	1030	1440	141	74	1.4
106	**99**	**1.1**	13.21	"	"	1070	1490	128	82	1.35
97	**108**	**1.05**	14.58	"	"	1100	1540	116	90	1.25
87	**120**	**0.98**	16.15	"	"	1140	1590	105	100	1.15
76	**138**	**0.87**	18.51	"	"	1210	1690	91	115	1.05
320	**32.5**	**3.2**	4.38	**BG20-../D09SA4**	24	1990	-	385	27	3.9
260	**40**	**2.9**	5.49	"	"	2100	-	310	33.5	3.4
220	**47.5**	**2.6**	6.48	"	"	2250	-	260	40	3.1

P = 1.1 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
175	**60**	**2.3**	8.02	**BG20-../D09SA4**	"	2500	-	210	50	2.7
169	**62**	**1.95**	8.29	"	"	2250	-	205	51	2.4
158	**66**	**2.2**	8.91	"	"	2600	-	189	55	2.6
146	**71**	**1.7**	9.65	"	"	2250	-	175	60	2.0
133	**78**	**1.95**	10.54	"	"	2700	-	160	65	2.4
120	**87**	**1.8**	11.71	"	"	2800	-	144	72	2.2
106	**99**	**1.7**	13.21	"	"	2900	-	128	82	2.0
96	**109**	**1.6**	14.67	"	"	3050	-	115	91	1.9
90	**116**	**1.55**	15.58	"	"	3100	-	108	97	1.8
81	**129**	**1.4**	17.31	"	"	3200	-	98	107	1.7
71	**147**	**1.35**	19.95	"	"	3350	-	85	123	1.6
64	**164**	**1.2**	22.16	"	"	3500	-	76	138	1.45
61	**172**	**1.15**	23.22	"	"	3550	-	73	143	1.4
55	**191**	**1.05**	25.79	"	"	3700	-	66	159	1.25
51	**205**	**0.98**	27.85	"	"	3800	-	61	172	1.15
45.5	**230**	**0.87**	30.94	"	"	4000	-	55	191	1.05
42.5	**245**	**0.82**	33.33	"	"	4100	-	51	205	0.98
119	**88**	**3.1**	11.82	**BG30-../D09SA4**	29	3200	-	143	73	3.8
102	**102**	**2.9**	13.77	"	"	3150	-	123	85	3.5
92	**114**	**2.6**	15.27	"	"	3450	-	111	94	3.2
83	**126**	**2.4**	17.06	"	"	3700	-	99	106	2.8
74	**141**	**2.1**	18.93	"	"	4100	-	89	118	2.5
71	**147**	**2.0**	19.99	"	"	4200	-	85	123	2.4
64	**164**	**1.85**	22.18	"	"	4600	-	76	138	2.2
56	**187**	**1.6**	25.45	"	"	4850	-	67	156	1.9
50	**210**	**1.45**	28.24	"	"	5100	-	60	175	1.7
47	**220**	**1.35**	29.83	"	"	5200	-	57	184	1.65
42.5	**245**	**1.2**	33.09	"	"	5400	-	51	205	1.45
40	**260**	**1.15**	35.17	"	"	5500	-	48	215	1.4
36	**290**	**1.05**	39.02	"	"	5800	-	43.5	240	1.25
33	**315**	**0.95**	42.46	"	"	5900	-	40	260	1.15
30	**350**	**0.86**	47.11	"	"	6000	-	36	290	1.05
77	**136**	**3.1**	18.19	**BG40-../D09SA4**	43	5600	-	93	112	3.8
71	**147**	**2.9**	19.84	"	"	5800	-	85	123	3.5
64	**164**	**2.6**	22.02	"	"	6000	-	77	136	3.1
60	**175**	**2.4**	23.43	"	"	6200	-	72	145	2.9
54	**194**	**2.2**	26.01	"	"	6500	-	65	161	2.6
48	**215**	**2.0**	29.34	"	"	6800	-	58	181	2.3
43	**240**	**1.75**	32.57	"	"	7000	-	52	200	2.1
41	**255**	**1.65**	34.20	"	"	7000	-	49.5	210	2.0
37	**280**	**1.5**	37.96	"	"	7000	-	44.5	235	1.8
35	**300**	**1.4**	40.19	"	"	7000	-	42	250	1.7
31.5	**330**	**1.3**	44.62	"	"	7000	-	38	275	1.55
29	**360**	**1.2**	48.36	"	"	7000	-	35	300	1.4
26.5	**395**	**1.1**	53.69	"	"	7000	-	31.5	330	1.3
23.5	**445**	**0.96**	59.64	"	"	7000	-	28.5	365	1.15
21.5	**485**	**0.88**	66.20	"	"	7000	-	25.5	410	1.05
21	**500**	**0.85**	67.74	**BG40Z-../D09SA4**	47	7000	-	25	420	1.0
47.5	**220**	**2.9**	29.62	**BG50-../D09SA4**	51	8000	-	57	184	3.4
43	**240**	**2.6**	32.84	"	"	8700	-	52	200	3.2
37	**280**	**2.3**	37.89	"	"	10000	-	44.5	235	2.7
33.5	**310**	**2.0**	42.00	"	"	10000	-	40	260	2.4
30	**350**	**1.8**	47.02	"	"	10000	-	36	290	2.2
27	**385**	**1.65**	52.12	"	"	10000	-	32.5	320	1.95
24	**435**	**1.45**	59.42	"	"	10000	-	28.5	365	1.75
21.5	**485**	**1.3**	65.86	"	"	10000	-	26	400	1.6
19.5	**530**	**1.2**	71.97	**BG50Z-../D09SA4**	56	10000	-	23.5	445	1.4
18	**580**	**1.1**	79.78	"	"	10000	-	21.5	485	1.3
15	**700**	**0.9**	95.58	"	"	10000	-	18	580	1.1
13.5	**770**	**0.82**	106.0	"	"	10000	-	16	650	0.97
28	**375**	**3.2**	50.31	**BG60-../D09SA4**	82	16000	-	33.5	310	3.9
25.5	**410**	**2.9**	55.76	"	"	16000	-	30.5	340	3.5

P = 1.1 kW

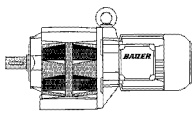


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
23	**455**	**2.6**	60.90	**BG60-../D09SA4**	"	16000	-	28	375	3.2
21	**500**	**2.4**	67.49	"	"	16000	-	25	420	2.9
20.5	**510**	**2.4**	68.32	**BG60Z-../D09SA4**	101	16000	-	25	420	2.9
18.5	**560**	**2.1**	75.71	"	"	16000	-	22.5	465	2.6
15.5	**670**	**1.8**	91.09	"	"	16000	-	18.5	560	2.1
14	**750**	**1.6**	101.0	"	"	16000	-	17	610	1.95
12	**870**	**1.4**	119.2	"	"	16000	-	14.5	720	1.65
11	**950**	**1.25**	132.1	"	"	16000	-	13	800	1.5
8.9	**1180**	**1.0**	158.0	"	"	16000	-	11	950	1.25
8.0	**1310**	**0.92**	175.1	"	"	16000	-	9.6	1090	1.1
15	**700**	**3.3**	95.74	**BG70Z-../D09SA4**	141	20000	-	18	580	4.0
12.5	**840**	**2.7**	113.6	"	"	20000	-	15	700	3.3
11.5	**910**	**2.5**	124.0	"	"	20000	-	14	750	3.1
9.6	**1090**	**2.1**	147.2	"	"	20000	-	11.5	910	2.5
8.6	**1220**	**1.9**	163.8	"	"	20000	-	10.5	1000	2.3
7.3	**1430**	**1.6**	194.4	"	"	20000	-	8.7	1200	1.9
6.7	**1560**	**1.45**	210.5	"	"	20000	-	8.0	1310	1.75
5.7	**1840**	**1.25**	249.8	"	"	20000	-	6.8	1540	1.5
5.5	**1800**	**1.4**	255.5	**BG70G20-../D09SA4**	138	20000	-	6.6	1480	1.7
5.1	**1940**	**1.3**	276.7	"	"	20000	-	6.1	1600	1.55
4.3	**2300**	**1.1**	328.4	"	"	20000	-	5.2	1880	1.35
3.7	**2650**	**0.94**	387.6	"	"	20000	-	4.4	2200	1.15
3.4	**2950**	**0.85**	417.8	"	"	20000	-	4.1	2400	1.05
7.5	**1400**	**3.0**	186.8	**BG80Z-../D09SA4**	209	26000	-	9.0	1160	3.6
6.8	**1540**	**2.7**	207.4	"	"	26000	-	8.2	1280	3.3
6.2	**1410**	**3.3**	227.2	**BG80G40-../D09SA4**	220	26000	-	7.4	1140	4.0
5.6	**1560**	**2.9**	252.3	"	"	26000	-	6.7	1250	3.7
5.0	**1790**	**2.6**	282.8	"	"	26000	-	6.0	1440	3.2
4.5	**1990**	**2.3**	314.0	"	"	26000	-	5.4	1600	2.9
3.9	**2350**	**1.95**	360.0	"	"	26000	-	4.7	1890	2.4
3.6	**2500**	**1.85**	399.8	"	"	26000	-	4.3	2050	2.2
3.3	**2800**	**1.65**	436.2	"	"	26000	-	3.9	2350	1.95
2.9	**3200**	**1.45**	484.3	"	"	26000	-	3.5	2600	1.75
2.5	**3800**	**1.2**	572.0	"	"	26000	-	3.0	3100	1.5
2.2	**4250**	**1.1**	657.8	"	"	26000	-	2.6	3550	1.3
2.0	**4750**	**0.97**	730.3	"	"	26000	-	2.4	3850	1.2
1.8	**5300**	**0.87**	817.4	"	"	26000	-	2.1	4450	1.05
3.3	**2750**	**3.3**	435.8	**BG90G50-../D09SA4**	330	65000	-	3.9	2300	4.0
2.8	**3250**	**2.8**	504.7	"	"	65000	-	3.4	2600	3.5
2.4	**3800**	**2.4**	588.8	"	"	65000	-	2.9	3050	3.0
2.2	**4150**	**2.2**	644.7	"	"	65000	-	2.7	3250	2.8
2.0	**4600**	**2.0**	714.2	"	"	65000	-	2.4	3700	2.5
1.6	**5800**	**1.6**	883.7	"	"	65000	-	2.0	4550	2.0
1.2	**8000**	**1.15**	1174	"	"	65000	-	1.5	6300	1.45
1.1	**8800**	**1.05**	1301	"	"	65000	-	1.3	7400	1.25
1.7	**6100**	**3.0**	845.1	**BG100Z-../D09SA4**	518	90000	-	2.0	5200	3.6
1.4	**6100**	**3.0**	1043	**BG100G50-../D09SA4**	517	90000	-	1.7	4750	3.9
1.2	**7100**	**2.6**	1204	"	"	90000	-	1.4	5800	3.2
1.0	**9100**	**2.0**	1444	"	"	90000	-	1.2	7300	2.5
0.85	**10700**	**1.75**	1678	"	"	90000	-	1.1	7900	2.3
0.75	**12200**	**1.5**	1867	"	"	90000	-	0.9	9800	1.9
0.65	**14100**	**1.3**	2154	"	"	90000	-	0.8	11000	1.7
0.55	**16700**	**1.1**	2656	"	"	90000	-	0.65	13700	1.35

P = 1.5 kW

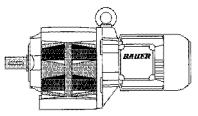
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
560	**25.5**	**2.2**	2.52	**BG10-../D09LA4**	26	560	790	670	21	2.7
410	**34.5**	**1.8**	3.42	"	"	630	880	495	28.5	2.2
325	**44**	**1.55**	4.36	"	"	650	910	390	36.5	1.85

P = 1.5 kW



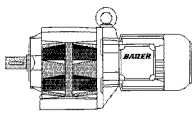
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2 1/min	M_2 Nm	f_B			kg	N	N	n_2 1/min	M_2 Nm	f_B
265	**54**	**1.4**	5.34	**BG10-../D09LA4**	"	620	910	315	45	1.65
210	**68**	**1.2**	6.78	"	"	660	920	250	57	1.4
174	**82**	**1.05**	8.07	"	"	660	920	210	68	1.3
151	**94**	**1.05**	9.33	"	"	950	1330	181	79	1.25
136	**105**	**0.94**	10.34	"	"	1000	1400	163	87	1.15
118	**121**	**0.87**	11.92	"	"	1030	1440	141	101	1.05
106	**135**	**0.81**	13.21	"	"	1070	1490	128	111	0.99
560	**25.5**	**3.3**	2.52	**BG20-../D09LA4**	28	1660	-	670	21	4.0
425	**33.5**	**2.7**	3.33	"	"	1830	-	510	28	3.3
320	**44.5**	**2.3**	4.38	"	"	1990	-	385	37	2.8
260	**55**	**2.1**	5.49	"	"	2100	-	310	46	2.5
220	**65**	**1.9**	6.48	"	"	2250	-	260	55	2.2
175	**81**	**1.7**	8.02	"	"	2500	-	210	68	2.0
169	**84**	**1.45**	8.29	"	"	2250	-	205	69	1.75
158	**90**	**1.6**	8.91	"	"	2600	-	189	75	1.9
146	**98**	**1.25**	9.65	"	"	2250	-	175	81	1.5
133	**107**	**1.45**	10.54	"	"	2700	-	160	89	1.75
120	**119**	**1.35**	11.71	"	"	2800	-	144	99	1.6
106	**135**	**1.25**	13.21	"	"	2900	-	128	111	1.5
96	**149**	**1.15**	14.67	"	"	3050	-	115	124	1.4
90	**159**	**1.1**	15.58	"	"	3100	-	108	132	1.35
81	**176**	**1.05**	17.31	"	"	3200	-	98	146	1.25
71	**200**	**0.98**	19.95	"	"	3350	-	85	168	1.15
64	**220**	**0.91**	22.16	"	"	3500	-	76	188	1.05
61	**230**	**0.87**	23.22	"	"	3550	-	73	196	1.0
210	**68**	**3.2**	6.75	**BG30-../D09LA4**	33	1760	-	250	57	3.8
177	**80**	**2.7**	7.91	"	"	1760	-	215	66	3.3
163	**87**	**2.8**	8.60	"	"	2800	-	196	73	3.4
147	**97**	**2.6**	9.55	"	"	3000	-	176	81	3.1
132	**108**	**2.5**	10.65	"	"	2950	-	158	90	3.0
119	**120**	**2.3**	11.82	"	"	3200	-	143	100	2.7
102	**140**	**2.1**	13.77	"	"	3150	-	123	116	2.5
92	**155**	**1.95**	15.27	"	"	3450	-	111	129	2.3
83	**172**	**1.75**	17.06	"	"	3700	-	99	144	2.1
74	**193**	**1.55**	18.93	"	"	4100	-	89	160	1.9
71	**200**	**1.5**	19.99	"	"	4200	-	85	168	1.8
64	**220**	**1.35**	22.18	"	"	4600	-	76	188	1.6
56	**255**	**1.2**	25.45	"	"	4850	-	67	210	1.45
50	**285**	**1.05**	28.24	"	"	5100	-	60	235	1.3
47	**300**	**1.0**	29.83	"	"	5200	-	57	250	1.2
42.5	**335**	**0.9**	33.09	"	"	5400	-	51	280	1.05
40	**355**	**0.85**	35.17	"	"	5500	-	48	295	1.0
156	**91**	**3.2**	9.00	**BG40-../D09LA4**	47	2650	-	187	76	3.9
122	**117**	**3.3**	11.49	"	"	4600	-	147	97	4.0
109	**131**	**3.1**	12.86	"	"	4500	-	131	109	3.8
99	**144**	**2.9**	14.28	"	"	4900	-	118	121	3.5
86	**166**	**2.6**	16.39	"	"	5300	-	103	139	3.1
77	**186**	**2.3**	18.19	"	"	5600	-	93	154	2.8
71	**200**	**2.1**	19.84	"	"	5800	-	85	168	2.5
64	**220**	**1.95**	22.02	"	"	6000	-	77	186	2.3
60	**235**	**1.8**	23.43	"	"	6200	-	72	198	2.1
54	**265**	**1.6**	26.01	"	"	6500	-	65	220	1.95
48	**295**	**1.45**	29.34	"	"	6800	-	58	245	1.75
43	**330**	**1.3**	32.57	"	"	7000	-	52	275	1.55
41	**345**	**1.25**	34.20	"	"	7000	-	49.5	285	1.5
37	**385**	**1.1**	37.96	"	"	7000	-	44.5	320	1.35
35	**405**	**1.05**	40.19	"	"	7000	-	42	340	1.25
31.5	**450**	**0.94**	44.62	"	"	7000	-	38	375	1.15
29	**490**	**0.87**	48.36	"	"	7000	-	35	405	1.05
64	**220**	**2.9**	21.96	**BG50-../D09LA4**	55	8000	-	77	186	3.4
58	**245**	**2.6**	24.34	"	"	8700	-	70	200	3.2
47.5	**300**	**2.1**	29.62	"	"	8000	-	57	250	2.5

P = 1.5 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
43	**330**	**1.9**	32.84	**BG50-../D09LA4**	"	8700	-	52	275	2.3
37	**385**	**1.65**	37.89	"	"	10000	-	44.5	320	1.95
33.5	**425**	**1.5**	42.00	"	"	10000	-	40	355	1.75
30	**475**	**1.35**	47.02	"	"	10000	-	36	395	1.6
27	**530**	**1.2**	52.12	"	"	10000	-	32.5	440	1.45
24	**590**	**1.05**	59.42	"	"	10000	-	28.5	500	1.25
21.5	**660**	**0.95**	65.86	"	"	10000	-	26	550	1.15
19.5	**730**	**0.86**	71.97	**BG50Z-../D09LA4**	60	10000	-	23.5	600	1.05
18	**790**	**0.8**	79.78	"	"	10000	-	21.5	660	0.95
36.5	**390**	**3.1**	38.85	**BG60-../D09LA4**	86	16000	-	43.5	325	3.7
33	**430**	**2.8**	43.05	"	"	16000	-	39.5	360	3.3
28	**510**	**2.4**	50.31	"	"	16000	-	33.5	425	2.8
25.5	**560**	**2.1**	55.76	"	"	16000	-	30.5	465	2.6
23	**620**	**1.95**	60.90	"	"	16000	-	28	510	2.4
21	**680**	**1.75**	67.49	"	"	16000	-	25	570	2.1
20.5	**690**	**1.75**	68.32	**BG60Z-../D09LA4**	105	16000	-	25	570	2.1
18.5	**770**	**1.55**	75.71	"	"	16000	-	22.5	630	1.9
15.5	**920**	**1.3**	91.09	"	"	16000	-	18.5	770	1.55
14	**1020**	**1.2**	101.0	"	"	16000	-	17	840	1.45
12	**1190**	**1.0**	119.2	"	"	16000	-	14.5	980	1.2
11	**1300**	**0.92**	132.1	"	"	16000	-	13	1100	1.1
19	**750**	**3.1**	73.82	**BG70Z-../D09LA4**	145	20000	-	23	620	3.7
16	**890**	**2.6**	87.61	"	"	20000	-	19.5	730	3.2
15	**950**	**2.4**	95.74	"	"	20000	-	18	790	2.9
12.5	**1140**	**2.0**	113.6	"	"	20000	-	15	950	2.4
11.5	**1240**	**1.85**	124.0	"	"	20000	-	14	1020	2.3
9.6	**1490**	**1.55**	147.2	"	"	20000	-	11.5	1240	1.85
8.6	**1660**	**1.4**	163.8	"	"	20000	-	10.5	1360	1.7
7.3	**1960**	**1.15**	194.4	"	"	20000	-	8.7	1640	1.4
6.7	**2100**	**1.1**	210.5	"	"	20000	-	8.0	1790	1.3
5.7	**2500**	**0.92**	249.8	"	"	20000	-	6.8	2100	1.1
5.5	**2450**	**1.0**	255.5	**BG70G20-../D09LA4**	142	20000	-	6.6	2050	1.2
5.1	**2650**	**0.94**	276.7	"	"	20000	-	6.1	2200	1.15
9.7	**1470**	**2.9**	145.4	**BG80Z-../D09LA4**	213	26000	-	12	1190	3.5
8.7	**1640**	**2.6**	161.5	"	"	26000	-	10.5	1360	3.1
7.5	**1910**	**2.2**	186.8	"	"	26000	-	9.0	1590	2.6
6.8	**2100**	**2.0**	207.4	"	"	26000	-	8.2	1740	2.4
6.2	**2000**	**2.3**	227.2	**BG80G40-../D09LA4**	224	26000	-	7.4	1650	2.8
5.6	**2200**	**2.1**	252.3	"	"	26000	-	6.7	1820	2.5
5.0	**2550**	**1.8**	282.8	"	"	26000	-	6.0	2050	2.2
4.5	**2800**	**1.65**	314.0	"	"	26000	-	5.4	2300	2.0
3.9	**3300**	**1.4**	360.0	"	"	26000	-	4.7	2700	1.7
3.6	**3600**	**1.3**	399.8	"	"	26000	-	4.3	2950	1.55
3.3	**4000**	**1.15**	436.2	"	"	26000	-	3.9	3300	1.4
2.9	**4550**	**1.0**	484.3	"	"	26000	-	3.5	3700	1.25
2.5	**5300**	**0.87**	572.0	"	"	26000	-	3.0	4350	1.05
4.7	**2750**	**3.3**	298.8	**BG90G50-../D09LA4**	334	65000	-	5.7	2200	4.2
3.9	**3150**	**2.9**	360.3	"	"	65000	-	4.7	2550	3.6
3.3	**3950**	**2.3**	435.8	"	"	65000	-	3.9	3250	2.8
2.8	**4600**	**2.0**	504.7	"	"	65000	-	3.4	3700	2.5
2.4	**5400**	**1.7**	588.8	"	"	65000	-	2.9	4350	2.1
2.2	**5800**	**1.6**	644.7	"	"	65000	-	2.7	4650	2.0
2.0	**6500**	**1.4**	714.2	"	"	65000	-	2.4	5300	1.75
1.6	**8200**	**1.1**	883.7	"	"	65000	-	2.0	6400	1.45
1.2	**11200**	**0.82**	1174	"	"	65000	-	1.5	8800	1.05
2.4	**5900**	**3.1**	591.1	**BG100Z-../D09LA4**	522	90000	-	2.9	4900	3.8
2.2	**6500**	**2.8**	658.1	"	"	90000	-	2.6	5500	3.4
1.9	**7500**	**2.5**	759.0	"	"	90000	-	2.3	6200	3.0
1.7	**8400**	**2.2**	845.1	"	"	90000	-	2.0	7100	2.6

P = 1.5 kW

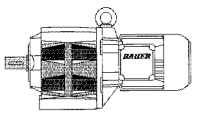


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
1.5	**7900**	**2.3**	976.1	**BG100G50-../D09LA4**	521	90000	-	1.8	6300	2.9
1.4	**8800**	**2.1**	1043	"	"	90000	-	1.7	7000	2.6
1.2	**10300**	**1.8**	1204	"	"	90000	-	1.4	8600	2.2
1.0	**12900**	**1.45**	1444	"	"	90000	-	1.2	10500	1.75
0.85	**15200**	**1.2**	1678	"	"	90000	-	1.1	11400	1.6
0.75	**17300**	**1.05**	1867	"	"	90000	-	0.9	14100	1.3

P = 2.2 kW

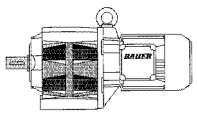
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
560	**37.5**	**1.5**	2.52	**BG10-../D09XA4**	30	560	790	670	31	1.8
410	**51**	**1.2**	3.42	"	"	630	880	495	42	1.5
325	**64**	**1.05**	4.36	"	"	650	910	390	53	1.3
265	**79**	**0.95**	5.34	"	"	620	910	315	66	1.15
210	**100**	**0.81**	6.78	"	"	660	920	250	84	0.96
560	**37.5**	**2.2**	2.52	**BG20-../D09XA4**	32	1660	-	670	31	2.7
425	**49**	**1.9**	3.33	"	"	1830	-	510	41	2.2
320	**65**	**1.6**	4.38	"	"	1990	-	385	54	1.95
260	**80**	**1.45**	5.49	"	"	2100	-	310	67	1.7
220	**95**	**1.3**	6.48	"	"	2250	-	260	80	1.55
175	**120**	**1.15**	8.02	"	"	2500	-	210	100	1.35
169	**124**	**0.98**	8.29	"	"	2250	-	205	102	1.2
158	**132**	**1.1**	8.91	"	"	2600	-	189	111	1.3
146	**143**	**0.85**	9.65	"	"	2250	-	175	120	1.0
133	**157**	**0.98**	10.54	"	"	2700	-	160	131	1.2
120	**175**	**0.9**	11.71	"	"	2800	-	144	145	1.1
106	**198**	**0.84**	13.21	"	"	2900	-	128	164	1.0
96	**215**	**0.8**	14.67	"	"	3050	-	115	182	0.95
530	**39.5**	**3.2**	2.67	**BG30-../D09XA4**	37	1450	-	630	33	3.9
415	**50**	**2.8**	3.40	"	"	1580	-	495	42	3.3
335	**62**	**2.8**	4.21	"	"	1630	-	400	52	3.3
260	**80**	**2.5**	5.44	"	"	1670	-	310	67	3.0
210	**100**	**2.2**	6.75	"	"	1760	-	250	84	2.6
177	**118**	**1.85**	7.91	"	"	1760	-	215	97	2.2
163	**128**	**1.9**	8.60	"	"	2800	-	196	107	2.3
147	**142**	**1.8**	9.55	"	"	3000	-	176	119	2.1
132	**159**	**1.65**	10.65	"	"	2950	-	158	132	2.0
119	**176**	**1.55**	11.82	"	"	3200	-	143	146	1.9
102	**205**	**1.45**	13.77	"	"	3150	-	123	170	1.75
92	**225**	**1.35**	15.27	"	"	3450	-	111	189	1.6
83	**250**	**1.2**	17.06	"	"	3700	-	99	210	1.45
74	**280**	**1.05**	18.93	"	"	4100	-	89	235	1.3
71	**295**	**1.0**	19.99	"	"	4200	-	85	245	1.2
64	**325**	**0.92**	22.18	"	"	4600	-	76	275	1.1
56	**375**	**0.8**	25.45	"	"	4850	-	67	310	0.97
225	**93**	**3.2**	6.29	**BG40-../D09XA4**	51	2600	-	270	77	3.8
184	**114**	**2.6**	7.62	"	"	2650	-	225	93	3.2
169	**124**	**2.8**	8.31	"	"	4100	-	205	102	3.4
156	**134**	**2.2**	9.00	"	"	2650	-	187	112	2.6
152	**138**	**2.6**	9.23	"	"	4350	-	183	114	3.1
136	**154**	**2.4**	10.35	"	"	4350	-	163	128	2.9
122	**172**	**2.3**	11.49	"	"	4600	-	147	142	2.7
109	**192**	**2.1**	12.86	"	"	4500	-	131	160	2.6
99	**210**	**2.0**	14.28	"	"	4900	-	118	178	2.4
86	**240**	**1.75**	16.39	"	"	5300	-	103	200	2.1
77	**270**	**1.55**	18.19	"	"	5600	-	93	225	1.9
71	**295**	**1.45**	19.84	"	"	5800	-	85	245	1.75
64	**325**	**1.3**	22.02	"	"	6000	-	77	270	1.55
60	**350**	**1.2**	23.43	"	"	6200	-	72	290	1.45
54	**385**	**1.1**	26.01	"	"	6500	-	65	320	1.35

P = 2.2 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
48	**435**	**0.98**	29.34	**BG40-../D09XA4**	"	6800	-	58	360	1.2
43	**485**	**0.88**	32.57	"	"	7000	-	52	400	1.05
41	**510**	**0.83**	34.20	"	"	7000	-	49.5	420	1.0
117	**179**	**3.2**	12.06	**BG50-../D09XA4**	59	5700	-	140	150	3.8
105	**200**	**3.0**	13.36	"	"	6100	-	126	166	3.6
85	**245**	**2.6**	16.53	"	"	6500	-	102	205	3.1
77	**270**	**2.3**	18.33	"	"	7200	-	92	225	2.8
64	**325**	**1.95**	21.96	"	"	8000	-	77	270	2.3
58	**360**	**1.75**	24.34	"	"	8700	-	70	300	2.1
47.5	**440**	**1.45**	29.62	"	"	8000	-	57	365	1.75
43	**485**	**1.3**	32.84	"	"	8700	-	52	400	1.6
37	**560**	**1.15**	37.89	"	"	10000	-	44.5	470	1.35
33.5	**620**	**1.0**	42.00	"	"	10000	-	40	520	1.2
30	**700**	**0.9**	47.02	"	"	10000	-	36	580	1.1
27	**770**	**0.82**	52.12	"	"	10000	-	32.5	640	0.98
57	**365**	**3.3**	24.82	**BG60-../D09XA4**	90	13800	-	68	305	3.9
48	**435**	**2.8**	29.31	"	"	14800	-	58	360	3.3
43.5	**480**	**2.5**	32.48	"	"	15400	-	52	400	3.0
36.5	**570**	**2.1**	38.85	"	"	16000	-	43.5	480	2.5
33	**630**	**1.9**	43.05	"	"	16000	-	39.5	530	2.3
28	**750**	**1.6**	50.31	"	"	16000	-	33.5	620	1.95
25.5	**820**	**1.45**	55.76	"	"	16000	-	30.5	680	1.75
23	**910**	**1.3**	60.90	"	"	16000	-	28	750	1.6
21	**1000**	**1.2**	67.49	"	"	16000	-	25	840	1.45
20.5	**1020**	**1.2**	68.32	**BG60Z-../D09XA4**	109	16000	-	25	840	1.45
18.5	**1130**	**1.05**	75.71	"	"	16000	-	22.5	930	1.3
15.5	**1350**	**0.89**	91.09	"	"	16000	-	18.5	1130	1.05
14	**1500**	**0.8**	101.0	"	"	16000	-	17	1230	0.98
28	**750**	**3.1**	50.40	**BG70-../D09XA4**	128	20000	-	33.5	620	3.7
23.5	**890**	**2.6**	59.82	"	"	20000	-	28.5	730	3.2
22	**950**	**2.4**	64.85	**BG70Z-../D09XA4**	149	20000	-	26	800	2.9
19	**1100**	**2.1**	73.82	"	"	20000	-	23	910	2.5
16	**1310**	**1.75**	87.61	"	"	20000	-	19.5	1070	2.1
15	**1400**	**1.65**	95.74	"	"	20000	-	18	1160	2.0
12.5	**1680**	**1.35**	113.6	"	"	20000	-	15	1400	1.65
11.5	**1820**	**1.25**	124.0	"	"	20000	-	14	1500	1.55
9.6	**2150**	**1.05**	147.2	"	"	20000	-	11.5	1820	1.25
8.6	**2400**	**0.96**	163.8	"	"	20000	-	10.5	2000	1.15
7.3	**2850**	**0.81**	194.4	"	"	20000	-	8.7	2400	0.96
15	**1400**	**3.0**	93.89	**BG80Z-../D09XA4**	217	26000	-	18	1160	3.6
12.5	**1680**	**2.5**	112.4	"	"	26000	-	15	1400	3.0
11.5	**1820**	**2.3**	124.8	"	"	26000	-	13.5	1550	2.7
9.7	**2150**	**1.95**	145.4	"	"	26000	-	12	1750	2.4
8.7	**2400**	**1.75**	161.5	"	"	26000	-	10.5	2000	2.1
7.5	**2800**	**1.5**	186.8	"	"	26000	-	9.0	2300	1.85
6.8	**3050**	**1.4**	207.4	"	"	26000	-	8.2	2550	1.65
6.2	**3100**	**1.5**	227.2	**BG80G40-../D09XA4**	228	26000	-	7.4	2550	1.8
5.6	**3400**	**1.35**	252.3	"	"	26000	-	6.7	2800	1.65
5.0	**3850**	**1.2**	282.8	"	"	26000	-	6.0	3150	1.45
4.5	**4300**	**1.05**	314.0	"	"	26000	-	5.4	3550	1.3
3.9	**5000**	**0.92**	360.0	"	"	26000	-	4.7	4100	1.1
3.6	**5400**	**0.85**	399.8	"	"	26000	-	4.3	4500	1.0
7.9	**2650**	**3.2**	178.5	**BG90Z-../D09XA4**	327	65000	-	9.5	2200	3.8
6.8	**3050**	**2.8**	208.3	"	"	65000	-	8.1	2550	3.3
6.2	**3350**	**2.5**	228.1	"	"	65000	-	7.4	2800	3.0
5.4	**3450**	**2.7**	262.5	**BG90G50-../D09XA4**	338	65000	-	6.4	2850	3.2
4.7	**4150**	**2.2**	298.8	"	"	65000	-	5.7	3400	2.7
3.9	**4900**	**1.9**	360.3	"	"	65000	-	4.7	3950	2.3
3.3	**5900**	**1.55**	435.8	"	"	65000	-	3.9	4950	1.85
2.8	**7000**	**1.3**	504.7	"	"	65000	-	3.4	5600	1.65
2.4	**8100**	**1.15**	588.8	"	"	65000	-	2.9	6600	1.4

P = 2.2 kW

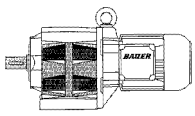


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
2.2	**8900**	**1.05**	644.7	**BG90G50-../D09XA4**	"	65000	-	2.7	7100	1.3
2.0	**9800**	**0.94**	714.2	"	"	65000	-	2.4	8100	1.15
3.7	**5600**	**3.3**	382.6	**BG100Z-../D09XA4**	526	90000	-	4.4	4750	3.9
3.1	**6700**	**2.8**	456.7	"	"	90000	-	3.7	5600	3.3
2.8	**7500**	**2.5**	508.5	"	"	90000	-	3.4	6100	3.0
2.4	**8700**	**2.1**	591.1	"	"	90000	-	2.9	7200	2.6
2.2	**9500**	**1.95**	658.1	"	"	90000	-	2.6	8000	2.3
1.9	**11000**	**1.7**	759.0	"	"	90000	-	2.3	9100	2.0
1.7	**12300**	**1.5**	845.1	"	"	90000	-	2.0	10500	1.75
1.5	**12400**	**1.5**	976.1	**BG100G50-../D09XA4**	525	90000	-	1.8	10000	1.85
1.4	**13600**	**1.35**	1043	"	"	90000	-	1.7	10900	1.7
1.2	**15800**	**1.15**	1204	"	"	90000	-	1.4	13300	1.4
1.0	**19600**	**0.94**	1444	"	"	90000	-	1.2	16100	1.15

P = 3 kW

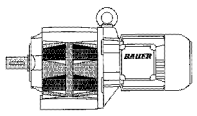
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**53**	**2.4**	2.67	**BG30-../D11SA4**	40	1450	-	650	44	2.9
420	**68**	**2.0**	3.40	"	"	1580	-	510	56	2.5
340	**84**	**2.0**	4.21	"	"	1630	-	410	69	2.5
265	**108**	**1.85**	5.44	"	"	1670	-	315	90	2.2
215	**133**	**1.65**	6.75	"	"	1760	-	255	112	1.95
180	**159**	**1.35**	7.91	"	"	1760	-	220	130	1.65
166	**172**	**1.45**	8.60	"	"	2800	-	199	143	1.7
149	**192**	**1.3**	9.55	"	"	3000	-	180	159	1.6
134	**210**	**1.25**	10.65	"	"	2950	-	161	177	1.5
121	**235**	**1.15**	11.82	"	"	3200	-	145	197	1.4
104	**275**	**1.05**	13.77	"	"	3150	-	125	225	1.3
93	**305**	**0.98**	15.27	"	"	3450	-	112	255	1.2
84	**340**	**0.88**	17.06	"	"	3700	-	101	280	1.05
76	**375**	**0.8**	18.93	"	"	4100	-	91	310	0.97
360	**79**	**3.1**	3.97	**BG40-../D11SA4**	59	2400	-	435	65	3.8
290	**98**	**2.7**	4.94	"	"	2450	-	350	81	3.3
230	**124**	**2.4**	6.29	"	"	2600	-	275	104	2.8
187	**153**	**1.95**	7.62	"	"	2650	-	225	127	2.3
171	**167**	**2.1**	8.31	"	"	4100	-	210	136	2.5
158	**181**	**1.65**	9.00	"	"	2650	-	190	150	1.95
154	**186**	**1.9**	9.23	"	"	4350	-	186	154	2.3
138	**205**	**1.85**	10.35	"	"	4350	-	166	172	2.2
124	**230**	**1.7**	11.49	"	"	4600	-	149	192	2.0
111	**255**	**1.6**	12.86	"	"	4500	-	133	215	1.9
100	**285**	**1.5**	14.28	"	"	4900	-	120	235	1.8
87	**325**	**1.3**	16.39	"	"	5300	-	105	270	1.55
79	**360**	**1.2**	18.19	"	"	5600	-	95	300	1.4
72	**395**	**1.1**	19.84	"	"	5800	-	87	325	1.3
65	**440**	**0.97**	22.02	"	"	6000	-	78	365	1.15
61	**465**	**0.91**	23.43	"	"	6200	-	73	390	1.1
55	**520**	**0.82**	26.01	"	"	6500	-	66	430	0.99
164	**174**	**2.9**	8.70	**BG50-../D11SA4**	69	5300	-	197	145	3.5
148	**193**	**2.7**	9.65	"	"	5600	-	178	160	3.3
118	**240**	**2.4**	12.06	"	"	5700	-	142	200	2.9
107	**265**	**2.2**	13.36	"	"	6100	-	128	220	2.7
86	**330**	**1.9**	16.53	"	"	6500	-	104	275	2.3
78	**365**	**1.75**	18.33	"	"	7200	-	94	300	2.1
65	**440**	**1.45**	21.96	"	"	8000	-	78	365	1.75
59	**485**	**1.3**	24.34	"	"	8700	-	71	400	1.6
48	**590**	**1.05**	29.62	"	"	8000	-	58	490	1.3
43.5	**650**	**0.97**	32.84	"	"	8700	-	53	540	1.15
37.5	**760**	**0.83**	37.89	"	"	10000	-	45.5	620	1.0
85	**335**	**3.3**	16.80	**BG60-../D11SA4**	101	12000	-	102	280	4.0
77	**370**	**3.1**	18.62	"	"	12400	-	92	310	3.7

P = 3 kW



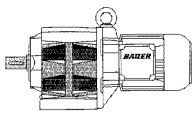
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
64	**445**	**2.7**	22.40	**BG60-../D11SA4**	"	13300	-	77	370	3.2
58	**490**	**2.4**	24.82	"	"	13800	-	69	415	2.9
48.5	**590**	**2.0**	29.31	"	"	14800	-	59	485	2.5
44	**650**	**1.85**	32.48	"	"	15400	-	53	540	2.2
37	**770**	**1.55**	38.85	"	"	16000	-	44.5	640	1.9
33	**860**	**1.4**	43.05	"	"	16000	-	40	710	1.7
28.5	**1000**	**1.2**	50.31	"	"	16000	-	34	840	1.45
25.5	**1120**	**1.05**	55.76	"	"	16000	-	31	920	1.3
23.5	**1210**	**0.99**	60.90	"	"	16000	-	28.5	1000	1.2
21.5	**1330**	**0.9**	67.49	"	"	16000	-	25.5	1120	1.05
21	**1360**	**0.88**	68.32	**BG60Z-../D11SA4**	117	16000	-	25.5	1120	1.05
19	**1500**	**0.8**	75.71	"	"	16000	-	23	1240	0.97
40.5	**700**	**3.3**	35.24	**BG70-../D11SA4**	132	18300	-	49	580	4.0
36.5	**780**	**2.9**	39.22	"	"	19100	-	44	650	3.5
31	**920**	**2.5**	46.54	"	"	20000	-	37	770	3.0
28.5	**1000**	**2.3**	50.40	"	"	20000	-	34	840	2.7
24	**1190**	**1.95**	59.82	"	"	20000	-	29	980	2.3
22	**1300**	**1.75**	64.85	**BG70Z-../D11SA4**	158	20000	-	26.5	1080	2.1
19.5	**1460**	**1.6**	73.82	"	"	20000	-	23.5	1210	1.9
16.5	**1730**	**1.35**	87.61	"	"	20000	-	20	1430	1.6
15	**1910**	**1.2**	95.74	"	"	20000	-	18	1590	1.45
12.5	**2250**	**1.0**	113.6	"	"	20000	-	15.5	1840	1.25
11.5	**2450**	**0.94**	124.0	"	"	20000	-	14	2000	1.15
22.5	**1270**	**3.3**	63.56	**BG80-../D11SA4**	186	26000	-	27	1060	4.0
21.5	**1330**	**3.2**	66.40	**BG80Z-../D11SA4**	228	26000	-	26	1100	3.8
19.5	**1460**	**2.9**	73.73	"	"	26000	-	23.5	1210	3.5
17	**1680**	**2.5**	84.55	"	"	26000	-	20.5	1390	3.0
15.5	**1840**	**2.3**	93.89	"	"	26000	-	18.5	1540	2.7
13	**2200**	**1.9**	112.4	"	"	26000	-	15.5	1840	2.3
11.5	**2450**	**1.7**	124.8	"	"	26000	-	14	2000	2.1
9.8	**2900**	**1.45**	145.4	"	"	26000	-	12	2350	1.8
8.8	**3250**	**1.3**	161.5	"	"	26000	-	11	2600	1.6
7.7	**3700**	**1.15**	186.8	"	"	26000	-	9.2	3100	1.35
6.9	**4150**	**1.0**	207.4	"	"	26000	-	8.3	3450	1.2
6.3	**4250**	**1.1**	227.2	**BG80G40-../D11SA4**	236	26000	-	7.6	3450	1.35
5.7	**4700**	**0.98**	252.3	"	"	26000	-	6.8	3900	1.2
5.1	**5300**	**0.87**	282.8	"	"	26000	-	6.1	4350	1.05
10.5	**2700**	**3.1**	139.2	**BG90Z-../D11SA4**	330	65000	-	12.5	2250	3.7
8.8	**3250**	**2.6**	163.0	"	"	65000	-	10.5	2700	3.1
8.0	**3550**	**2.4**	178.5	"	"	65000	-	9.6	2950	2.8
6.9	**4150**	**2.0**	208.3	"	"	65000	-	8.3	3450	2.4
6.3	**4500**	**1.85**	228.1	"	"	65000	-	7.5	3800	2.2
5.5	**4750**	**1.95**	262.5	**BG90G50-../D11SA4**	347	65000	-	6.6	3900	2.4
4.8	**5600**	**1.65**	298.8	"	"	65000	-	5.8	4650	2.0
4.0	**6600**	**1.4**	360.3	"	"	65000	-	4.8	5400	1.7
3.3	**8200**	**1.1**	435.8	"	"	65000	-	4.0	6700	1.35
2.9	**9300**	**0.99**	504.7	"	"	65000	-	3.4	7900	1.15
2.5	**10800**	**0.85**	588.8	"	"	65000	-	3.0	8900	1.05
5.5	**5200**	**3.2**	259.0	**BG100-../D11SA4**	447	90000	-	6.7	4250	4.0
4.8	**5900**	**3.1**	300.4	**BG100Z-../D11SA4**	537	90000	-	5.7	5000	3.7
4.2	**6800**	**2.7**	343.6	"	"	90000	-	5.0	5700	3.2
3.8	**7500**	**2.5**	382.6	"	"	90000	-	4.5	6300	2.9
3.2	**8900**	**2.1**	456.7	"	"	90000	-	3.8	7500	2.5
2.8	**10200**	**1.8**	508.5	"	"	90000	-	3.4	8400	2.2
2.5	**11400**	**1.6**	591.1	"	"	90000	-	2.9	9800	1.9
2.2	**13000**	**1.4**	658.1	"	"	90000	-	2.6	11000	1.7
1.9	**15000**	**1.25**	759.0	"	"	90000	-	2.3	12400	1.5
1.7	**16800**	**1.1**	845.1	"	"	90000	-	2.1	13600	1.35
1.5	**17500**	**1.05**	976.1	**BG100G50-../D11SA4**	534	90000	-	1.8	14300	1.3
1.4	**19000**	**0.97**	1043	"	"	90000	-	1.7	15400	1.2
1.2	**22200**	**0.83**	1204	"	"	90000	-	1.5	17400	1.05

P = 4 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**70**	**1.85**	2.67	**BG30-../D11MA4**	46	1450	-	650	58	2.2
420	**90**	**1.55**	3.40	"	"	1580	-	510	74	1.9
340	**112**	**1.55**	4.21	"	"	1630	-	410	93	1.85
265	**144**	**1.4**	5.44	"	"	1670	-	315	121	1.65
215	**177**	**1.25**	6.75	"	"	1760	-	255	149	1.45
180	**210**	**1.05**	7.91	"	"	1760	-	220	173	1.25
166	**230**	**1.05**	8.60	"	"	2800	-	199	191	1.3
149	**255**	**1.0**	9.55	"	"	3000	-	180	210	1.2
134	**285**	**0.93**	10.65	"	"	2950	-	161	235	1.15
121	**315**	**0.87**	11.82	"	"	3200	-	145	260	1.05
104	**365**	**0.81**	13.77	"	"	3150	-	125	305	0.96
580	**65**	**3.1**	2.46	**BG40-../D11MA4**	65	2150	-	700	54	3.7
450	**84**	**2.7**	3.19	"	"	2350	-	540	70	3.2
360	**106**	**2.3**	3.97	"	"	2400	-	435	87	2.8
290	**131**	**2.0**	4.94	"	"	2450	-	350	109	2.5
230	**166**	**1.8**	6.29	"	"	2600	-	275	138	2.1
187	**200**	**1.5**	7.62	"	"	2650	-	225	169	1.75
171	**220**	**1.55**	8.31	"	"	4100	-	210	181	1.9
158	**240**	**1.25**	9.00	"	"	2650	-	190	200	1.5
154	**245**	**1.45**	9.23	"	"	4350	-	186	205	1.75
138	**275**	**1.35**	10.35	"	"	4350	-	166	230	1.65
124	**305**	**1.3**	11.49	"	"	4600	-	149	255	1.55
111	**340**	**1.2**	12.86	"	"	4500	-	133	285	1.45
100	**380**	**1.1**	14.28	"	"	4900	-	120	315	1.35
87	**435**	**0.98**	16.39	"	"	5300	-	105	360	1.2
79	**480**	**0.89**	18.19	"	"	5600	-	95	400	1.05
72	**530**	**0.8**	19.84	"	"	5800	-	87	435	0.98
290	**131**	**3.0**	4.91	**BG50-../D11MA4**	75	3500	-	350	109	3.7
215	**177**	**2.6**	6.74	"	"	3750	-	255	149	3.0
164	**230**	**2.2**	8.70	"	"	5300	-	197	193	2.6
148	**255**	**2.1**	9.65	"	"	5600	-	178	210	2.5
118	**320**	**1.8**	12.06	"	"	5700	-	142	265	2.2
107	**355**	**1.65**	13.36	"	"	6100	-	128	295	2.0
86	**440**	**1.45**	16.53	"	"	6500	-	104	365	1.75
78	**485**	**1.3**	18.33	"	"	7200	-	94	405	1.55
65	**580**	**1.1**	21.96	"	"	8000	-	78	485	1.3
59	**640**	**0.98**	24.34	"	"	8700	-	71	530	1.2
48	**790**	**0.8**	29.62	"	"	8000	-	58	650	0.97
117	**325**	**3.0**	12.16	**BG60-../D11MA4**	107	10800	-	141	270	3.7
106	**360**	**2.8**	13.47	"	"	11200	-	127	300	3.4
85	**445**	**2.5**	16.80	"	"	12000	-	102	370	3.0
77	**495**	**2.3**	18.62	"	"	12400	-	92	415	2.8
64	**590**	**2.0**	22.40	"	"	13300	-	77	495	2.4
58	**650**	**1.85**	24.82	"	"	13800	-	69	550	2.2
48.5	**780**	**1.55**	29.31	"	"	14800	-	59	640	1.9
44	**860**	**1.4**	32.48	"	"	15400	-	53	720	1.65
37	**1030**	**1.15**	38.85	"	"	16000	-	44.5	850	1.4
33	**1150**	**1.05**	43.05	"	"	16000	-	40	950	1.25
28.5	**1340**	**0.9**	50.31	"	"	16000	-	34	1120	1.05
25.5	**1490**	**0.81**	55.76	"	"	16000	-	31	1230	0.98
53	**720**	**3.2**	27.21	**BG70-../D11MA4**	138	16400	-	63	600	3.8
48	**790**	**2.9**	29.69	"	"	16900	-	58	650	3.5
40.5	**940**	**2.4**	35.24	"	"	18300	-	49	770	3.0
36.5	**1040**	**2.2**	39.22	"	"	19100	-	44	860	2.7
31	**1230**	**1.85**	46.54	"	"	20000	-	37	1030	2.2
28.5	**1340**	**1.7**	50.40	"	"	20000	-	34	1120	2.1
24	**1590**	**1.45**	59.82	"	"	20000	-	29	1310	1.75
22	**1730**	**1.35**	64.85	**BG70Z-../D11MA4**	164	20000	-	26.5	1440	1.6
19.5	**1950**	**1.2**	73.82	"	"	20000	-	23.5	1620	1.4
16.5	**2300**	**1.0**	87.61	"	"	20000	-	20	1910	1.2
15	**2500**	**0.92**	95.74	"	"	20000	-	18	2100	1.1

P = 4 kW

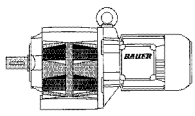


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
29.5	**1290**	**3.3**	48.80	**BG80-../D11MA4**	192	23800	-	35.5	1070	3.9
25	**1520**	**2.8**	57.24	"	"	25400	-	30	1270	3.3
22.5	**1690**	**2.5**	63.56	"	"	26000	-	27	1410	3.0
21.5	**1770**	**2.4**	66.40	**BG80Z-../D11MA4**	234	26000	-	26	1460	2.9
19.5	**1950**	**2.2**	73.73	"	"	26000	-	23.5	1620	2.6
17	**2200**	**1.9**	84.55	"	"	26000	-	20.5	1860	2.3
15.5	**2450**	**1.7**	93.89	"	"	26000	-	18.5	2050	2.0
13	**2900**	**1.45**	112.4	"	"	26000	-	15.5	2450	1.7
11.5	**3300**	**1.25**	124.8	"	"	26000	-	14	2700	1.55
9.8	**3850**	**1.1**	145.4	"	"	26000	-	12	3150	1.35
8.8	**4300**	**0.98**	161.5	"	"	26000	-	11	3450	1.2
7.7	**4950**	**0.85**	186.8	"	"	26000	-	9.2	4150	1.0
6.3	**5700**	**0.81**	227.2	**BG80G40-../D11MA4**	242	26000	-	7.6	4700	0.98
13.5	**2800**	**3.0**	105.7	**BG90Z-../D11MA4**	336	65000	-	16.5	2300	3.7
11.5	**3300**	**2.5**	127.1	"	"	65000	-	13.5	2800	3.0
10.5	**3600**	**2.3**	139.2	"	"	65000	-	12.5	3050	2.8
8.8	**4300**	**1.95**	163.0	"	"	65000	-	10.5	3600	2.3
8.0	**4750**	**1.75**	178.5	"	"	65000	-	9.6	3950	2.1
6.9	**5500**	**1.55**	208.3	"	"	65000	-	8.3	4600	1.85
6.3	**6000**	**1.4**	228.1	"	"	65000	-	7.5	5000	1.7
5.5	**6500**	**1.4**	262.5	**BG90G50-../D11MA4**	353	65000	-	6.6	5300	1.75
4.8	**7600**	**1.2**	298.8	"	"	65000	-	5.8	6300	1.45
4.0	**9000**	**1.0**	360.3	"	"	65000	-	4.8	7400	1.25
3.3	**11100**	**0.83**	435.8	"	"	65000	-	4.0	9100	1.0
7.2	**5300**	**3.2**	198.8	**BG100-../D11MA4**	453	90000	-	8.7	4350	3.9
6.2	**6100**	**2.8**	232.6	"	"	90000	-	7.4	5100	3.3
5.5	**6900**	**2.4**	259.0	"	"	90000	-	6.7	5700	2.9
5.3	**7200**	**2.6**	269.8	**BG100Z-../D11MA4**	543	90000	-	6.4	5900	3.1
4.8	**7900**	**2.3**	300.4	"	"	90000	-	5.7	6700	2.8
4.2	**9000**	**2.1**	343.6	"	"	90000	-	5.0	7600	2.4
3.8	**10000**	**1.85**	382.6	"	"	90000	-	4.5	8400	2.2
3.2	**11900**	**1.55**	456.7	"	"	90000	-	3.8	10000	1.85
2.8	**13600**	**1.35**	508.5	"	"	90000	-	3.4	11200	1.65
2.5	**15200**	**1.2**	591.1	"	"	90000	-	2.9	13100	1.4
2.2	**17300**	**1.05**	658.1	"	"	90000	-	2.6	14600	1.25
1.9	**20100**	**0.92**	759.0	"	"	90000	-	2.3	16600	1.1
1.7	**22400**	**0.83**	845.1	"	"	90000	-	2.1	18100	1.0

P = 5.5 kW

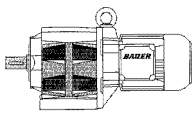
50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
540	**97**	**1.3**	2.67	**BG30-../D11LA4**	58	1450	-	650	80	1.6
420	**125**	**1.1**	3.40	"	"	1580	-	510	102	1.35
340	**154**	**1.1**	4.21	"	"	1630	-	410	128	1.35
265	**198**	**1.0**	5.44	"	"	1670	-	315	166	1.2
215	**240**	**0.9**	6.75	"	"	1760	-	255	205	1.05
580	**90**	**2.2**	2.46	**BG40-../D11LA4**	77	2150	-	700	75	2.7
450	**116**	**1.95**	3.19	"	"	2350	-	540	97	2.3
360	**145**	**1.7**	3.97	"	"	2400	-	435	120	2.0
290	**181**	**1.5**	4.94	"	"	2450	-	350	150	1.8
230	**225**	**1.3**	6.29	"	"	2600	-	275	191	1.55
187	**280**	**1.05**	7.62	"	"	2650	-	225	230	1.3
171	**305**	**1.15**	8.31	"	"	4100	-	210	250	1.4
158	**330**	**0.89**	9.00	"	"	2650	-	190	275	1.05
154	**340**	**1.05**	9.23	"	"	4350	-	186	280	1.3
138	**380**	**0.99**	10.35	"	"	4350	-	166	315	1.2
124	**420**	**0.93**	11.49	"	"	4600	-	149	350	1.1

P = 5.5 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
111	**470**	**0.87**	12.86	**BG40-../D11LA4**	"	4500	-	133	390	1.05
100	**520**	**0.81**	14.28	"	"	4900	-	120	435	0.97
400	**131**	**2.6**	3.55	**BG50-../D11LA4**	86	3300	-	485	108	3.2
290	**181**	**2.2**	4.91	"	"	3500	-	350	150	2.7
215	**240**	**1.9**	6.74	"	"	3750	-	255	205	2.2
164	**320**	**1.6**	8.70	"	"	5300	-	197	265	1.9
148	**350**	**1.5**	9.65	"	"	5600	-	178	295	1.8
118	**445**	**1.3**	12.06	"	"	5700	-	142	365	1.6
107	**490**	**1.2**	13.36	"	"	6100	-	128	410	1.45
86	**610**	**1.05**	16.53	"	"	6500	-	104	500	1.25
78	**670**	**0.94**	18.33	"	"	7200	-	94	550	1.15
210	**250**	**3.1**	6.88	**BG60-../D11LA4**	119	8600	-	250	210	3.7
156	**335**	**2.7**	9.13	"	"	9800	-	188	275	3.2
141	**370**	**2.5**	10.12	"	"	10200	-	169	310	2.9
117	**445**	**2.2**	12.16	"	"	10800	-	141	370	2.7
106	**495**	**2.1**	13.47	"	"	11200	-	127	410	2.5
85	**610**	**1.8**	16.80	"	"	12000	-	102	510	2.2
77	**680**	**1.7**	18.62	"	"	12400	-	92	570	2.0
64	**820**	**1.45**	22.40	"	"	13300	-	77	680	1.75
58	**900**	**1.35**	24.82	"	"	13800	-	69	760	1.6
48.5	**1080**	**1.1**	29.31	"	"	14800	-	59	890	1.35
44	**1190**	**1.0**	32.48	"	"	15400	-	53	990	1.2
37	**1410**	**0.85**	38.85	"	"	16000	-	44.5	1180	1.0
68	**770**	**3.0**	20.98	**BG70-../D11LA4**	149	14600	-	82	640	3.6
62	**840**	**2.7**	22.92	"	"	15100	-	75	700	3.3
53	**990**	**2.3**	27.21	"	"	16400	-	63	830	2.8
48	**1090**	**2.1**	29.69	"	"	16900	-	58	900	2.6
40.5	**1290**	**1.8**	35.24	"	"	18300	-	49	1070	2.1
36.5	**1430**	**1.6**	39.22	"	"	19100	-	44	1190	1.95
31	**1690**	**1.35**	46.54	"	"	20000	-	37	1410	1.65
28.5	**1840**	**1.25**	50.40	"	"	20000	-	34	1540	1.5
24	**2150**	**1.05**	59.82	"	"	20000	-	29	1810	1.25
22	**2350**	**0.98**	64.85	**BG70Z-../D11LA4**	176	20000	-	26.5	1980	1.15
19.5	**2650**	**0.87**	73.82	"	"	20000	-	23.5	2200	1.05
41.5	**1260**	**3.3**	34.22	**BG80-../D11LA4**	204	20200	-	50	1050	4.0
37.5	**1400**	**3.0**	38.00	"	"	21300	-	45	1160	3.6
32.5	**1610**	**2.6**	43.94	"	"	22600	-	39	1340	3.1
29.5	**1780**	**2.4**	48.80	"	"	23800	-	35.5	1470	2.9
25	**2100**	**2.0**	57.24	"	"	25400	-	30	1750	2.4
22.5	**2300**	**1.85**	63.56	"	"	26000	-	27	1940	2.2
21.5	**2400**	**1.75**	66.40	**BG80Z-../D11LA4**	246	26000	-	26	2000	2.1
19.5	**2650**	**1.6**	73.73	"	"	26000	-	23.5	2200	1.9
17	**3050**	**1.4**	84.55	"	"	26000	-	20.5	2550	1.65
15.5	**3350**	**1.25**	93.89	"	"	26000	-	18.5	2800	1.5
13	**4000**	**1.05**	112.4	"	"	26000	-	15.5	3350	1.25
11.5	**4550**	**0.92**	124.8	"	"	26000	-	14	3750	1.1
25	**2100**	**3.2**	57.04	**BG90Z-../D11LA4**	348	65000	-	30	1750	3.9
23	**2250**	**3.3**	62.47	"	"	65000	-	27.5	1910	3.9
19	**2750**	**3.1**	76.61	"	"	65000	-	22.5	2300	3.7
17	**3050**	**2.8**	83.91	"	"	65000	-	20.5	2550	3.3
15	**3500**	**2.4**	96.53	"	"	65000	-	18	2900	2.9
13.5	**3850**	**2.2**	105.7	"	"	65000	-	16.5	3150	2.7
11.5	**4550**	**1.85**	127.1	"	"	65000	-	13.5	3850	2.2
10.5	**5000**	**1.7**	139.2	"	"	65000	-	12.5	4200	2.0
8.8	**5900**	**1.4**	163.0	"	"	65000	-	10.5	5000	1.7
8.0	**6500**	**1.3**	178.5	"	"	65000	-	9.6	5400	1.55
6.9	**7600**	**1.1**	208.3	"	"	65000	-	8.3	6300	1.35
6.3	**8300**	**1.0**	228.1	"	"	65000	-	7.5	7000	1.2
5.5	**9100**	**1.0**	262.5	**BG90G50-../D11LA4**	365	65000	-	6.6	7500	1.25
4.8	**10600**	**0.87**	298.8	"	"	65000	-	5.8	8700	1.05

P = 5.5 kW

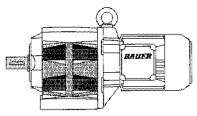


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
9.2	**5700**	**2.9**	154.8	**BG100-../D11LA4**	465	90000	-	11.5	4550	3.7
8.0	**6500**	**2.6**	178.6	"	"	90000	-	9.6	5400	3.1
7.2	**7200**	**2.3**	198.8	"	"	90000	-	8.7	6000	2.8
6.2	**8400**	**2.0**	232.6	"	"	90000	-	7.4	7000	2.4
5.5	**9500**	**1.75**	259.0	"	"	90000	-	6.7	7800	2.2
5.3	**9900**	**1.85**	269.8	**BG100Z-../D11LA4**	555	90000	-	6.4	8200	2.3
4.8	**10900**	**1.7**	300.4	"	"	90000	-	5.7	9200	2.0
4.2	**12500**	**1.5**	343.6	"	"	90000	-	5.0	10500	1.75
3.8	**13800**	**1.35**	382.6	"	"	90000	-	4.5	11600	1.6
3.2	**16400**	**1.15**	456.7	"	"	90000	-	3.8	13800	1.35
2.8	**18700**	**0.99**	508.5	"	"	90000	-	3.4	15400	1.2
2.5	**21000**	**0.88**	591.1	"	"	90000	-	2.9	18100	1.0

P = 7.5 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
580	**123**	**2.5**	2.47	**BG50-../D13MA4**	98	2900	-	700	102	3.0
400	**179**	**1.95**	3.55	"	"	3300	-	485	147	2.4
290	**245**	**1.6**	4.91	"	"	3500	-	350	200	2.0
215	**330**	**1.35**	6.74	"	"	3750	-	255	280	1.6
164	**435**	**1.15**	8.70	"	"	5300	-	197	360	1.4
148	**480**	**1.1**	9.65	"	"	5600	-	178	400	1.3
118	**600**	**0.96**	12.06	"	"	5700	-	142	500	1.15
107	**660**	**0.9**	13.36	"	"	6100	-	128	550	1.1
380	**188**	**3.3**	3.74	**BG60-../D13MA4**	132	7100	-	460	155	3.9
290	**245**	**2.8**	4.98	"	"	7800	-	345	205	3.4
210	**340**	**2.3**	6.88	"	"	8600	-	250	285	2.7
156	**455**	**1.95**	9.13	"	"	9800	-	188	380	2.3
141	**500**	**1.8**	10.12	"	"	10200	-	169	420	2.2
117	**610**	**1.6**	12.16	"	"	10800	-	141	500	2.0
106	**670**	**1.5**	13.47	"	"	11200	-	127	560	1.8
85	**840**	**1.3**	16.80	"	"	12000	-	102	700	1.6
77	**930**	**1.25**	18.62	"	"	12400	-	92	770	1.5
64	**1110**	**1.1**	22.40	"	"	13300	-	77	930	1.3
58	**1230**	**0.98**	24.82	"	"	13800	-	69	1030	1.15
48.5	**1470**	**0.82**	29.31	"	"	14800	-	59	1210	0.99
92	**770**	**3.0**	15.53	**BG70-../D13MA4**	162	12700	-	111	640	3.6
81	**880**	**2.6**	17.68	"	"	13400	-	97	730	3.2
68	**1050**	**2.2**	20.98	"	"	14600	-	82	870	2.6
62	**1150**	**2.0**	22.92	"	"	15100	-	75	950	2.4
53	**1350**	**1.7**	27.21	"	"	16400	-	63	1130	2.0
48	**1490**	**1.55**	29.69	"	"	16900	-	58	1230	1.85
40.5	**1760**	**1.3**	35.24	"	"	18300	-	49	1460	1.6
36.5	**1960**	**1.15**	39.22	"	"	19100	-	44	1620	1.4
31	**2300**	**1.0**	46.54	"	"	20000	-	37	1930	1.2
28.5	**2500**	**0.92**	50.40	"	"	20000	-	34	2100	1.1
54	**1320**	**3.2**	26.44	**BG80-../D13MA4**	216	17900	-	65	1100	3.8
48.5	**1470**	**2.9**	29.36	"	"	18900	-	59	1210	3.5
41.5	**1720**	**2.4**	34.22	"	"	20200	-	50	1430	2.9
37.5	**1910**	**2.2**	38.00	"	"	21300	-	45	1590	2.6
32.5	**2200**	**1.9**	43.94	"	"	22600	-	39	1830	2.3
29.5	**2400**	**1.75**	48.80	"	"	23800	-	35.5	2000	2.1
25	**2850**	**1.45**	57.24	"	"	25400	-	30	2350	1.8
22.5	**3150**	**1.35**	63.56	"	"	26000	-	27	2650	1.6
21.5	**3300**	**1.25**	66.40	**BG80Z-../D13MA4**	259	26000	-	26	2750	1.55
19.5	**3650**	**1.15**	73.73	"	"	26000	-	23.5	3000	1.4
17	**4200**	**1.0**	84.55	"	"	26000	-	20.5	3450	1.2
15.5	**4600**	**0.91**	93.89	"	"	26000	-	18.5	3850	1.1
27	**2650**	**3.2**	53.46	**BG90-../D13MA4**	305	65000	-	32	2200	3.8

P = 7.5 kW

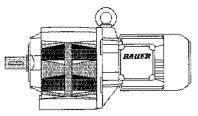


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
25	**2850**	**2.4**	57.04	**BG90Z-../D13MA4**	361	65000	-	30	2350	2.9
23	**3100**	**2.4**	62.47	"	"	65000	-	27.5	2600	2.9
19	**3750**	**2.2**	76.61	"	"	65000	-	22.5	3150	2.7
17	**4200**	**2.0**	83.91	"	"	65000	-	20.5	3450	2.4
15	**4750**	**1.75**	96.53	"	"	65000	-	18	3950	2.1
13.5	**5300**	**1.6**	105.7	"	"	65000	-	16.5	4300	1.95
11.5	**6200**	**1.35**	127.1	"	"	65000	-	13.5	5300	1.6
10.5	**6800**	**1.25**	139.2	"	"	65000	-	12.5	5700	1.45
8.8	**8100**	**1.05**	163.0	"	"	65000	-	10.5	6800	1.25
8.0	**8900**	**0.94**	178.5	"	"	65000	-	9.6	7400	1.15
6.9	**10300**	**0.82**	208.3	"	"	65000	-	8.3	8600	0.98
6.5	**10700**	**0.86**	219.9	**BG90G50-../D13MA4**	377	65000	-	7.8	8800	1.05
13.5	**5300**	**3.2**	107.5	**BG100-../D13MA4**	477	90000	-	16	4450	3.8
12	**5900**	**2.8**	119.7	"	"	90000	-	14.5	4900	3.4
10.5	**6800**	**2.5**	139.1	"	"	90000	-	12.5	5700	2.9
9.2	**7700**	**2.2**	154.8	"	"	90000	-	11.5	6200	2.7
8.0	**8900**	**1.9**	178.6	"	"	90000	-	9.6	7400	2.3
7.2	**9900**	**1.7**	198.8	"	"	90000	-	8.7	8200	2.0
6.2	**11500**	**1.45**	232.6	"	"	90000	-	7.4	9600	1.75
5.5	**13000**	**1.3**	259.0	"	"	90000	-	6.7	10600	1.6
5.3	**13500**	**1.35**	269.8	**BG100Z-../D13MA4**	568	90000	-	6.4	11100	1.65
4.8	**14900**	**1.25**	300.4	"	"	90000	-	5.7	12500	1.5
4.2	**17000**	**1.1**	343.6	"	"	90000	-	5.0	14300	1.3
3.8	**18800**	**0.98**	382.6	"	"	90000	-	4.5	15900	1.15
3.2	**22300**	**0.83**	456.7	"	"	90000	-	3.8	18800	0.98

P = 9.5 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
580	**156**	**1.95**	2.47	**BG50-../D13LA4**	101	2900	-	700	129	2.4
400	**225**	**1.55**	3.55	"	"	3300	-	485	187	1.85
290	**310**	**1.3**	4.91	"	"	3500	-	350	255	1.55
215	**420**	**1.1**	6.74	"	"	3750	-	255	355	1.25
164	**550**	**0.92**	8.70	"	"	5300	-	197	460	1.1
148	**610**	**0.86**	9.65	"	"	5600	-	178	500	1.05
380	**235**	**2.6**	3.74	**BG60-../D13LA4**	135	7100	-	460	197	3.1
290	**310**	**2.2**	4.98	"	"	7800	-	345	260	2.7
210	**430**	**1.8**	6.88	"	"	8600	-	250	360	2.2
156	**580**	**1.55**	9.13	"	"	9800	-	188	480	1.85
141	**640**	**1.45**	10.12	"	"	10200	-	169	530	1.7
117	**770**	**1.3**	12.16	"	"	10800	-	141	640	1.55
106	**850**	**1.2**	13.47	"	"	11200	-	127	710	1.45
85	**1060**	**1.05**	16.80	"	"	12000	-	102	880	1.25
77	**1170**	**0.98**	18.62	"	"	12400	-	92	980	1.15
64	**1410**	**0.85**	22.40	"	"	13300	-	77	1170	1.05
119	**760**	**3.0**	11.97	**BG70-../D13LA4**	165	11200	-	143	630	3.7
109	**830**	**2.8**	13.08	"	"	11600	-	131	690	3.3
92	**980**	**2.3**	15.53	"	"	12700	-	111	810	2.8
81	**1120**	**2.1**	17.68	"	"	13400	-	97	930	2.5
68	**1330**	**1.75**	20.98	"	"	14600	-	82	1100	2.1
62	**1460**	**1.6**	22.92	"	"	15100	-	75	1200	1.9
53	**1710**	**1.35**	27.21	"	"	16400	-	63	1440	1.6
48	**1890**	**1.2**	29.69	"	"	16900	-	58	1560	1.45
40.5	**2200**	**1.05**	35.24	"	"	18300	-	49	1850	1.25
36.5	**2450**	**0.94**	39.22	"	"	19100	-	44	2050	1.1
72	**1260**	**3.3**	19.89	**BG80-../D13LA4**	219	15500	-	86	1050	4.0
65	**1390**	**3.0**	22.09	"	"	16500	-	78	1160	3.6
54	**1680**	**2.5**	26.44	"	"	17900	-	65	1390	3.0
48.5	**1870**	**2.2**	29.36	"	"	18900	-	59	1530	2.7
41.5	**2150**	**1.95**	34.22	"	"	20200	-	50	1810	2.3

P = 9.5 kW

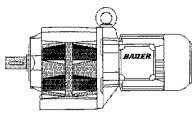


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
37.5	**2400**	**1.75**	38.00	**BG80-../D13LA4**	"	21300	-	45	2000	2.1
32.5	**2750**	**1.55**	43.94	"	"	22600	-	39	2300	1.85
29.5	**3050**	**1.4**	48.80	"	"	23800	-	35.5	2550	1.65
25	**3600**	**1.15**	57.24	"	"	25400	-	30	3000	1.4
22.5	**4000**	**1.05**	63.56	"	"	26000	-	27	3350	1.25
21.5	**4200**	**1.0**	66.40	**BG80Z-../D13LA4**	262	26000	-	26	3450	1.2
19.5	**4650**	**0.9**	73.73	"	"	26000	-	23.5	3850	1.1
34	**2650**	**3.2**	41.85	**BG90-../D13LA4**	308	65000	-	41	2200	3.8
29.5	**3050**	**2.8**	48.82	"	"	65000	-	35.5	2550	3.3
27	**3350**	**2.5**	53.46	"	"	65000	-	32	2800	3.0
25	**3600**	**1.9**	57.04	**BG90Z-../D13LA4**	364	65000	-	30	3000	2.3
23	**3900**	**1.9**	62.47	"	"	65000	-	27.5	3250	2.3
19	**4750**	**1.75**	76.61	"	"	65000	-	22.5	4000	2.1
17	**5300**	**1.6**	83.91	"	"	65000	-	20.5	4400	1.9
15	**6000**	**1.4**	96.53	"	"	65000	-	18	5000	1.7
13.5	**6700**	**1.25**	105.7	"	"	65000	-	16.5	5400	1.55
11.5	**7800**	**1.1**	127.1	"	"	65000	-	13.5	6700	1.25
10.5	**8600**	**0.98**	139.2	"	"	65000	-	12.5	7200	1.15
8.8	**10300**	**0.82**	163.0	"	"	65000	-	10.5	8600	0.98
18	**5000**	**3.3**	80.85	**BG100-../D13LA4**	480	90000	-	21.5	4200	3.9
16	**5600**	**3.0**	90.02	"	"	90000	-	19	4750	3.5
13.5	**6700**	**2.5**	107.5	"	"	90000	-	16	5600	3.0
12	**7500**	**2.2**	119.7	"	"	90000	-	14.5	6200	2.7
10.5	**8600**	**1.95**	139.1	"	"	90000	-	12.5	7200	2.3
9.2	**9800**	**1.7**	154.8	"	"	90000	-	11.5	7800	2.2
8.0	**11300**	**1.5**	178.6	"	"	90000	-	9.6	9400	1.8
7.2	**12600**	**1.35**	198.8	"	"	90000	-	8.7	10400	1.6
6.2	**14600**	**1.15**	232.6	"	"	90000	-	7.4	12200	1.4
5.5	**16400**	**1.0**	259.0	"	"	90000	-	6.7	13500	1.25
5.3	**17100**	**1.1**	269.8	**BG100Z-../D13LA4**	571	90000	-	6.4	14100	1.3
4.8	**18900**	**0.98**	300.4	"	"	90000	-	5.7	15900	1.15
4.2	**21600**	**0.86**	343.6	"	"	90000	-	5.0	18100	1.0

P = 11 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
600	**175**	**1.75**	2.47	**BG50-../D16MA4**	146	2900	-	720	145	2.1
415	**250**	**1.4**	3.55	"	"	3300	-	500	210	1.65
300	**350**	**1.15**	4.91	"	"	3500	-	360	290	1.35
220	**475**	**0.95**	6.74	"	"	3750	-	265	395	1.15
168	**620**	**0.82**	8.70	"	"	5300	-	205	510	1.0
580	**181**	**3.0**	2.52	**BG60-../D16MA4**	180	6200	-	700	150	3.6
395	**265**	**2.3**	3.74	"	"	7100	-	475	220	2.8
295	**355**	**1.95**	4.98	"	"	7800	-	355	295	2.3
215	**485**	**1.6**	6.88	"	"	8600	-	260	400	1.95
160	**650**	**1.35**	9.13	"	"	9800	-	193	540	1.65
145	**720**	**1.25**	10.12	"	"	10200	-	174	600	1.5
121	**860**	**1.15**	12.16	"	"	10800	-	145	720	1.35
109	**960**	**1.05**	13.47	"	"	11200	-	131	800	1.3
87	**1200**	**0.92**	16.80	"	"	12000	-	105	1000	1.1
79	**1320**	**0.87**	18.62	"	"	12400	-	95	1100	1.05
145	**720**	**3.2**	10.09	**BG70-../D16MA4**	214	10200	-	175	600	3.8
122	**860**	**2.7**	11.97	"	"	11200	-	148	700	3.3
112	**930**	**2.5**	13.08	"	"	11600	-	135	770	3.0
95	**1100**	**2.1**	15.53	"	"	12700	-	114	920	2.5
83	**1260**	**1.85**	17.68	"	"	13400	-	100	1050	2.2
70	**1500**	**1.55**	20.98	"	"	14600	-	84	1250	1.85
64	**1640**	**1.4**	22.92	"	"	15100	-	77	1360	1.7
54	**1940**	**1.2**	27.21	"	"	16400	-	65	1610	1.45
49.5	**2100**	**1.1**	29.69	"	"	16900	-	60	1750	1.3

P = 11 kW

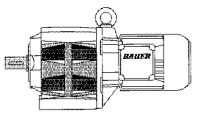


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
41.5	**2500**	**0.92**	35.24	**BG70-../D16MA4**	"	18300	-	50	2100	1.1
37.5	**2800**	**0.82**	39.22	"	"	19100	-	45	2300	1.0
74	**1410**	**3.0**	19.89	**BG80-../D16MA4**	264	15500	-	89	1180	3.6
67	**1560**	**2.7**	22.09	"	"	16500	-	80	1310	3.2
56	**1870**	**2.2**	26.44	"	"	17900	-	67	1560	2.7
50	**2100**	**2.0**	29.36	"	"	18900	-	60	1750	2.4
43	**2400**	**1.75**	34.22	"	"	20200	-	52	2000	2.1
38.5	**2700**	**1.55**	38.00	"	"	21300	-	46.5	2250	1.85
33.5	**3100**	**1.35**	43.94	"	"	22600	-	40.5	2550	1.65
30	**3500**	**1.2**	48.80	"	"	23800	-	36.5	2850	1.45
26	**4000**	**1.05**	57.24	"	"	25400	-	31	3350	1.25
23	**4550**	**0.92**	63.56	"	"	26000	-	28	3750	1.1
22	**4750**	**0.88**	66.40	**BG80Z-../D16MA4**	307	26000	-	27	3850	1.1
20	**5200**	**0.81**	73.73	"	"	26000	-	24	4350	0.97
38.5	**2700**	**3.1**	38.21	**BG90-../D16MA4**	354	65000	-	46.5	2250	3.7
35	**3000**	**2.8**	41.85	"	"	65000	-	42.5	2450	3.4
30	**3500**	**2.4**	48.82	"	"	65000	-	36.5	2850	2.9
27.5	**3800**	**2.2**	53.46	"	"	65000	-	33	3150	2.7
26	**4000**	**1.7**	57.04	**BG90Z-../D16MA4**	413	65000	-	31	3350	2.0
23.5	**4450**	**1.7**	62.47	"	"	65000	-	28.5	3650	2.1
19.5	**5300**	**1.6**	76.61	"	"	65000	-	23	4550	1.85
17.5	**6000**	**1.4**	83.91	"	"	65000	-	21	5000	1.7
15.5	**6700**	**1.25**	96.53	"	"	65000	-	18.5	5600	1.5
14	**7500**	**1.1**	105.7	"	"	65000	-	17	6100	1.4
11.5	**9100**	**0.92**	127.1	"	"	65000	-	14	7500	1.1
10.5	**10000**	**0.84**	139.2	"	"	65000	-	13	8000	1.05
21	**5000**	**3.2**	70.69	**BG100-../D16MA4**	524	90000	-	25	4200	3.8
18.5	**5600**	**3.0**	80.85	"	"	90000	-	22	4750	3.5
16.5	**6300**	**2.7**	90.02	"	"	90000	-	20	5200	3.2
14	**7500**	**2.2**	107.5	"	"	90000	-	16.5	6300	2.7
12.5	**8400**	**2.0**	119.7	"	"	90000	-	15	7000	2.4
10.5	**10000**	**1.7**	139.1	"	"	90000	-	13	8000	2.1
9.5	**11000**	**1.55**	154.8	"	"	90000	-	11.5	9100	1.85
8.2	**12800**	**1.3**	178.6	"	"	90000	-	9.9	10600	1.6
7.4	**14100**	**1.2**	198.8	"	"	90000	-	8.9	11800	1.4
6.3	**16600**	**1.0**	232.6	"	"	90000	-	7.6	13800	1.2
5.7	**18400**	**0.91**	259.0	"	"	90000	-	6.8	15400	1.1
5.5	**19100**	**0.97**	269.8	**BG100Z-../D16MA4**	616	90000	-	6.6	15900	1.15
4.9	**21400**	**0.86**	300.4	"	"	90000	-	5.9	17800	1.05

P = 15 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
600	**235**	**1.3**	2.47	**BG50-../D16LA4**	159	2900	-	720	198	1.55
415	**345**	**1.0**	3.55	"	"	3300	-	500	285	1.2
300	**475**	**0.84**	4.91	"	"	3500	-	360	395	1.0
580	**245**	**2.2**	2.52	**BG60-../D16LA4**	193	6200	-	700	200	2.7
395	**360**	**1.7**	3.74	"	"	7100	-	475	300	2.0
295	**485**	**1.4**	4.98	"	"	7800	-	355	400	1.7
215	**660**	**1.2**	6.88	"	"	8600	-	260	550	1.4
160	**890**	**1.0**	9.13	"	"	9800	-	193	740	1.2
145	**980**	**0.93**	10.12	"	"	10200	-	174	820	1.1
121	**1180**	**0.84**	12.16	"	"	10800	-	145	980	1.0
205	**690**	**3.1**	7.14	**BG70-../D16LA4**	228	8800	-	250	570	3.8
173	**820**	**2.8**	8.48	"	"	9500	-	210	680	3.4
145	**980**	**2.3**	10.09	"	"	10200	-	175	810	2.8
122	**1170**	**1.95**	11.97	"	"	11200	-	148	960	2.4
112	**1270**	**1.8**	13.08	"	"	11600	-	135	1060	2.2

P = 15 kW

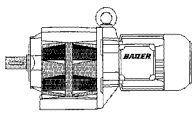


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
95	**1500**	**1.55**	15.53	**BG70-../D16LA4**	"	12700	-	114	1250	1.85
83	**1720**	**1.35**	17.68	"	"	13400	-	100	1430	1.6
70	**2000**	**1.15**	20.98	"	"	14600	-	84	1700	1.35
64	**2200**	**1.05**	22.92	"	"	15100	-	77	1860	1.25
54	**2650**	**0.87**	27.21	"	"	16400	-	65	2200	1.05
49.5	**2850**	**0.81**	29.69	"	"	16900	-	60	2350	0.98
94	**1520**	**2.8**	15.62	**BG80-../D16LA4**	276	13700	-	113	1260	3.3
85	**1680**	**2.5**	17.35	"	"	14600	-	102	1400	3.0
74	**1930**	**2.2**	19.89	"	"	15500	-	89	1600	2.6
67	**2100**	**2.0**	22.09	"	"	16500	-	80	1790	2.3
56	**2550**	**1.65**	26.44	"	"	17900	-	67	2100	2.0
50	**2850**	**1.45**	29.36	"	"	18900	-	60	2350	1.8
43	**3300**	**1.25**	34.22	"	"	20200	-	52	2750	1.55
38.5	**3700**	**1.15**	38.00	"	"	21300	-	46.5	3050	1.4
33.5	**4250**	**0.99**	43.94	"	"	22600	-	40.5	3500	1.2
30	**4750**	**0.88**	48.80	"	"	23800	-	36.5	3900	1.1
49.5	**2850**	**2.9**	29.78	**BG90-../D16LA4**	367	65000	-	60	2350	3.6
45	**3150**	**2.7**	32.62	"	"	65000	-	54	2650	3.2
38.5	**3700**	**2.3**	38.21	"	"	65000	-	46.5	3050	2.8
35	**4050**	**2.1**	41.85	"	"	65000	-	42.5	3350	2.5
30	**4750**	**1.75**	48.82	"	"	65000	-	36.5	3900	2.2
27.5	**5200**	**1.6**	53.46	"	"	65000	-	33	4300	1.95
26	**5500**	**1.25**	57.04	**BG90Z-../D16LA4**	426	65000	-	31	4600	1.5
23.5	**6000**	**1.25**	62.47	"	"	65000	-	28.5	5000	1.5
19.5	**7300**	**1.15**	76.61	"	"	65000	-	23	6200	1.35
17.5	**8100**	**1.05**	83.91	"	"	65000	-	21	6800	1.25
15.5	**9200**	**0.91**	96.53	"	"	65000	-	18.5	7700	1.1
14	**10200**	**0.82**	105.7	"	"	65000	-	17	8400	1.0
31.5	**4500**	**3.1**	46.43	**BG100-../D16LA4**	538	90000	-	38	3750	3.8
28.5	**5000**	**2.9**	51.70	"	"	90000	-	34.5	4150	3.5
23	**6200**	**2.5**	63.49	"	"	90000	-	28	5100	3.0
21	**6800**	**2.3**	70.69	"	"	90000	-	25	5700	2.8
18.5	**7700**	**2.1**	80.85	"	"	90000	-	22	6500	2.5
16.5	**8600**	**1.95**	90.02	"	"	90000	-	20	7100	2.4
14	**10200**	**1.65**	107.5	"	"	90000	-	16.5	8600	1.95
12.5	**11400**	**1.45**	119.7	"	"	90000	-	15	9500	1.75
10.5	**13600**	**1.25**	139.1	"	"	90000	-	13	11000	1.55
9.5	**15000**	**1.1**	154.8	"	"	90000	-	11.5	12400	1.35
8.2	**17400**	**0.97**	178.6	"	"	90000	-	9.9	14400	1.15
7.4	**19300**	**0.87**	198.8	"	"	90000	-	8.9	16000	1.05

P = 18.5 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
600	**290**	**1.05**	2.47	**BG50-../D16XA4**	169	2900	-	720	245	1.25
415	**425**	**0.82**	3.55	"	"	3300	-	500	350	0.99
580	**300**	**1.8**	2.52	**BG60-../D16XA4**	203	6200	-	700	250	2.1
395	**445**	**1.4**	3.74	"	"	7100	-	475	370	1.65
295	**590**	**1.15**	4.98	"	"	7800	-	355	495	1.4
215	**820**	**0.95**	6.88	"	"	8600	-	260	670	1.15
160	**1100**	**0.81**	9.13	"	"	9800	-	193	910	0.98
205	**860**	**2.5**	7.14	**BG70-../D16XA4**	238	8800	-	250	700	3.1
173	**1020**	**2.2**	8.48	"	"	9500	-	210	840	2.7
145	**1210**	**1.9**	10.09	"	"	10200	-	175	1000	2.3
122	**1440**	**1.6**	11.97	"	"	11200	-	148	1190	1.95
112	**1570**	**1.45**	13.08	"	"	11600	-	135	1300	1.75
95	**1850**	**1.25**	15.53	"	"	12700	-	114	1540	1.5
83	**2100**	**1.1**	17.68	"	"	13400	-	100	1760	1.3

P = 18.5 kW

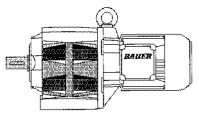


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
70	**2500**	**0.92**	20.98	**BG70-../D16XA4**	"	14600	-	84	2100	1.1
64	**2750**	**0.84**	22.92	"	"	15100	-	77	2250	1.0
128	**1380**	**3.0**	11.43	**BG80-../D16XA4**	286	11600	-	154	1140	3.7
116	**1520**	**2.8**	12.69	"	"	12400	-	139	1270	3.3
94	**1870**	**2.2**	15.62	"	"	13700	-	113	1560	2.7
85	**2050**	**2.0**	17.35	"	"	14600	-	102	1730	2.4
74	**2350**	**1.8**	19.89	"	"	15500	-	89	1980	2.1
67	**2600**	**1.6**	22.09	"	"	16500	-	80	2200	1.9
56	**3150**	**1.35**	26.44	"	"	17900	-	67	2600	1.6
50	**3500**	**1.2**	29.36	"	"	18900	-	60	2900	1.45
43	**4100**	**1.0**	34.22	"	"	20200	-	52	3350	1.25
38.5	**4550**	**0.92**	38.00	"	"	21300	-	46.5	3750	1.1
33.5	**5200**	**0.81**	43.94	"	"	22600	-	40.5	4350	0.97
65	**2700**	**3.1**	22.62	**BG90-../D16XA4**	377	65000	-	78	2250	3.7
59	**2950**	**2.8**	24.78	"	"	65000	-	72	2450	3.4
49.5	**3550**	**2.4**	29.78	"	"	65000	-	60	2900	2.9
45	**3900**	**2.2**	32.62	"	"	65000	-	54	3250	2.6
38.5	**4550**	**1.85**	38.21	"	"	65000	-	46.5	3750	2.2
35	**5000**	**1.7**	41.85	"	"	65000	-	42.5	4150	2.0
30	**5800**	**1.45**	48.82	"	"	65000	-	36.5	4800	1.75
27.5	**6400**	**1.3**	53.46	"	"	65000	-	33	5300	1.6
26	**6700**	**1.0**	57.04	**BG90Z-../D16XA4**	436	65000	-	31	5600	1.2
23.5	**7500**	**1.0**	62.47	"	"	65000	-	28.5	6100	1.25
19.5	**9000**	**0.93**	76.61	"	"	65000	-	23	7600	1.1
17.5	**10000**	**0.84**	83.91	"	"	65000	-	21	8400	1.0
31.5	**5600**	**2.5**	46.43	**BG100-../D16XA4**	548	90000	-	38	4600	3.1
28.5	**6100**	**2.4**	51.70	"	"	90000	-	34.5	5100	2.8
23	**7600**	**2.0**	63.49	"	"	90000	-	28	6300	2.4
21	**8400**	**1.9**	70.69	"	"	90000	-	25	7000	2.3
18.5	**9500**	**1.75**	80.85	"	"	90000	-	22	8000	2.1
16.5	**10700**	**1.55**	90.02	"	"	90000	-	20	8800	1.9
14	**12600**	**1.35**	107.5	"	"	90000	-	16.5	10700	1.55
12.5	**14100**	**1.2**	119.7	"	"	90000	-	15	11700	1.45
10.5	**16800**	**1.0**	139.1	"	"	90000	-	13	13500	1.25
9.5	**18500**	**0.91**	154.8	"	"	90000	-	11.5	15300	1.1

P = 22 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
295	**710**	**2.1**	4.95	**BG70-../D18LA4**	294	6900	-	360	580	2.6
250	**840**	**2.1**	5.87	"	"	8200	-	300	700	2.5
205	**1020**	**2.1**	7.14	"	"	8800	-	250	840	2.6
173	**1210**	**1.9**	8.48	"	"	9500	-	210	1000	2.3
145	**1440**	**1.6**	10.09	"	"	10200	-	175	1200	1.9
122	**1720**	**1.35**	11.97	"	"	11200	-	148	1410	1.65
112	**1870**	**1.25**	13.08	"	"	11600	-	135	1550	1.5
95	**2200**	**1.05**	15.53	"	"	12700	-	114	1840	1.25
83	**2500**	**0.92**	17.68	"	"	13400	-	100	2100	1.1
250	**840**	**3.2**	5.94	**BG80-../D18LA4**	348	8300	-	300	700	3.8
225	**930**	**3.2**	6.60	"	"	9100	-	270	770	3.8
176	**1190**	**3.2**	8.30	"	"	10400	-	215	970	3.9
159	**1320**	**3.0**	9.21	"	"	10800	-	192	1090	3.6
128	**1640**	**2.6**	11.43	"	"	11600	-	154	1360	3.1
116	**1810**	**2.3**	12.69	"	"	12400	-	139	1510	2.8
94	**2200**	**1.9**	15.62	"	"	13700	-	113	1850	2.3
85	**2450**	**1.7**	17.35	"	"	14600	-	102	2050	2.0
74	**2800**	**1.5**	19.89	"	"	15500	-	89	2350	1.8

P = 22 kW

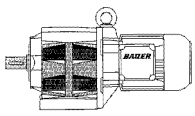


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
67	**3100**	**1.35**	22.09	**BG80-../D18LA4**	"	16500	-	80	2600	1.6
56	**3750**	**1.1**	26.44	"	"	17900	-	67	3100	1.35
50	**4200**	**1.0**	29.36	"	"	18900	-	60	3500	1.2
43	**4850**	**0.87**	34.22	"	"	20200	-	52	4000	1.05
82	**2550**	**3.2**	17.96	**BG90-../D18LA4**	440	59800	-	98	2100	3.9
75	**2800**	**3.0**	19.67	"	"	62400	-	90	2300	3.7
65	**3200**	**2.6**	22.62	"	"	65000	-	78	2650	3.2
59	**3550**	**2.4**	24.78	"	"	65000	-	72	2900	2.9
49.5	**4200**	**2.0**	29.78	"	"	65000	-	60	3500	2.4
45	**4650**	**1.8**	32.62	"	"	65000	-	54	3850	2.2
38.5	**5400**	**1.55**	38.21	"	"	65000	-	46.5	4500	1.85
35	**6000**	**1.4**	41.85	"	"	65000	-	42.5	4900	1.7
30	**7000**	**1.2**	48.82	"	"	65000	-	36.5	5700	1.45
27.5	**7600**	**1.1**	53.46	"	"	65000	-	33	6300	1.35
26	**8000**	**0.85**	57.04	**BG90Z-../D18LA4**	493	65000	-	31	6700	1.0
23.5	**8900**	**0.84**	62.47	"	"	65000	-	28.5	7300	1.05
61	**3400**	**3.3**	23.95	**BG100-../D18LA4**	609	87900	-	74	2800	4.0
43.5	**4800**	**2.7**	33.71	"	"	88500	-	53	3950	3.3
39	**5300**	**2.5**	37.54	"	"	90000	-	47	4450	3.0
31.5	**6600**	**2.1**	46.43	"	"	90000	-	38	5500	2.6
28.5	**7300**	**2.0**	51.70	"	"	90000	-	34.5	6000	2.4
23	**9100**	**1.7**	63.49	"	"	90000	-	28	7500	2.1
21	**10000**	**1.6**	70.69	"	"	90000	-	25	8400	1.9
18.5	**11300**	**1.45**	80.85	"	"	90000	-	22	9500	1.75
16.5	**12700**	**1.3**	90.02	"	"	90000	-	20	10500	1.6
14	**15000**	**1.1**	107.5	"	"	90000	-	16.5	12700	1.3
12.5	**16800**	**1.0**	119.7	"	"	90000	-	15	14000	1.2
10.5	**20000**	**0.84**	139.1	"	"	90000	-	13	16100	1.05

P = 30 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
295	**970**	**1.55**	4.95	**BG70-../D18XA4**	312	6900	-	360	790	1.9
250	**1140**	**1.55**	5.87	"	"	8200	-	300	950	1.85
205	**1390**	**1.55**	7.14	"	"	8800	-	250	1140	1.9
173	**1650**	**1.4**	8.48	"	"	9500	-	210	1360	1.7
145	**1970**	**1.15**	10.09	"	"	10200	-	175	1630	1.4
122	**2300**	**1.0**	11.97	"	"	11200	-	148	1930	1.2
112	**2550**	**0.9**	13.08	"	"	11600	-	135	2100	1.1
250	**1140**	**2.3**	5.94	**BG80-../D18XA4**	366	8300	-	300	950	2.8
225	**1270**	**2.3**	6.60	"	"	9100	-	270	1060	2.8
176	**1620**	**2.3**	8.30	"	"	10400	-	215	1330	2.8
159	**1800**	**2.2**	9.21	"	"	10800	-	192	1490	2.6
128	**2200**	**1.9**	11.43	"	"	11600	-	154	1860	2.3
116	**2450**	**1.7**	12.69	"	"	12400	-	139	2050	2.0
94	**3000**	**1.4**	15.62	"	"	13700	-	113	2500	1.7
85	**3350**	**1.25**	17.35	"	"	14600	-	102	2800	1.5
74	**3850**	**1.1**	19.89	"	"	15500	-	89	3200	1.3
67	**4250**	**0.99**	22.09	"	"	16500	-	80	3550	1.2
56	**5100**	**0.82**	26.44	"	"	17900	-	67	4250	0.99
134	**2100**	**3.3**	10.90	**BG90-../D18XA4**	458	52300	-	162	1760	4.0
110	**2600**	**2.9**	13.37	"	"	55000	-	132	2150	3.5
100	**2850**	**2.7**	14.64	"	"	57000	-	121	2350	3.3
82	**3450**	**2.4**	17.96	"	"	59800	-	98	2900	2.8
75	**3800**	**2.2**	19.67	"	"	62400	-	90	3150	2.7
65	**4400**	**1.9**	22.62	"	"	65000	-	78	3650	2.3
59	**4850**	**1.75**	24.78	"	"	65000	-	72	3950	2.1
49.5	**5700**	**1.45**	29.78	"	"	65000	-	60	4750	1.75
45	**6300**	**1.35**	32.62	"	"	65000	-	54	5300	1.6

P = 30 kW

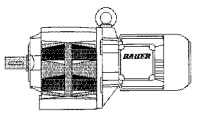


50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
38.5	**7400**	**1.15**	38.21	**BG90-../D18XA4**	"	65000	-	46.5	6100	1.4
35	**8100**	**1.05**	41.85	"	"	65000	-	42.5	6700	1.25
30	**9500**	**0.88**	48.82	"	"	65000	-	36.5	7800	1.1
27.5	**10400**	**0.81**	53.46	"	"	65000	-	33	8600	0.98
118	**2400**	**3.0**	12.45	**BG100-../D18XA4**	627	72100	-	142	2000	3.6
84	**3400**	**3.0**	17.39	"	"	82400	-	102	2800	3.6
61	**4650**	**2.4**	23.95	"	"	87900	-	74	3850	2.9
43.5	**6500**	**2.0**	33.71	"	"	88500	-	53	5400	2.4
39	**7300**	**1.8**	37.54	"	"	90000	-	47	6000	2.2
31.5	**9000**	**1.55**	46.43	"	"	90000	-	38	7500	1.9
28.5	**10000**	**1.45**	51.70	"	"	90000	-	34.5	8300	1.75
23	**12400**	**1.25**	63.49	"	"	90000	-	28	10200	1.5
21	**13600**	**1.15**	70.69	"	"	90000	-	25	11400	1.4
18.5	**15400**	**1.05**	80.85	"	"	90000	-	22	13000	1.25
16.5	**17300**	**0.97**	90.02	"	"	90000	-	20	14300	1.15
14	**20400**	**0.82**	107.5	"	"	90000	-	16.5	17300	0.97

P = 37 kW

50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2	M_2	f_B						n_2	M_2	f_B
1/min	Nm				kg	N	N	1/min	Nm	
295	**1190**	**1.25**	4.95	**BG70-..-K/DNF22SB4**	521	6900	-	360	980	1.55
250	**1410**	**1.25**	5.87	"	"	8200	-	300	1170	1.5
205	**1720**	**1.25**	7.14	"	"	8800	-	250	1410	1.55
173	**2000**	**1.15**	8.48	"	"	9500	-	210	1680	1.35
250	**1410**	**1.9**	5.94	**BG80-..-K/DNF22SB4**	580	8300	-	300	1170	2.3
225	**1570**	**1.9**	6.60	"	"	9100	-	270	1300	2.3
176	**2000**	**1.9**	8.30	"	"	10400	-	215	1640	2.3
159	**2200**	**1.8**	9.21	"	"	10800	-	192	1840	2.1
128	**2750**	**1.55**	11.43	"	"	11600	-	154	2250	1.85
116	**3000**	**1.4**	12.69	"	"	12400	-	139	2500	1.7
94	**3750**	**1.1**	15.62	"	"	13700	-	113	3100	1.35
85	**4150**	**1.0**	17.35	"	"	14600	-	102	3450	1.2
184	**1920**	**3.3**	7.97	**BG90-..-K/DNF22SB4**	671	47900	-	225	1570	4.0
147	**2400**	**2.8**	9.95	"	"	50500	-	177	1990	3.4
134	**2600**	**2.7**	10.90	"	"	52300	-	162	2150	3.3
110	**3200**	**2.3**	13.37	"	"	55000	-	132	2650	2.8
100	**3500**	**2.2**	14.64	"	"	57000	-	121	2900	2.7
82	**4300**	**1.9**	17.96	"	"	59800	-	98	3600	2.3
75	**4700**	**1.8**	19.67	"	"	62400	-	90	3900	2.2
65	**5400**	**1.55**	22.62	"	"	65000	-	78	4500	1.85
59	**5900**	**1.4**	24.78	"	"	65000	-	72	4900	1.7
49.5	**7100**	**1.2**	29.78	"	"	65000	-	60	5800	1.45
45	**7800**	**1.1**	32.62	"	"	65000	-	54	6500	1.3
118	**2950**	**2.5**	12.45	**BG100-..-K/DNF22SB4**	842	72100	-	142	2450	3.0
84	**4200**	**2.4**	17.39	"	"	82400	-	102	3450	2.9
61	**5700**	**1.95**	23.95	"	"	87900	-	74	4750	2.4
43.5	**8100**	**1.6**	33.71	"	"	88500	-	53	6600	1.95
39	**9000**	**1.45**	37.54	"	"	90000	-	47	7500	1.75
31.5	**11200**	**1.25**	46.43	"	"	90000	-	38	9200	1.55
28.5	**12300**	**1.15**	51.70	"	"	90000	-	34.5	10200	1.4
23	**15300**	**1.0**	63.49	"	"	90000	-	28	12600	1.2

P = 45 kW



50 Hz			i	Type	m	F_{RN}	F_{RV}	60 Hz		
n_2 1/min	M_2 Nm	f_B			kg	N	N	n_2 1/min	M_2 Nm	f_B
295	**1450**	**1.05**	4.95	**BG70-..-K/DNF22MB4**	551	6900	-	360	1190	1.25
250	**1710**	**1.05**	5.87	"	"	8200	-	300	1430	1.25
205	**2050**	**1.05**	7.14	"	"	8800	-	250	1710	1.25
250	**1710**	**1.55**	5.94	**BG80-..-K/DNF22MB4**	610	8300	-	300	1430	1.85
225	**1910**	**1.55**	6.60	"	"	9100	-	270	1590	1.85
176	**2400**	**1.55**	8.30	"	"	10400	-	215	1990	1.9
159	**2700**	**1.45**	9.21	"	"	10800	-	192	2200	1.8
128	**3350**	**1.25**	11.43	"	"	11600	-	154	2750	1.55
116	**3700**	**1.15**	12.69	"	"	12400	-	139	3050	1.4
230	**1860**	**3.2**	6.46	**BG90-..-K/DNF22MB4**	701	44200	-	275	1560	3.8
205	**2050**	**3.0**	7.28	"	"	46300	-	245	1750	3.5
184	**2300**	**2.7**	7.97	"	"	47900	-	225	1910	3.3
147	**2900**	**2.4**	9.95	"	"	50500	-	177	2400	2.8
134	**3200**	**2.2**	10.90	"	"	52300	-	162	2650	2.6
110	**3900**	**1.95**	13.37	"	"	55000	-	132	3250	2.3
100	**4250**	**1.8**	14.64	"	"	57000	-	121	3550	2.2
82	**5200**	**1.6**	17.96	"	"	59800	-	98	4350	1.9
75	**5700**	**1.45**	19.67	"	"	62400	-	90	4750	1.75
65	**6600**	**1.25**	22.62	"	"	65000	-	78	5500	1.55
59	**7200**	**1.15**	24.78	"	"	65000	-	72	5900	1.4
118	**3600**	**2.0**	12.45	**BG100-..-K/DN-F22MB4**	872	72100	-	142	3000	2.4
84	**5100**	**2.0**	17.39	"	"	82400	-	102	4200	2.4
61	**7000**	**1.6**	23.95	"	"	87900	-	74	5800	1.95
43.5	**9800**	**1.3**	33.71	"	"	88500	-	53	8100	1.6
39	**11000**	**1.2**	37.54	"	"	90000	-	47	9100	1.45
31.5	**13600**	**1.05**	46.43	"	"	90000	-	38	11300	1.25

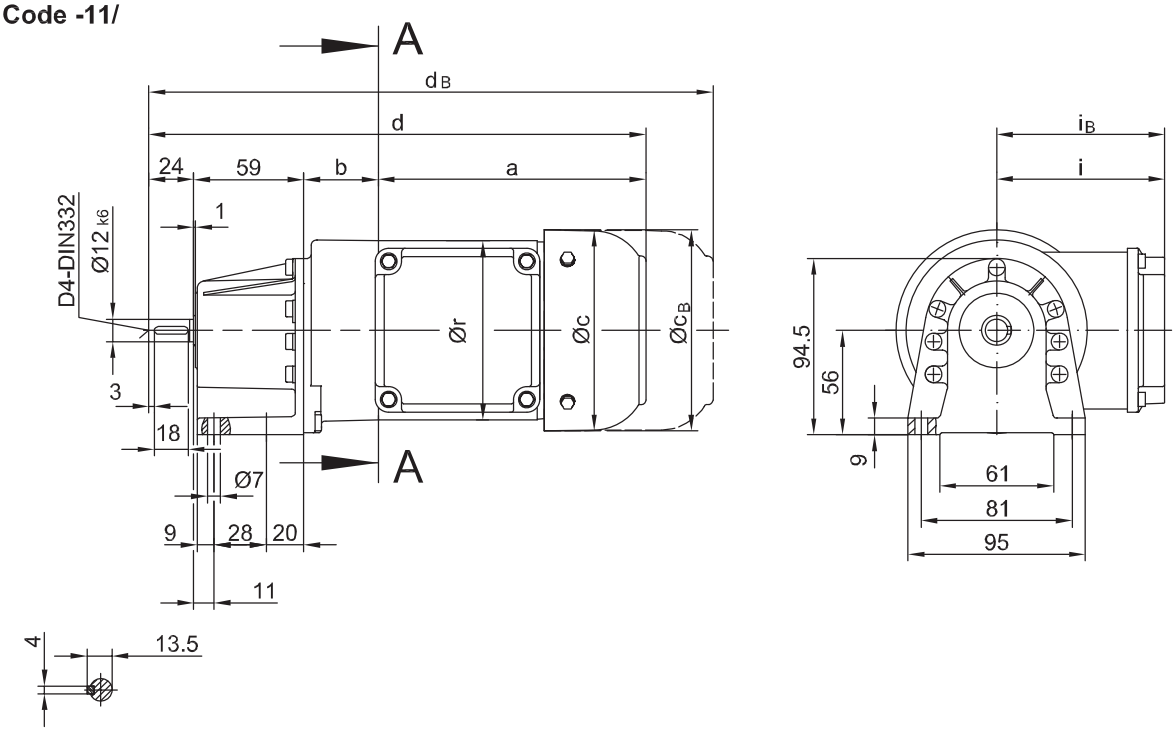
10.3 Dimensional drawings, helical-geared motors

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG04

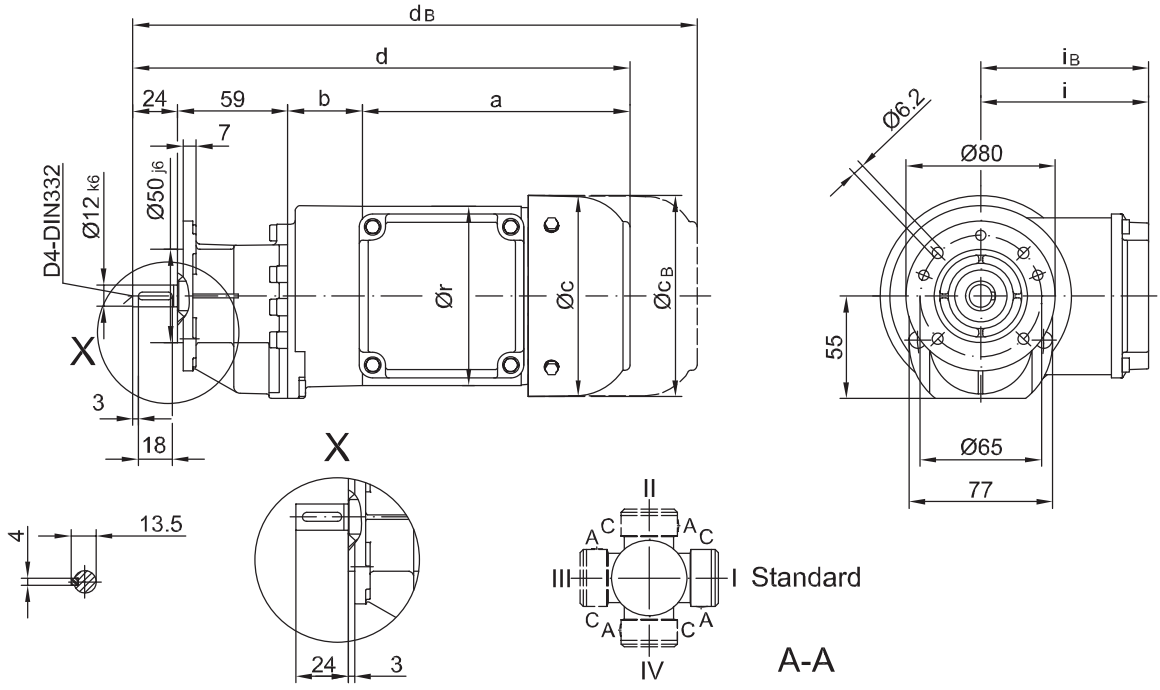
Fussausführung/ Foot mounting/ fixation à pied

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -31/



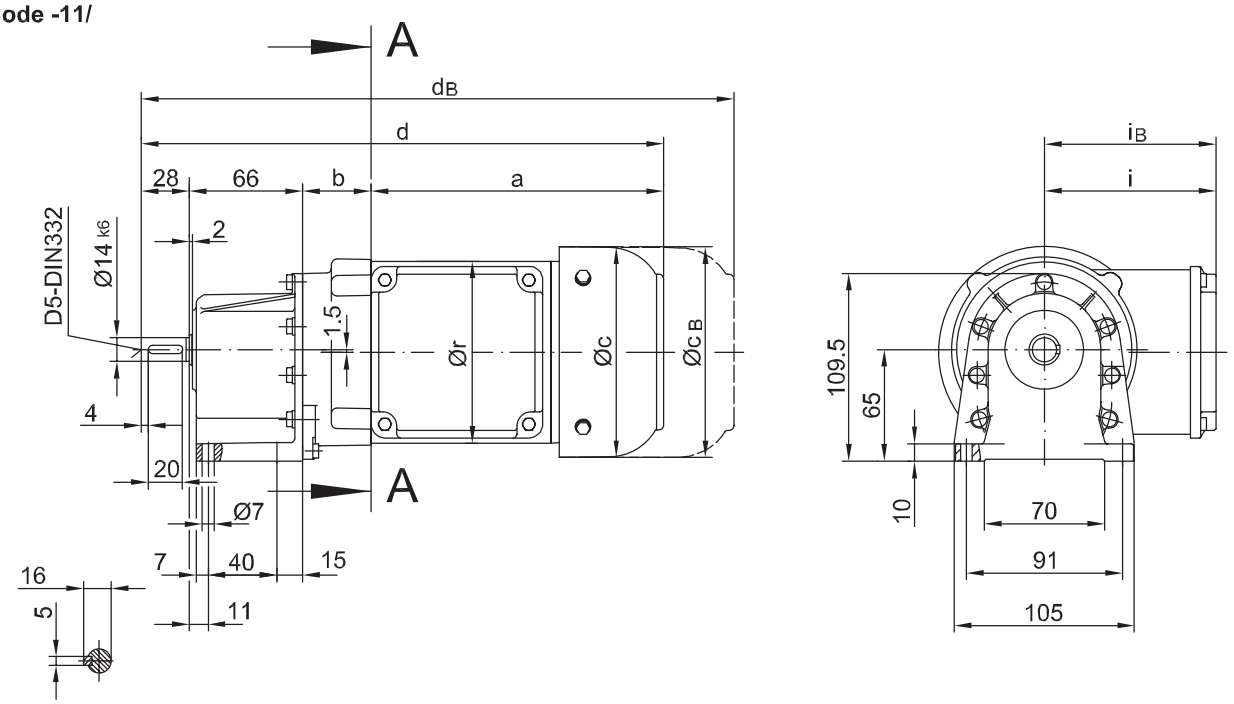
Typ/ Type/ Type	a	b	c	d	i	r	Ausführung mit Bremse/ with brake/ avec frein													
							i_B	E003												
								c_B	d_B											
BG04-../D04..	143	40	111	266	90	96	90	111	309											

Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG05

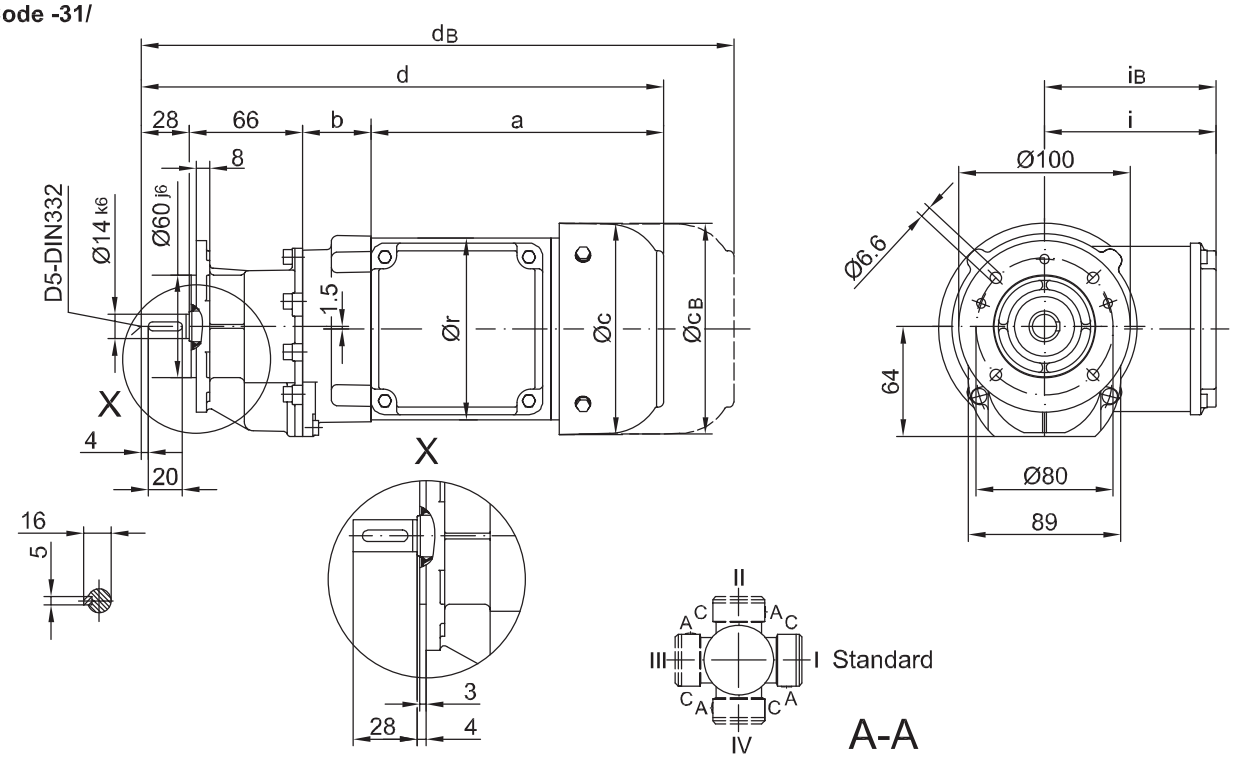
Fussausführung/ Foot mounting/ fixation à pied

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -31/



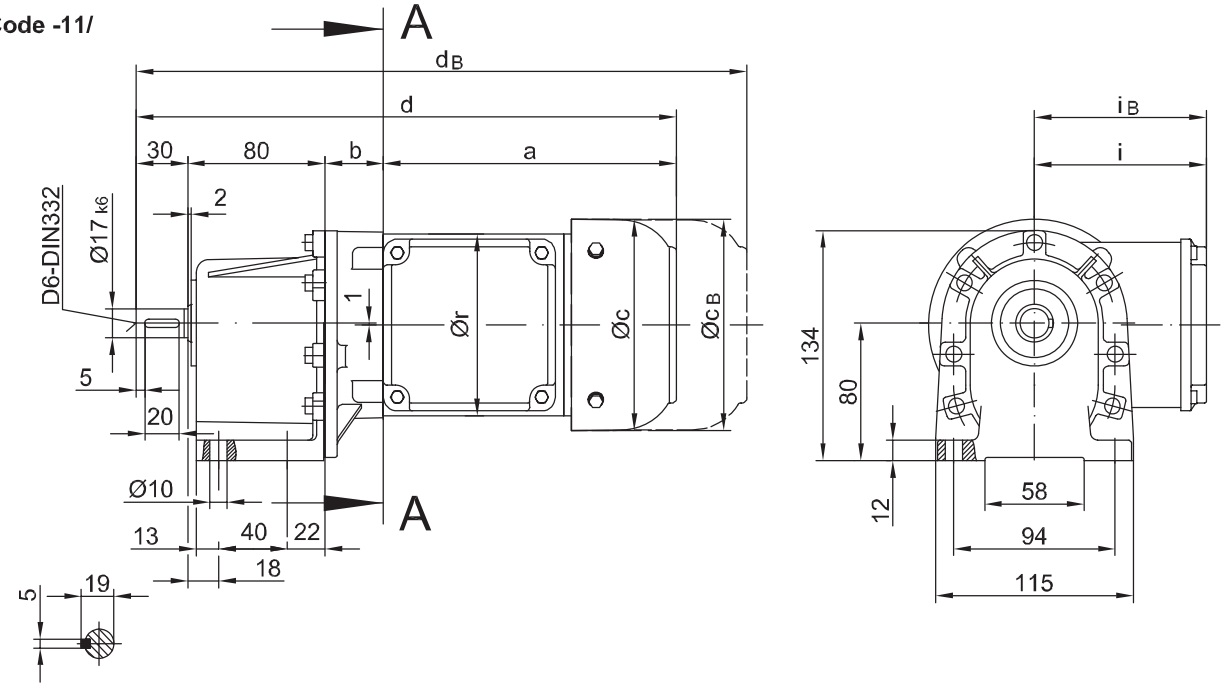
Typ/ Type/ Type	a	b	c	d	i	r	Ausführung mit Bremse/ with brake/ avec frein																
							i_B	E003		E004													
								c_B	d_B	c_B	d_B												
BG05-../D04..	143	38	111	275	90	96	90	111	318														
BG05-../D05..	170	40	123	305	100	106	100	123	347														
BG05-../D06..	170	40	123	305	100	121	100	123	347														
BG05-../D07..	190	40	123	325	100	121	100	123	367	123	367												

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG06

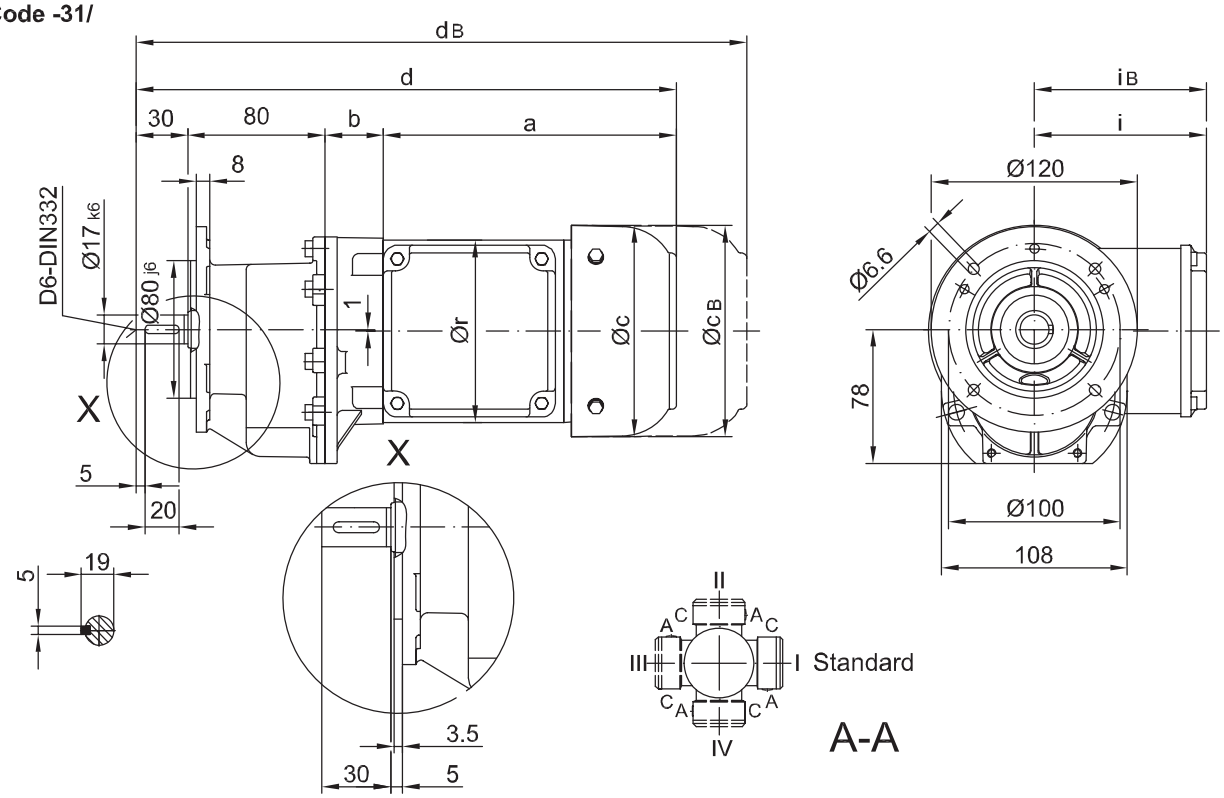
Fussausführung/ Foot mounting/ fixation à pied

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -31/



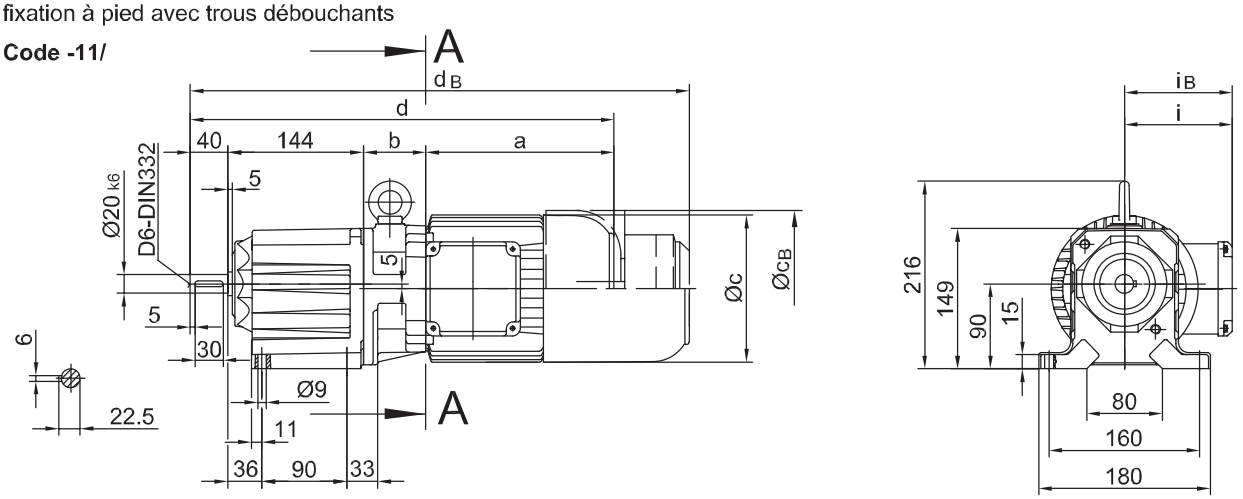
Typ/ Type/ Type	a	b	c	d	i	r	Ausführung mit Bremse/ with brake/ avec frein																	
							i_B	E003		E004		E008												
								c_B	d_B	c_B	d_B	c_B	d_B											
BG06-../D04..	143	32	111	285	90	96	90	111	328															
BG06-../D05..	170	34	123	315	100	106	100	123	357															
BG06-../D06..	170	34	123	315	100	121	100	123	357															
BG06-../D07..	190	34	123	335	100	121	100	123	377	123	377													
BG06-../D08..	200	78	156	388	115	156	115					166	463											

Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG10 - BG10Z

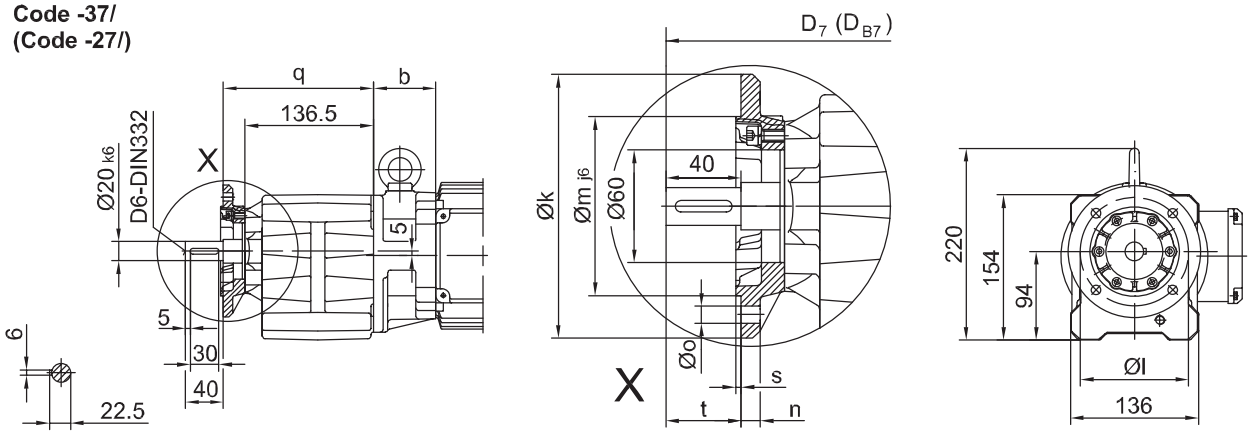
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



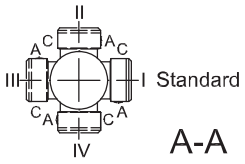
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG10(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	140	115	95	10	9	159.5	3	40	d+15.5	d_B+15.5
klein/ small/ petit -27/	120	100	80	8	6.6	154.5	3	45	d+15.5	d_B+15.5



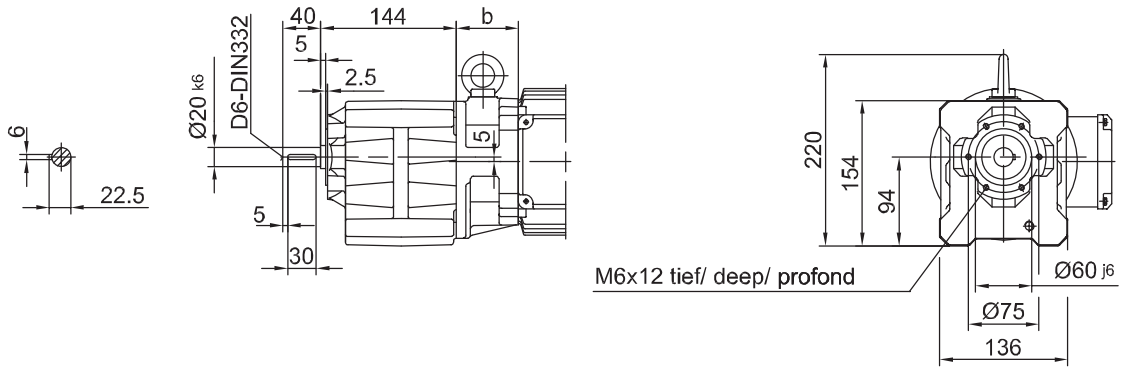
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein											
						i_B	E003		E004		E008		Z008		Z015			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG10Z-../D04..	143	86	111	413	90	90	111	456										
BG10-../D05..	170	62	123	417	100	100	123	459										
BG10Z../D05..	170	88	123	443	100	100	123	485										
BG10-../D06..	170	62	123	417	100	100	123	459										
BG10Z-../D06..	170	88	123	443	100	100	123	485										
BG10-../D07..	190	62	123	437	100	100	123	479	123	479								
BG10Z-../D07..	190	88	123	463	100	100	123	505	123	505								
BG10-../D08..	200	66	156	450	115	115					166	525						
BG10Z-../D08..	200	132	156	516	115	115					166	591						
BG10-../D09..	251	80.5	181	515	124	124					192	595	192	609	192	615		

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG10 - BG10Z

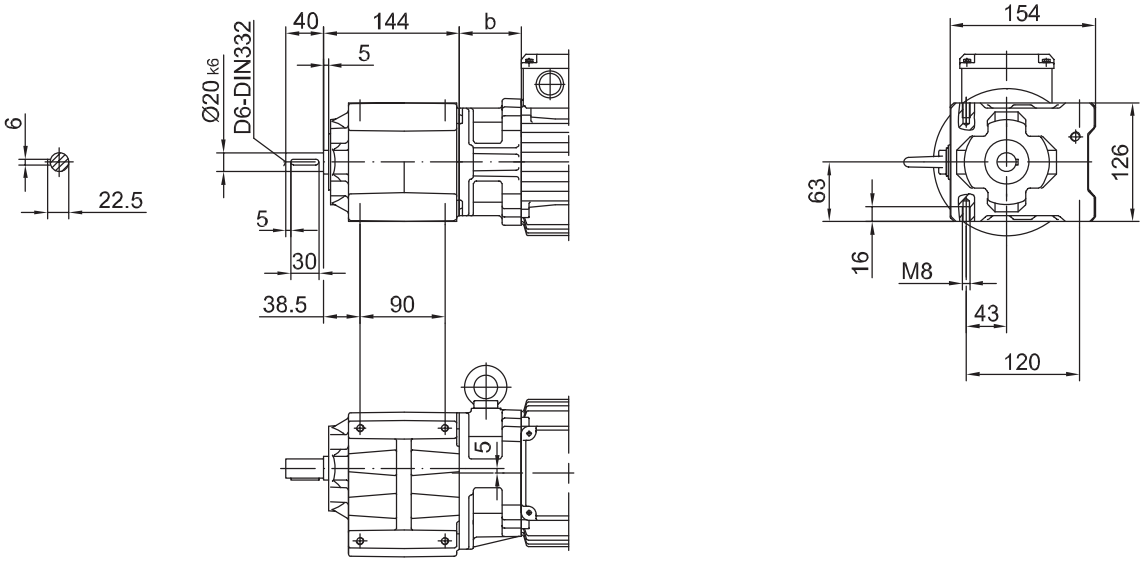
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



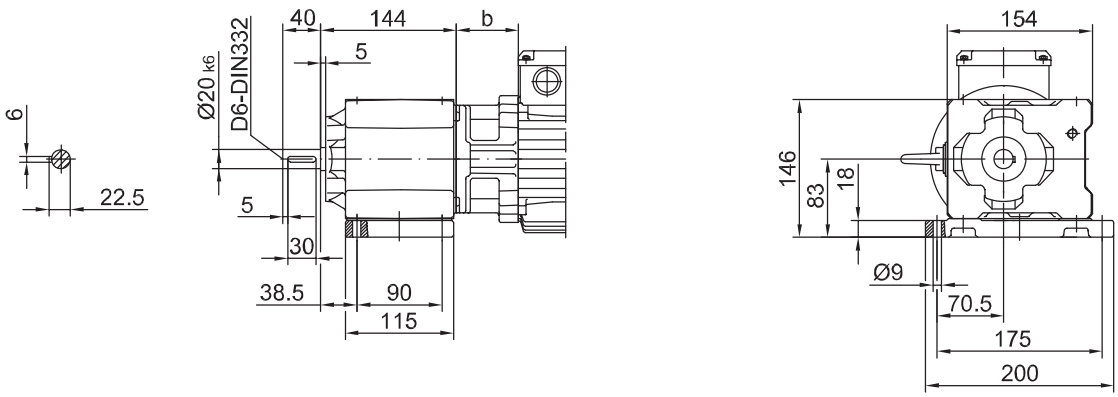
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



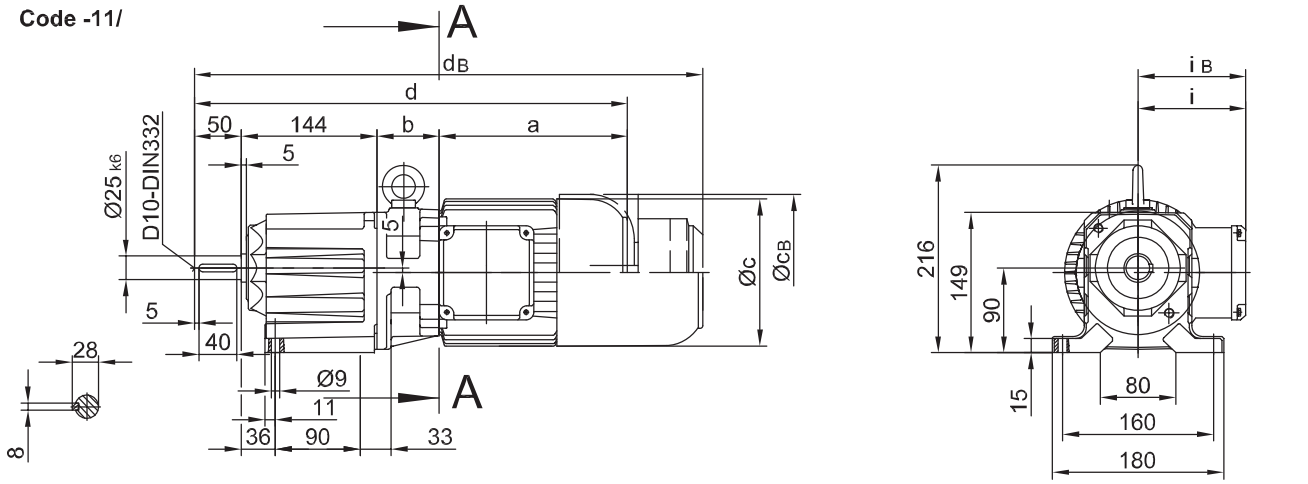
10

Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG10X - BG10XZ

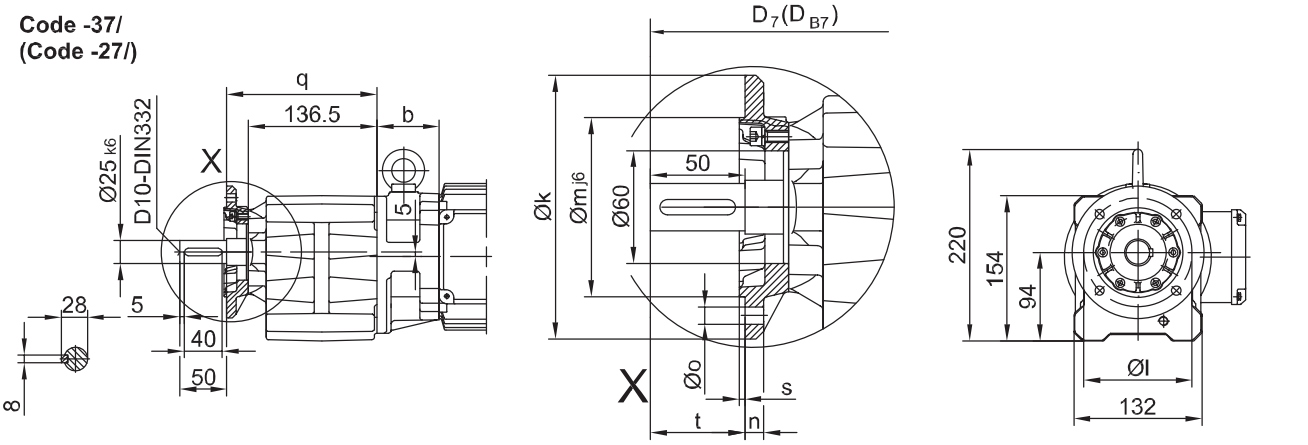
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

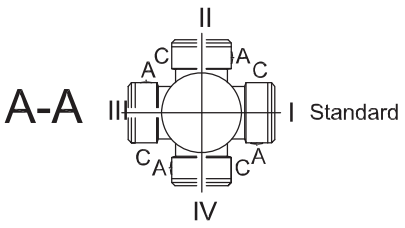
Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)





Flanschmasse/ Flange dimensions/ cotes de la bride

BG10X(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	Ø140	Ø115	Ø95	10	Ø9	159.5	3	50	d+15.5	d_B+15.5
klein/ small/ petit -27/	Ø120	Ø100	Ø80	8	Ø6.6	154.5	3	55	d+15.5	d_B+15.5

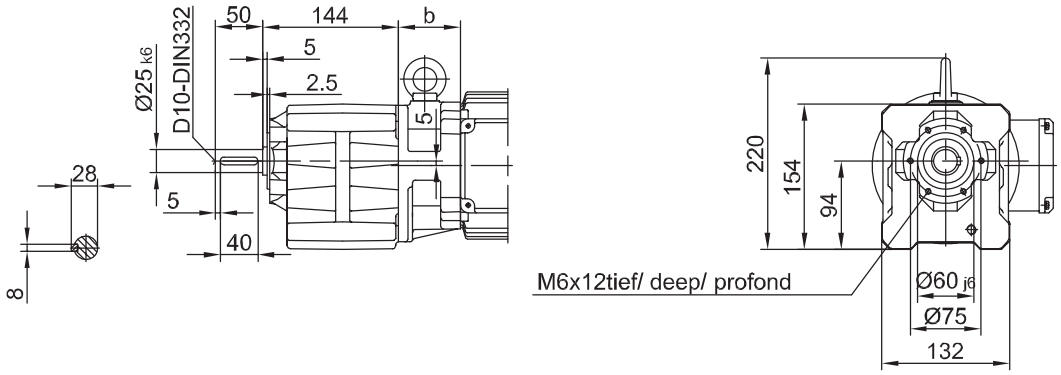
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein											
						i_B	E003		E004		E008		Z008		Z015			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG10XZ-.1/D04..	143	86	111	423	90	90	111	466										
BG10X-.1/D05..	170	62	123	427	100	100	123	469										
BG10XZ-.1/D05..	170	88	123	453	100	100	123	495										
BG10X-.1/D06..	170	62	123	427	100	100	123	469										
BG10XZ-.1/D06..	170	88	123	453	100	100	123	495										
BG10X-.1/D07..	190	62	123	447	100	100	123	489	123	489								
BG10XZ-.1/D07..	190	88	123	473	100	100	123	515	123	515								
BG10X-.1/D08..	200	66	156	460	115	115					166	535						
BG10XZ-.1/D08..	200	132	156	526	115	115					166	601						
BG10X-.1/D09..	251	80.5	176	525	124	124					192	605	192	619	192	625		

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG10X - BG10XZ

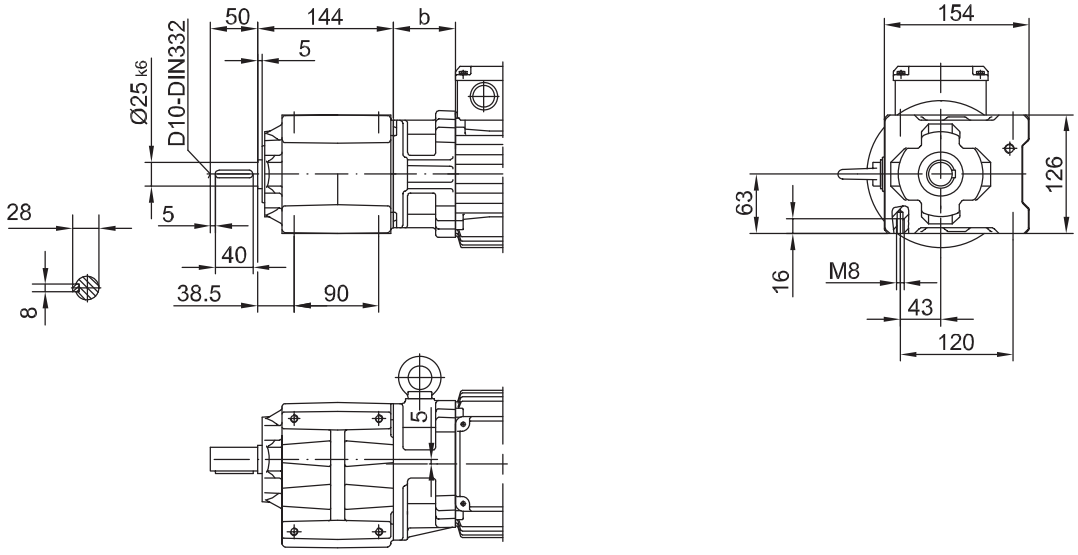
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



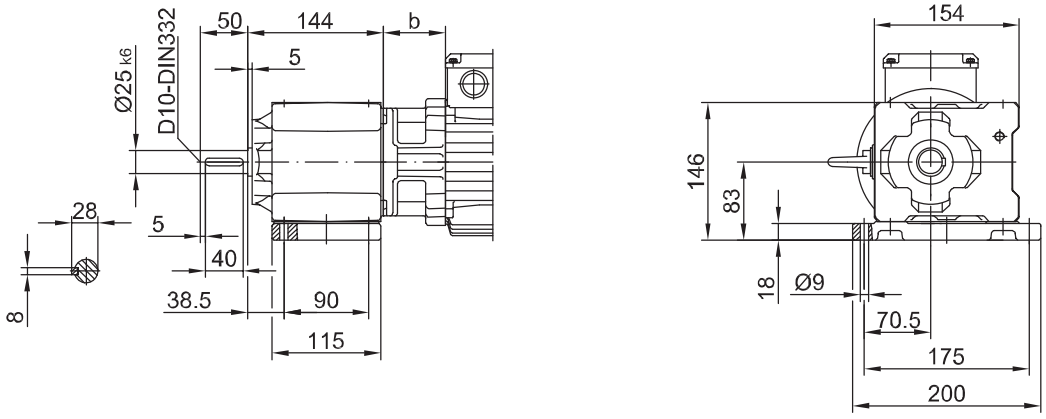
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



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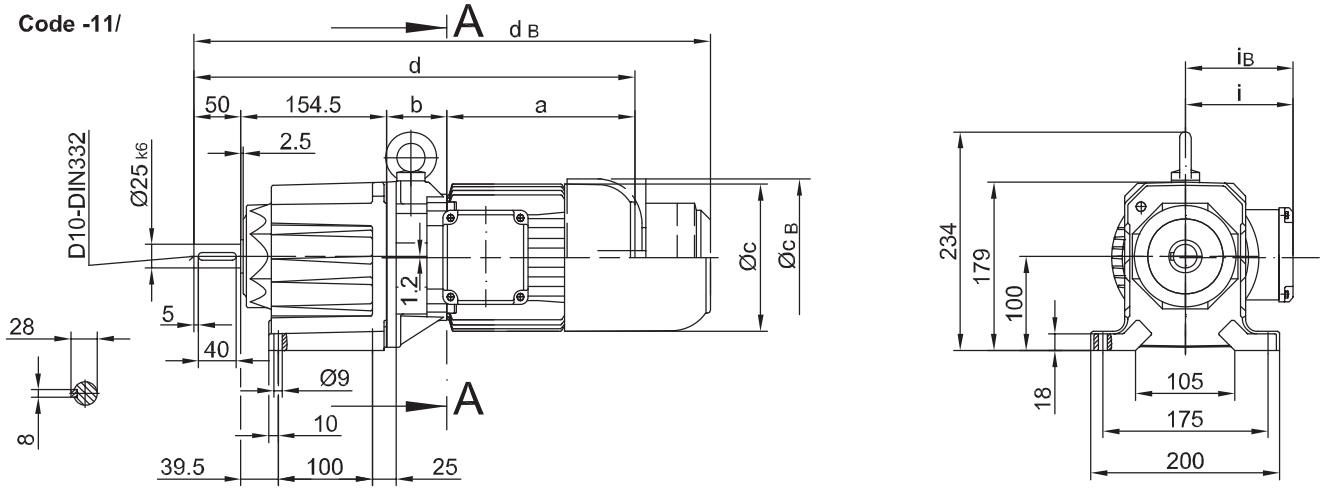
Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG20 - BG20Z

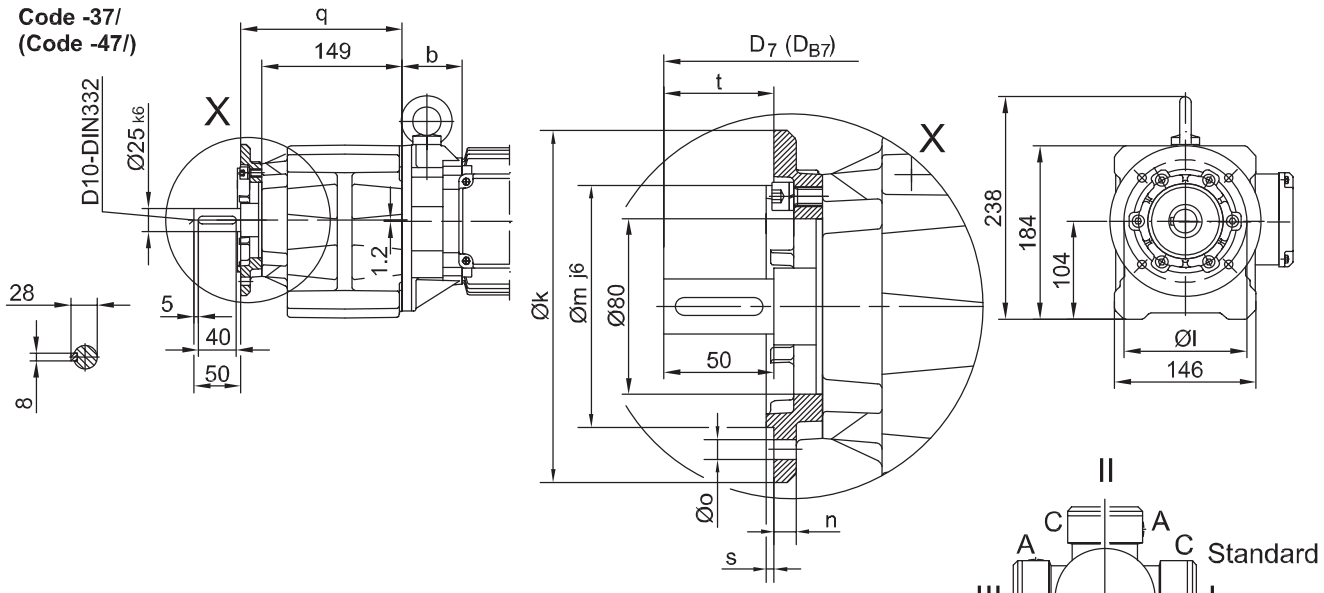
Fussausführung mit Durchgangslöchern/ foot mounting with clearance holes/
fixation à pied avec trous débouchants

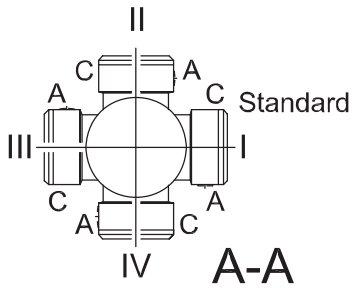
Code -11/



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)





Flanschmasse/ Flange dimensions/ cotes de la bride

BG20(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	160	130	110	10	9	171	3.5	50	d+16.5	d_B+16.5
gross/ big/ grande -47/	200	165	130	12	11	178	3.5	43	d+16.5	d_B+16.5

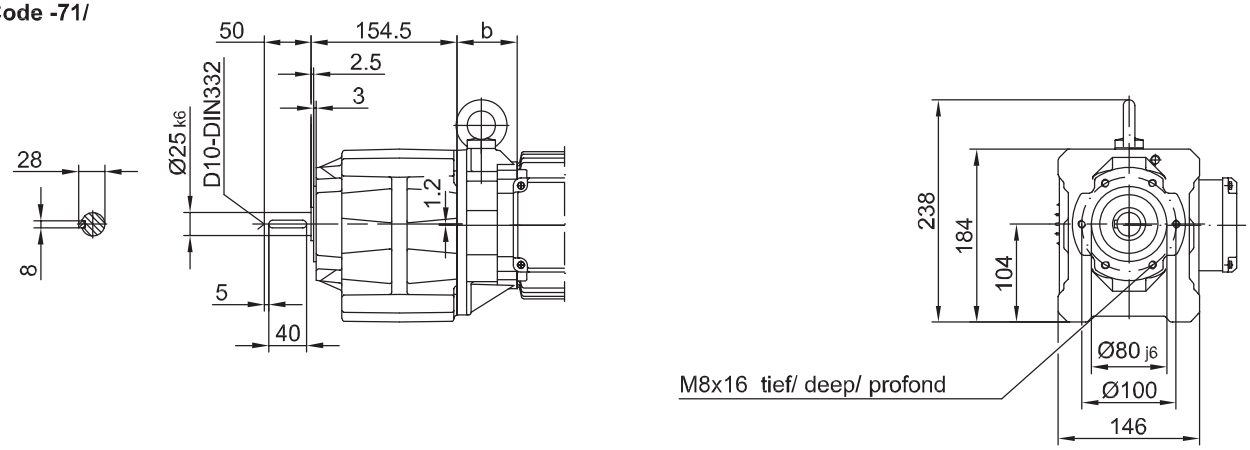
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein											
						i_B	E003		E004		E008		Z008		Z015			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG20Z-../D04..	143	100	111	447	90	90	111	491										
BG20-../D05..	170	60	123	435	100	100	123	477										
BG20Z-../D05..	170	102	123	477	100	100	123	519										
BG20-../D06..	170	60	123	435	100	100	123	477										
BG20Z-../D06..	170	102	123	477	100	100	123	519										
BG20-../D07..	190	60	123	455	100	100	123	497	123	497								
BG20Z-../D07..	190	102	123	497	100	100	123	539	123	539								
BG20-../D08..	200	64	156	468	115	115					166	543						
BG20Z-../D08..	200	146	156	550	115	115					166	625						
BG20-../D09..	251	78.5	181	534	124	124					189	613	189	627	189	633		

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG20 - BG20Z

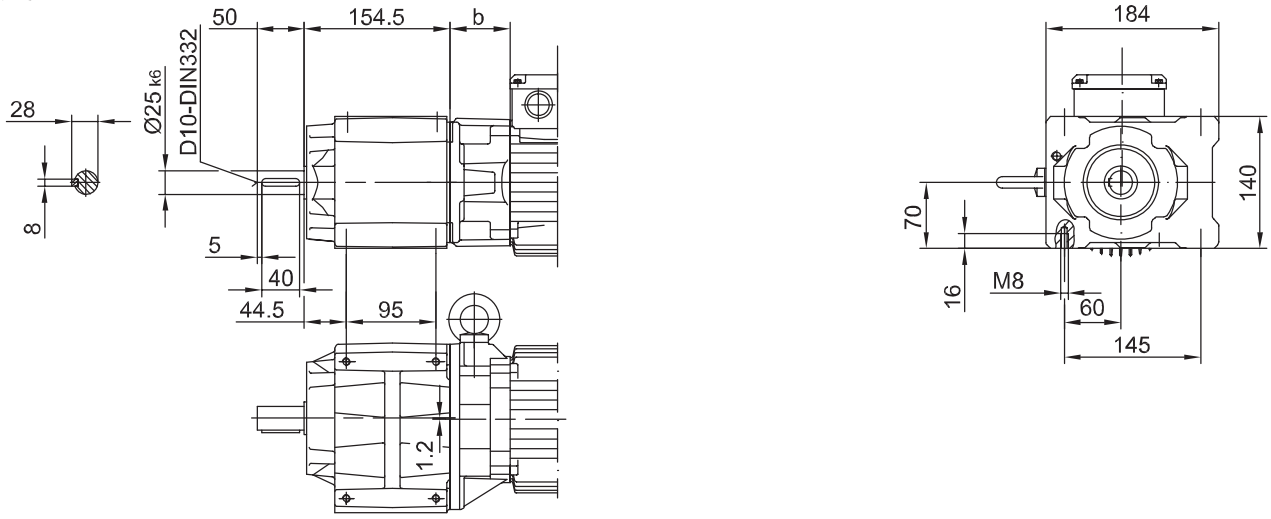
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



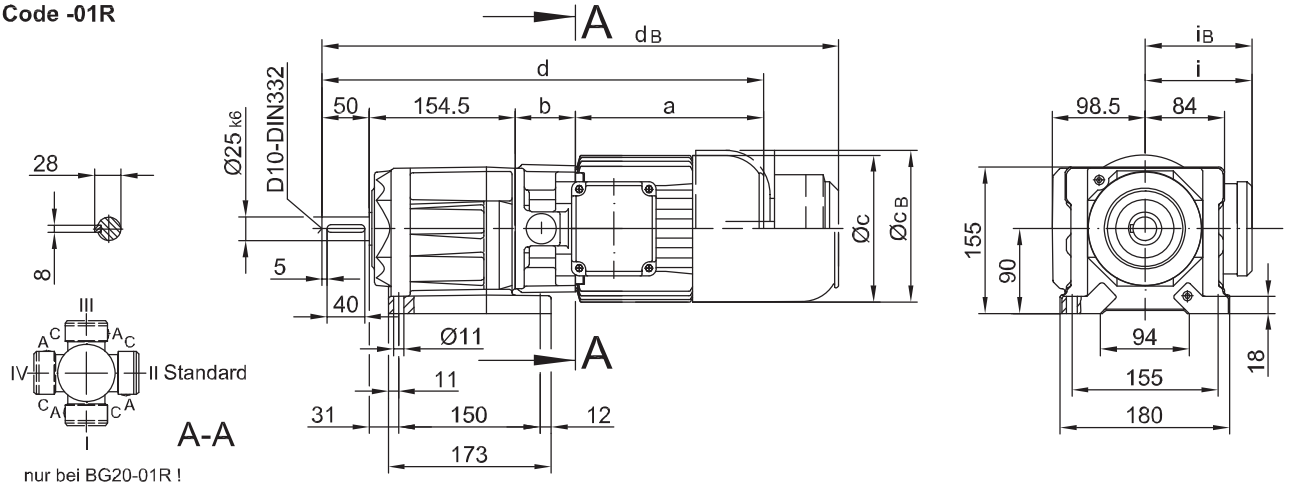
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussausführung rechts mit Durchgangslöchern/ foot mounting right with clearance holes/
fixation à pied à droite avec trous débouchants

Code -01R



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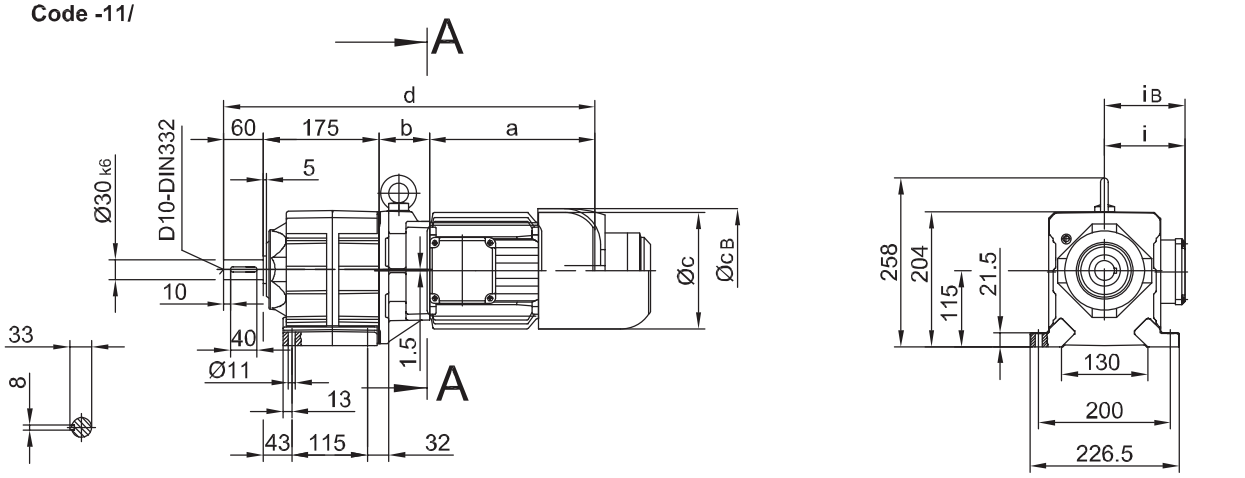
Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG30 - BG30Z

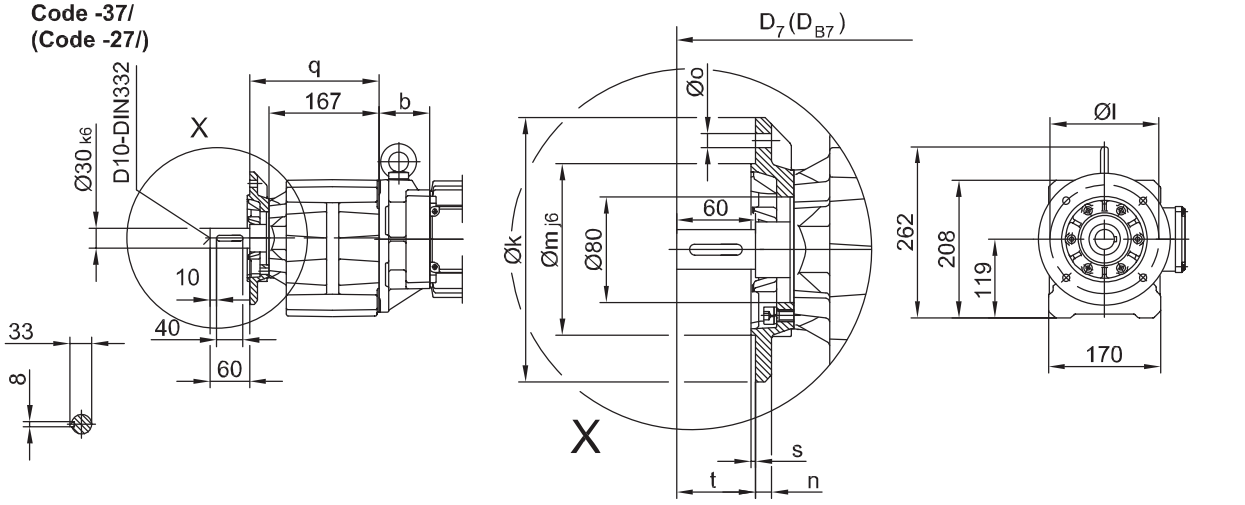
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



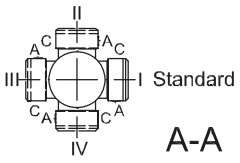
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG30(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	200	165	130	12	11	196	3.5	60	d+21	d_B+21
klein/ small/ petit-27/	160	130	110	10	9	189	3.5	67	d+21	d_B+21



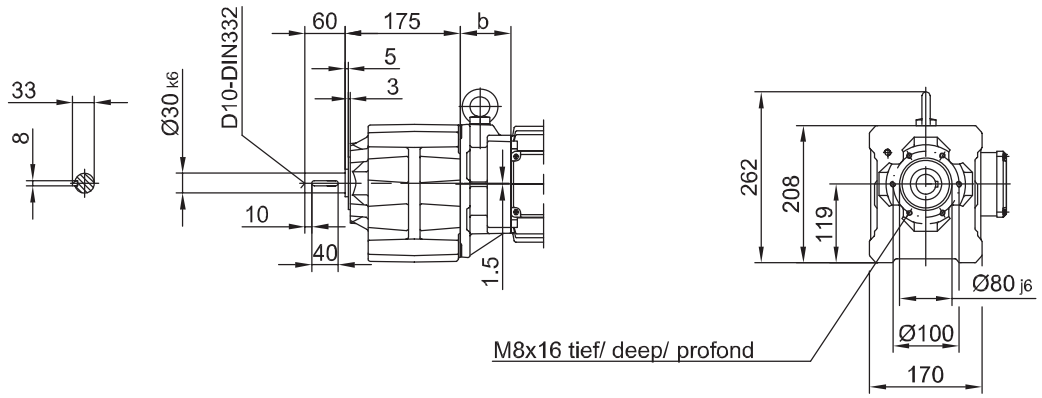
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein											
							E003		E004		E008		Z008		Z015		E075	
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B
BG30-../D05..	170	58	123	464	100	100	123	506										
BG30Z-../D05..	170	133.5	123	539	100	100	123	581										
BG30-../D06..	170	58	123	464	100	100	123	506										
BG30Z-../D06..	170	133.5	123	539	100	100	123	581										
BG30-../D07..	190	58	123	484	100	100	123	526	123	526								
BG30Z-../D07..	190	133.5	123	559	100	100	123	601	123	601								
BG30-../D08..	200	62	156	497	115	115					166	572						
BG30Z-../D08..	200	137.5	156	572	115	115					166	646						
BG30-../D09..	251	76.5	181	562	124	124					192	642	192	656	192	662		
BG30Z-../D09..	251	152	181	638	124	124					192	717	192	731	192	737		
BG30-../D11..	319	83	228	637	181	181									231	739.5	231	769.5

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG30 - BG30Z

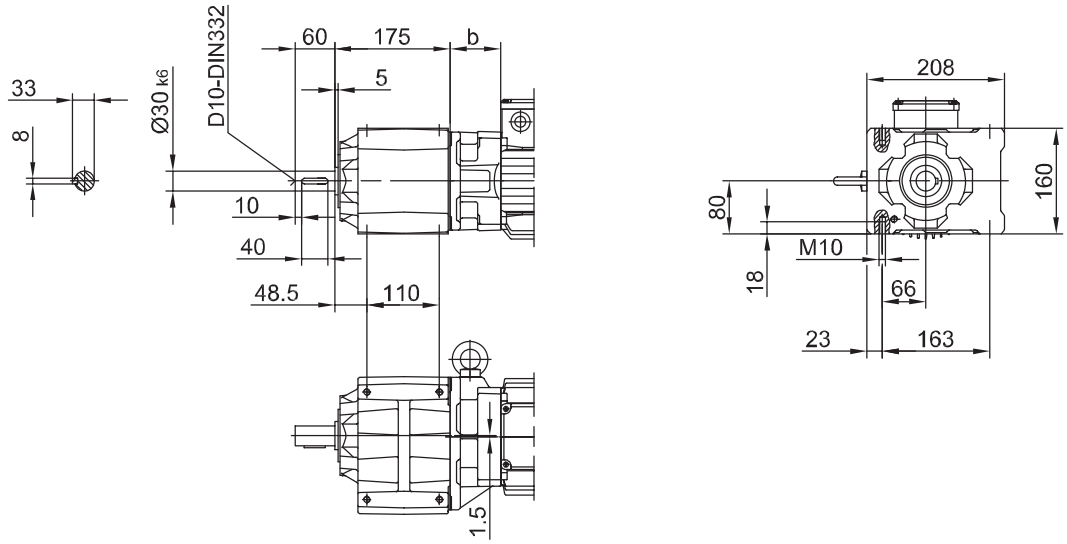
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



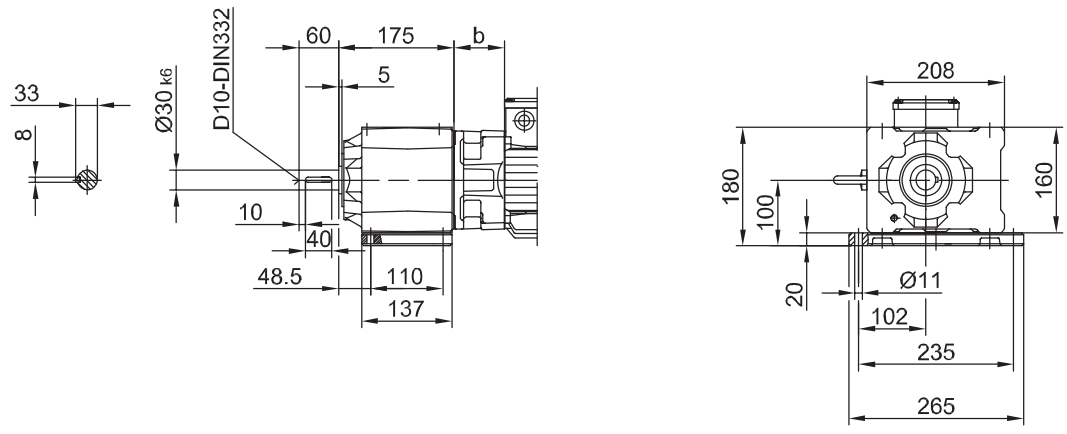
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



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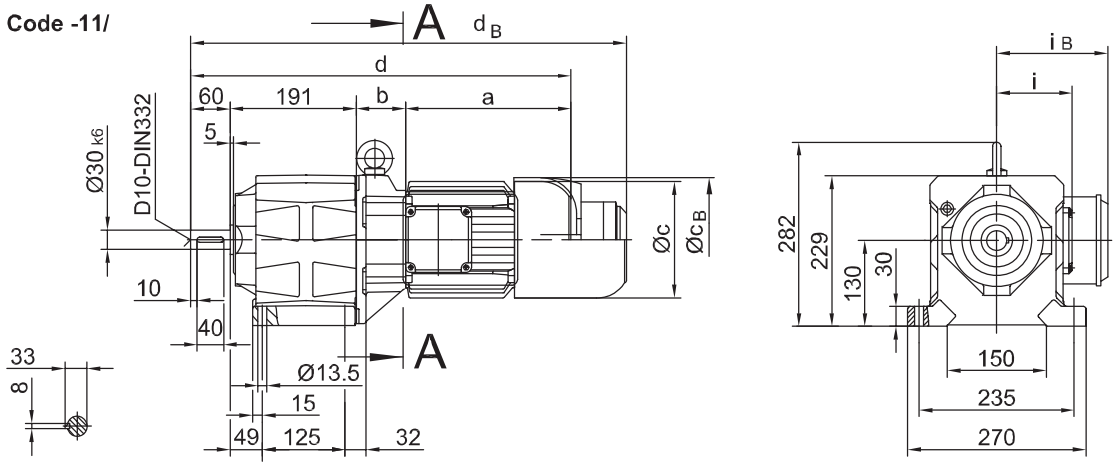
Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG40 - BG40Z

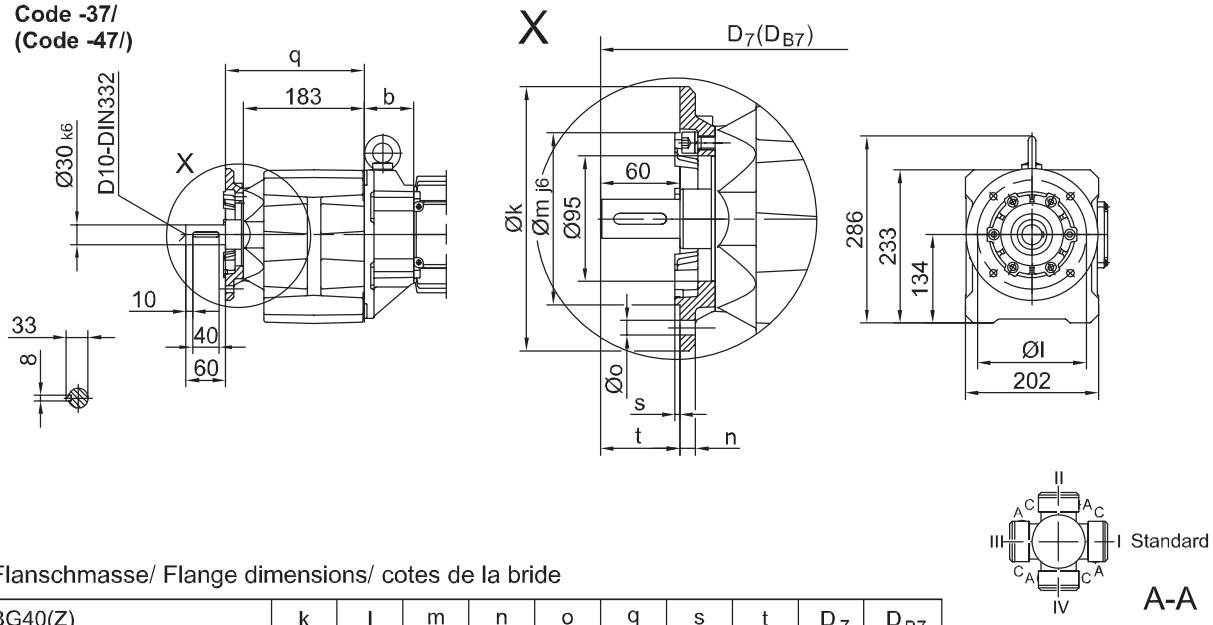
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG40(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	200	165	130	12	11	210	3.5	60	d+19	d_B+19
gross/ big/ grande -47/	250	215	180	16	13.5	219	4	51	d+19	d_B+19

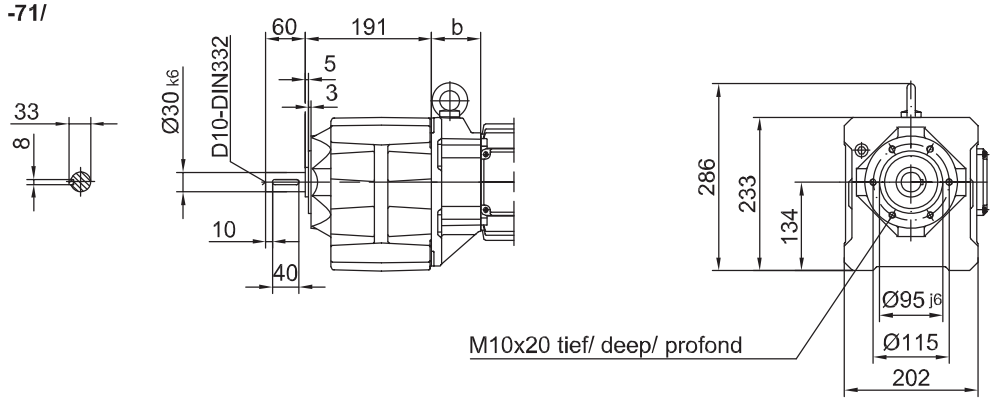
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein											
							E003		E004		E008		Z008		Z015		E075	
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B
BG40Z-../D05..	170	138.5	123	561	100	100	123	603										
BG40Z-../D06..	170	138.5	123	561	100	100	123	603										
BG40Z-../D07..	190	138.5	123	581	100	100	123	623	123	623								
BG40-../D08..	200	60	156	511	115	115					166	586						
BG40Z-../D08..	200	142.5	156	593	115	115					166	668						
BG40-../D09..	251	74.5	181	576	124	124					192	656	192	670	192	676		
BG40Z-../D09..	251	157	181	659	124	124					192	738	192	752	192	758		
BG40-../D11..	319	81	228	651	181	181									231	754	231	784

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG40 - BG40Z

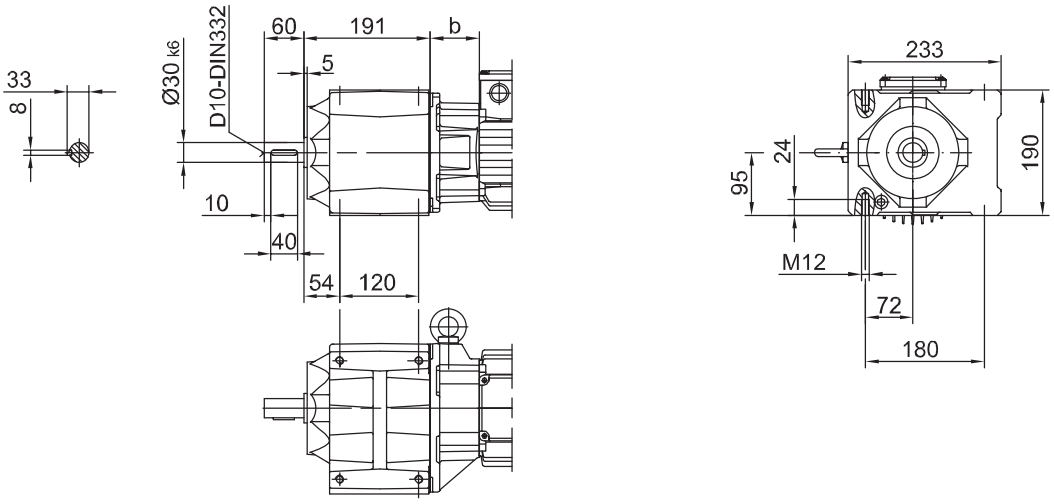
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



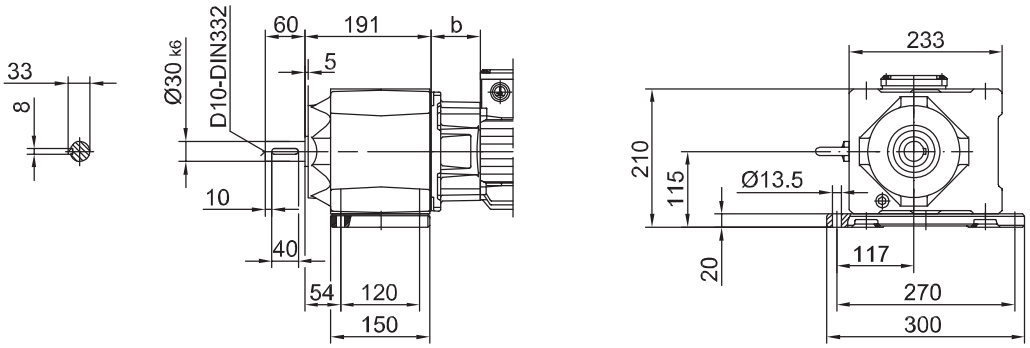
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



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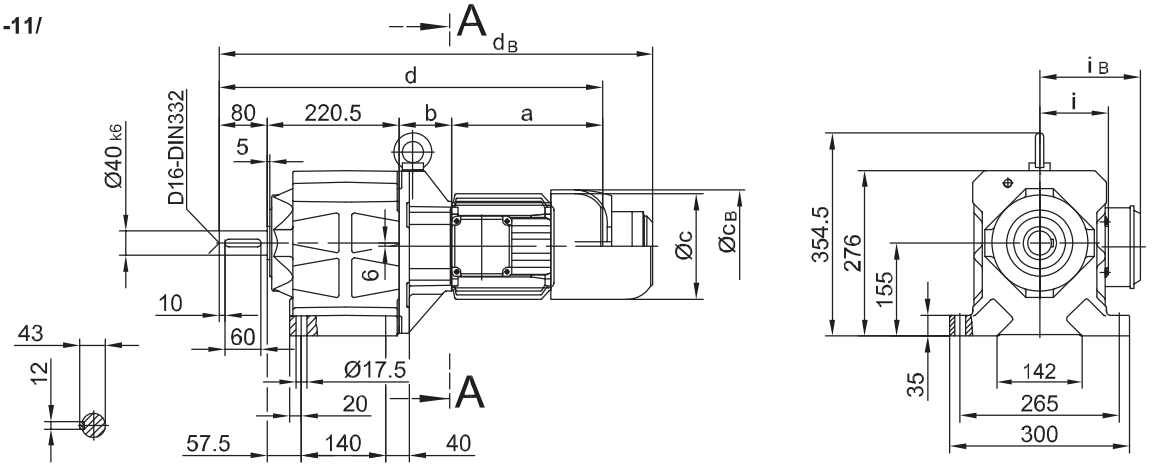
Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG50 - BG50Z

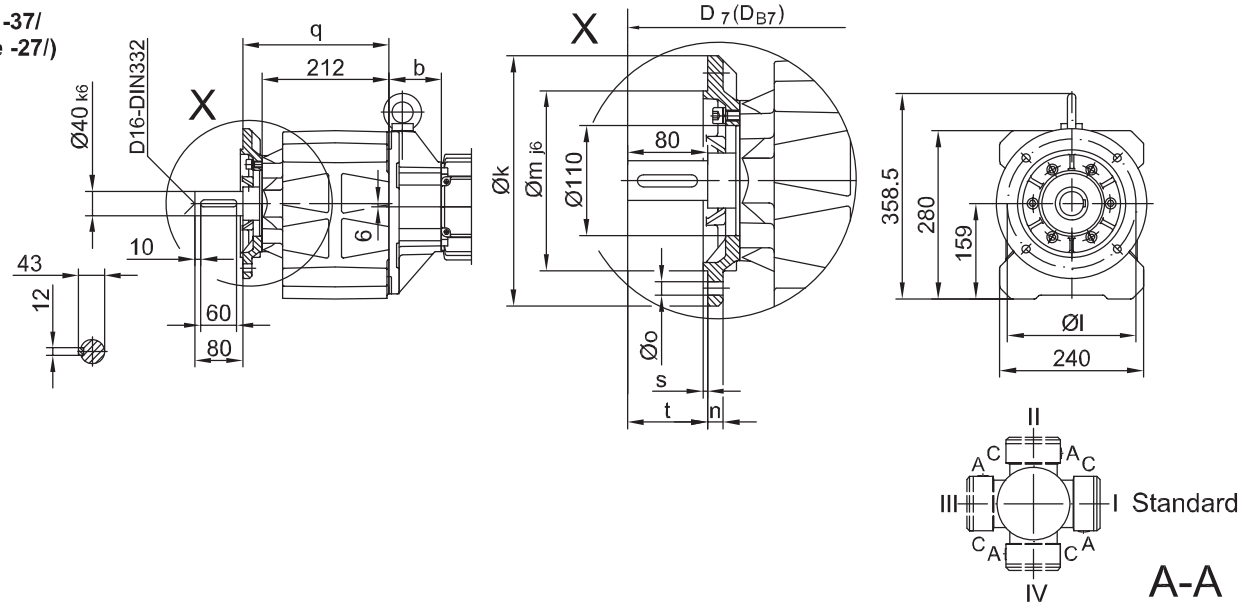
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG50(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	250	215	180	16	13.5	244	4	80	d+23.5	d_B+23.5
klein/ small/ petit -27/	200	165	130	12	11	241	3.5	83	d+23.5	d_B+23.5

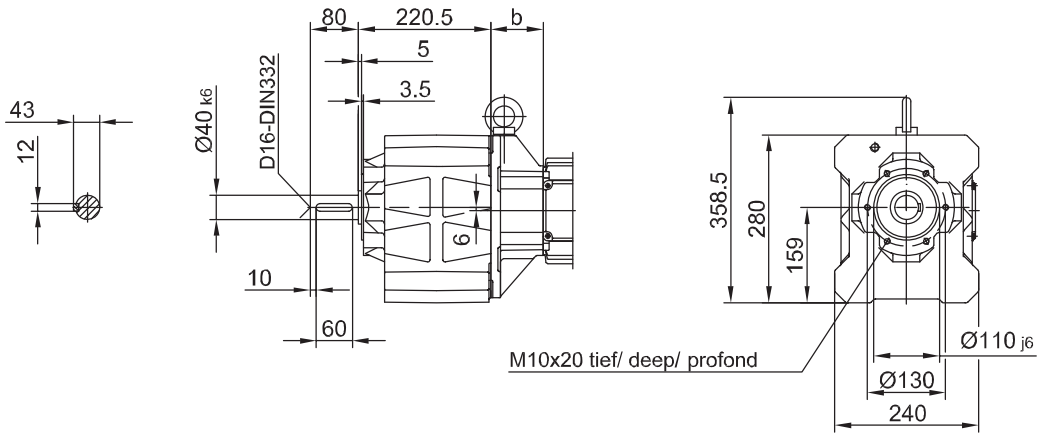
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein															
							E003		E004		E008		Z008		Z015		E075		Z075		Z100	
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B
BG50Z-../D05..	170	155	123	626	100	100	123	668														
BG50Z-../D06..	170	155	123	626	100	100	123	668														
BG50Z-../D07..	190	155	123	646	100	100	123	688	123	688												
BG50-../D08..	200	73	156	573	115	115					166	648										
BG50Z-../D08..	200	159	156	659	115	115					166	734										
BG50-../D09..	251	87.5	181	639	124	124					192	718	192	732	192	738						
BG50Z-../D09..	251	173.5	181	725	124	124					192	804	192	818	192	824						
BG50-../D11..	319	94	228	714	181	181									231	816	231	846				
BG50-../D13..	393	107	266	801	217	217											277	935	277	955		
BG50-../D16..	429	121	322	851	243	243											326	983	326	1003	326	1022

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG50 - BG50Z

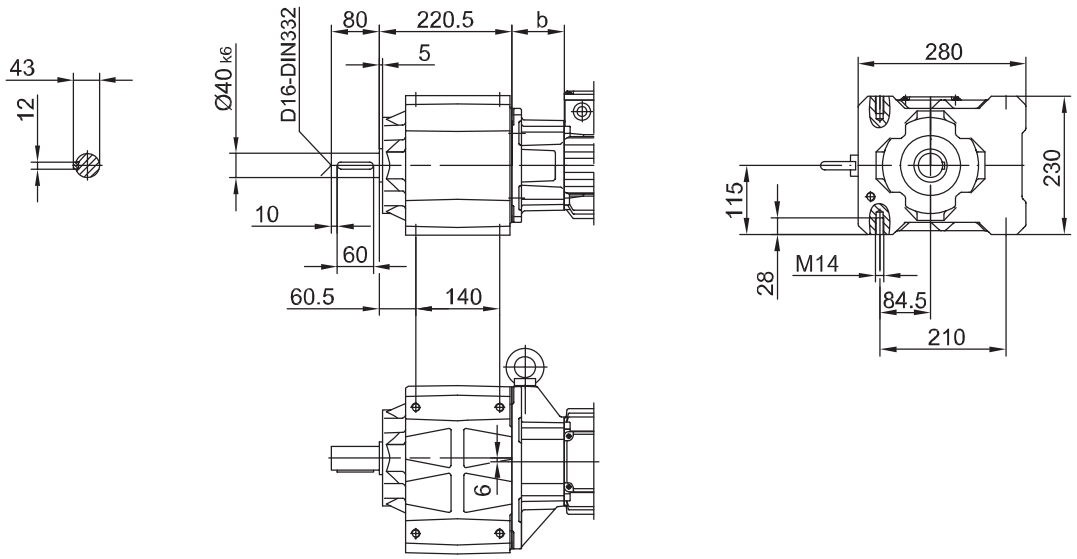
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



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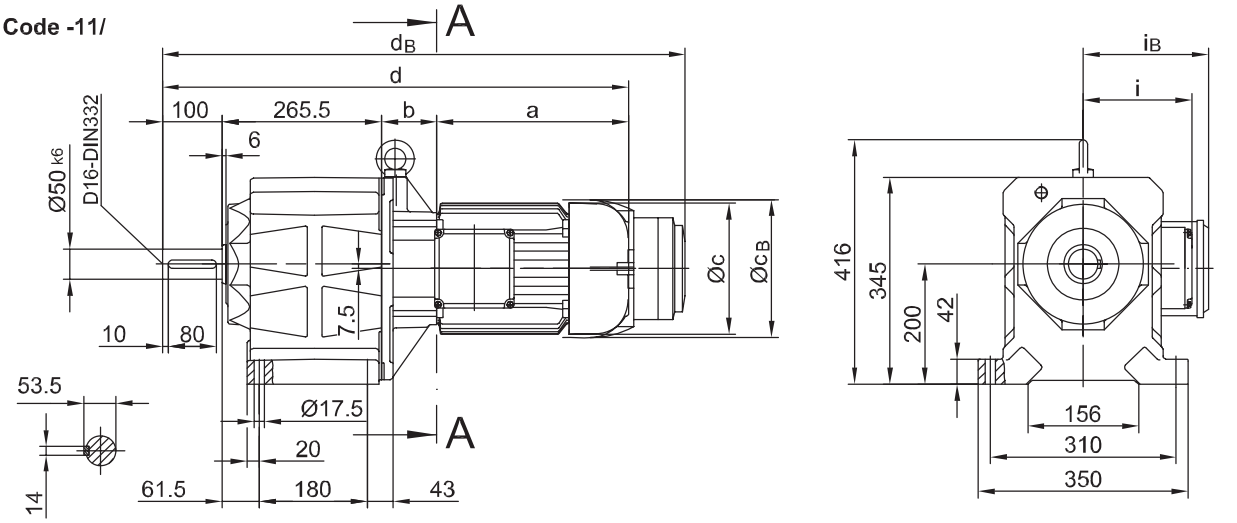
Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG60 - BG60Z

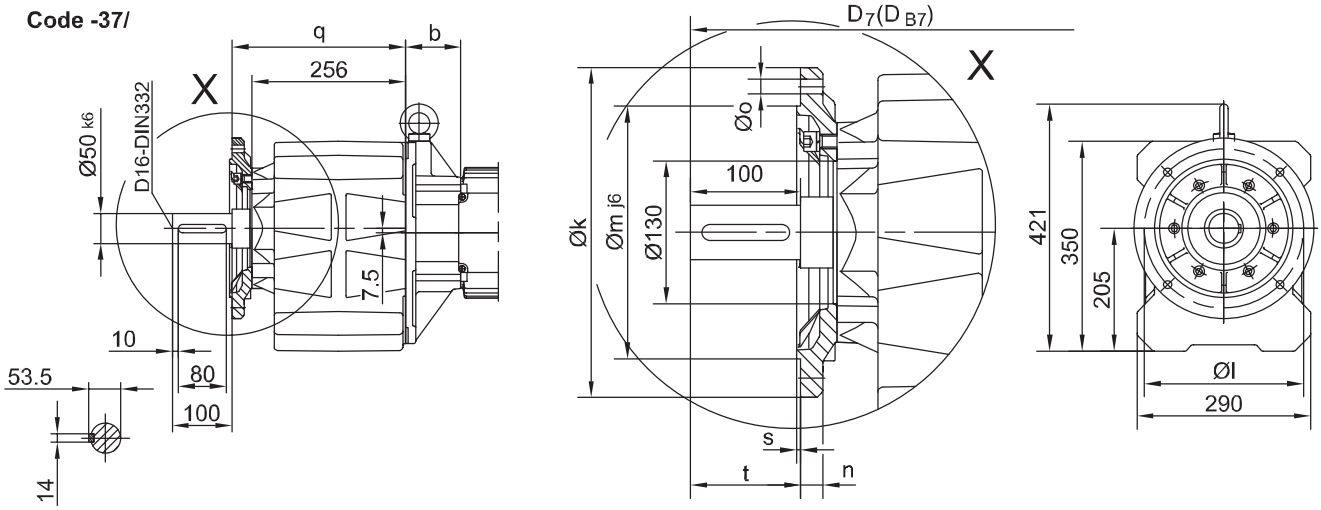
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



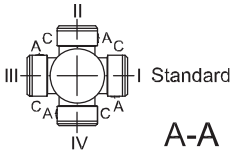
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/



Flanschmasse/ Flange dimensions/ cotes de la bride

BG60(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	300	265	230	20	13.5	289	4	100	d+23.5	d_B+23.5
klein/ small/ petit -27/	250	215	180	16	13.5	286	4	103	d+23.5	d_B+23.5



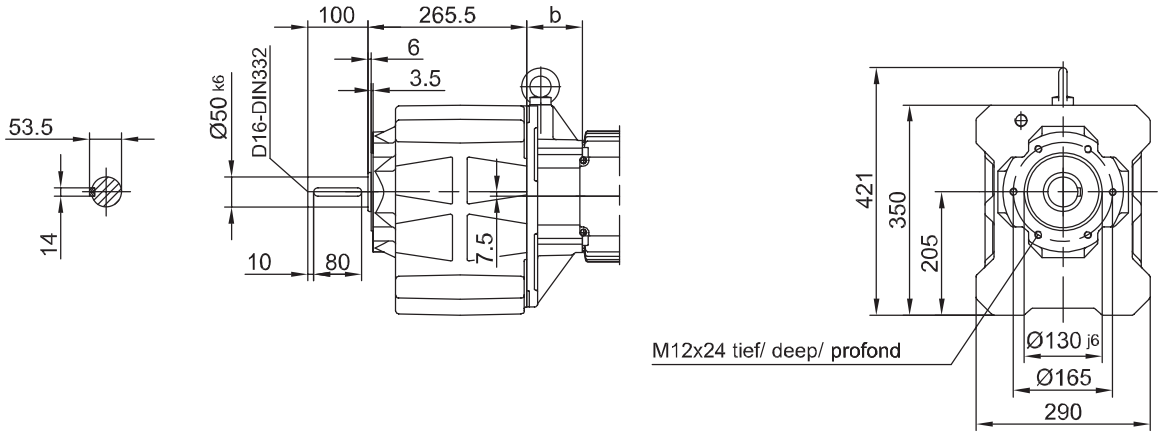
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein											
							E008		Z008		Z015		E075		Z075		Z100	
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B
BG60Z-../D08..	200	181	156	746	115	115	166	821										
BG60-../D09..	251	85.5	181	702	124	124	192	781	192	795	192	801						
BG60Z-../D09..	251	195.5	181	812	124	124	192	891	192	905	192	911						
BG60-../D11..	319	92	228	777	181	181					231	879	231	909				
BG60Z-../D11..	319	202	228	887	181	181					231	989	231	1019				
BG60-../D13..	393	105	266	864	217	217							277	998	277	1018		
BG60-../D16..	429	119	322	914	243	243							326	1047	326	1066	326	1085

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG60 - BG60Z

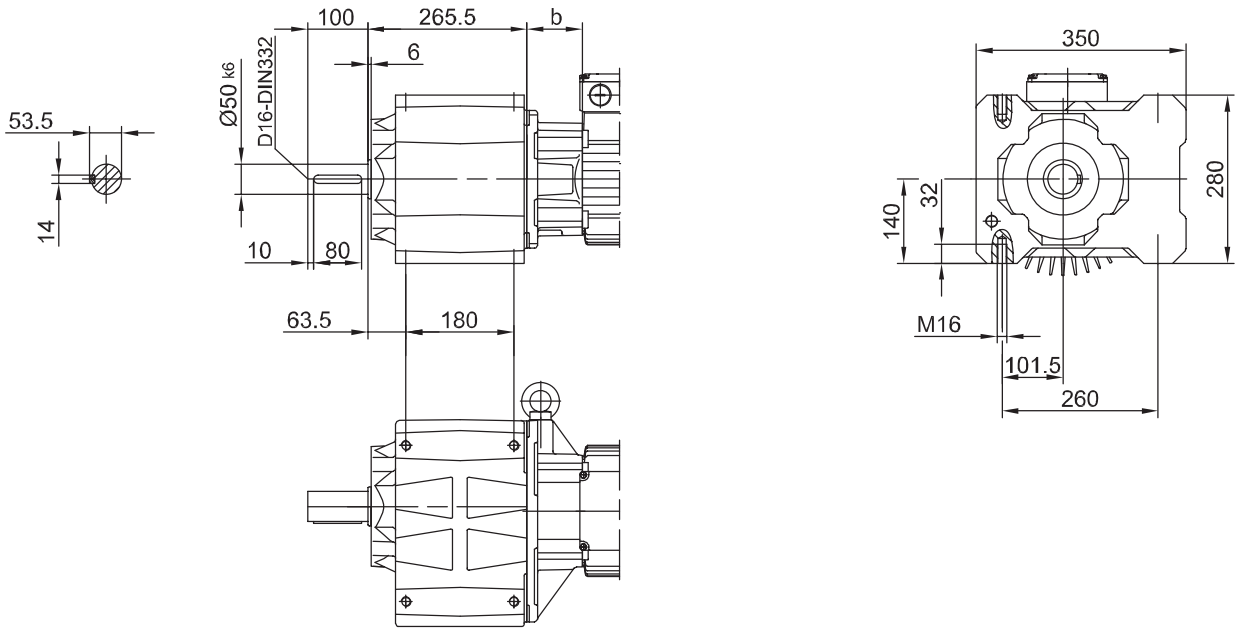
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



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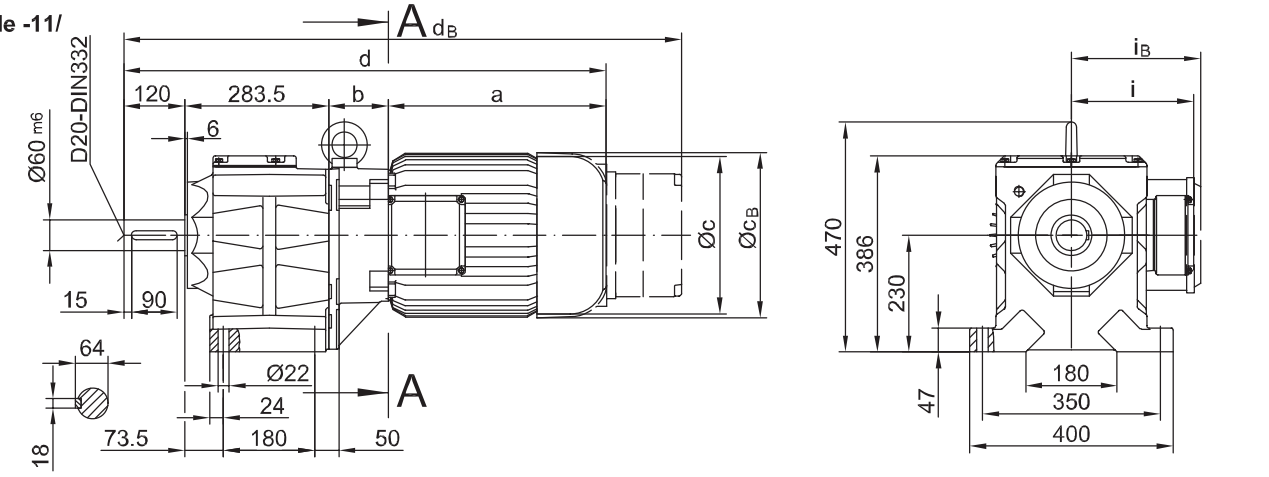
Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG70 - BG70Z

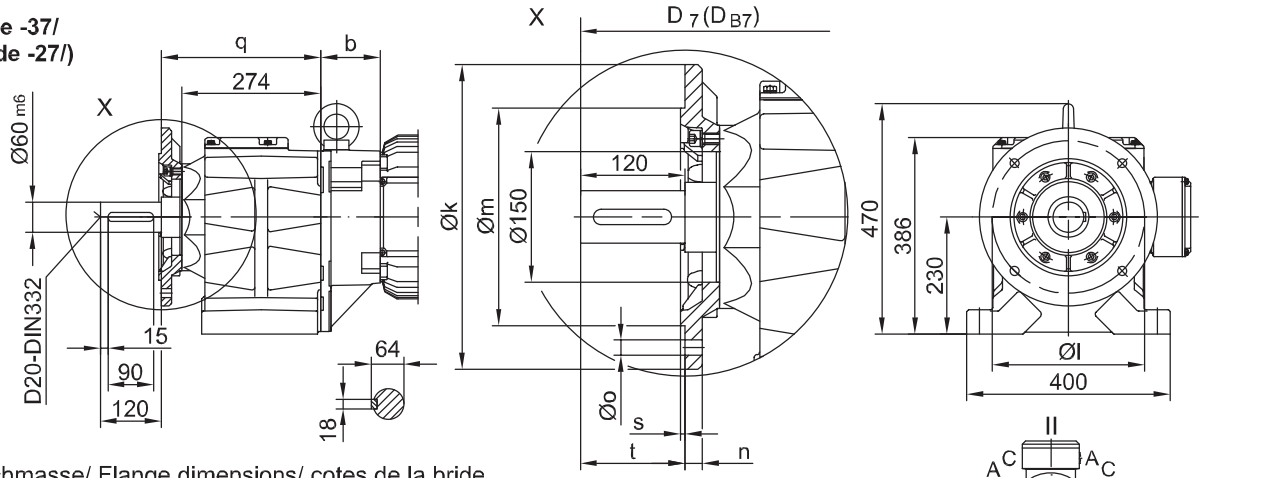
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



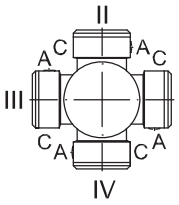
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG70(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	350	300	250_{h6}	20	17.5	314	5	120	d+30.5	d_B+30.5
klein/ small/ petit-27/	300	265	230_{j6}	20	13.5	322	4	112	d+30.5	d_B+30.5



Standard

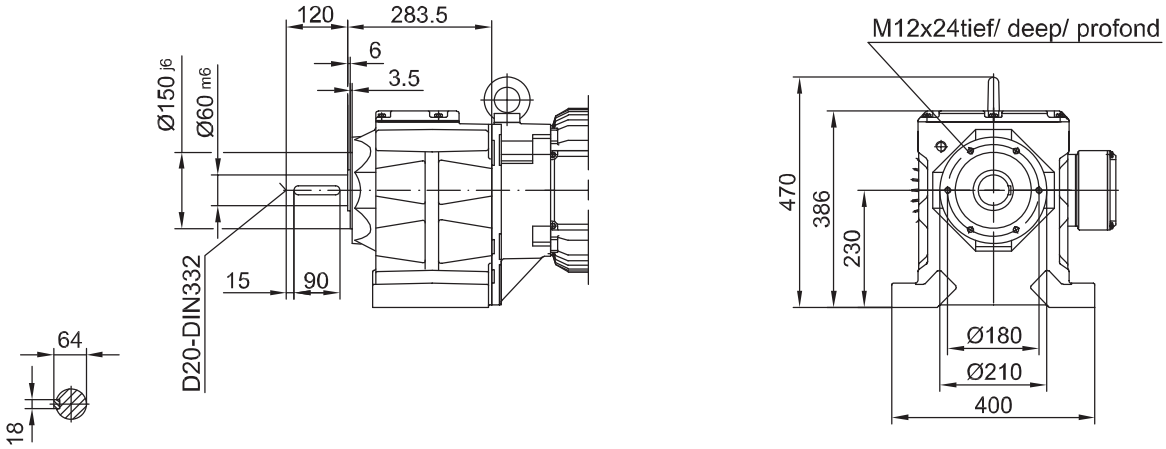
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein											
							E008		Z008		Z015		E075					
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B				
BG70Z-../D08..	200	202	156	805	115	115	166	880										
BG70-../D09..	251	83.5	181	739	124	124	192	817	192	831	192	837						
BG70Z-../D09..	251	216.5	181	872	124	124	192	950	192	964	192	970						
BG70-../D11..	319	90	228	813	181	185					231	915	231	945				
BG70Z-../D11..	319	223	228	946	181	185					231	1048	231	1078				
Typ/ Type/ Type	a	b	c	d	i	i_B	E075		Z075		Z100		E500					
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B				
BG70-../D13..	393	103	266	900	217	217	277	1034	277	1054								
BG70Z-../D13..	393	236	266	1033	217	217	277	1167	277	1187								
BG70-../D16..	429	117	322	950	243	243	326	1082	326	1102	326	1121						
BG70Z-../D16..	429	250	322	1083	243	243	326	1215	326	1235	326	1254						
BG70-../D18..	528	139	368	1070	288	288					366	1251	366	1231				

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG70 - BG70Z

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/

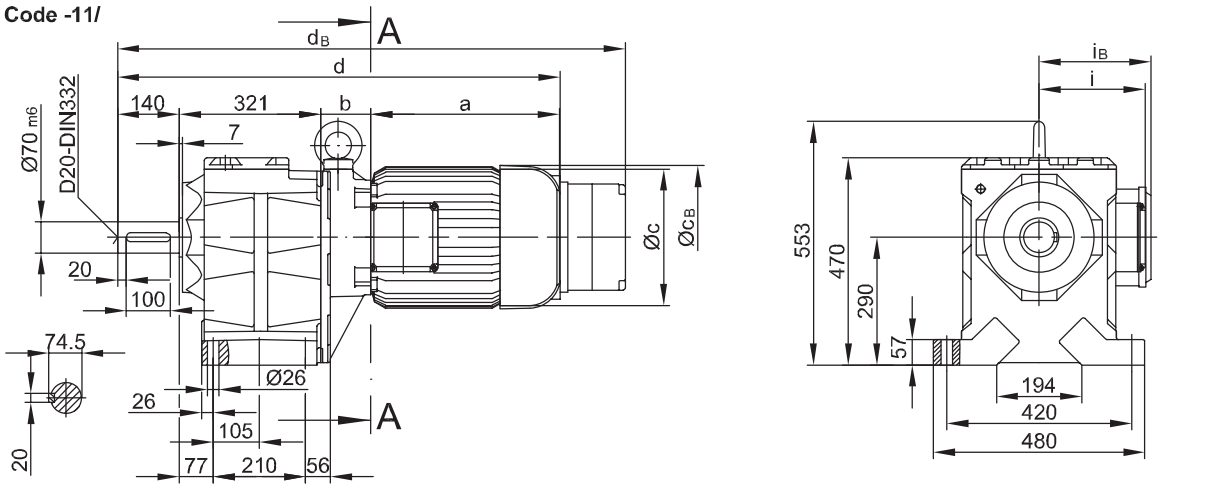


Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG80 - BG80Z

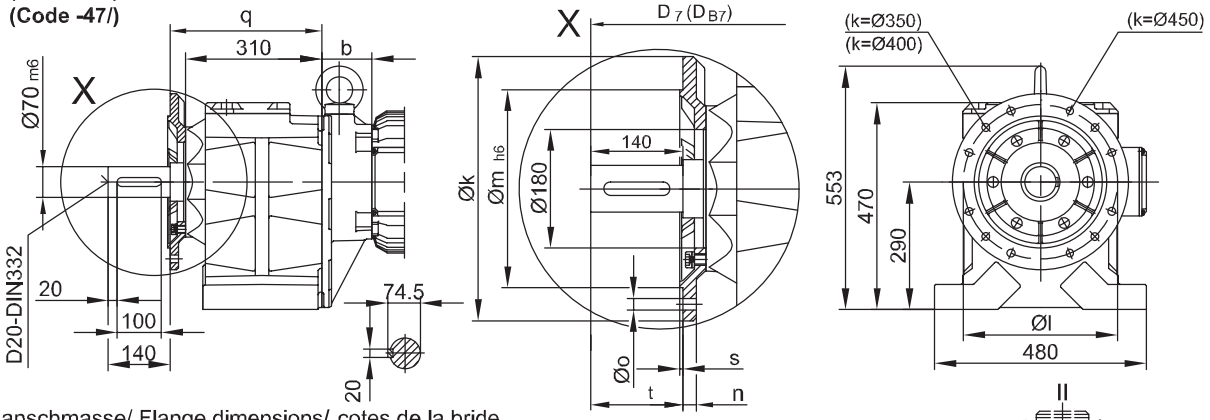
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



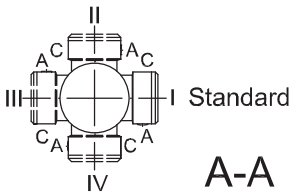
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

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



Flanschmasse/ Flange dimensions/ cotes de la bride

BG80(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	400	350	300	20	4 x 17.5	345	5	140	d+24	d_B+24
klein/ small/ petit -27/	350	300	250	20	4 x 17.5	345	5	140	d+24	d_B+24
groß/ big/ grande -47/	450	400	350	22	8 x 17.5	355	5	130	d+24	d_B+24



A-A

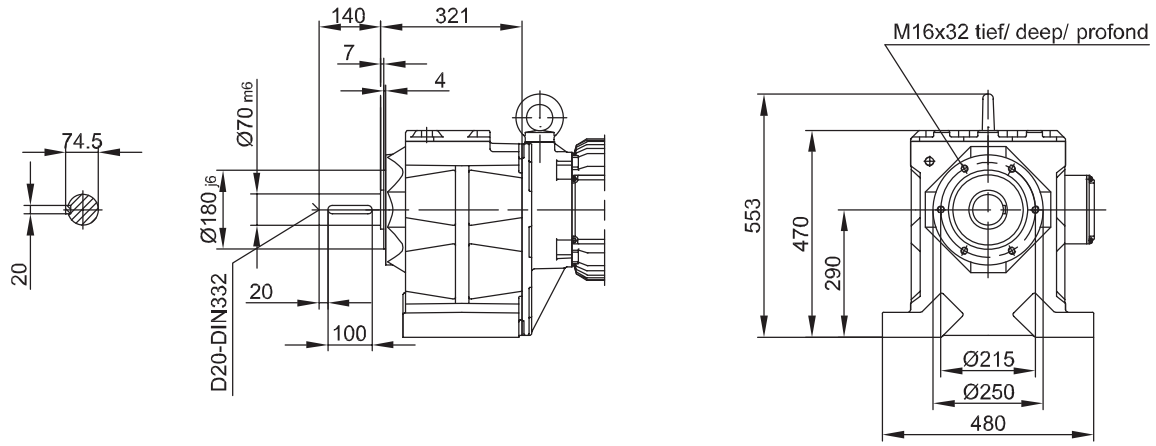
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein									
							E008		Z008		Z015		E075			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG80Z-../D09..	251	252.5	181	965	124	124	192	1043	192	1058	192	1064				
BG80-../D11..	319	87	228	867	181	181					231	970	231	1000		
BG80Z-../D11..	319	259	228	1039	181	181					231	1142	231	1172		
Typ/ Type/ Type	a	b	c	d	i	i_B	E075		Z075		Z100		E500			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG80-../D13..	393	100	266	954	217	217	277	1089	277	1108						
BG80Z-../D13..	393	272	266	1126	217	217	277	1261	277	1280						
BG80-../D16..	429	114	322	1004	243	243	326	1137	326	1156	326	1176				
BG80Z-../D16..	429	286	322	1176	243	243	326	1309	326	1328	326	1348				
BG80-../D18..	528	136	368	1125	288	288					366	1305	366	1286		
BG80-..-C-DNF22S	612	281	390	1354	314											
BG80-..-C-DNF22M	652	281	390	1394	314											

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG80 - BG80Z

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/

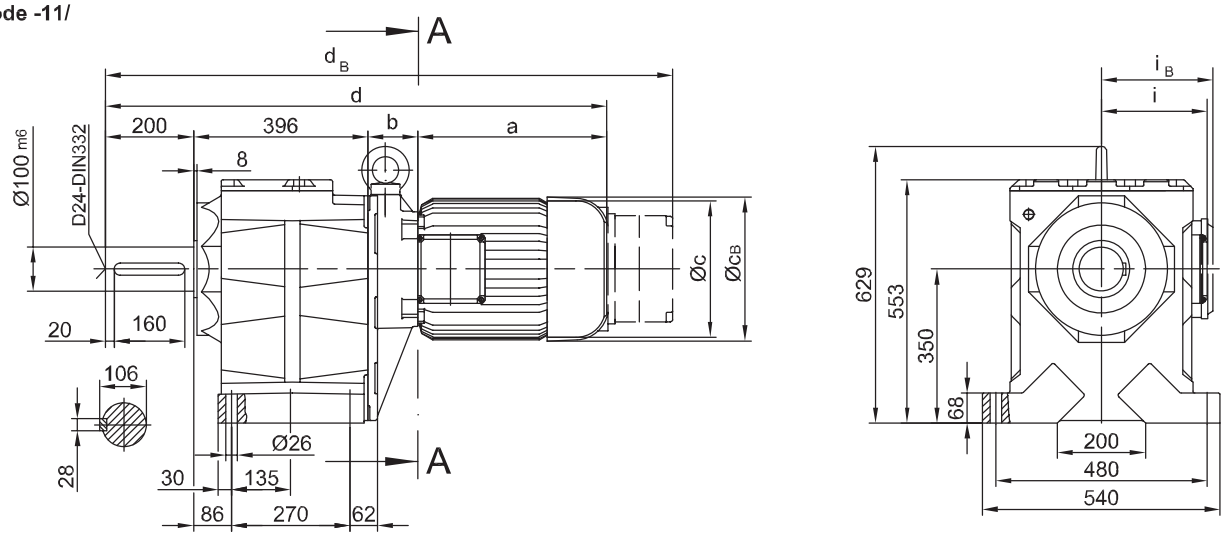


Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG90 - BG90Z

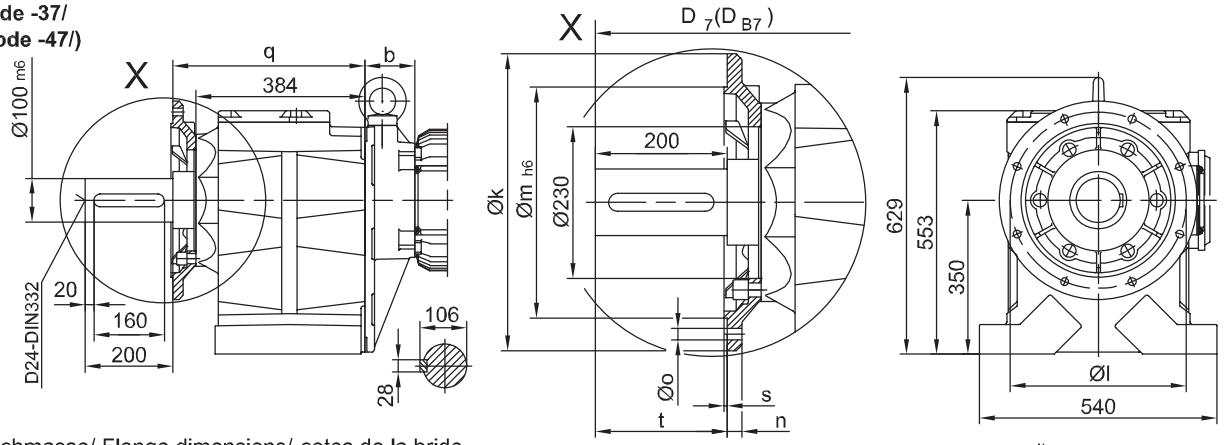
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



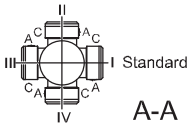
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG90(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	450	400	350	22	17.5	439	5	200	d+43	d_B+43
gross/ big/ grand -47/	550	500	450	22	17.5	444	5	195	d+43	d_B+43



A-A

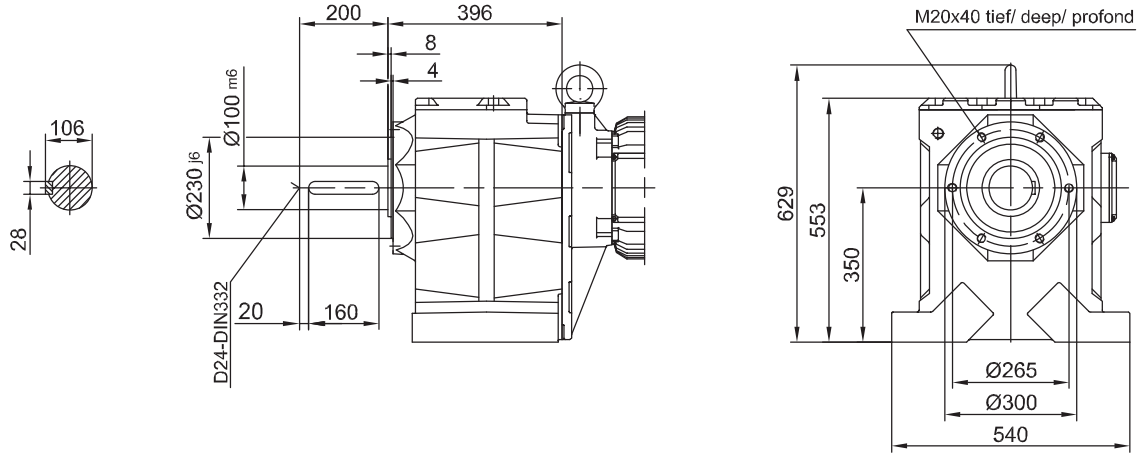
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein									
							E008		Z008		Z015		E075			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG90Z-../D09..	251	267	181	1114	124	124	192	1193	192	1207	192	1213				
BG90Z-../D11..	319	273.5	228	1189	181	181					231	1291	231	1320		
Typ/ Type/ Type	a	b	c	d	i	i_B	E075		Z075		Z100		E500			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG90-../D13..	393	100	266	1089	217	217	277	1224	277	1243						
BG90Z-../D13..	393	286.5	266	1276	217	217	277	1410	277	1430						
BG90-../D16..	429	114	322	1139	243	243	326	1272	326	1291	326	1311				
BG90Z-../D16..	429	300.5	322	1326	243	243	326	1458	326	1478	326	1497				
BG90-../D18..	528	136	368	1260	288	288					366	1440	366	1421		
BG90Z-../D18..	528	322.5	368	1446	288	288					366	1627	366	1607		
BG90-..-C-DNF22S	612	281	389	1490	314											
BG90-..-C-DNF22M	652	281	390	1530	314											

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG90 - BG90Z

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



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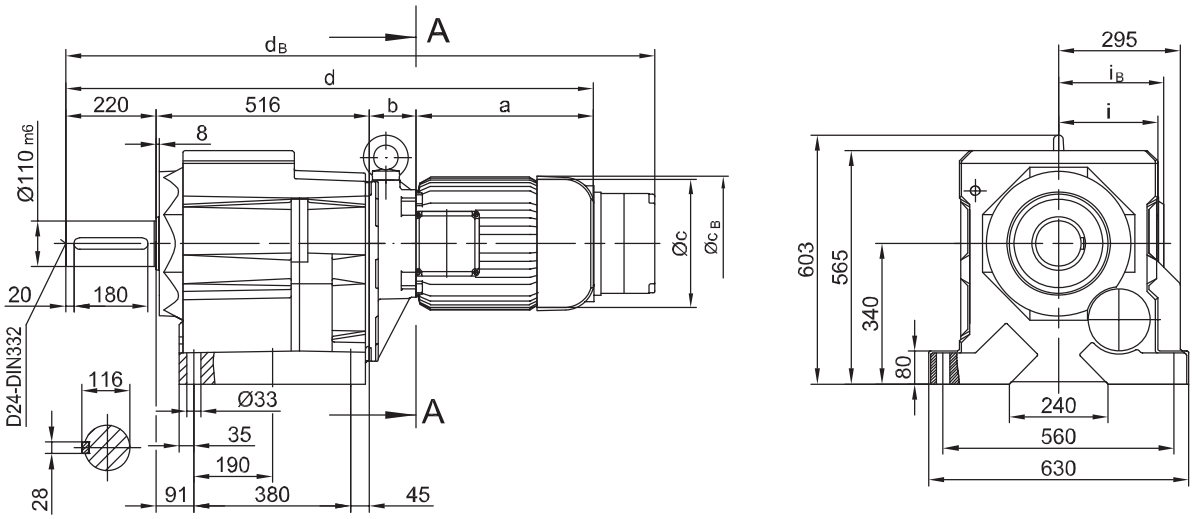
Drehstrom-Stirnrad-Getriebemotoren
Three-phase Helical Geared Motors
Motoréducteurs triphasés coaxiaux

BG100 - BG100Z

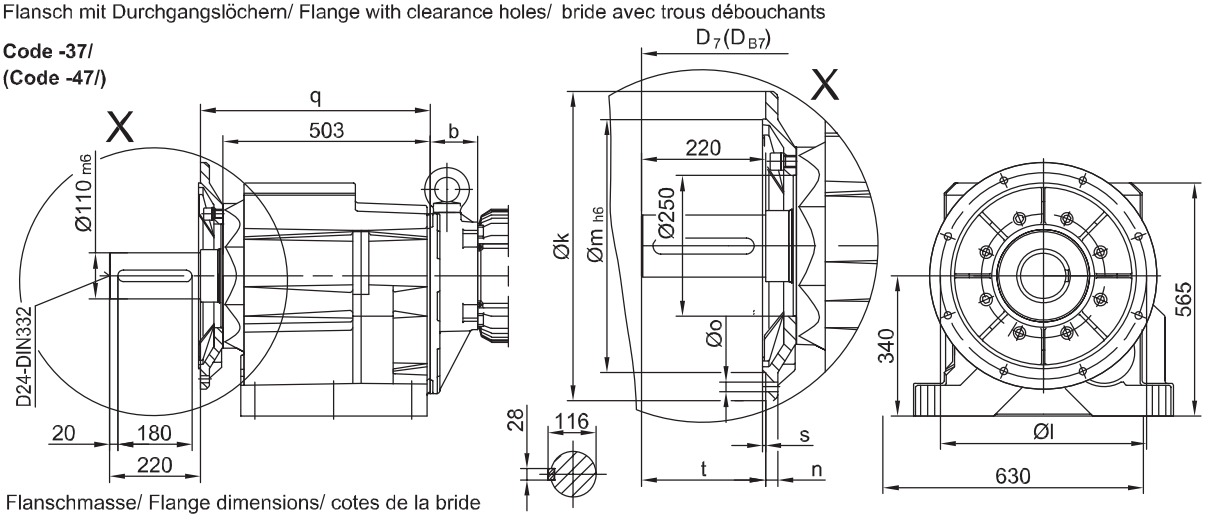
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG100(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	550	500	450	22	17.5	558	5	220	d+42	d_B+42
gross/ big/ grande -47/	660	600	550	25	22	552	6	226	d+42	d_B+42

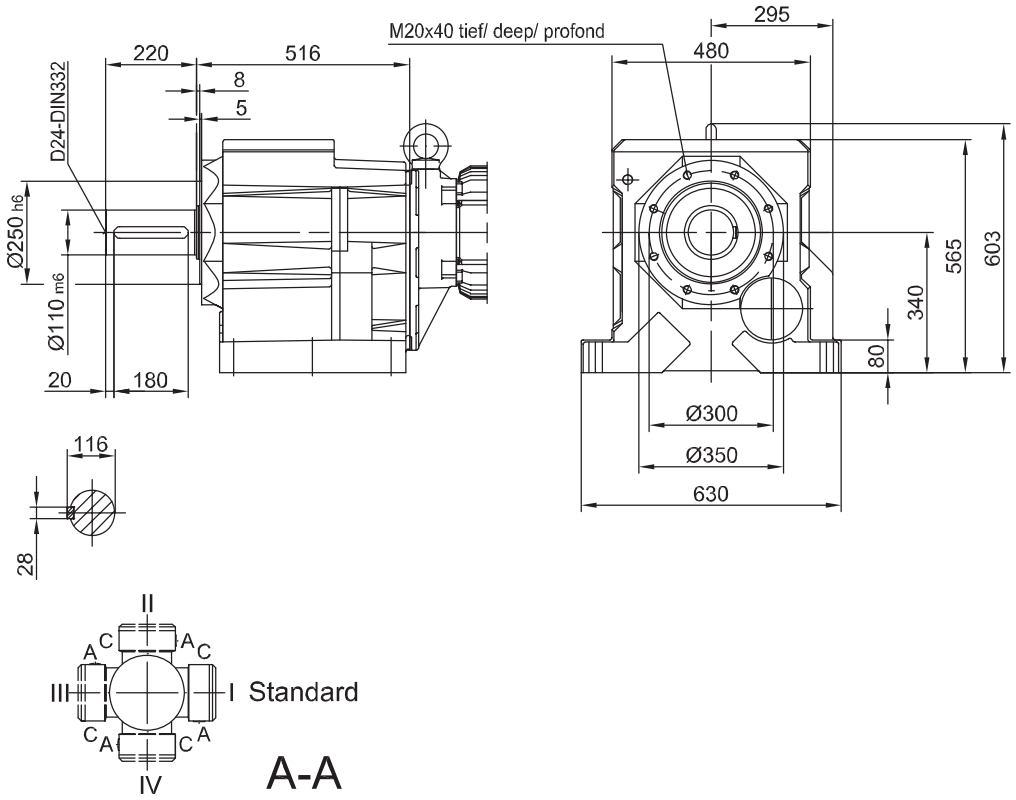
Typ/ Type/ Type	a	b	c	d	i	i_B	Ausführung mit Bremse/ with brake/ avec frein									
							E008		Z008		Z015		E075			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG100Z-../D09..	251	252.5	181	1239	124	124	192	1319	192	1333	192	1339				
BG100-../D11..	319	87	228	1142	181	181					231	1245	231	1275		
BG100Z-../D11..	319	259	228	1314	181	181					231	1417	231	1457		
Typ/ Type/ Type	a	b	c	d	i	i_B	E075		Z075		Z100		E500			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BG100-../D13..	393	100	266	1229	217	217	277	1364	277	1383						
BG100Z-../D13..	393	272	266	1401	217	217	277	1536	277	1555						
BG100-../D16..	429	114	322	1279	243	243	326	1412	326	1431	326	1451				
BG100Z-../D16..	429	286	322	1451	243	243	326	1584	326	1603	326	1623				
BG100-../D18..	528	136	368	1400	288	288					366	1580	366	1561		
BG100-..-C-DNF22S	612	281	390	1629	314											
BG100-..-C-DNF22M	652	281	390	1669	314											

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG100 - BG100Z

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code 71/



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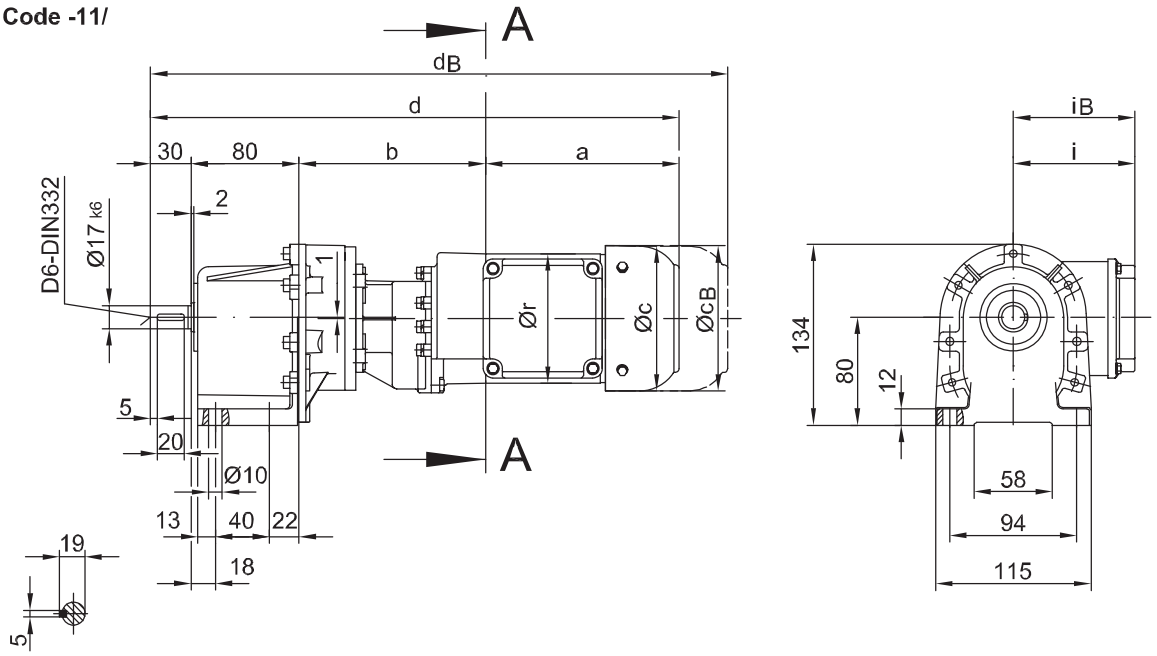
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG06G04

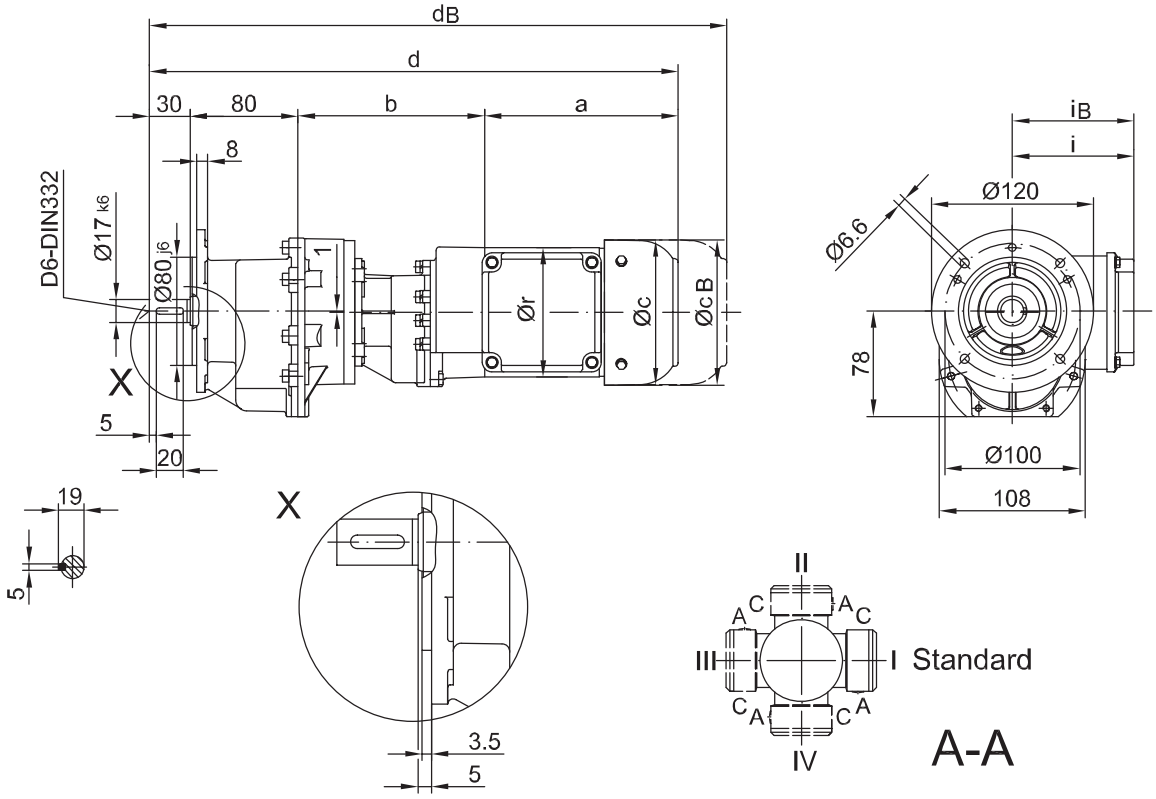
Fussausführung/ Foot mounting/ fixation à pied

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -31/



Typ/ Type/ Type	a	b	c	d	i	r	Ausführung mit Bremse/ with brake/ avec frein													
							i_B	E003												
								c_B	d_B											
BG06G04-../D04..	143	135	111	388	90	96	90	111	424											

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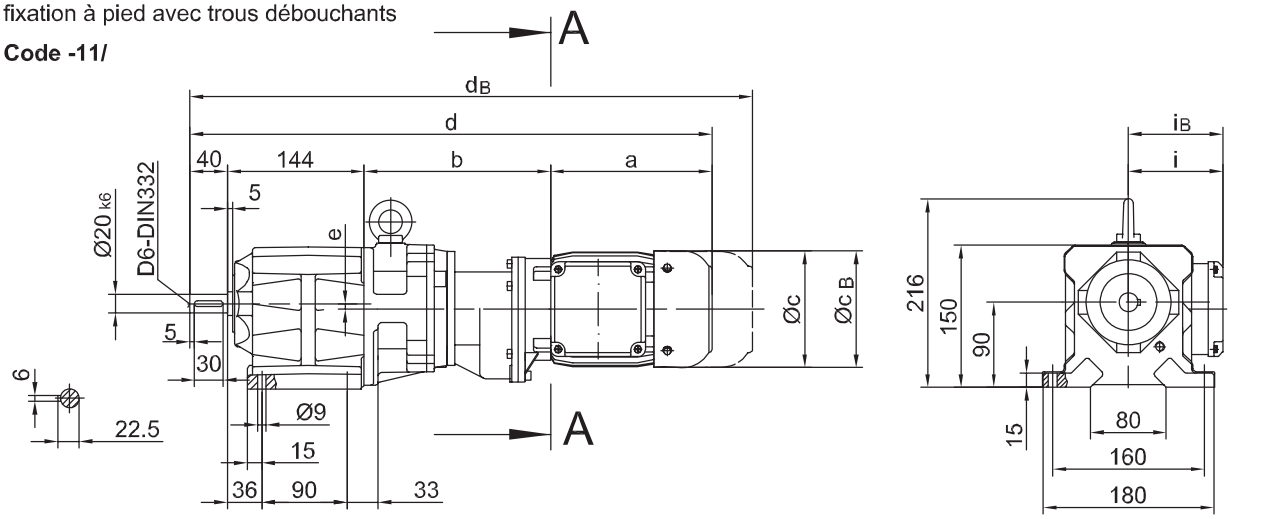
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG10G06

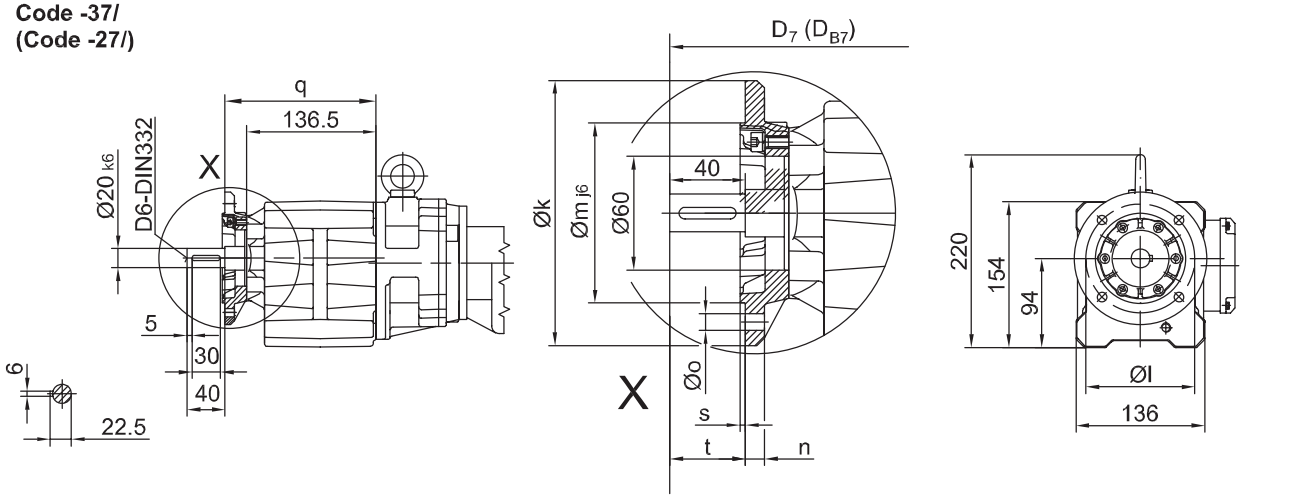
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



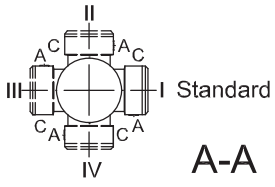
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG10G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	140	115	95	10	9	159.5	3	40	d+15.5	d_B+15.5
klein/ small/ petit -27/	120	100	80	8	6.6	154.5	3	45	d+15.5	d_B+15.5



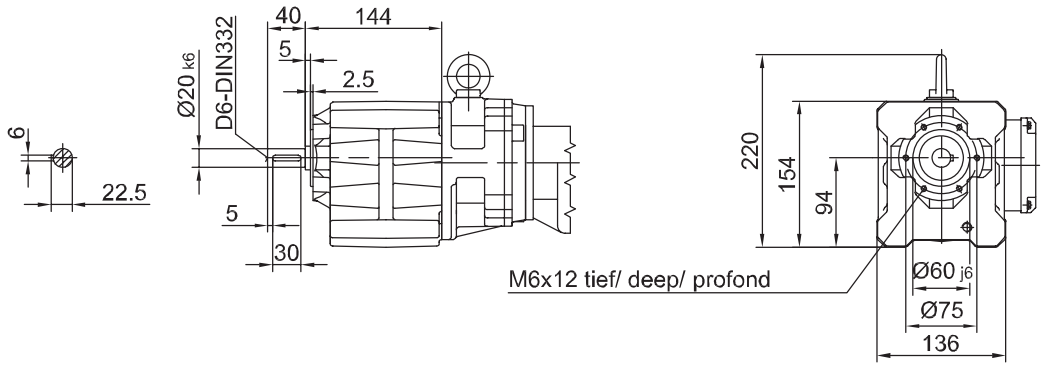
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein									
							i_B	E003		E004		E008				
								c_B	d_B	c_B	d_B	c_B	d_B			
BG10G06-../D04..	143	195	111	522	6	90	90	111	565							
BG10G06-../D05..	170	197	123	552	6	100	100	123	594							
BG10G06-../D06..	170	197	123	552	6	100	100	123	594							
BG10G06-../D07..	190	197	123	572	6	100	100	123	614	123	614					
BG10G06-../D08..	200	241	156	625	6	115	115					166	700			

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG10G06

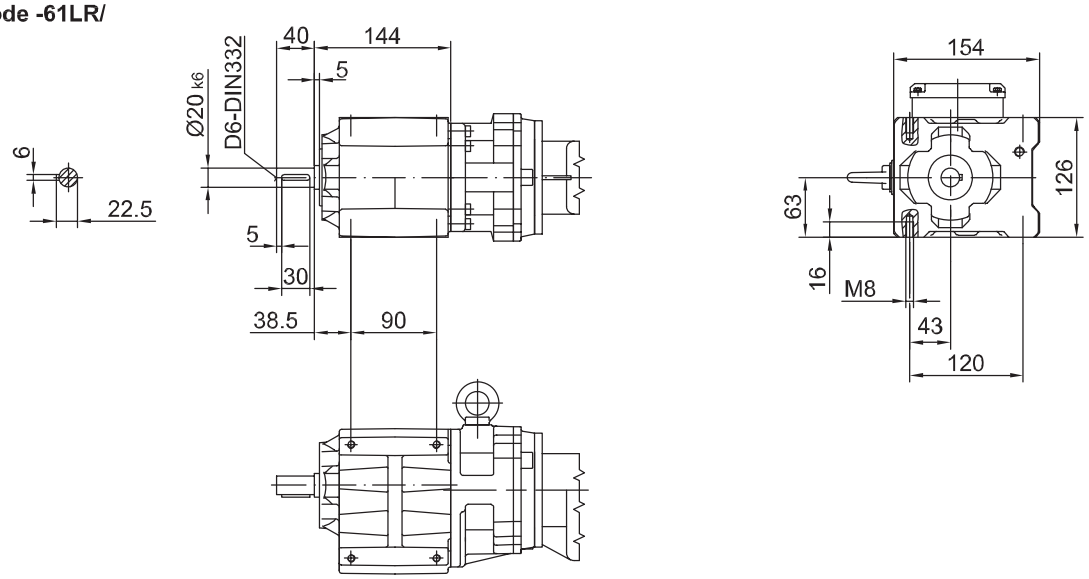
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



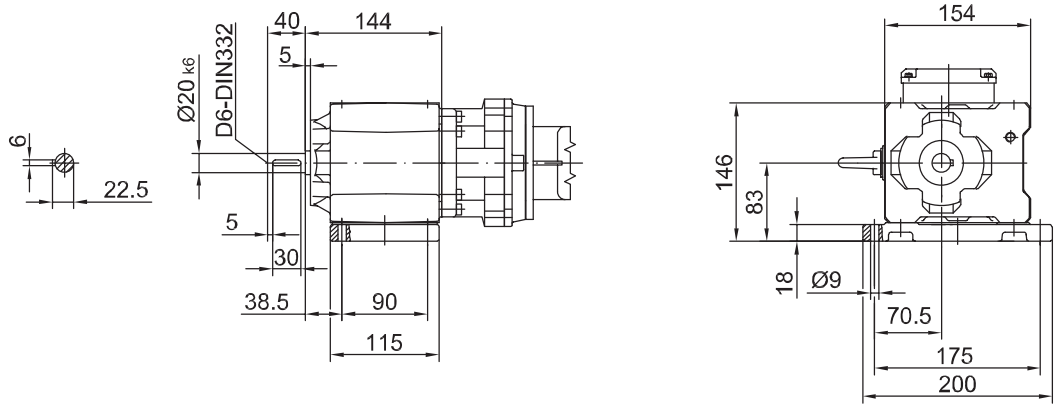
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudès à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



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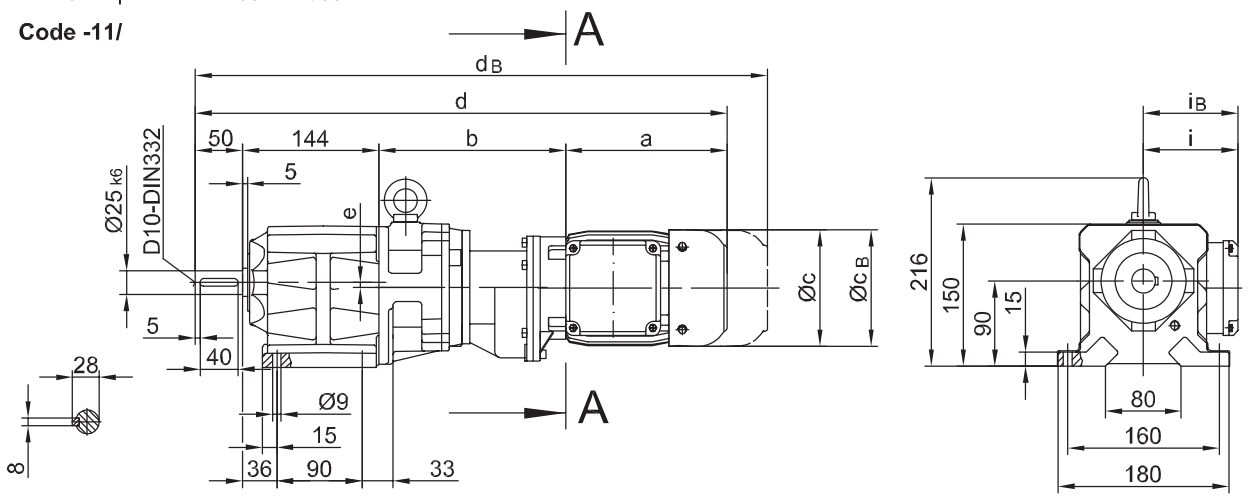
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG10XG06

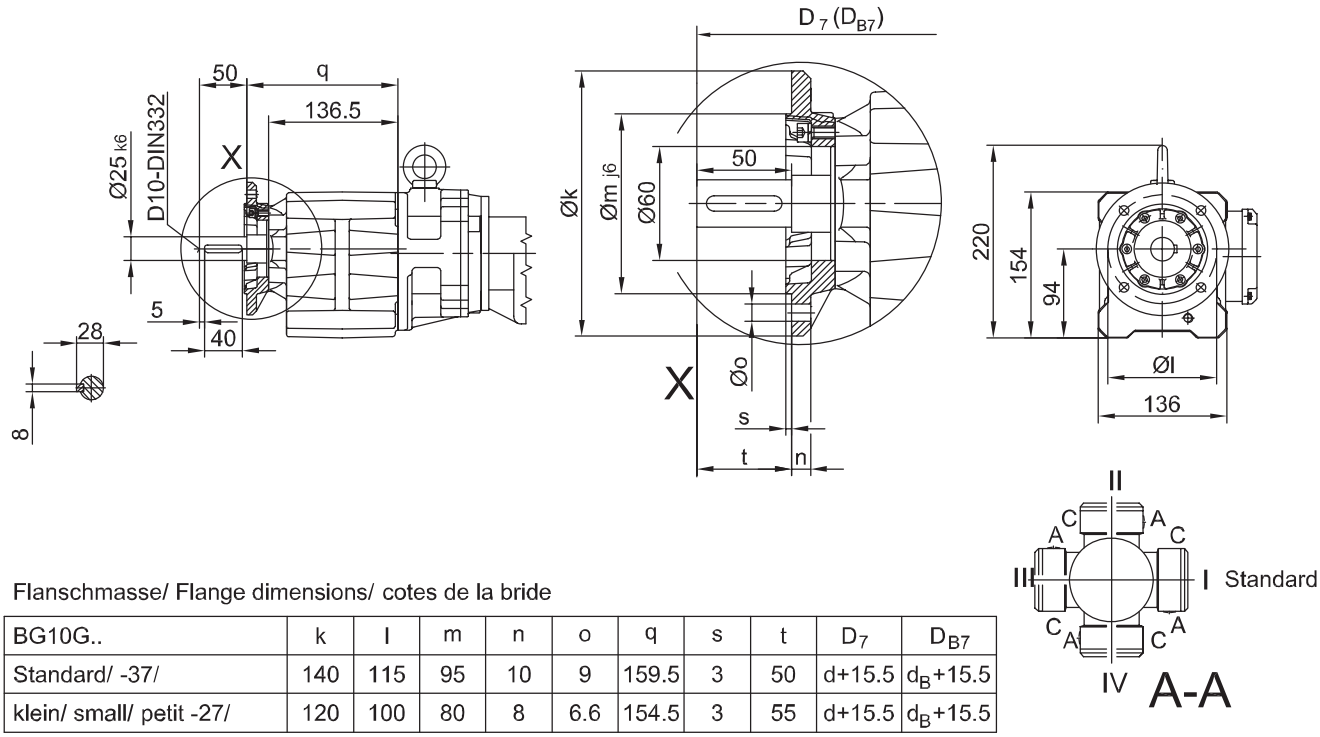
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG10G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	140	115	95	10	9	159.5	3	50	d+15.5	d_B+15.5
klein/ small/ petit -27/	120	100	80	8	6.6	154.5	3	55	d+15.5	d_B+15.5

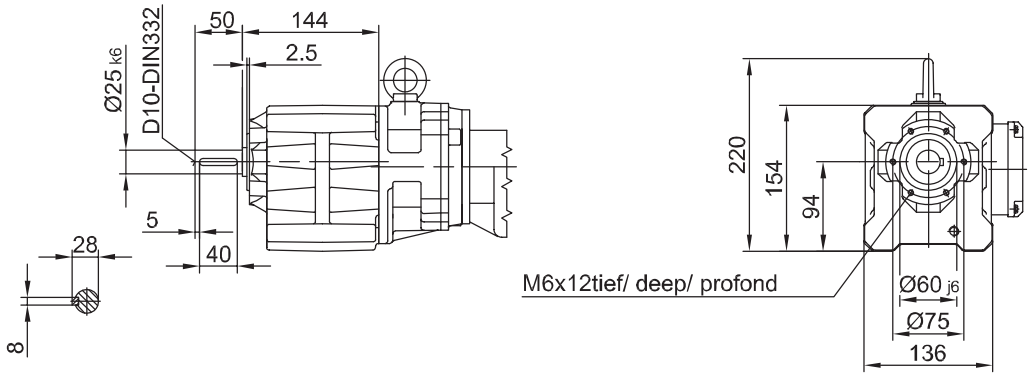
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein									
							i_B	E003		E004		E008				
								c_B	d_B	c_B	d_B	c_B	d_B			
BG10XG06-../D04..	143	195	111	532	6	90	90	111	575							
BG10XG06-../D05..	170	197	123	562	6	100	100	123	604							
BG10XG06-../D06..	170	197	123	562	6	100	100	123	604							
BG10XG06-../D07..	190	197	123	582	6	100	100	123	624	123	624					
BG10XG06-../D08..	200	241	156	635	6	115	115					166	710			

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG10XG06

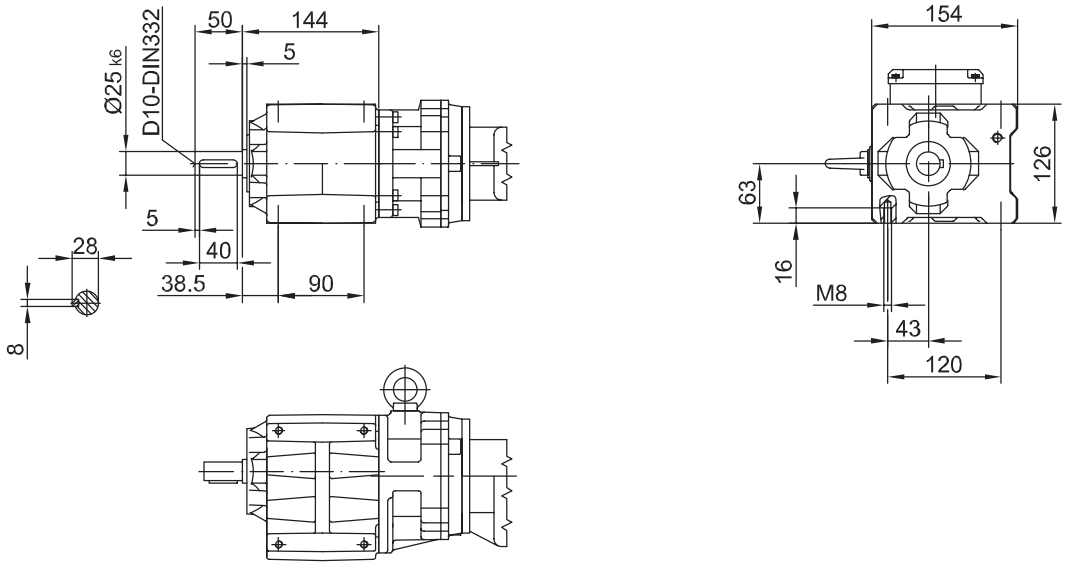
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



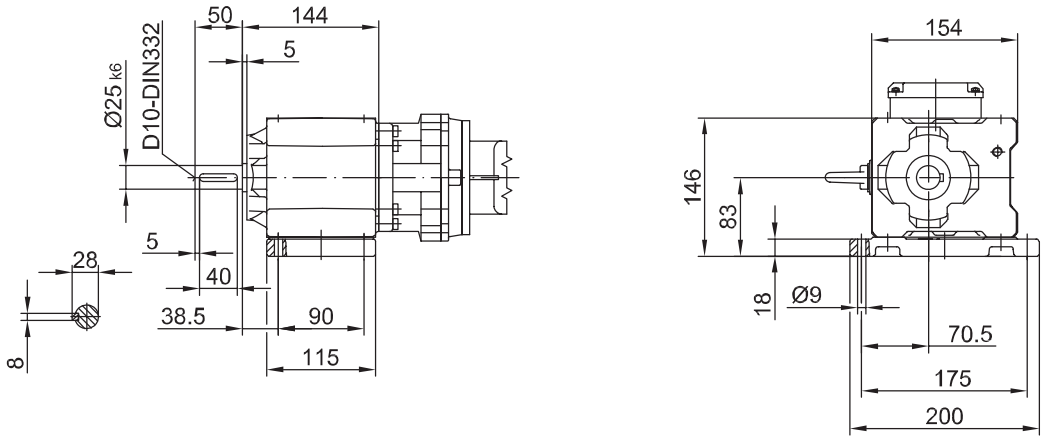
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



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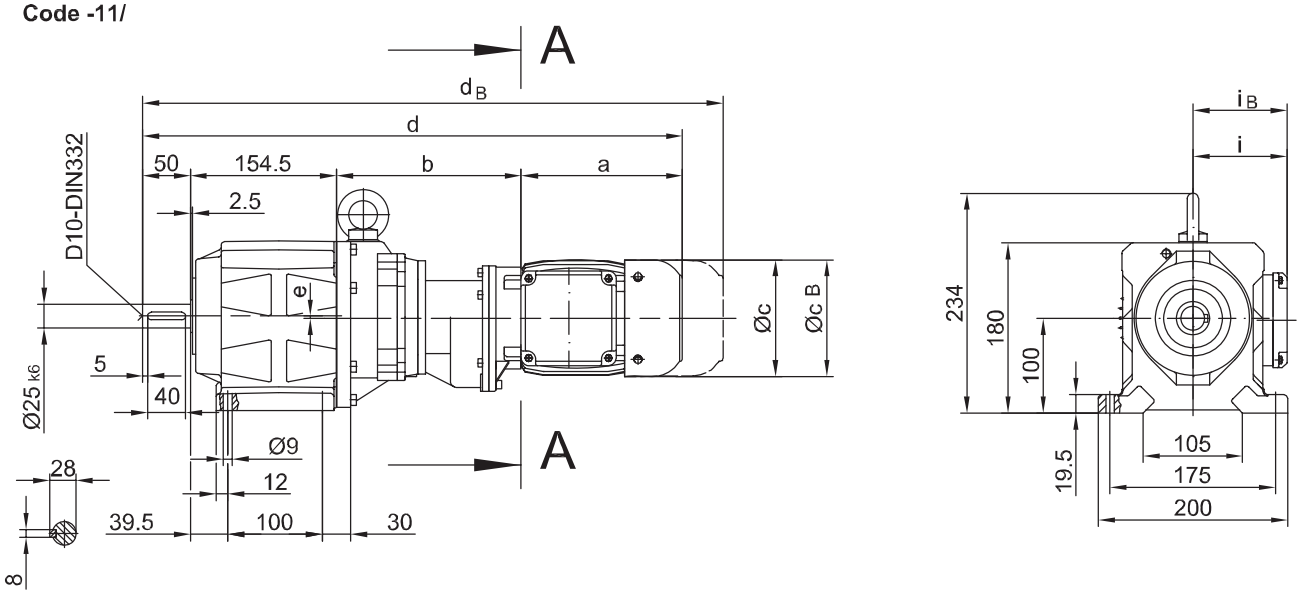
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG20G06

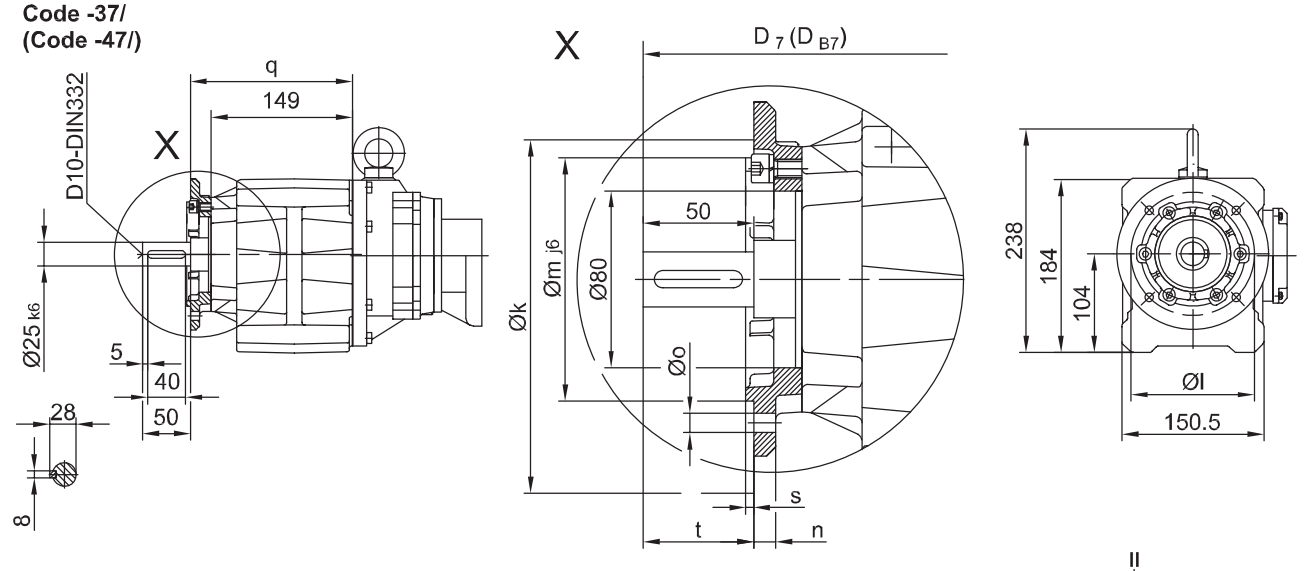
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



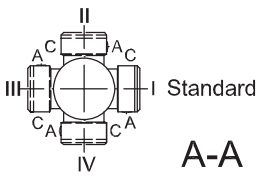
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG20(Z)G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	160	130	110	10	9	171	3.5	50	d+16.5	d_B+16.5
gross/ big/ grande -47/	200	165	130	12	11	178	3.5	43	d+16.5	d_B+16.5



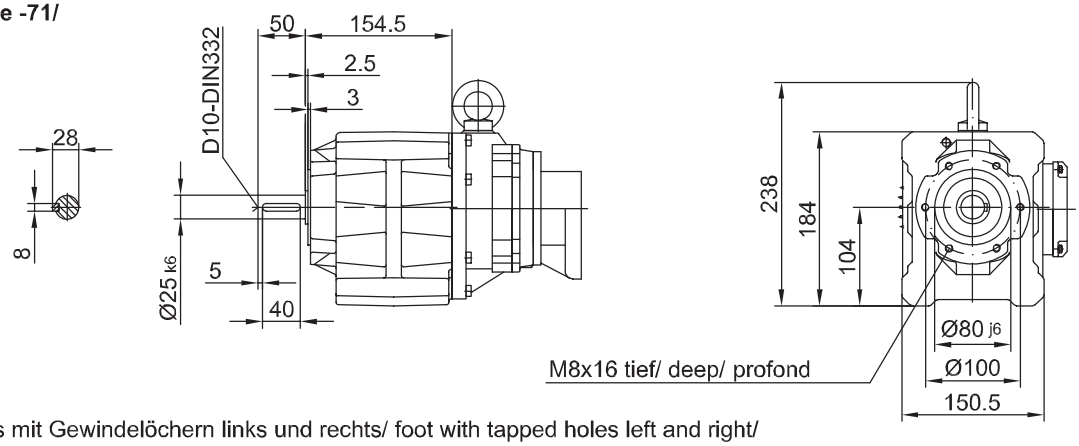
Type Typ/ Type/	a	b	c	d	e	i	i_B	Ausführung mit Bremse/ with brake/ avec frein									
								E003		E004		E008					
								c_B	d_B	c_B	d_B	c_B	d_B				
BG20G06-../D04..	143	193	111	541	2	90	90	111	584								
BG20G06-../D05..	170	195	123	570	2	100	100	123	613								
BG20G06-../D06..	170	195	123	570	2	100	100	123	613								
BG20G06-../D07..	190	195	123	590	2	100	100	123	633	123	633						
BG20G06-../D08..	200	239	156	643	2	115	115					166	718				

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG20G06

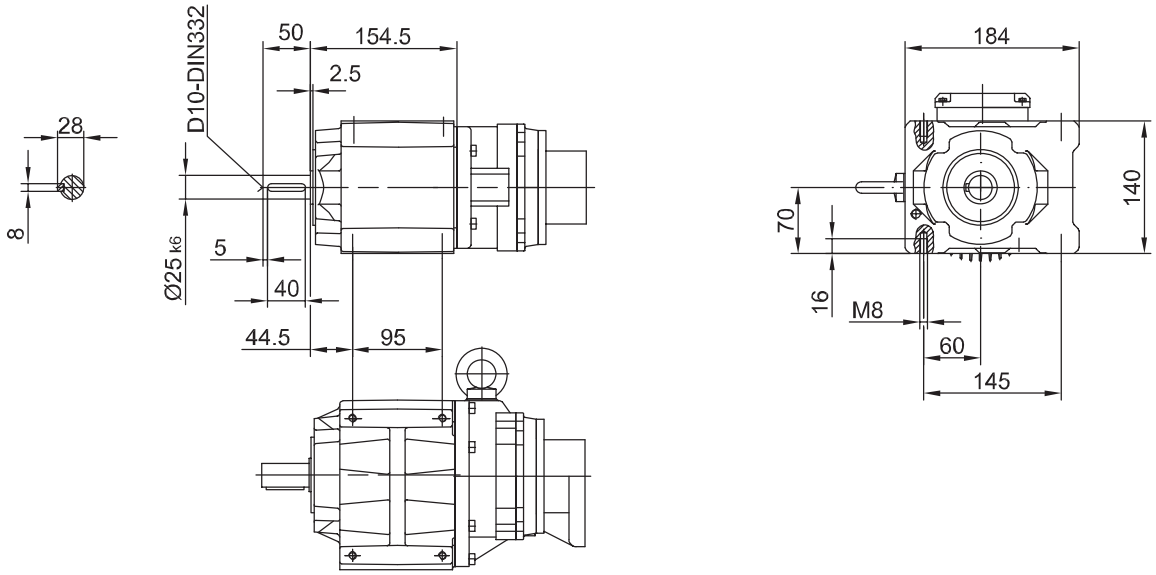
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



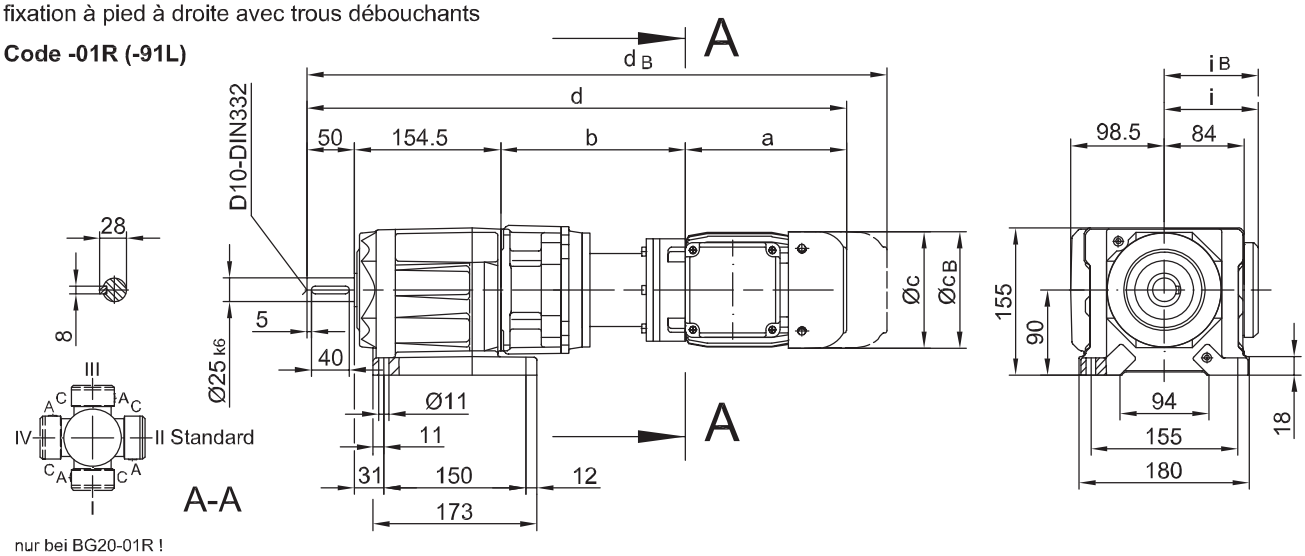
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussausführung rechts mit Durchgangslöchern/ foot mounting right with clearance holes/
fixation à pied à droite avec trous débouchants

Code -01R (-91L)



nur bei BG20-01R !

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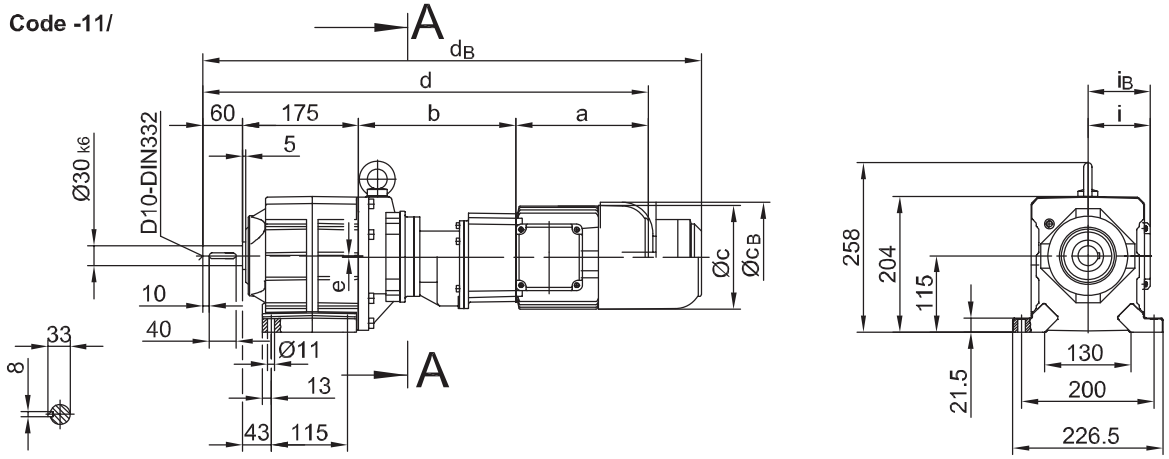
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG30G06

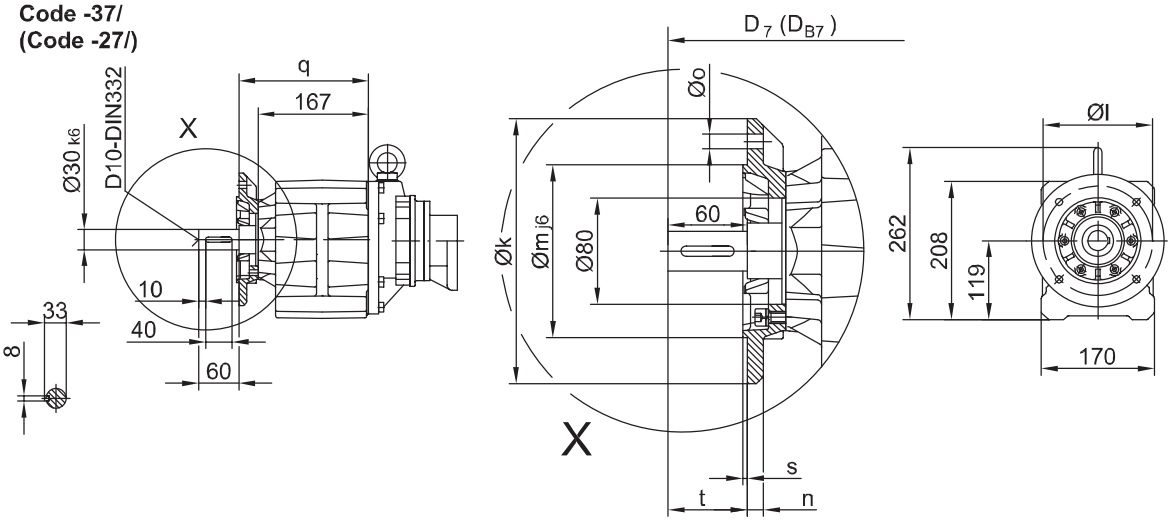
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



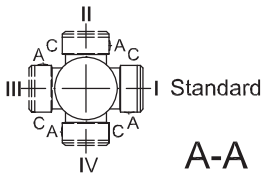
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG30G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	200	165	130	12	11	196	3.5	60	d+21	d_B+21
klein/ small/ petit-27/	160	130	110	10	9	189	3.5	67	d+21	d_B+21



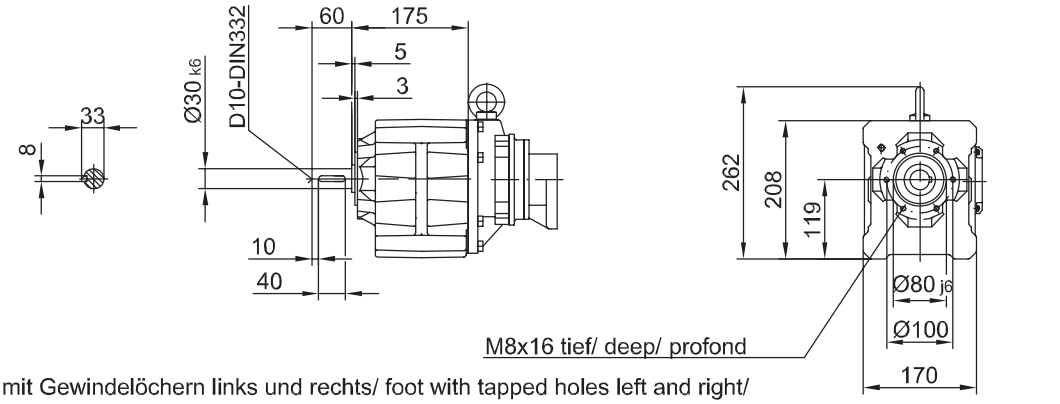
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i_B	E003		E004		E008						
								c_B	d_B	c_B	d_B	c_B	d_B					
BG30G06-../D04..	143	191	111	569	3	90	90	111	612									
BG30G06-../D05..	170	193	123	599	3	100	100	123	641									
BG30G06-../D06..	170	193	123	599	3	100	100	123	641									
BG30G06-../D07..	190	193	123	619	3	100	100	123	661	123	661							
BG30G06-../D08..	200	237	156	672	3	115	115					166	747					

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG30G06

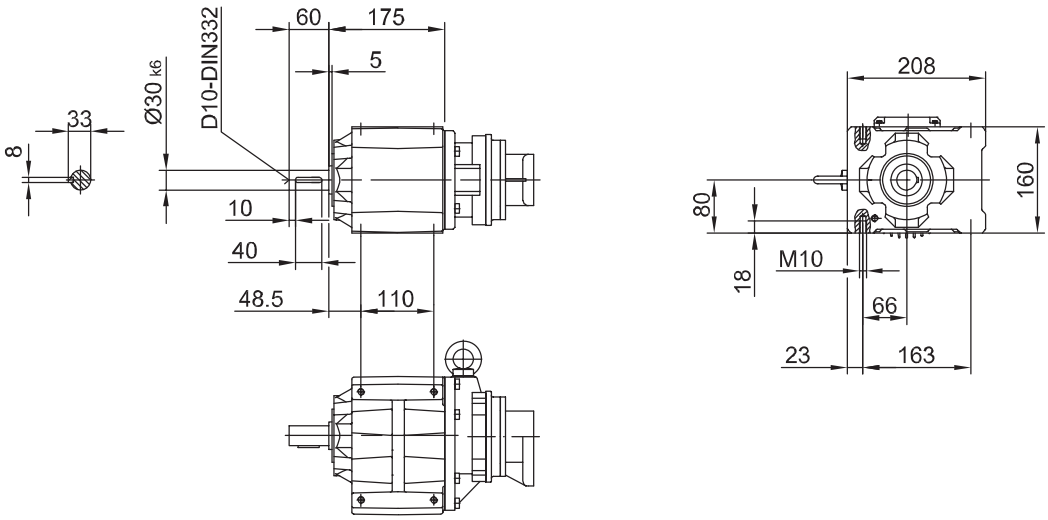
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



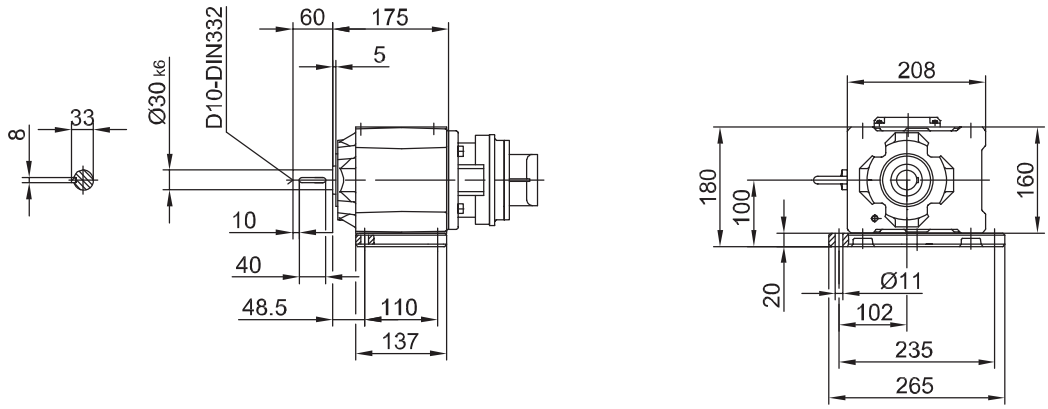
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



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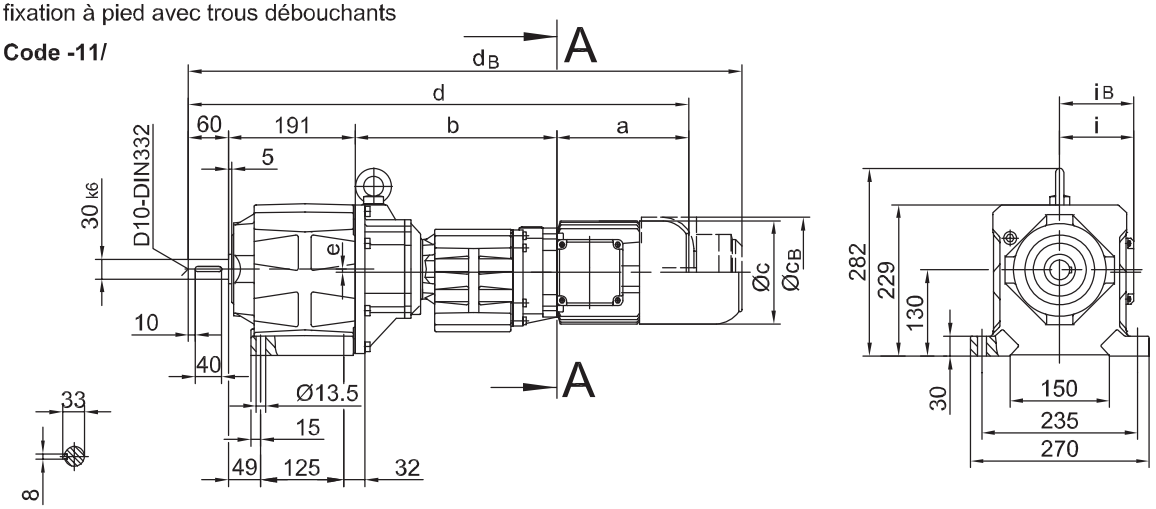
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG40G10

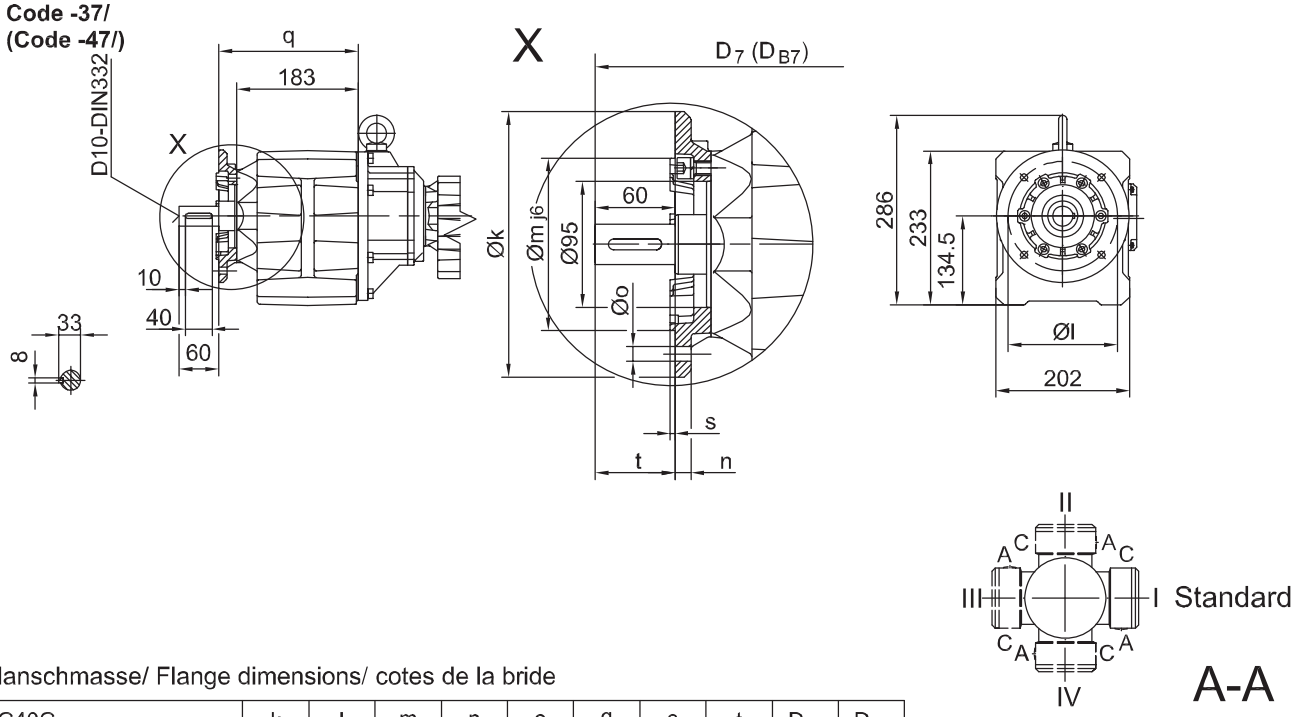
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG40G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	200	165	130	12	11	210	3.5	60	d+19	d_B+19
gross/ big/ grande -47/	250	215	180	16	13.5	219	4	51	d+19	d_B+19

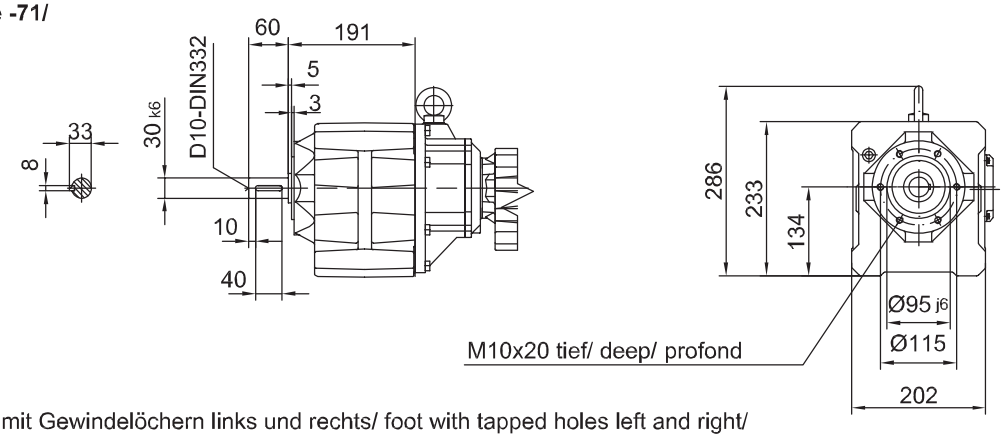
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i_B	E003		E004		E008		Z008		Z015		
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	
BG40G10-../D05..	170	300	123	722	5	100	100	123	764									
BG40G10-../D06..	170	300	123	722	5	100	100	123	764									
BG40G10-../D07..	190	300	123	742	5	100	100	123	784	123	784							
BG40G10-../D08..	200	304	156	755	5	115	115					166	830					
BG40G10-../D09..	251	318.5	181	820	5	124	124					192	900	192	914	192	920	

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG40G10

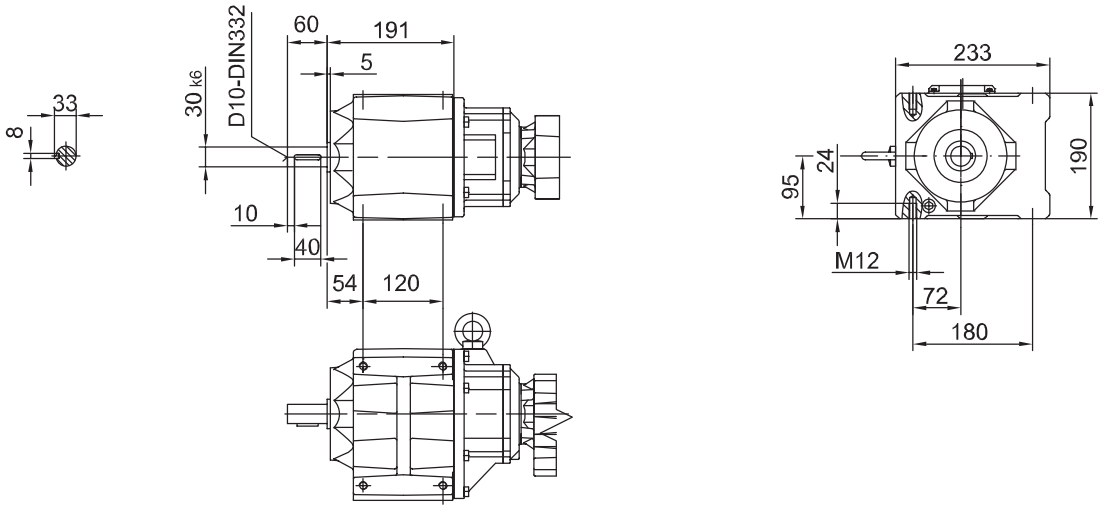
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



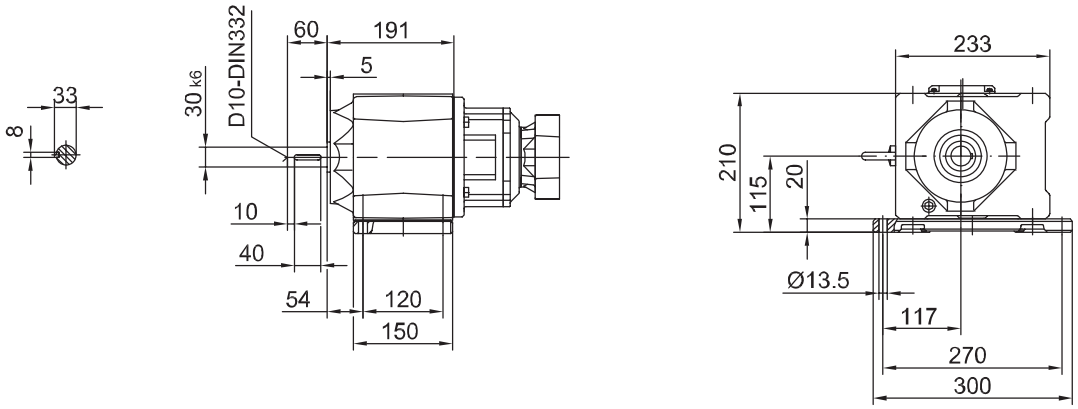
Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



Fussplatte links/ foot plate left/ fixation du pied à gauche

Code -91L/



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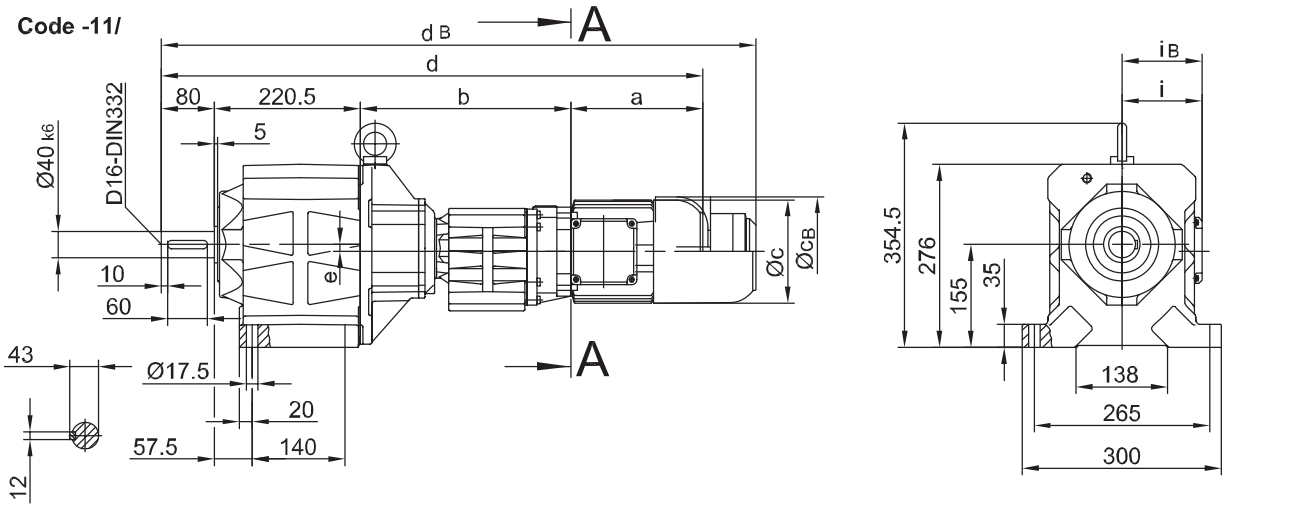
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG50G10

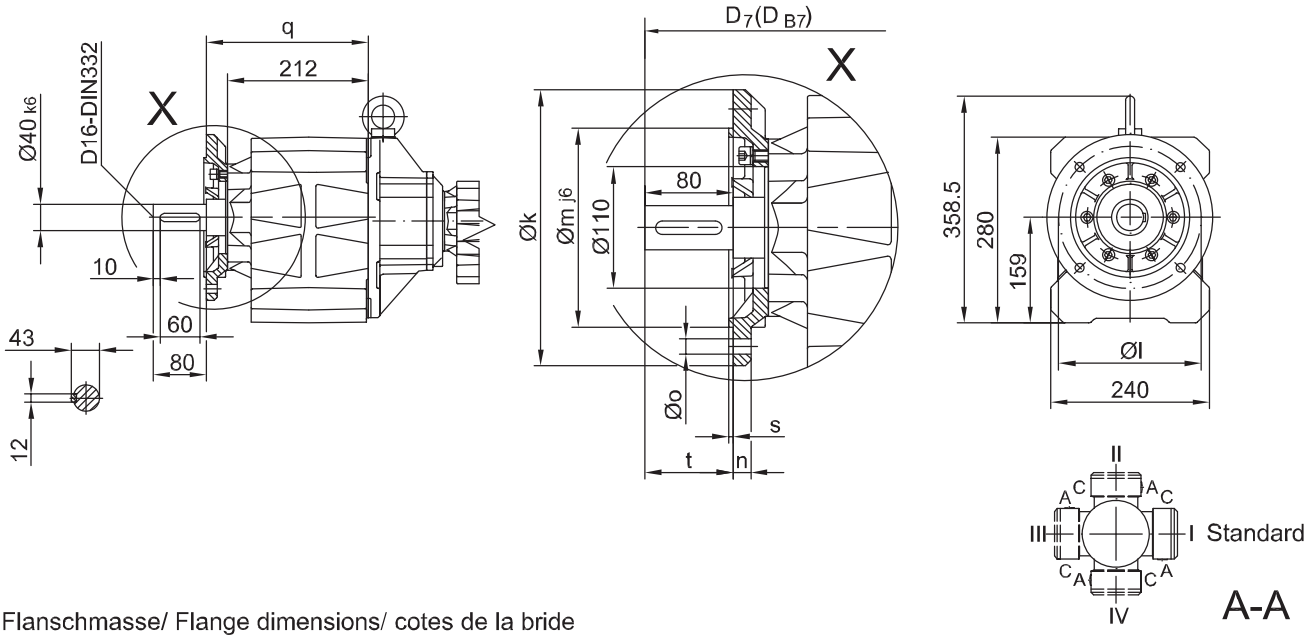
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG50G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	250	215	180	16	13.5	244	4	80	d+23.5	d_B+23.5
klein/ small/ petit -27/	200	165	130	12	11	241	3.5	83	d+23.5	d_B+23.5

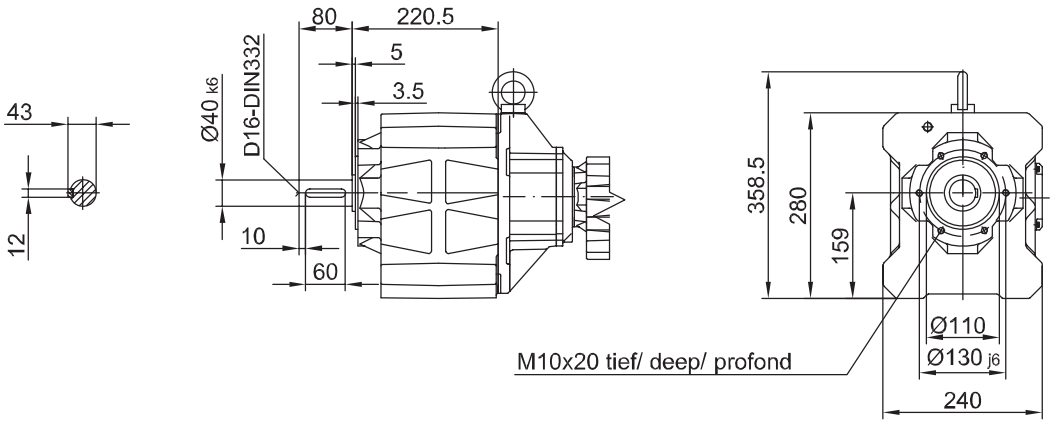
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i_B	E003		E004		E008		Z008		Z015		
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	
BG50G10-../D05..	170	313	123	784	11	100	100	123	826									
BG50G10-../D06..	170	313	123	784	11	100	100	123	826									
BG50G10-../D07..	190	313	123	804	11	100	100	123	846	123	846							
BG50G10-../D08..	200	317	156	817	11	115	115					166	892					
BG50G10-../D09..	251	331.5	181	883	11	124	124					192	962	192	976	192	982	

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG50G10

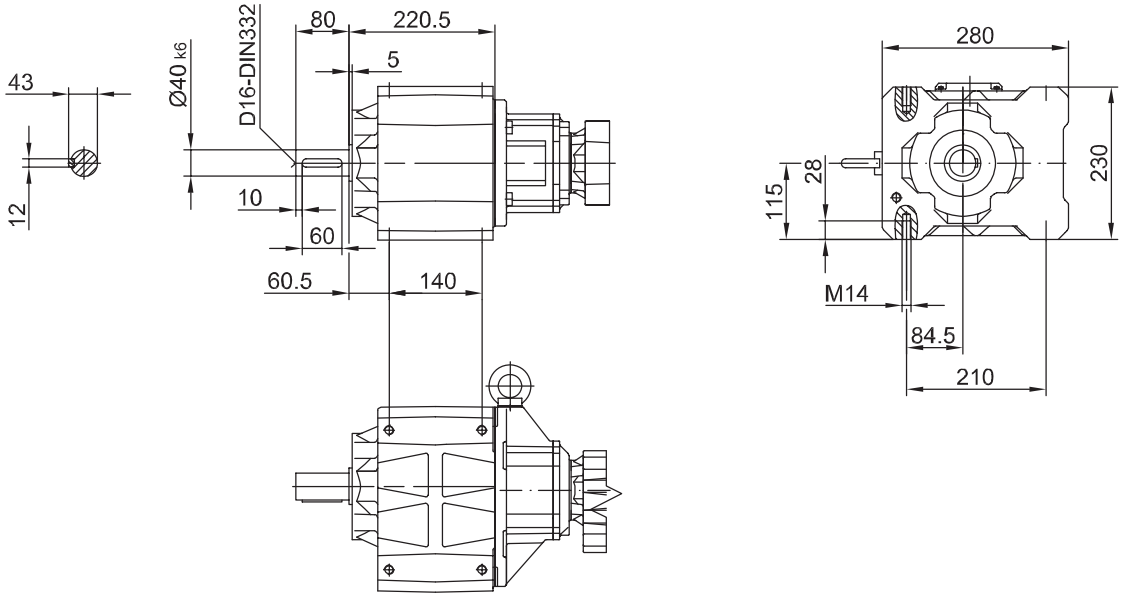
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



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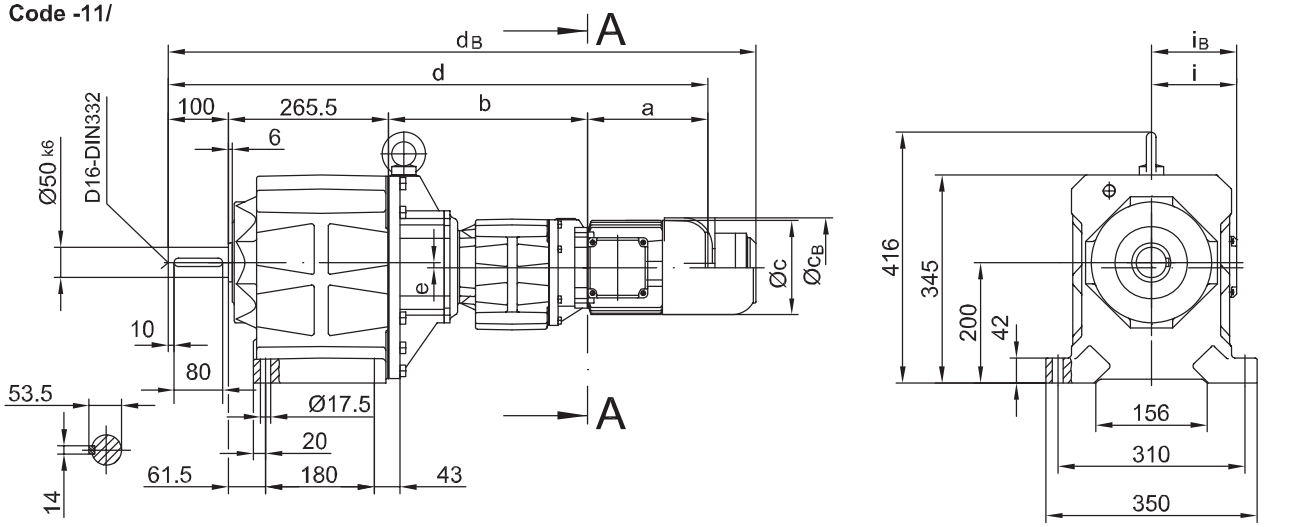
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG60G20

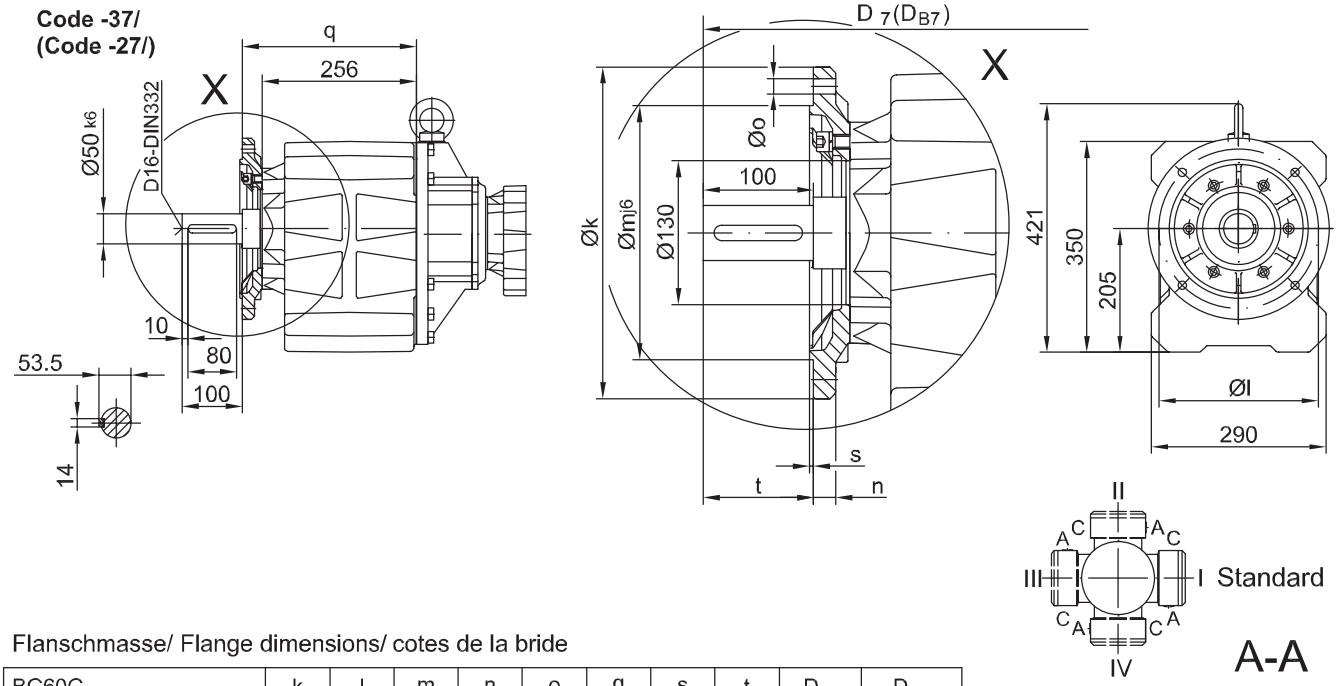
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG60G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	300	265	230	20	13.5	289	4	100	d+23.5	d_B+23.5
klein/ small/ petit -27/	250	215	180	16	13.5	286	4	103	d+23.5	d_B+23.5

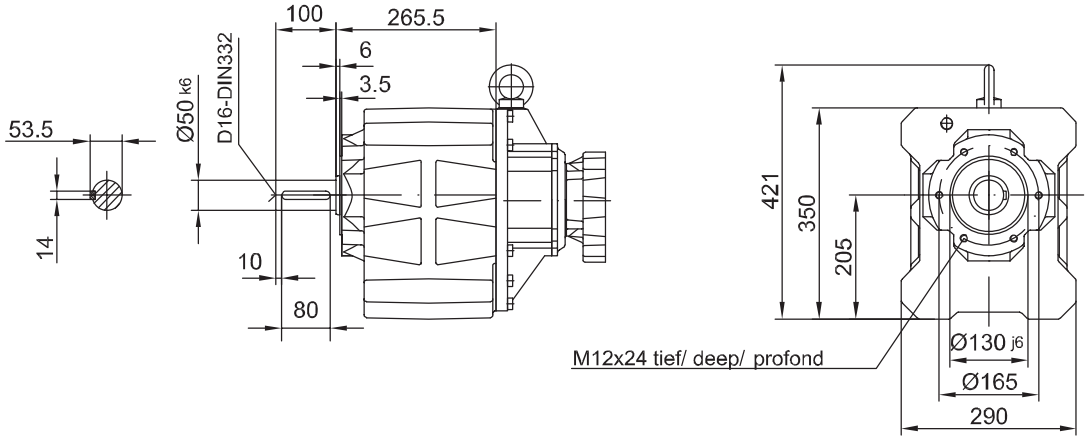
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i_B	E003		E004		E008		Z008		Z015		
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	
BG60G20-../D05..	170	326	123	862	8.5	100	100	123	904									
BG60G20-../D06..	170	326	123	862	8.5	100	100	123	904									
BG60G20-../D07..	190	326	123	882	8.5	100	100	123	924	123	924							
BG60G20-../D08..	200	330	156	895	8.5	115	115					166	970					
BG60G20-../D09..	251	344.5	181	961	8.5	124	124					192	1040	192	1154	192	1060	

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG60G20

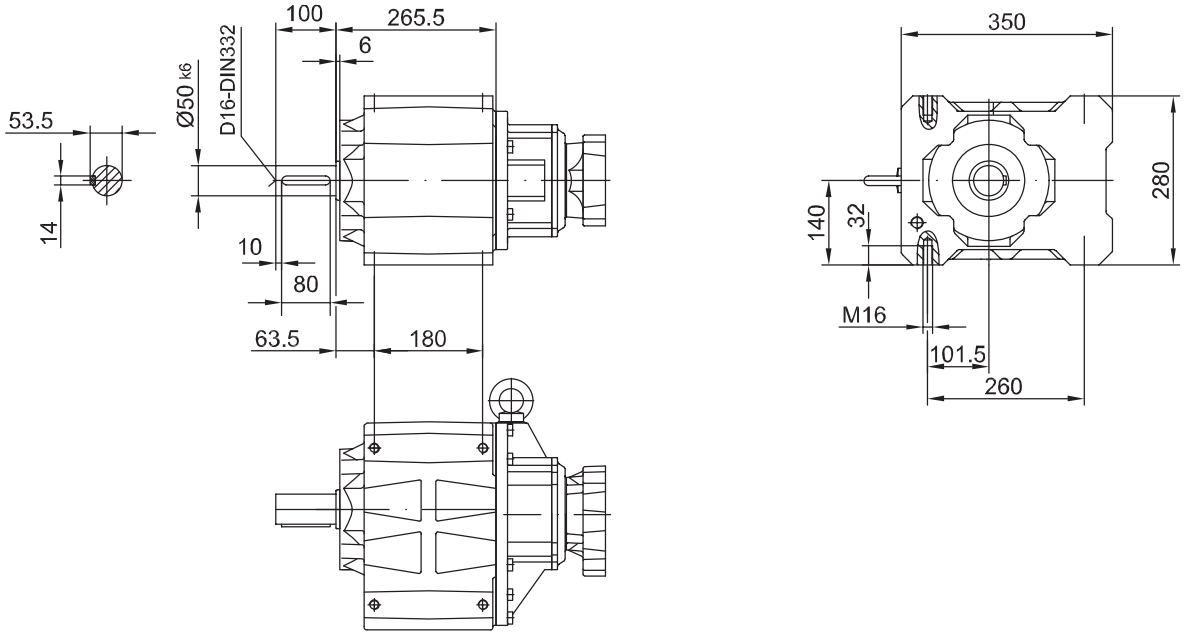
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
fixation à pied avec trous taraudés à gauche et à droite

Code -61LR/



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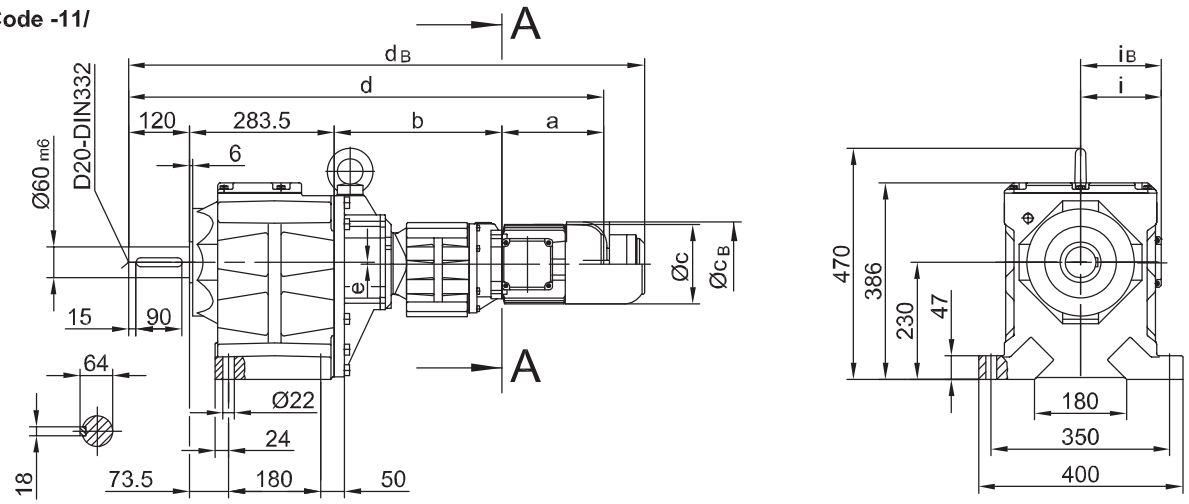
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG70G20

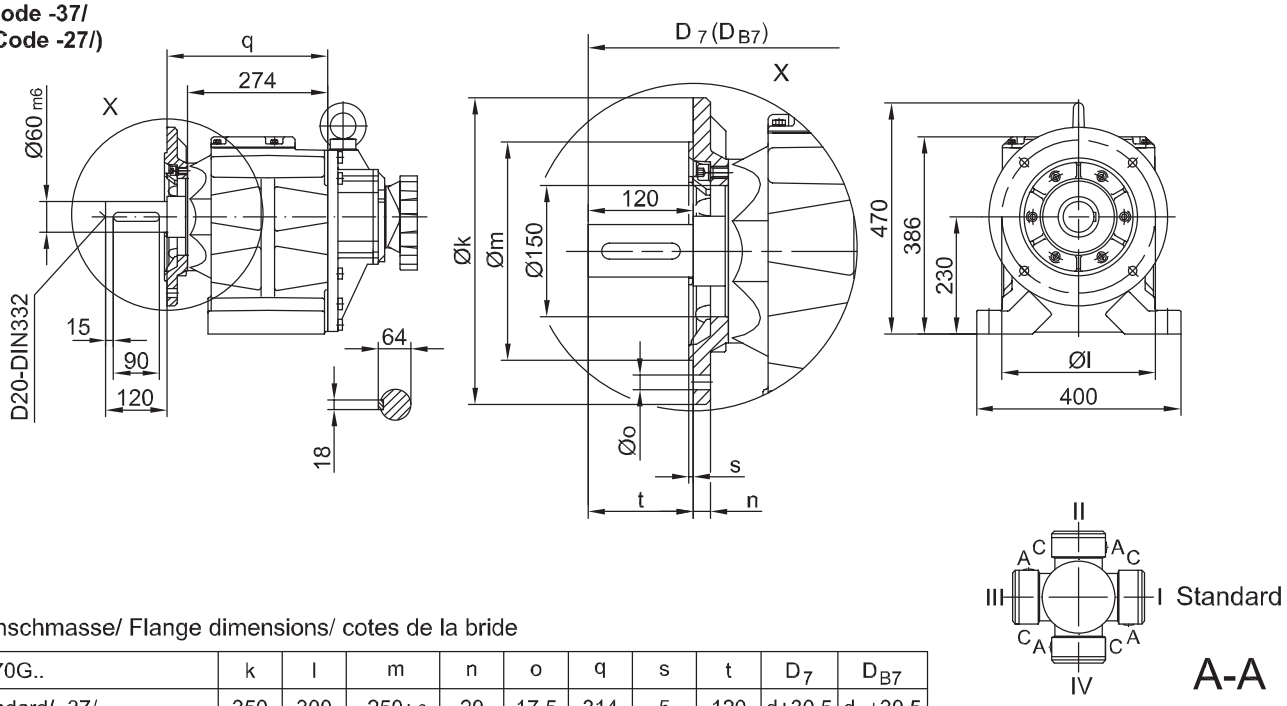
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -27/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG70G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	350	300	250 h6	20	17.5	314	5	120	d+30.5	d_B+30.5
klein/ small/ petit-27/	300	265	230 j6	20	13.5	322	4	112	d+30.5	d_B+30.5

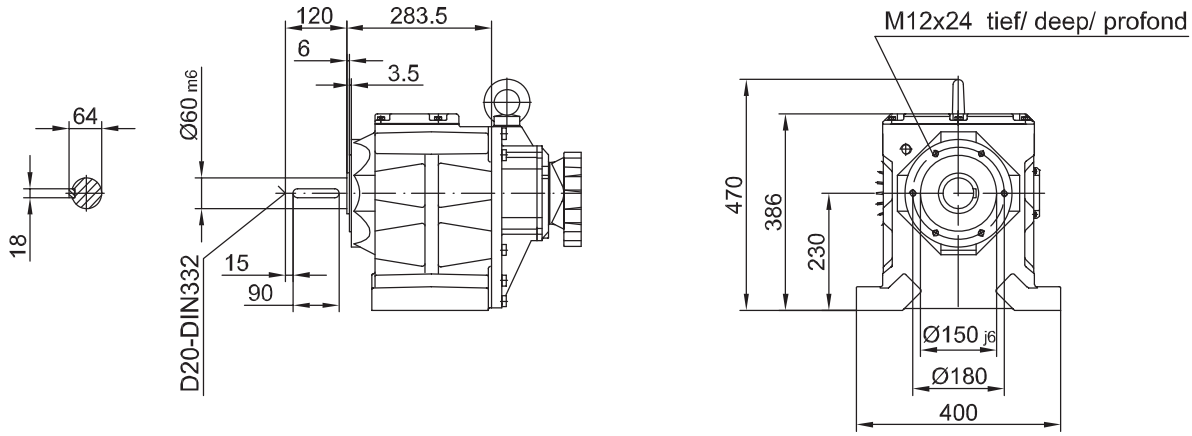
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i_B	E003		E004		E008		Z008		Z015		
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	
BG70G20-../D05..	170	324	123	898	1	100	100	123	940									
BG70G20-../D06..	170	324	123	898	1	100	100	123	940									
BG70G20-../D07..	190	324	123	918	1	100	100	123	960	123	960							
BG70G20-../D08..	200	328	156	931	1	115	115					166	1006					
BG70G20-../D09..	251	342.5	181	997	1	124	124					192	1076	192	1090	192	1096	

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG70G20

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



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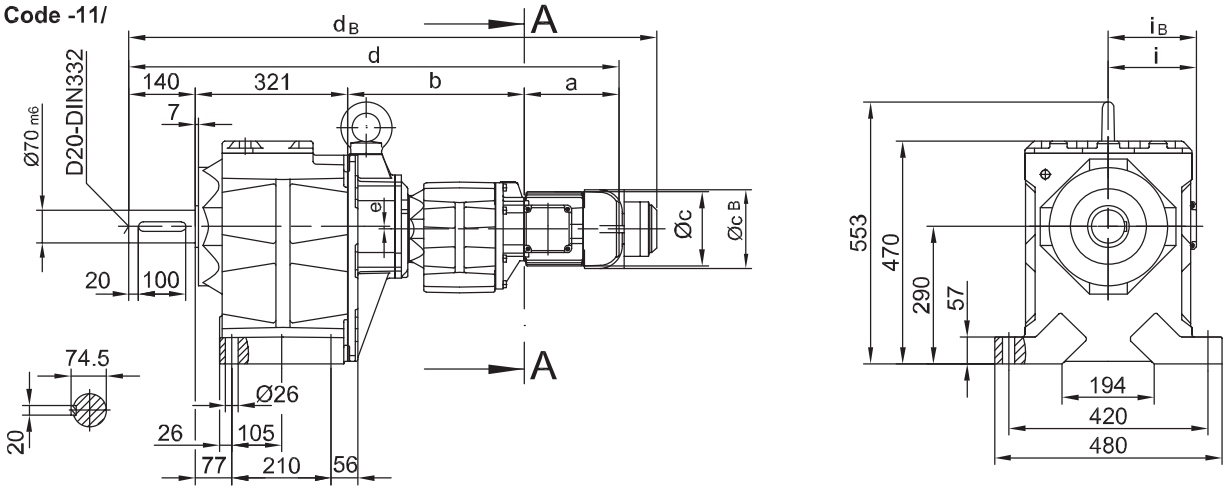
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG80G40

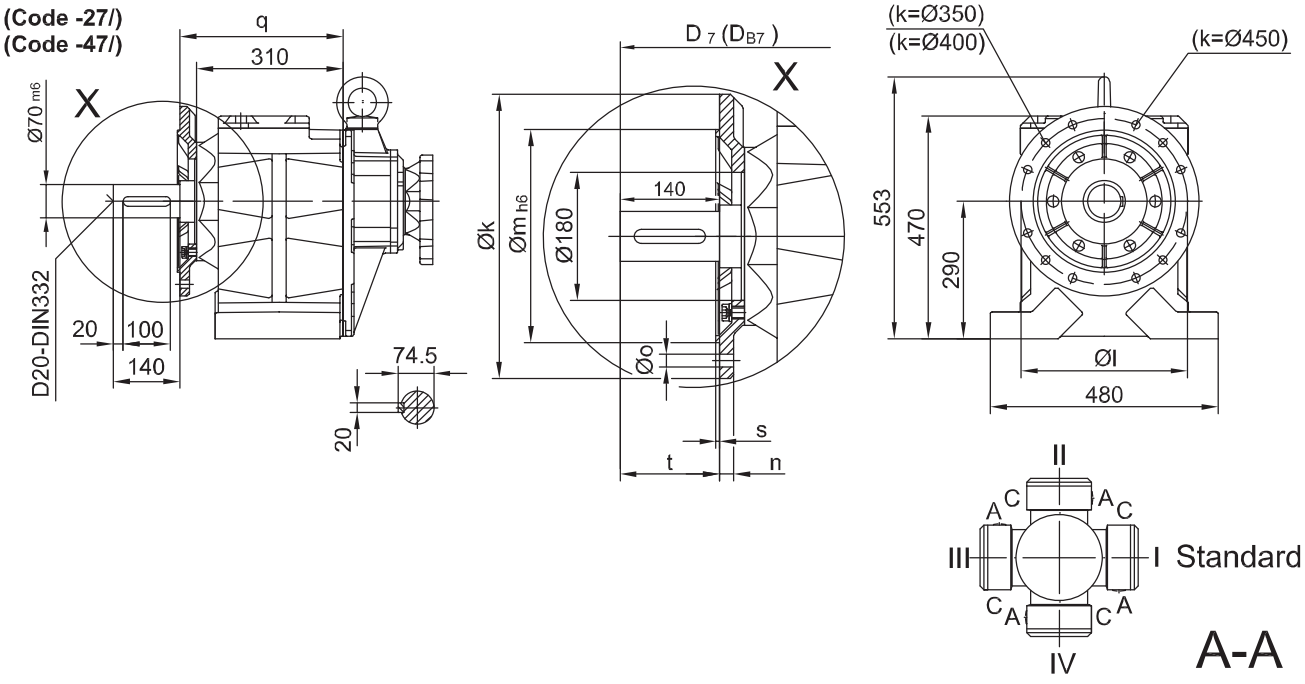
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

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



Flanschmasse/ Flange dimensions/ cotes de la bride

BG80G..	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	400	350	300	20	4 x Ø17.5	345	5	140	d+24	d_B+24
klein/ small/ petit -27/	350	300	250	20	4 x Ø17.5	345	5	140	d+24	d_B+24
gross/ big/ grande -47/	450	400	350	22	8 x Ø17.5	355	5	130	d+24	d_B+24

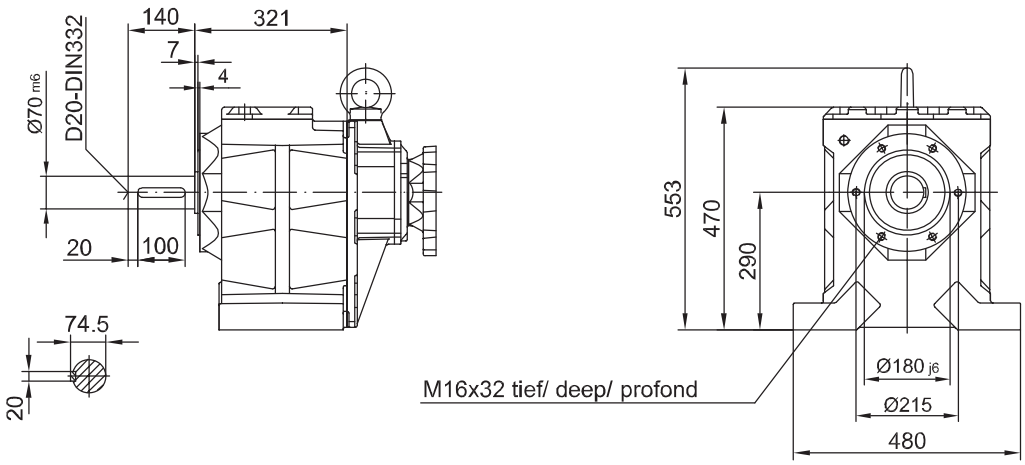
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i_B	E008		Z008		Z015		E075				
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B				
BG80G40-../D08..	200	373	156	1034	-	115	115	166	1109										
BG80G40-../D09..	251	387.5	181	1099	-	124	124	192	1179	192	1193	192	1199						
BG80G40-../D11..	319	394	228	1174	-	181	181					231	1277	231	1307				

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG80G40

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -71/



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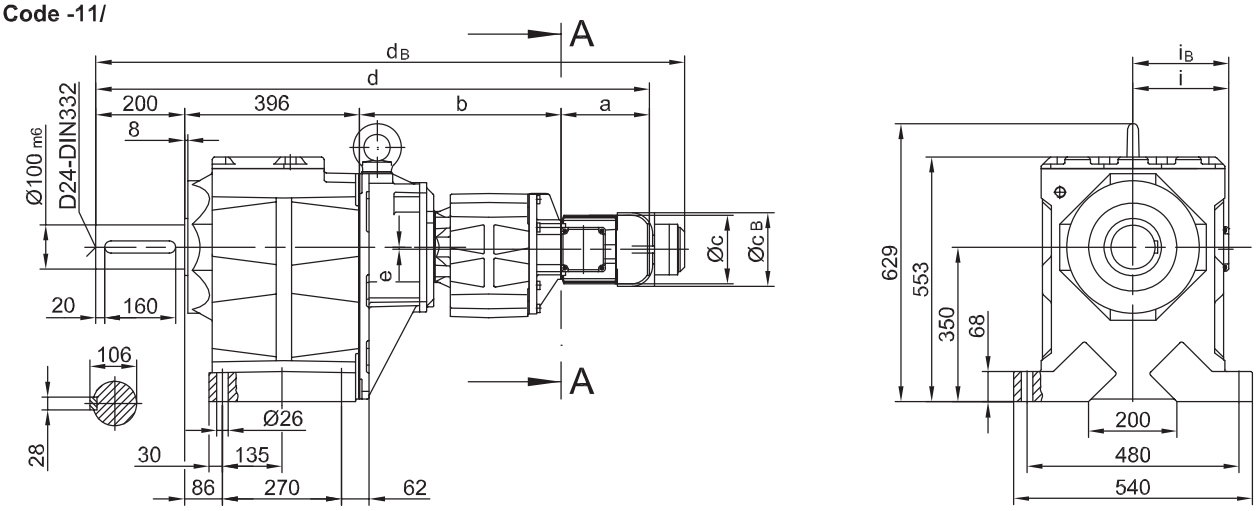
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG90G50

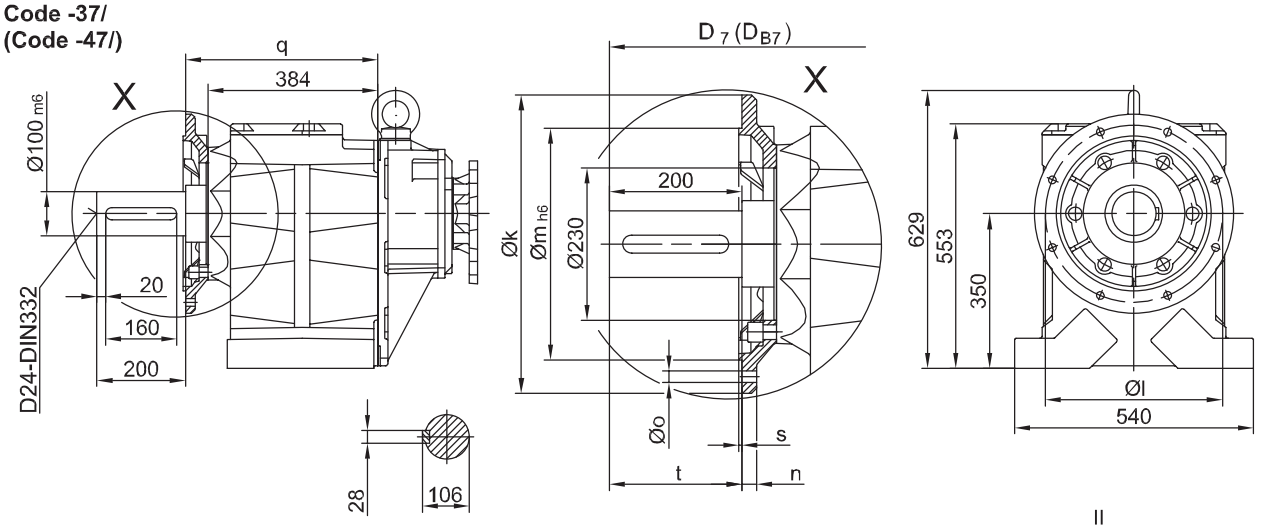
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)



Flanschmasse/ Flange dimensions/ cotes de la bride

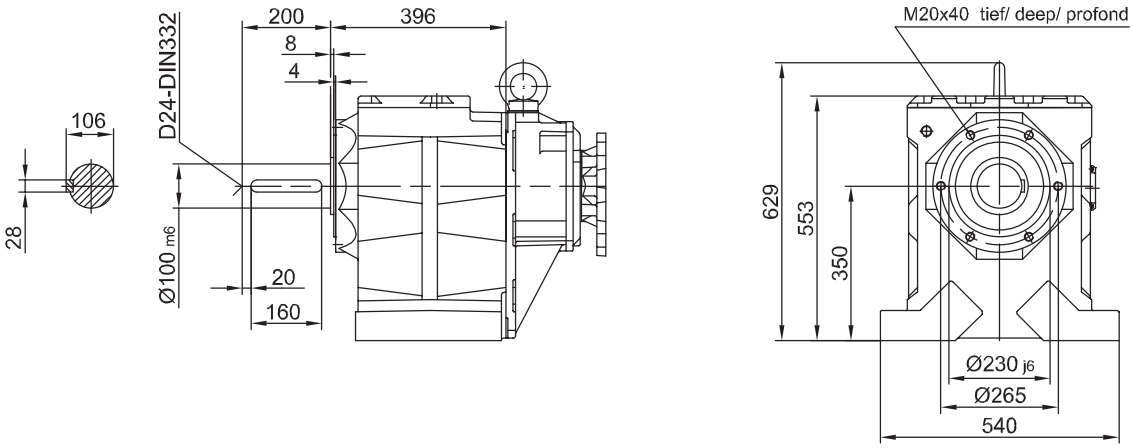
BG90G...	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	450	400	350	22	17.5	439	5	200	d+43	d_B+43
gross/ big/ grand -47/	550	500	450	22	17.5	444	5	195	d+43	d_B+43

Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i_B	E008		Z008		Z015		E075		Z075		Z100	
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B
BG90G50-../D08..	200	456	156	1252	6	115	115	166	1327										
BG90G50-../D09..	251	470.5	181	1317	6	124	124	192	1397	192	1411	192	1417						
BG90G50-../D11..	319	477	228	1392	6	181	181					231	1495	231	1525				
BG90G50-../D13..	393	490	266	1479	6	217	217							277	1614	277	1633		
BG90G50-../D16..	429	504	322	1529	6	243	243							326	1662	326	1681	326	1701

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG90G50

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés
Code -71/



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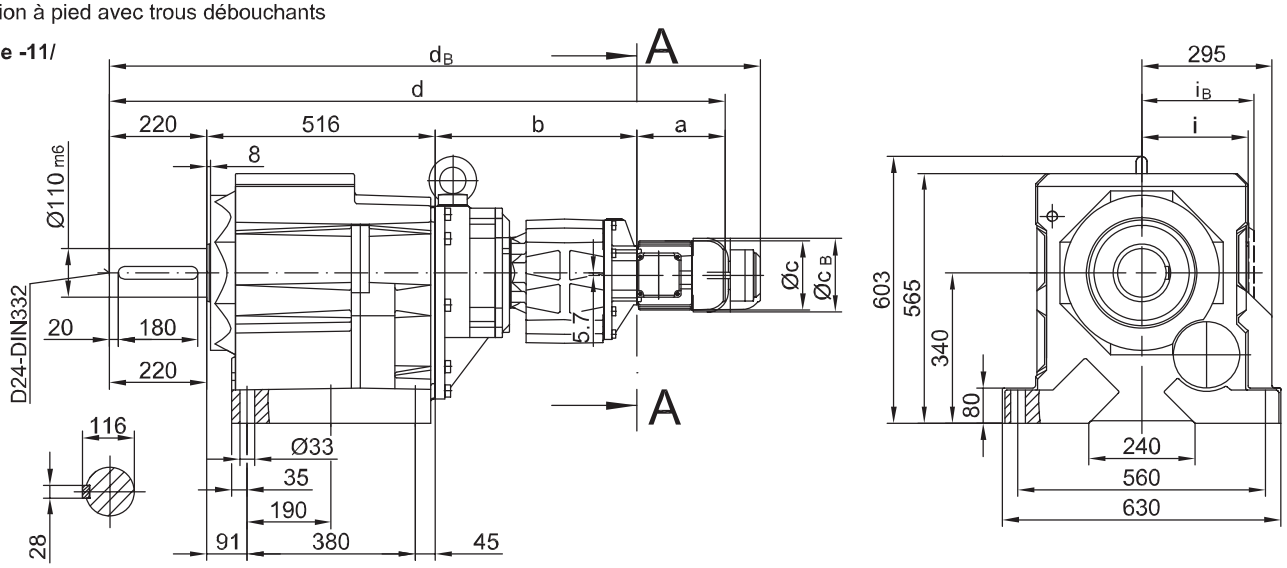
Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG100G50

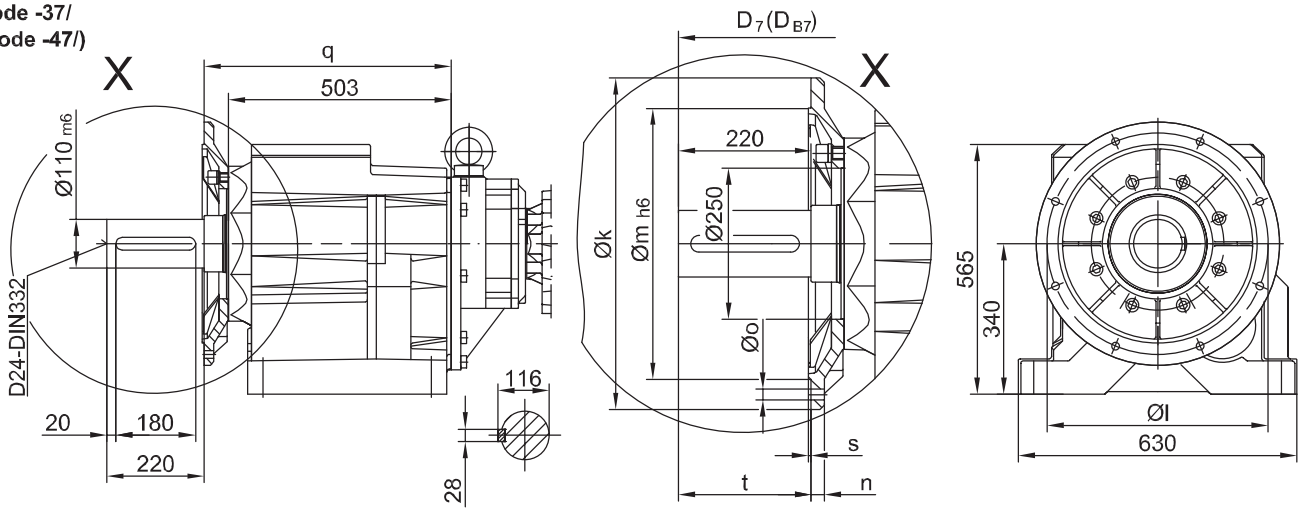
Fussausführung mit Durchgangslöchern/ Foot mounting with clearance holes/
fixation à pied avec trous débouchants

Code -11/



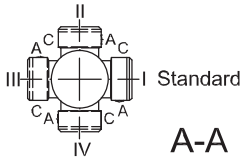
Flansch mit Durchgangslöchern/ Flange with clearance holes/ bride avec trous débouchants

Code -37/
(Code -47/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BG100(Z)	k	l	m	n	o	q	s	t	D_7	D_{B7}
Standard/ -37/	550	500	450	22	17.5	558	5	220	d+42	d_B+42
gross/ big/ grande -47/	660	600	550	25	22	552	6	226	d+42	d_B+42



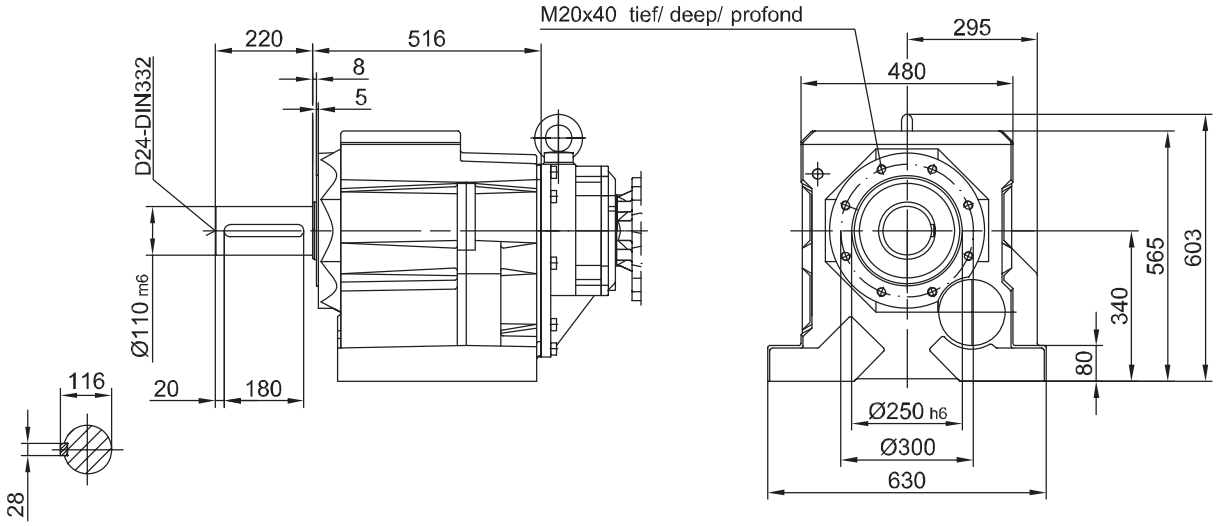
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein											
						i_B	E008		Z008		Z015		E075		Z075		Z100	
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B
BG100G50-../D08..	200	456	156	1392	115	115	166	1467										
BG100G50-../D09..	251	470.5	181	1457	124	124	192	1537	192	1551	192	1557						
BG100G50-../D11..	319	477	228	1532	181	181					231	1635	231	1665				
BG100G50-../D13..	393	490	266	1619	217	217							277	1754	277	1773		
BG100G50-../D16..	429	504	322	1669	243	243							326	1802	326	1821	326	1841

Three-phase Helical Geared Motors
Drehstrom-Stirnrad-Getriebemotoren
Motoréducteurs triphasés coaxiaux

BG100G50

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code 71/



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