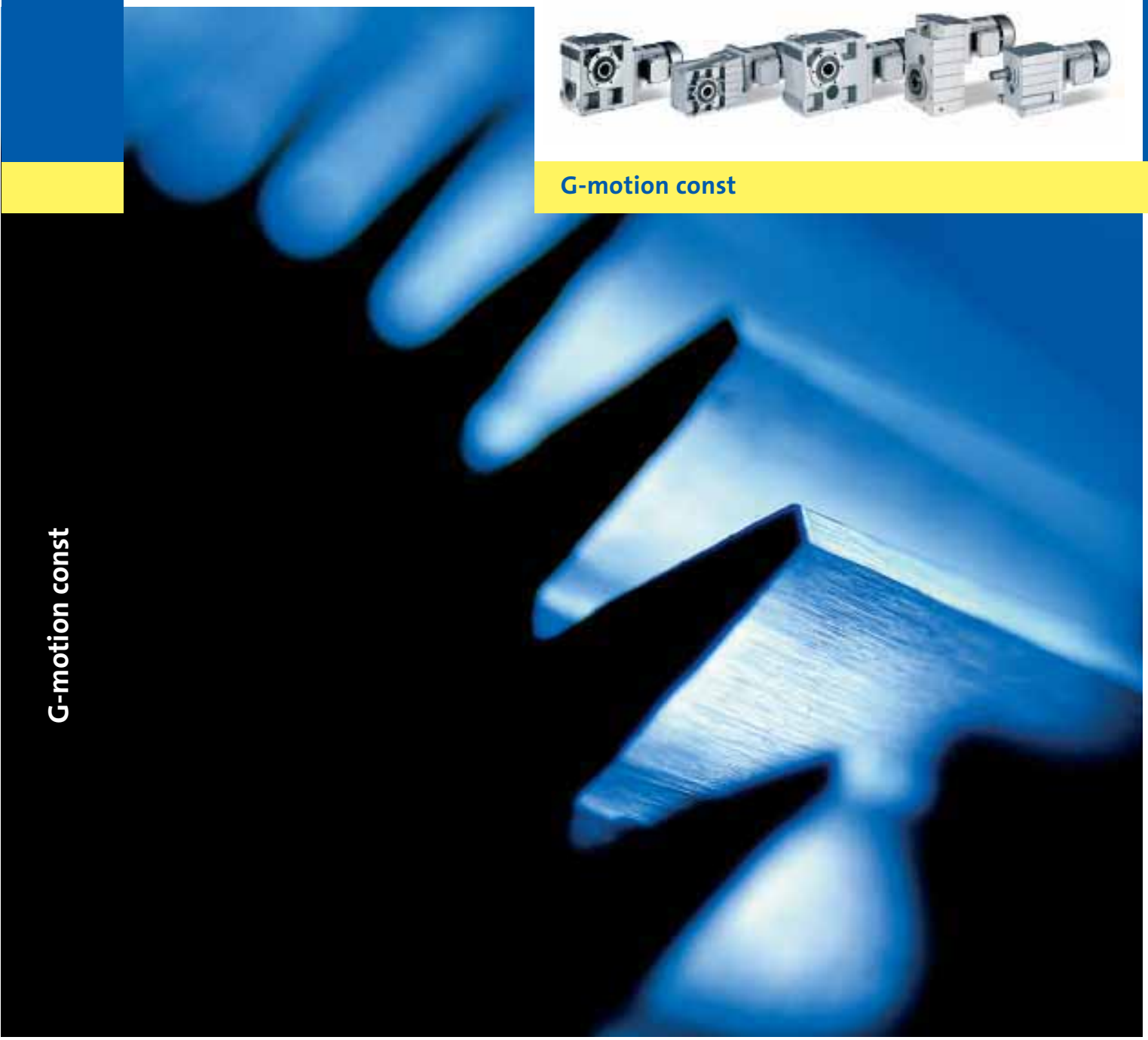
Geared motors

G-motion const



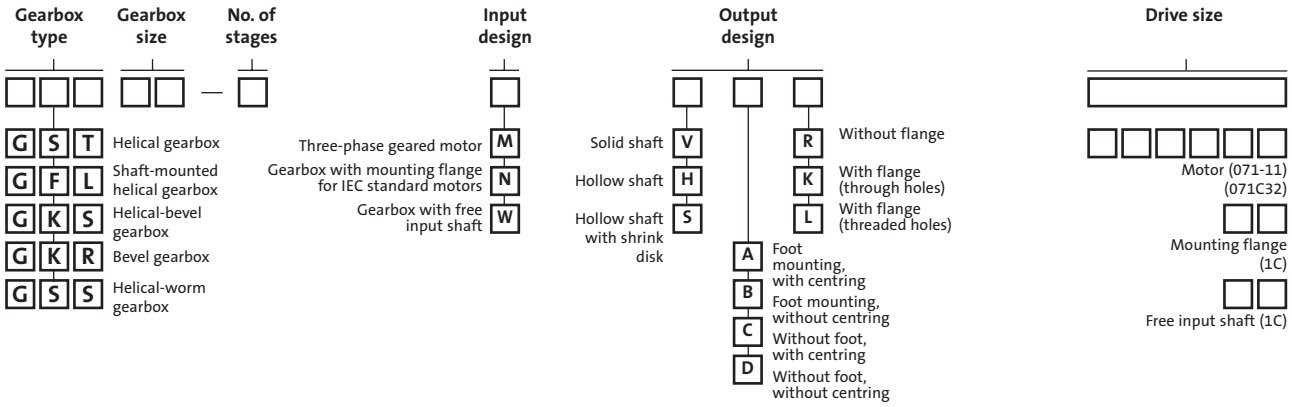
G-motion const

Lenze

Lenze

Product code | Geared motors

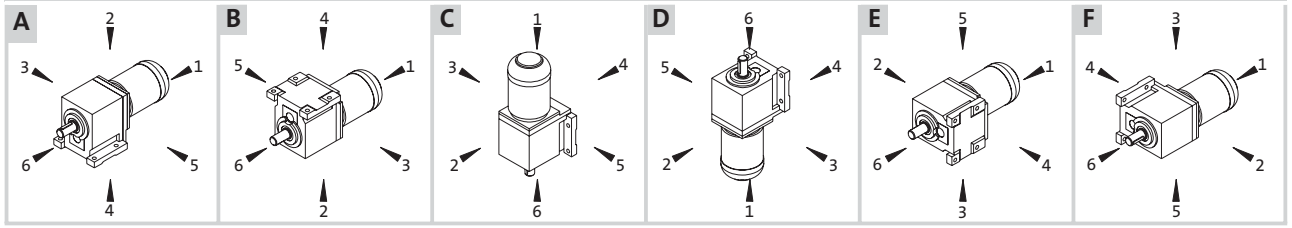
Type designation



Mounting position (A-F) and position of system elements (1-6)

GST

Terminal box: 2, 3, 4, 5
Without terminal box: 0

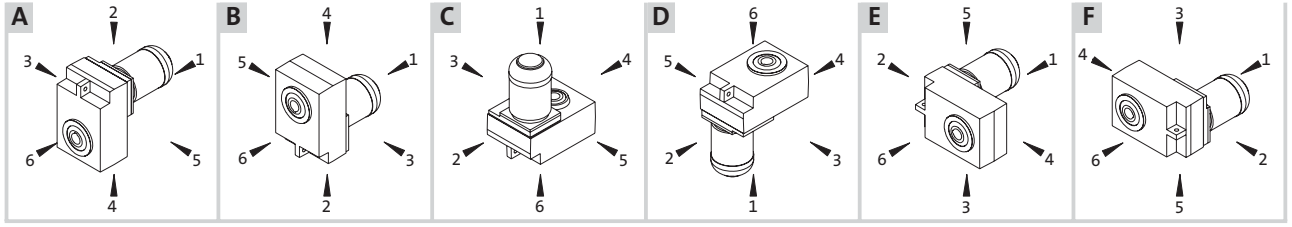


GFL

Solid shaft: 6
Hollow shaft: 0
Hollow shaft with shrink disk: 1, 6

Foot: 3, 4
Without foot: 0

Terminal box: 2, 3, 4, 5
Without terminal box: 0

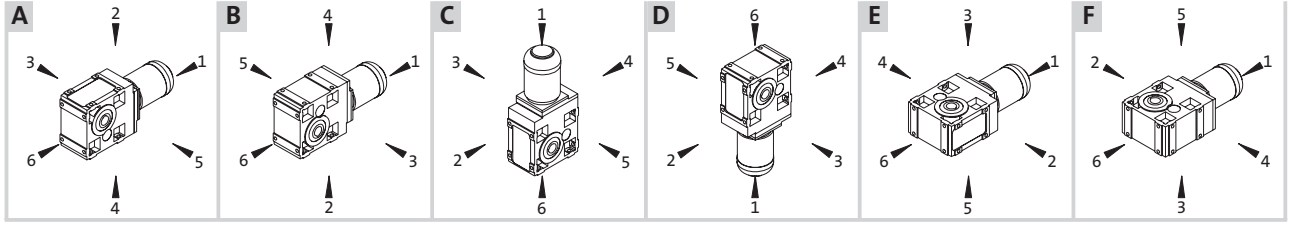


GKS/GSS

Solid shaft: 3, 5, 8 (3+5)
Hollow shaft: 0
Hollow shaft with shrink disk: 3, 5

Flange: 3, 5, 8 (3+5)
Without flange: 0

Terminal box: 2, 3, 4, 5
Without terminal box: 0

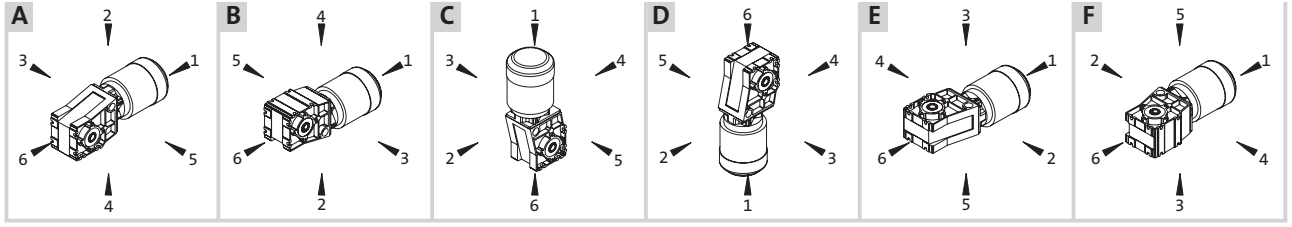


GKR

Solid shaft: 3, 5, 8 (3+5)
Hollow shaft: 0
Hollow shaft with shrink disk: 3, 5

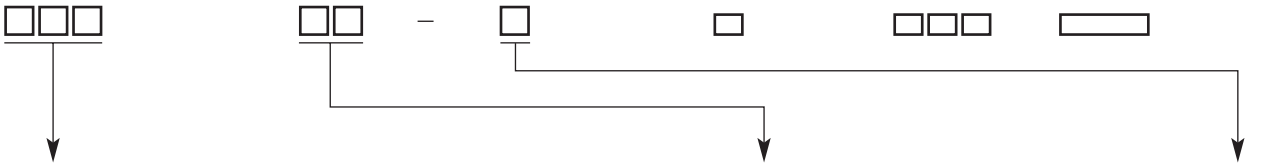
Flange: 3, 5, 8 (3+5)
Without flange: 0

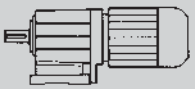
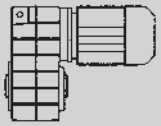
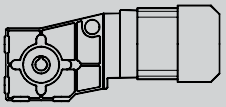
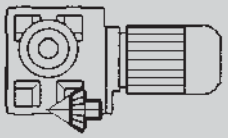
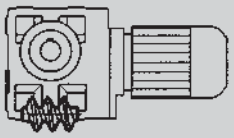
Terminal box: 2, 3, 4, 5
Without terminal box: 0



Product code | Geared motors

Type designation



Gearbox type	Gearbox size								No. of stages
	03	04	05	06	07	09	11	14	
GST 		▲	▲	▲	▲	▲			1
	▲	▲	▲	▲	▲	▲	▲	▲	2
			▲	▲	▲	▲	▲	▲	3
GFL 		▲	▲	▲	▲	▲	▲	▲	2
			▲	▲	▲	▲	▲	▲	3
GKR 	▲	▲	▲	▲					2
GKS 		▲	▲	▲	▲	▲	▲	▲	3
			▲	▲	▲	▲	▲	▲	4
GSS 		▲	▲	▲	▲				2
			▲	▲	▲				3

Geared motors | The system

The rapid pace of development in electronic drive technology is making continuous improvement possible in industrial production processes. It is for this reason that compact distributed drive units are increasingly replacing large central drives – and providing increased speed and improved dynamics. Modern mechatronic systems like those used for example for positioning tasks, require geared motors with low wear, high efficiency and minimum backlash. Lenze can provide a complete range both for mechanical and electronic drive technology applications.

In 1995 Lenze launched the G-motion range, which comprises single-stage and two-stage GST helical gearboxes, two-stage GSS helical-worm gearboxes, two-stage GFL shaft-mounted helical gearboxes (low-profile gearboxes) and three-stage GKS helical-bevel gearboxes. 1999 saw the market launch of Lenze's two-stage GKR bevel gearboxes with aluminium housings. The entire range of geared motors is based on a modular system, which makes it possible to find the ideal operating point for every customer application. Tried and tested standard products can be used as component parts in custom applications. This G-motion const catalog contains information about geared motors with constant output speed in the power range from 0.06 ... 45 kW. Drives from 0.06 ... 45 kW can be selected in easy-to-use selection tables.

The complete G-motion range also includes solutions for distributed drive systems and servo technology as well as geared motors with mechanical speed control.

New in this catalog:

- **Gearboxes**
  Bevel gearboxes
  GKR 06-2M/2N
- **Motors**
  New 4-pole motors in the power range
  2.2 ... 9.2 kW.

Helical geared motors (GST)

Shaft-mounted helical geared motors (GFL)

Helical-bevel geared motors (GKS)

G-motion | The range

Geared motors and gearboxes with constant output speeds
- ▶ Helical geared motors
- ▶ Shaft-mounted helical geared motors
- ▶ Bevel geared motors
- ▶ Helical-bevel geared motors
- ▶ Helical-worm geared motors

G-motion const

Geared motors with built-in 8200 motec frequency inverter
- ▶ Helical geared motors
- ▶ Shaft-mounted helical geared motors
- ▶ Bevel geared motors
- ▶ Helical-bevel geared motors
- ▶ Helical-worm geared motors

G-motion motec

Geared motors with dynamics
- ▶ Helical geared motors
- ▶ Shaft-mounted helical geared motors
- ▶ Bevel geared motors
- ▶ Helical-bevel geared motors
- ▶ Helical-worm geared motors

G-motion servo

Geared motors with mechanical speed control
- ▶ Planetary variable speed drives
- ▶ Belt variable speed drives
- ▶ Variable speed pulleys

G-motion m-var

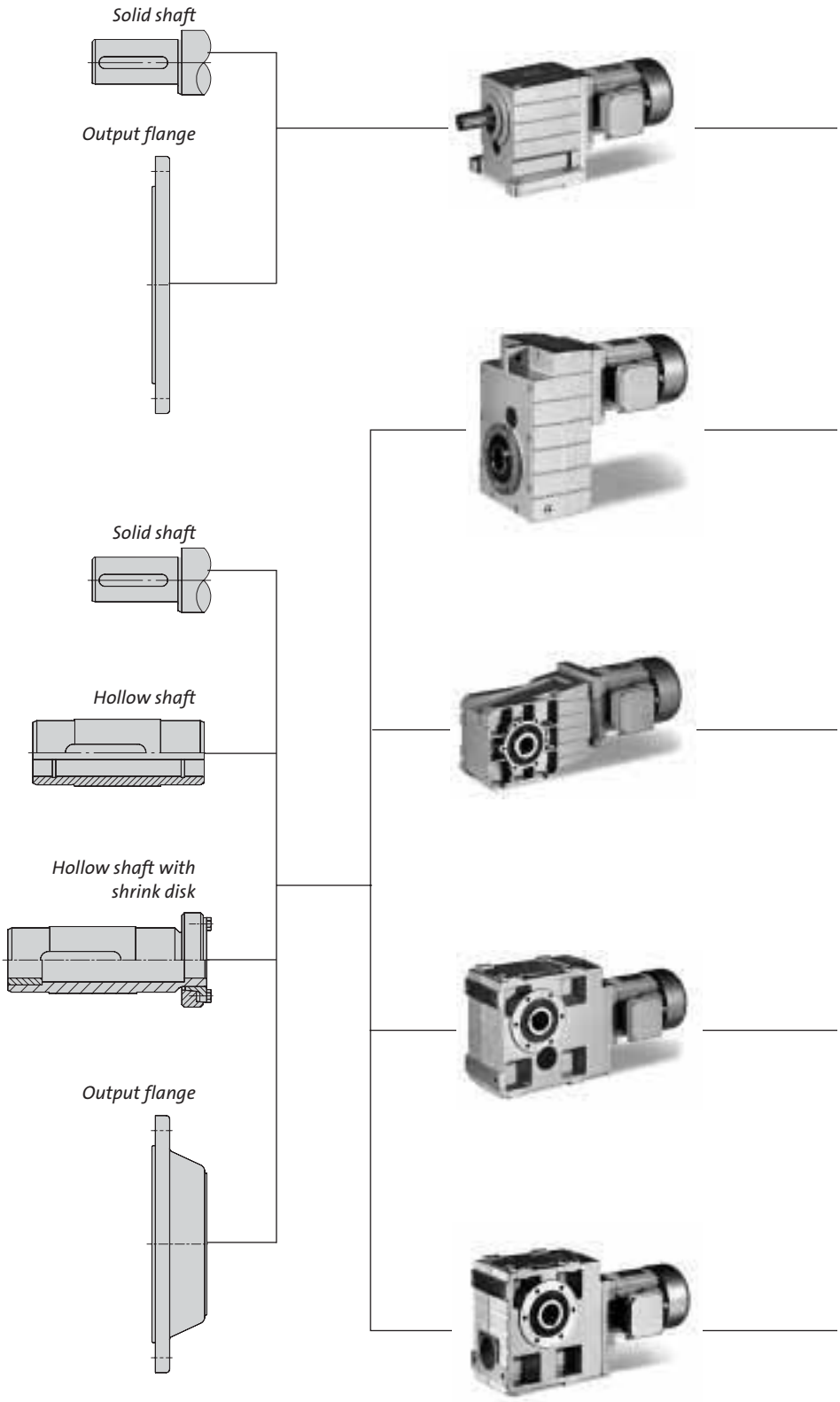
Bevel geared motors (GKR)

Helical-worm geared motors (GSS)

Contents | G-motion const

General | G-motion const

Geared motors for constant output speeds with high functionality due to numerous gearbox and motor options.



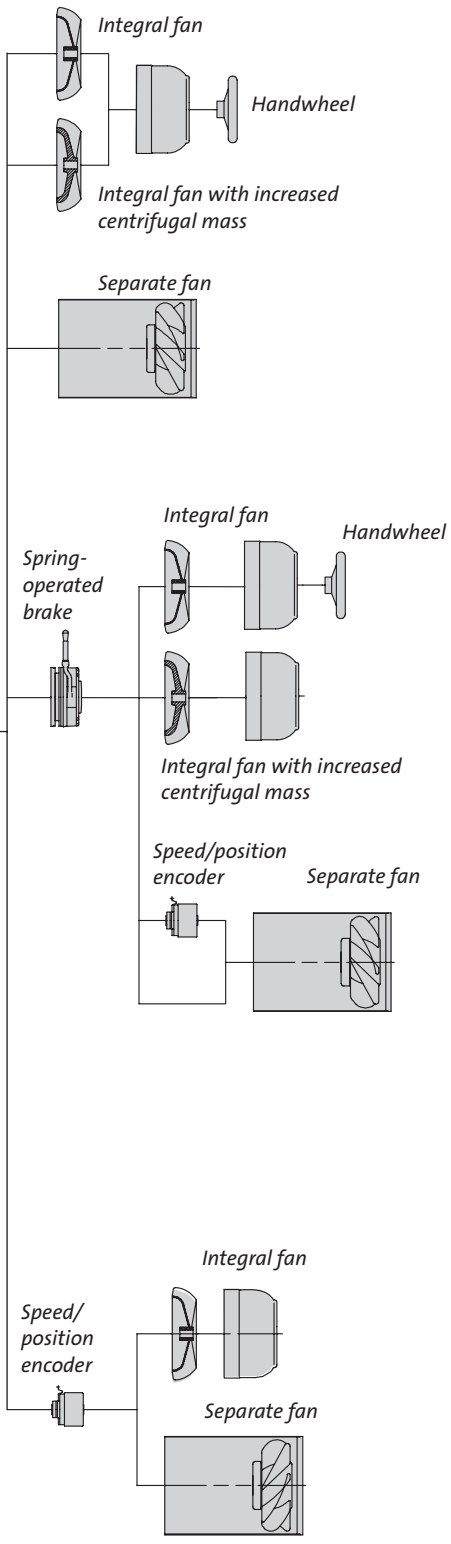
Helical geared motors GST
0.06 to 45 kW
Parallel-axial solid shaft geared motors with foot and flange mounting. As on all other models, the optimised tooth geometry ensures that the gearboxes run particularly smoothly.

Shaft-mounted helical geared motors GFL
0.12 to 45 kW
Recommended for use as compact helical geared motors with hollow shaft mounting. Interference connections without keyways and high quality teeth minimise output backlash on Lenze geared motors.

Bevel geared motors GKR
0.06 to 7.5 kW
Right-angle geared motors in the low torque range with wear-free bevel gears. The comparatively high efficiency means that even in this power range, energy savings can be made.

Helical-bevel geared motors GKS
0.12 to 45 kW
Comparatively high-efficiency solid shaft or hollow shaft right-angle geared motors. Pinpoint output speeds are possible due to the ratio range, which has been carefully stepped.

Helical-worm geared motors GSS
0.12 to 15 kW
Comparatively inexpensive right-angle geared motors with high power density. They can be easily integrated into the machine structure due to an output side pitch circle and mounting surfaces on three sides.



Geared motors

Our quality standards in development, material selection, production and assembly mean that Lenze geared motors in the G□□motion range are able to meet the highest requirements in terms of a durable drive system. The striking design – cubic and compact – fits perfectly with modern industrial design trends.

- **Geared motors power range**
  Lenze geared motors are available in a power range from 0.06 ... 45 kW.
- **Operational reliability for use in industrial applications**
  Even under harsh application conditions, the reliability of the motors is ensured by:
  – Insulation class F
  – IP 55
- **Options**
  Motor options can be supplied for motors from 0.37 ... 9.2 kW and with some limitations for 0.06 ... 0.25 and 11 ... 45 kW.
  – Spring-operated brake
  – Separate fan
  – Variants for thermal monitoring
  – Pluggable connectors
  – Speed/position encoder
  – Increased centrifugal mass
  – Handwheel
  – Second shaft end
  – Condensation drain holes
  – Protection cover
- **Drive controller compatibility**
  The double-coated wire winding with additional phase insulation provides extremely high dielectric strength and has excellent mechanical resistance.

Gearboxes

- **Compact**
  The modular concept and the high power density due to ground gears with optimised gear profiles make extremely compact designs possible.
- **Adaptable and compatible**
  Numerous input and output designs mean that Lenze gearboxes can be adapted to almost any drive task.
- **Easy to integrate**
  The highly functional housings enable Lenze gearboxes to be integrated easily into the machine environment.
- **Quiet**
  The optimum teeth geometry reduces the generation of noise.
- **Carefully stepped output speeds**
  The wide ratio range of the gearboxes combined with the small ratio step $\varphi = 1.12$ enables the required output speed range to be selected with precision.
- **Reduced play**
  The two-stage basic concept (helical-bevel gearboxes are three-stage), connecting elements with reduced play and the high quality of the toothing due to precision manufacturing results in reduced output backlash in comparison with similar geared motors.

Abbreviations used in this catalog

α		Angle of radial force
c		Load capacity of gearboxes/geared motors
d_w	[mm]	Effective diameter of the transmission element
$\cos_\varphi$		Power factor of the motor
$\cos_{\varphi N}$		Power factor for asynchronous motors
F_a	[N]	Applied axial force
F_a	[N]	Permissible axial force
$F_{a\,Tab}$	[N]	Table value of axial force
f_{ch}	[kHz]	Switching frequency
f_d	[Hz]	Field frequency
F_l		Mass acceleration factor
f_{max}	[Hz]	Set maximum frequency
f_r	[Hz]	Rated frequency
F_r	[N]	Applied radial force
$F_{r\,Tab}$	[N]	Table value of radial force
$F_{r\,perm}$	[N]	Permissible radial force
f_w		Additional load factor of applied radial force
f_α		Effective direction factor of applied radial force
f_z		Additional radial force factor of the transmission element
i		Transmission ratio
φ		Ratio step
η		Mechanical efficiency
I_0	[A]	Continuous standstill current
I_A	[A]	Motor starting current
I_{max}	[A]	Maximum output current
I_r	[A]	Rated current
I_{mains}	[A]	Rated mains current
J_{ext}	[kgm²]	Moment of inertia of the machine to be driven, reduced to the motor shaft
J_{load}	[kgm²]	Moment of inertia of the loaded machine
J_{mot}	[kgm²]	Moment of inertia of the motor
J_A	[kgm²]	Moment of inertia of the drive, reduced to the input shaft
J_B	[kgm²]	Moment of inertia of the brake
k		Application factor (according to DIN 3990)
L	[mH]	Inductance
m	[kg]	Mass
M_0	[Nm]	Continuous standstill torque
M_1	[Nm]	Input torque
M_2	[Nm]	Output torque
M_r	[Nm]	Rated torque
M_A	[Nm]	Motor starting torque
M_B	[Nm]	Holding torque of brake
M_{cont}	[Nm]	Continuous torque
M_{stall}	[Nm]	Stall torque of motor
M_I		Maximum torque factor
M_{max}	[Nm]	Maximum torque
M_{perm}	[Nm]	Permissible torque
n_1	[min^{-1}]	Input speed
n_2	[min^{-1}]	Output speed
n_r	[min^{-1}]	Rated speed
n_{max}	[min^{-1}]	Maximum speed
P_1	[kW]	Input power
P_2	[kW]	Output power
P_r	[kW]	Rated power
P_V	[kW]	Inverter power loss
R	[Ω]	Resistance
S_r	[kW]	Inverter output power
T_A	[°C]	Ambient temperature during operation
U_{DC}	[V]	DC bus voltage
U_r	[V]	Rated voltage
U_{mains}	[V]	Mains voltage

IP	International protection code
IEC	International Electrotechnical Commission
DIN	Deutsches Institut für Normung
VDE	Verband deutscher Elektrotechniker
USDA	United States Department of Agriculture
NEMA	National Electrical Manufacturers Association
AC	Alternating current/voltage
DC	Direct current/voltage
EMC	Electromagnetic compatibility
EN	European standard
CE	Communauté Européene
IM	International Mounting Code

General information about the data provided in this catalog

Ratings, torques and speeds

The ratings, torques and speeds specified in this catalog are rounded values and are valid under the following conditions:

- Running time/day = 8h (100% DT)
- Duty class I at 10 switching operations/h
- Mounting positions and models in this catalog
- Standard lubricant
- f_{mains} = 50 Hz constant
- T_{amb} = 20°C for gearboxes
  40°C for motors (in accordance with EN 60034)
- Installation height < = 1000 m above mean sea level
  The rated power specified for motors and geared motors applies to operating mode S1 in accordance with EN 60034.
  If your operating conditions differ, the values that can be obtained may deviate from those specified.
  If you are operating under extreme conditions, please contact your nearest Lenze representative.

Load capacity c of gearboxes

Parameter for the load capacity of Lenze gearboxes and geared motors.

- c is the ratio of the permissible rated torque of the gearbox to the rated torque supplied by the drive component (e.g. the built-in Lenze motor).
- The value of c must always be greater than the value of the operating factor k calculated for the application.

Operating factor k (corresponding to DIN 3990)

Takes into account the influence of temporally variable loads which are actually present during the anticipated operating time of gearboxes and geared motors.
k is determined by

- the type of load
- the load intensity
- temporal factors

We want to be sure that you receive the correct products in good time. In order to help us to do this, please make sure you provide complete ordering data. Use the checklist below and the order information to help you.

Checklist

In order to receive the correct products in good time, please provide the following information:

- Your address and ordering data
- Our product code for the individual products in this catalog
- Your delivery data, i.e. delivery date and delivery address

How to order

Please use this step-by-step guide and the fax form to ensure that you provide all the necessary information in the correct format. It makes ordering your tailor-made drive extremely easy:

- Make a copy of the fax order form.
  See Section 9.
- Enter the order data.
- Post or fax the form to your Lenze sales office.
  A list of Lenze sales offices can be found at the end of this catalog.

Delivery

- All products are packed appropriately and of course checked prior to delivery.

A step-by-step guide to ordering your drive

→ **Cross-reference**
→ Result

1. Dimension the drive system
→ **Dimensioning** section

2. Specify the type designation
→ **Product code, selection table**
→ Gearbox type, gearbox frame size, no. of stages
Example: GST 07-2
→ Drive design, motor frame size
Example: M, 090C32

3. Specify the ratio
→ **Selection table**
Example: i = 56.250

4. Specify the output end design
→ **Product code**
Drive dimensioning section, **Gearbox designs**
→ Solid shaft, housing with foot, without flange
Example: V, B, R

5. Specify the mounting position and position of system elements
→ **Product code**
Example: Mounting position A
Terminal box in position 5

6. Specify the colour
→ Drive dimensioning section, **Gearbox designs**
Example: Paint colour RAL 9018

7. Specify the gearbox options
→ Drive dimensioning section, **Gearbox designs**
Example: Gearbox with ventilation

8. Specify the motor options
→ **Motors** section
Example: Separate fan 3~
→ **Product code**
Example: Separate fan terminal box in position 2

A step-by-step guide to ordering your drive

[ ] Items i = **56.250**

GST 0 7 - [ ] 1 / [x] 2 / [ ] 3   [x] M / [ ] N / [ ] W   [x] V   [ ] A / [x] B / [ ] C   [x] R / [ ] K / [ ] L

Motor frame size: 0 9 0 C 3 2

Additional ordering data

Dimensions

[ ] K [ ] L

Flange a2 = [ ] mm

Mounting position

A	B	C	D	E	F
[x]	[ ]	[ ]	[ ]	[ ]	[ ]

Position of system elements

Terminal box

2	3	4	5
[ ]	[ ]	[ ]	[x]

Colour

Standard

GST 03: [ ] No paint (aluminium housing)

GST 04...14: [x] RAL 9018 paint (papyrus white)   [ ] Grey primer

Options

Ventilation

[x] Ventilation units for frame sizes 05...07

[ ] Compensator for frame sizes 09...14 in mounting position C

Motor options

Combination

[x] Separate fan

[ ] Brake + integral fan   [ ] Brake + separate fan

Separate fan

[ ] 1~   3~ [x]

Separate fan terminal box in position

2	3	4	5
[x]	[ ]	[ ]	[ ]

Drive dimensioning | G-motion const

Dimensioning

Gearbox version

Motor versions

How the duty cycle affects rated data

The operating mode is important when selecting a motor. For example, the temperature rise on a motor subject to short-term load will be lower than that on a motor subject to long-term load and can therefore be set to a lower value. Duty cycles S1 to S8 to EN 60034 apply.

Operation at increased power is possible in duty cycles other than S1. The table below contains guide values for increased power P_{perm} for operating modes S2, S3 and S6.

Continuous operation S1
The operating time at rated power is long enough for the machine to reach steady-state temperature. The motor operates continuously at rated power.

Short-term operation S2
In comparison with the subsequent pause, the operating time is too short for the machine to reach steady-state temperature. During the subsequent lengthy pause, the motor cools down to the initial temperature.

Intermittent operation S3, S4, S5
Cycles of the same type combine to form a sequence. The cycle time is usually 10 minutes.

- S3: The start-up current is not significant for the temperature rise of the motor.
- S4: The start-up current contributes to the temperature rise of the motor.
- S5: The start-up current and braking current contribute to the temperature rise of the motor.

Continuous operation with intermittent loading S6
The motor continues to be ventilated during the no-load phases, enabling it to cool down.

Uninterrupted operation with acceleration and braking S7
The motor runs almost without pauses.

Uninterrupted operation S8 with pole-changing
The machine runs constantly under load but with frequent speed variation.

Increased power in duty cycles S2, S3 and S6

Duty cycle S2		Duty cycle S3		Duty cycle S6	
Operating time [min]	$\frac{P_{perm}}{P_r}$	Operating time [%]	$\frac{P_{perm}}{P_r}$	Operating time [%]	$\frac{P_{perm}}{P_r}$
10	1.4 ... 1.5	15	1.4 ... 1.5	15	1.5 ... 1.6
30	1.15 ... 1.2	25	1.3 ... 1.4	25	1.4 ... 1.5
60	1.07 ... 1.1	40	1.15 ... 1.2	40	1.3 ... 1.4
90	1.0 ... 1.05	60	1.05 ... 1.1	60	1.15 ... 1.2

How the operating frequency affects rated data

Frequency f in Hz	Voltage $\frac{U}{U_r}$ in %	Power $\frac{P}{P_r}$ in %	Speed $\frac{n}{n_r}$ in %	Torque $\frac{M}{M_r}$ in %	Starting torque $\frac{M_A}{M_{Ar}}$ in %
50	100	100	100	100	100
60	100	100	120	83	70
60	120	120	120	100	100

Power derating

Effect of the installation height

How the installation height above mean sea level affects rated power				
H [m]	≤ 1000	2000	3000	4000
$\frac{P_h}{P_r}$	1	0.95	0.90	0.85

Effect of the ambient operating temperature

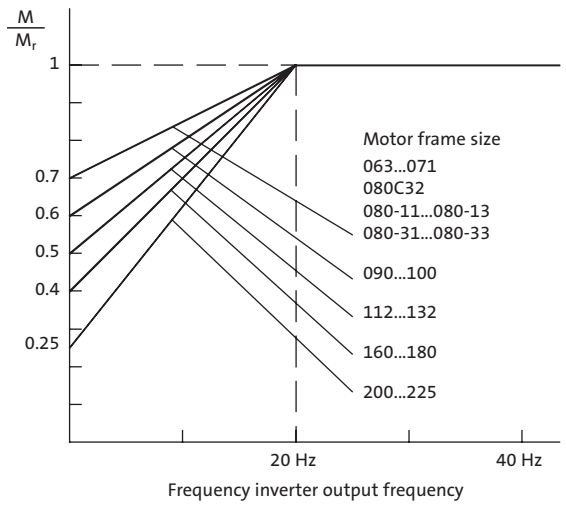
How the ambient operating temperature T_{amb} affects rated power					
T_{amb} [°C]	≤ 40	45	50	55	60
$\frac{P_\vartheta}{P_r}$	1	0.95	0.90	0.85	0.80

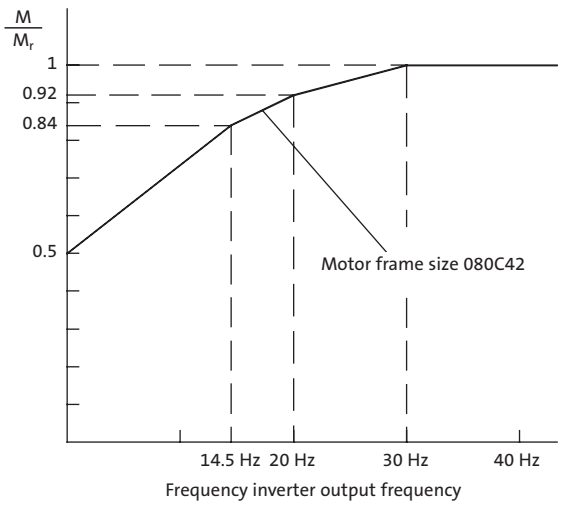
Calculating the derated power

$$P_{red} = \frac{P_h}{P_r} \cdot \frac{P_\vartheta}{P_r} \cdot P_r$$

Torque derating

Torque derating dependent upon motor frame size with self-ventilation and operation on frequency inverter





2

Thermal power limit

The permissible gearbox continuous power is restricted by:
- The mechanical rating, defined by the material strength of the individual components or
- The thermal power limit, defined by the heat balance.

The thermal power limit may be lower than the mechanical rating indicated in the selection tables.

The thermal power limit is determined by:
- Losses in the lubricant. These are determined by the mounting position and the circumferential speed of the gears.
- The load and the speed
- The ambient conditions: Temperature, air circulation, heat input or dissipation via shafts and the substructure.

Please contact Lenze
- If you are using the following gearbox model, size and ratio combinations at input speed n_1 > 1500 rpm:

Gearbox model	Gearbox sizes	Ratios i <=
Helical gearbox GST	07, 09, 11, 14	10
Shaft-mounted helical gearbox GFL	09, 11, 14	16
Helical-bevel gearbox GKS	09, 11, 14	25

... or if the input speeds n_1 listed are exceeded:

		Drive size		
Input design	M	063 ... 100	112 ... 132	160 ... 225
	N, W	□A ... □E	□F ... □G	□H ... □K
n_1 for mounting positions A, B, E, F		4000 rpm	3000 rpm	2000 rpm
n_1 for mounting positions C, D		3000 rpm	1500 rpm	1500 rpm

Possible ways of extending the field of operation

What to do	
Increase the permissible temperature range of the gearbox	▶ Synthetic lubricant (option) ▶ Shaft sealing rings made from FP material/Viton (option)
Reduce the power loss	▶ Synthetic lubricant (option) ▶ Reduce the amount of lubricant used
Increase the heat dissipation	▶ Possible air convection on the machine/system ▶ Fan cooling (for example pneumatic supply line of the driving motor) ▶ Oil cooling

1. Calculate the required load capacity

Work out the output torque $\mathbf{M_2}$ and speed $\mathbf{n_2}$ required

↓

Calculate the required motor power $P_1 = \frac{M_2 \cdot n_2}{9550 \cdot \eta}$

↓

Calculate the duty class:

↓

Duty class	Type of load	Intensity
I	Smooth running, minor or negligible shocks	$F_I \leq 1.25$
II	Irregular running, average shocks	$1.25 < F_I \leq 4$
III	Irregular running, major shocks and/or alternating loads	$F_I > 4$

F_I (geared motor) = $\frac{J_{ext} + J_{mot}}{J_{mot}}$

F_I (gearbox) = $\frac{J_{ext} + J_A}{J_A}$

↓

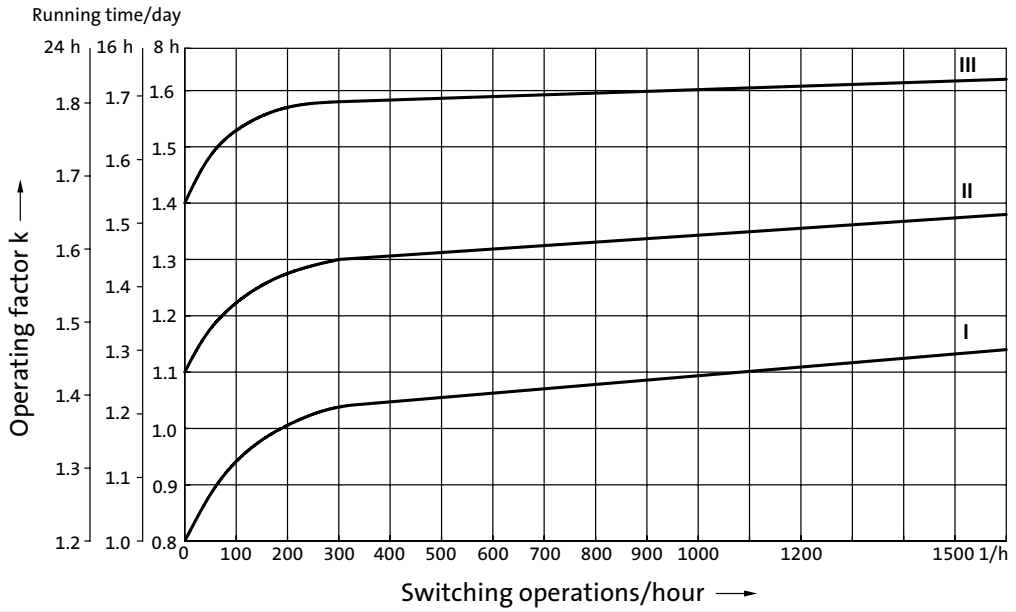
Calculate the temporal factors:

- Running time/day
- Switching operations/hour

↓

Use the diagram to determine the operating factor k of the machine

↓



↓

Requirement for geared motor: c (selection table) ≥ k

Requirement for gearbox: $M_{2\,perm}$ (selection table) ≥ $M_2 \cdot k$

2. Calculate the axial and radial forces applied to the gearbox shaft

Work out the axial and radial forces applied

Approximate calculation of radial forces:

↓

$$F_r = 2000 \cdot \frac{M_2 \cdot f_z}{d_{w\,[mm]}}$$

f_z	Transmission element
1.12	Gears
1.25 ... 1.4	Chain wheels
1.5	Toothed-belt pulleys
1.5 ... 2.0	Small V-belt pulleys depending on pretension

↓

Requirement:

- $F_{rperm} \geq F_r$
  (F_{rperm} taken from gearbox-specific data)
- $F_{aperm} \geq F_a$
  (F_{aperm} taken from gearbox-specific data)

General data

		GST	GFL	GKR	GKS	GSS
Housing	Version	Cuboid				
	Material	Aluminium/Cast iron				
Solid shaft	Version	With featherkey to DIN 6885				
	Tolerance	k6 (d ≤ 50 mm) m6 (d > 50 mm)				
	Material	Tempered steel C45/42CrMo4				
Hollow shaft	Version	– –	H: With keyway S: Smooth			
	Tolerance	–	Bore H7			
	Material	–	Tempered steel C45			
Toothed parts	Version	Optimised tooth flanks and profile geometry Ground tooth flanks				
	Material	Case hardened steel				
Shaft-hub connection		1st stage/prestage/helical (bevel) gearbox: Friction-type connection Output stage (= 2nd, 3rd or 4th stage): Friction-type or positive-fit connection				
Shaft sealing rings	Version	With dust protection lip				
	Material	NB/FP				
Bearings	Version	Ball bearing/tapered-roller bearing depending on size and version				
Lubricants	Version	In accordance with DIN 51502				
	Fill volumes	Depends on the mounting position ⇨ Operating Instructions				
Mechanical efficiency	At rated torque	0.95 ≤ η ≤ 0.97	0.95 ≤ η ≤ 0.97	0.95 ≤ η ≤ 0.96	0.92 ≤ η ≤ 0.95	0.75 ≤ η ≤ 0.90 ▶ Not dep. on transmiss. ratio ▶ At n_1 = 1400 rpm ▶ Housing at operating temperature and teeth run in
Noise		Does not exceed the emission values specified in VDI Guideline 2159				

Basic versions

Gearbox type	Gearbox size	No. of stages	Input design	Output design: Shafts [mm] Solid shaft	Hollow shaft	Hollow shaft with shrink disk	Housing: Foot mounting with centring and pitch circle	Foot mounting without centring	With centring and pitch circle	With pitch circle	Flange [mm]: Without flange	With flange (through holes)	With flange (threaded holes)	Possible combinations Housing with flange	Ventilation units	Lubricants: Mineral **CLP 460**	Lubricants: Synthetic **CLP PG 460**	Colour: Paint **RAL 9018** (papyrus white)	Colour: Grey primer
Product code			**V**	**H**	**S**	**A**	**B**	**C**	**D**	**R**	**K**	**L**							
GST	03	2	M N	14x28 20x40				▲	▲		▲	120/140 160		AR AL BR CR CK				1)	
	04	1	M N W	16x32				▲	▲		▲	120/140 160							
		2		20x40			▲	▲	▲		▲	120/140 160	120/140						
	05	1		20x40				▲	▲		▲	120/140 160/200							
		2/3		25x50			▲	▲	▲		▲	120/140 160/200	120/140 160			▲			
	06	1		25x50				▲	▲		▲	160/200						▲	▲
		2/3		30x60			▲	▲	▲		▲	160/200	160/200						
	07	1		30x60				▲	▲		▲	200/250							
		2/3		40x80			▲	▲	▲		▲	200/250	200/250						
	09	1		40x80				▲	▲		▲	250/300			▲				
		2/3		50x100			▲	▲	▲		▲	250/300	250/300		▲				
	11	2/3		60x120			▲	▲	▲		▲	300/350	300/350		▲				
	14	2/3		80x160			▲	▲	▲		▲	350/400	350/400		▲				
GFL	04	2	M N W	25x50	25/30	25/30	Feet in position 3 or 4 Centring and pitch circle in position 6	Feet in position 3 or 4 Pitch circle in position 6	Centring and pitch circle in position 6	Pitch circle in position 6	▲	160		AR BR CR CK DR		▲		▲	▲
	05	2/3		30x60	30/35	35					▲	200							
	06	2/3		40x80	40/45	40					▲	200 only on H+S 250							
	07	2/3		50x100	50/55	50					▲	250/300							
	09	2/3		60x120	60/70	65					▲	350			▲				
	11	2/3		80x160	70/80	80					▲	400/450			▲				
	14	2/3		100x200	100	100					▲	450			▲				
GKR	03	2	M N	20x40	18/20	20	Feet in position 4+6 Centring and pitch circle in position 3+5	Feet in position 4+6 Pitch circle in position 3+5			▲	110/120		AR BR AK		▲		1)	
	04	2		20x40	20/25	20					▲	120/160						2)	2)
	05	2		30x60	30/35	30/35					▲	160/200							
	06	2		35x70	40/45	40					▲	200/250						▲	▲
GKS	04	3	M N W	25x50	25/30	25/30	Feet in position 2+4+6 Centring and pitch circle in position 3+5	Feet in position 2+4+6 Pitch circle in position 3+5			▲	160		AR BR AK		▲		▲	▲
	05	3/4		30x60	30/35	35					▲	200							
	06	3/4		40x80	40/45	40					▲	200 only on H+S 250							
	07	3/4		50x100	50/55	50					▲	250/300							
	09	3/4		60x120	60/70	65					▲	350			▲				
	11	3/4		80x160	70/80	80					▲	400/450			▲				
	14	3/4		100x200	100	100					▲	450			▲				
GSS	04	2	M N W	25x50	25/30	25/30	Feet in pos. 2+4+6 Centring and pitch circle in position 3+5	Feet in pos. 2+4+6 Pitch circle in position 3+5			▲	160		AR BR AK			▲	▲	▲
	05	2/3		30x60	30/35	35					▲	200							
	06	2/3		40x80	40/45	40					▲	200 only on H+S 250							
	07	2/3		50x100	50/55	50					▲	250/300							

[1] Without painting (aluminium housing)
[2] Without painting / primer (aluminium housing) for version “Drive M”

Options

Gearbox type	Gearbox size	No. of stages	Input design	Shaft: 2nd solid shaft end	Shaft: Reinforced shaft bearing	Shaft: Shaft sealing ring FP (Viton)	Options: Rubber buffer set	Options: Torque plate on pitch circle	Options: Torque plate on housing foot	Options: Hollow shaft jet-proof cover	Options: Shrink disc cover	Options: Ventilation units	Options: Reservoir (ventilation) for mounting position C	Lubricants: Synthetic CLP HC 320	Lubricants: Food-compatible CLP HC 220	Colour: Special paint to RAL number	Colour: Grey primer
Product code				V													
GST	03	2	M N														▲
	04	1															
		2			▲												
	05	1										▲					
		2/3			▲							▲					
	06	1	M			▲						▲		▲	▲	▲	
		2/3	N		▲							▲					
	07	1	W									▲					
		2/3			▲							▲					
	09	1															
		2/3			▲								▲				
	11	2/3			1)								▲				
	14	2/3			1)								▲				
GFL	04	2															
	05	2/3										▲					
	06	2/3	M									▲					
	07	2/3	N		2)	▲	▲				▲	▲		▲	▲	▲	
	09	2/3	W										▲				
	11	2/3											▲				
	14	2/3											▲				
GKR	03	2					▲	▲									▲
	04	2	M				▲	▲									
	05	2	N	▲		▲		▲	▲	▲	▲			▲	▲	▲	▲
	06	2						▲	▲								4)
GKS	04	3						▲									
	05	3/4						▲				▲					
	06	3/4	M					▲				▲					
	07	3/4	N	▲	2)	▲		▲	▲	▲	▲	▲		▲	▲	▲	
	09	3/4	W										▲				
	11	3/4											▲				
	14	3/4											▲				
GSS	04	2	M									▲					
	05	2/3	N	▲	2)	▲		▲	▲	▲	▲	▲			3)	▲	
	06	2/3	W									▲					
	07	2/3													▲		

1) Standard bearing

2) On request

3) Torque derating required: M_2 perm. = M_2 * 0.8

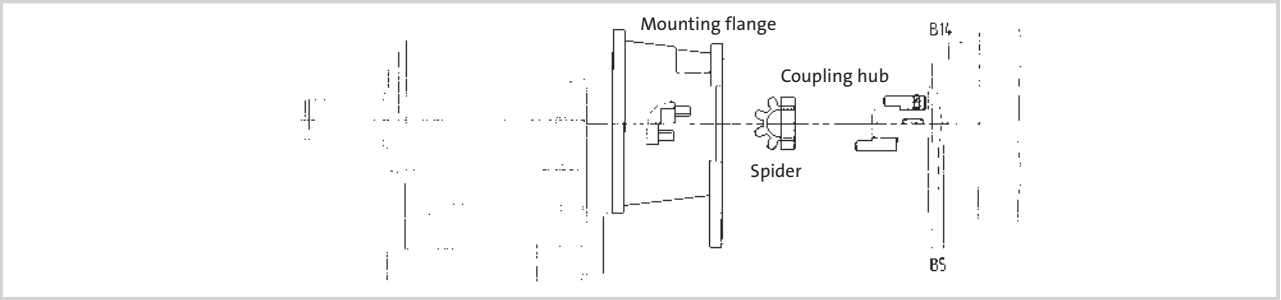
4) For version “drive N” basic design

Gearboxes with mounting flange Version N

Mounting flange:
- Flange dimensions suitable for motors to IEC 72/DIN 42948
- Shaft in two bearings
- Gearbox half-coupling integrated into the shaft

Spider (coupling element):
- Torsionally stiff
- Angle-synchronous
- Reduced backlash (no backlash with clamping hub/ clamping ring hub)

Coupling hub:
- Standard: Coupling hub with keyway for motor shafts to IEC
- Optional coupling hubs for frequent shocks and alternating load or reduced coupling backlash:
  – Clamping hub with tangenital clamping screw for motor shafts with keyway, no backlash
  – Clamping hub with tangential clamping screw for motor shafts with featherkey, no backlash



Geometric assignments for motors

See the selection tables for gearboxes with mounting flanges for the permissible input ratings and output torques.

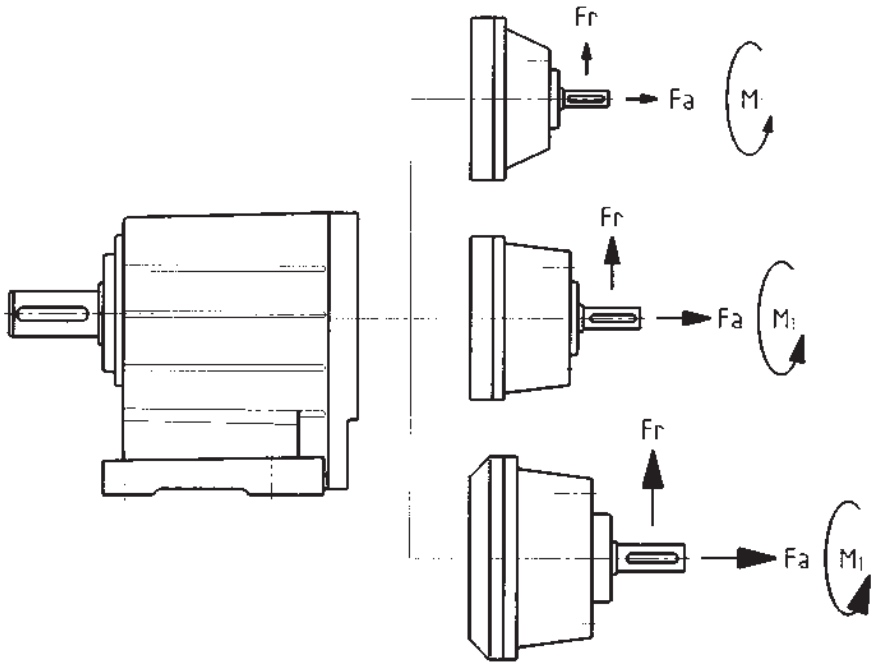
Lenze Drive size	IEC motors		Lenze Servo motors		Lenze DC motors		Coupling hub		Dimensions Mounting flange			Motor shaft		
	Size	Design	Size	Design	Size	Design	Standard clamping hub	Clamping ring hub	Flange size a3	Pitch circle e3	Centring b3	d	l_{min}	l_{max}
1A	63	B14	MD□K□ 036	B5			▲	▲	C90	75	60	11	23	23
1B	71	B14	MD□K□ 056	B14			▲	▲	C105	85	70	14	30	30
2B	63	B14	MD□K□ 036	B5			▲	▲	C90	75	60	11	23	23
1C	80	B14	MD□K□ 071	B14/B5	MGFQ□ 63	B34	▲	▲	C160	130	110	19	25	40
2C							▲	▲	C160	130	110	14	25	40
3C	71	B14	MD□K□ 056	B14			▲	▲	C105	85	70	14	25	40
4C	71	B14	MD□K□ 056	B5			▲	▲	C120	100	80	14	25	40
1D	90	B14	MD□KA 080 MD□KA 090	B14	MGFRK 90 MGFQ□ 80	B14 B34	▲		C160	130	110	24	50	50
2D	80	B14	MD□K□ 071	B14/B5	MGFQ□ 63	B34	▲	▲	C160	130	110	19	40	50
1E	100 112	B14	MD□KA 100	B14	MGFRK 100 MGFRK 112 MGFQ□ 100	B14 B14 B34	▲	▲	C160	130	110	28	30	60
2E	90	B14	MD□KA 080 MD□KA 090	B14	MGFRK 90 MGFQ□ 80	B14 B34	▲	▲	C160	130	110	24	30	60
3E	80	B14	MD□K□ 071	B14/B5	MGFQ□ 63	B34	▲	▲	C160	130	110	19	30	60
1F	100 112	B14	MD□KA 100	B14	MGFRK 100 MGFRK 112 MGFQ□ 100	B14 B14 B34	▲	▲	C160	130	110	28	30	60
2F	90	B14	MD□KA 080 MD□KA 090	B14	MGFRK 90 MGFQ□ 80	B14 B34	▲	▲	C160	130	110	24	30	60
1G	132	B5	MD□KA 112 MDFQA 100 MDFQA 112	B5 B5 B35	MGFRK 132 MGFQ□ 112 MGFQ□ 132	B5 B35 B35	▲	▲	A300	265	230	38	80	80
2G	100/112	B5	MD□KA 100	B5	MGFQ□ 100	B35	▲	▲	A250	215	180	28	60	60
3G			MD□KA 112 MDFQA 110	B5 B5			▲	▲	A250	215	180	38	80	80
1H	160	B5			MGFRK 160	B5	▲		A350	300	250	42	110	110
2H	180	B5			MGFRK 180	B5	▲		A350	300	250	48	110	110
3H	132	B5	MD□KA 112 MDFQA 100 MDFQA 112	B5 B5 B35	MGFRK 132 MGFQ□ 112 MGFQ□ 132	B5 B35 B35	▲	▲	A300	265	230	38	80	80
1K	200	B5	MDFQA 132	B5	MGFRK 200 MGFQ□ 160	B5	▲		A400	350	300	55	110	110
2K	225	B5			MGFRK 225	B5	▲		A450	400	350	60	140	140

Dimensions in [mm]

Gearboxes with free input shaft Version W

Possible combinations
Various drive sizes are available for selection for every gearbox size (except for GST 03, GKR).
They differ in terms of:

- Transferrable torque
- Permissible radial and axial forces
- Shaft geometry
- The modified overall dimensions of the gearbox (see dimension drawings)



Lenze Drive size	Input shaft	
	d	l
1A	14	35
1B	14	35
1C	14	40
1D	19	50
1E	24	60
1F	28	80
1G	38	100
1H	42	110
1K	48	110

Dimensions in [mm]

Gearboxes with ventilation

Gearbox sizes 03 to 07
Ventilation does not need to be provided on size 03/04 and GKR 05/06 gearboxes.

If you are using gearbox sizes 05 to 07 you will not need to provide special means of ventilation in most cases. In borderline cases, e.g. at input speeds > 2000 rpm we recommend the use of ventilation units, which we can supply separately.

Gearbox sizes 09 to 14
Ventilation units are always supplied with these gearbox sizes.

Special precautions for mounting position C (motor on top)
We recommend the use of an oil compensation reservoir for gearbox sizes 09 to 14 in this mounting position.

See the Technical data, Ventilation section for diagram and dimensions. This product can be ordered separately. It is not required at high ratios or low input speeds.

Please contact Lenze if this affects your application.

Lubricants

Lenze gearboxes and geared motors are supplied ready for operation containing drive-specific and type-specific lubricant. The lubricant delivered with the product will have been taken from the column for the relevant Lenze unit. When ordering your product, please specify the mounting position and design as this will determine the amount of lubricant.

We would like to draw your attention to the fact that if Lenze recommends an oil/grease or includes it in a Lenze lubricants table, this does not make Lenze liable in any way for any damage due to incompatibilities with the materials used.

The lubricants listed in the lubricants table on the following page may be used for Lenze drives. Special lubricants have to be used e. g. in the event of long-term storage or extraordinary operating conditions.

Please note the following key for the lubricant table when selecting lubricants:

CLP = Mineral oil

CLP PG = Polyglycol oil

CLP HC = Synthetic hydrocarbons/poly-alpha-olefin oil

CLP E = Diester oil (water pollution class WGK 1)

1) = Currently, we do not have any performance test data for the lubricants listed for lubricating worm gearboxes. When using these oils, the permissible torque values in the catalog should be reduced by 20%.

2) = Polyglycol oil cannot be mixed with other types of oil.

3) = At ambient temperatures above 40°C, please contact Lenze to discuss the exact application conditions.

4) = Note critical starting performance at low temperatures. At temperatures below -25°C, special measures are required for the motor bearing and NBR shaft sealing rings.

 = Food-compatible oil (approved to USDA-H1)

 = Bio oil (lubricant for forestry, farming and water management) (water pollution class 1)

 = Low-temperature oils, note critical starting performance at low temperatures

= Lenze lubricants used during factory assembly

Lubricant table

	Ambient temperature -50 0°C +50	DIN 51517-3: CLP ISO 12925-1: CKC/CKD		GST, GFL, GKS, GKR	GSS
Shell	0 +40	CLP	VG 460	Omala 460	
	-25 +50 3)	CLP HC	VG 320	Omala HD 320	
	-10 +50 3)	CLP HC	VG 460	Cassida Fluid GL 460	
	-20 +40	CLP HC	VG 220	Cassida Fluid GL 220	
	-20 +40	CLP PG	VG 220		Tivela S 220 2)
	-20 +40	CLP PG	VG 460		Tivela S 460 2)
	-40 0 4)	CLP HC	VG 46	Cassida HF 46	
	-20 +40	CLP PG	VG 320		Cassida Fluid WG 320 1) 2)
	-20 +50 3)	CLP E	VG 320	Omala EPB 320	Omala EPB 320 1)
Klüber	0 +40	CLP	VG 460	Klüberoil GEM1 460	
	-25 +50 3)	CLP HC	VG 320	Klübersynth EG 4-320	
	-20 +40	CLP PG	VG 460		Klübersynth GH 6-460 2)
	-20 +40	CLP PG	VG 220		Klübersynth GH 6-220 2)
	-30 0 4)	CLP PG	VG 32		Klübersynth GH 6-32 1) 2)
	-40 0 4)	CLP HC	VG 46	Klüber Summit HySyn FG-46	
	-20 +40	CLP HC	VG 220	Klüberoil 4 UH1-220 N	
	-20 +40	CLP PG	VG 320		Klübersynth UH1 6-320 1) 2)
	-20 +50 3)	CLP E	VG 320	Klübersynth GEM 2-320	Klübersynth GEM 2-320 1)
FUCHS	-25 +50 3)	CLP HC	VG 320	Renolin Unisyn CLP 320	
	-20 +40	CLP E	VG 320	Plantogear 320 S	Plantogear 320 S 1)
	-20 +40	CLP PG	VG 460		Renolin PG 460 1) 2)
	0 +40	CLP	VG 460	Renolin CLP 460	
ARAL	-10 +50 3)	CLP HC	VG 460	Eural Gear 460	
	-25 +40	CLP HC	VG 220	Eural Gear 220	
	-20 +40	CLP PG	VG 460		Degol GS 460 1) 2)
	0 +40	CLP	VG 460	Degol BG 460	
	-25 +50 3)	CLP HC	VG 320	Degol PAS 320	
Eni	0 +40	CLP	VG 460	Blasia 460	
	-25 +50 3)	CLP HC	VG 320	Blasia SX 320	
	0 +40	CLP	VG 460	Energol GR-XP 460	
	-20 +50 3)	CLP HC	VG 320	Enersyn HTX 320	
Castrol	0 +40	CLP	VG 460	Alpha MW 460	
	0 +40	CLP	VG 460	Alpha SP 460	
	-20 +40	CLP PG	VG 460	Alpha PG 460 2)	Alpha PG 460 1) 2)
DEA	0 +40	CLP	VG 460	Falcon CLP 460	
	-20 +40	CLP PG	VG 460		Polydea PGLP 460 1) 2)
	-20 +50 3)	CLP E	VG 320	Ergon ELP 320	Ergon ELP 320 1) 2)
Esso	0 +40	CLP	VG 460	Spartan EP 460	
	-20 +40	CLP PG	VG 460		Glycolube 460 1) 2)
	-25 +50 3)	CLP HC	VG 320	Spartan Synthetic EP 320	
Mobil	0 +40	CLP	VG 460	Mobilgear 634	
	-20 +40	CLP PG	VG 460		Mobil Glygoyle HE 460 1) 2)
	-20 +50 3)	CLP HC	VG 320	Mobilgear SHC XMP 320	
LUBCON	0 +40	CLP	VG 460	Turmogearoil 460 OM	
	-25 +50 3)	CLP HC	VG 320	Turmofluid GV 320	
	-20 +40	CLP PG	VG 460		Turmopoloil 460 EP 1)
	-20 +40	CLP PG	VG 220		Turmopoloil 220 EP 1)
	-40 0 4)	CLP HC	VG 46	Turmofluid GV 46	
	-20 +40	CLP HC	VG 220	Turmosynthoil GV 220	
	-20 +40	CLP PG	VG 460		Turmosynthoil PG 460 1) 2)
	-20 +50 3)	CLP E	VG 320	Turmofluid Biolube CLP 320	Turmofluid Biolube CLP 320 1)
	0 +40	CLP	VG 460	Optigear BM 460	
	-25 +50 3)	CLP HC	VG 320	Optigear Synthetic A 320	
Tribol	0 +40	CLP	VG 460	Tribol 1100/460	
	-20 +40	CLP PG	VG 460		Tribol 800/460 1) 2)
	-25 +40	CLP HC	VG 320	Tribol 1510/320	
	-20 +40	CLP	VG 220	Food Proof 1810/220	
	-20 +50 3)	CLP PG	VG 460		Food Proof 1800/460 1) 2)

Roller bearing grease

The roller bearings on Lenze motors and gearboxes are filled with the following greases in the factory:

	Ambient temperature	Manufacturer	Type
Gearbox roller bearings GST, GFL, GKS, GKR	-30 ... +50 °C -30 ... +80 °C -40 ... +60 °C	Fuchs Klüber Klüber	Renolit H 443 Petamo 133N Microlube GHY 72
Gearbox roller bearings GSS	-30 ... +80 °C -15 ... +60 °C	Klüber Klüber	Petamo 133N Klüberplex BE 11-462
Motor roller bearings	-30 ... +70 °C	Lubcon	Thermoplex 2TML
	-40 ... +80 °C	Klüber	Asonic GHY 72
Special greases for gearbox roller bearings			
Low-temperature grease, note critical starting performance at low temperatures	-40 ... +80 °C	Klüber	Asonic GHY 72
Bio grease (lubricant for forestry, farming and water management)	-40 ... +50 °C	Fuchs	Plantogel 0120S

General data

Standards	The motors meet the requirements of applicable DIN and IEC standards EC conformance to Low Voltage Directive
Operating mode	Designed for duty cycle S1 (continuous operation with constant load at rated power)
Enclosure	IP55 (self-ventilated)
Thermal class (EN 60034)	Insulation system to thermal class F Utilisation to thermal class B
Insulation resistance	Maximum voltage amplitude $\hat{U}$ = 1.5 kV Maximum rate of voltage rise du/dt = 5 kV/µs
Temperature monitoring	Temperature sensor (NC contact)
Temperature range	-20 ... +40°C without power derating
Installation height	Up to 1000 m amsl without power derating
Terminal box	Motor connection to terminal board, accessory connections on terminal block, brake rectifier can be integrated into terminal box
Bearing	Deep-groove ball bearing with 2 caps

Basic versions

Versions \ Motor frame size	063		071	080	090	100	112	132	160	180	200	225
4-pole	063C02 063C22	063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22 112C32	132C22 132C32	160-22 160-32	180-22 180-32	200N32	225N12 225N22
Mech. integrated into Lenze gearbox	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		
Cooling												
Integral fan		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Self-ventilated	▲											
Enclosure												
IP 55	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Motor protection												
Thermal class F	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Temperature sensor: thermal contact (NC contact)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Motor connection												
Terminal box	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

Options (note possible combinations)

Cooling												
Separate fan	Not required for inverter operation	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Motor protection												
Temperature sensor PTC thermistor	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Continuous temperature sensor	KTY	KTY	KTY	KTY	KTY	KTY	KTY	KTY	KTY	KTY	KTY	KTY
Motor connection												
starttec motor starter		▲ [1)]	▲	▲	▲	▲	▲					
ICN connector (motor without additional options)	▲	▲	▲	▲	▲	▲	▲					
Holding systems												
Spring-operated brake Mains or 24 V DC connection	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Speed/position encoder												
Resolver	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		
Incremental encoder	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		
Additional options												
Increased centrifugal mass (cast iron fan)			▲	▲	▲	▲	▲	▲				
Handwheel			▲	▲	▲	▲	▲	▲				
Condensation drain hole	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Protection cover for integral fan			▲	▲	▲	▲	▲	▲	▲			
Protection cover for separate fan		▲	▲	▲	▲	▲	▲	▲	▲			
2nd shaft end (acc. to definition)			▲	▲	▲	▲	▲	▲				

[1)] Only for motor frame size 063C42

Possible combinations for options

Possible combinations \ Motor frame size	063C02 063C22	063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22 112C32	132C22 132C32	160-22 160-32	180-22 180-32	200N32	225N12 225N22
Separate fan		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Brake	▲											
Brake + integral fan		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Brake + separate fan		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Brake + centrifugal mass (integral fan)			▲	▲	▲	▲	▲	▲				
Brake + integral fan + handwheel/ 2nd shaft end			▲	▲	▲	▲	▲	▲				
Brake* + speed/pos. encoder		▲										
Brake* + speed/pos. encoder + integral fan		▲	▲	▲ 1)	▲ 1)	▲ 1)	▲ 1)	▲ 1)				
Brake* + speed/pos. encoder + separate fan		▲	▲	▲	▲	▲	▲	▲	▲	▲		
Speed/ position encoder	▲											
Speed/ position encoder + integral fan		▲	▲	▲	▲	▲	▲	▲	▲			
Speed/ position encoder + separate fan		▲	▲	▲	▲	▲	▲	▲	▲	▲		
Integral fan + handwheel/ 2nd shaft end			▲	▲	▲	▲	▲	▲				
Centrifugal mass (integral fan)			▲	▲	▲	▲	▲	▲				
Centrifugal mass (integral fan) + handwheel/ 2nd shaft end			▲	▲	▲	▲	▲	▲				

1) On request

* Brake in low-noise design

Basic versions

Versions \ Motor frame size	063	071	080	090	100	112	132
2-pole	063-11 063-31	071-11 071-31	080-11 080-31	090-11 090-31	100-31 100-41	112-31 112-41	132-21
6-pole		071-13 071-33	080-13 080-33				
Mech. integrated into Lenze gearbox	▲	▲	▲	▲	▲	▲	▲
Cooling							
Integral fan	▲	▲	▲	▲	▲	▲	▲
Enclosure							
IP 55	▲	▲	▲	▲	▲	▲	▲
Motor protection							
Thermal class F	▲	▲	▲	▲	▲	▲	▲
Temperature sensor: thermal contact (NC contact)	▲	▲	▲	▲	▲	▲	▲
Motor connection							
Terminal box	▲	▲	▲	▲	▲	▲	▲

Options (note possible combinations)

Cooling							
Separate fan	▲	▲	▲	▲	▲	▲	▲
Motor protection							
Temperature sensor PTC thermistor	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Continuous temperature sensor	KTY	KTY	KTY	KTY	KTY	KTY	KTY
Motor connection							
starttec motor starter		▲	▲	▲	▲		
ICN connector (motor without additional options)	▲	▲	▲	▲	▲	▲	
Holding systems							
Spring-operated brake Mains or 24 V DC connection	▲	▲	▲	▲	▲	▲	▲
Speed/position encoder							
Resolver	▲	▲	▲	▲	▲	▲	▲
Incremental encoder	▲	▲	▲	▲	▲	▲	▲
Additional options							
Increased centrifugal mass (cast iron fan)		▲	▲	▲	▲	▲	▲
Handwheel		▲	▲	▲	▲	▲	▲
Condensation drain hole	▲	▲	▲	▲	▲	▲	▲
Protection cover for integral fan		▲	▲	▲	▲	▲	▲
Protection cover for separate fan	▲	▲	▲	▲	▲	▲	▲
2nd shaft end (acc. to definition)		▲	▲	▲	▲	▲	▲

Possible combinations for options

Possible combinations \ Motor frame size	063-11 063-31	071-11 071-31 071-13 071-33	080-11 080-31 080-13 080-33	090-11 090-31	100-31 100-41	112-31 112-41	132-21
Separate fan	▲	▲	▲	▲	▲	▲	▲
Brake + integral fan	▲	▲	▲	▲	▲	▲	▲
Brake + separate fan	▲	▲	▲	▲	▲	▲	▲
Brake + centrifugal mass (integral fan)		▲	▲	▲	▲	▲	▲
Brake + integral fan + handwheel/ 2nd shaft end		▲	▲	▲	▲	▲	▲
Brake* + speed/pos. encoder + separate fan	▲	▲	▲	▲	▲	▲	▲
Speed/ position encoder + integral fan	▲	▲	▲	▲	▲	▲	▲
Speed/ position encoder + separate fan	▲	▲	▲	▲	▲	▲	▲
Integral fan + handwheel/ 2nd shaft end		▲	▲	▲	▲	▲	▲
Centrifugal mass (integral fan)		▲	▲	▲	▲	▲	▲
Centrifugal mass (integral fan) + handwheel/ 2nd shaft end		▲	▲	▲	▲	▲	▲

* Brake in low-noise design

Configuration aid

Option		Function	Possible applications
Cooling	Separate fan	Operation at rated torque at low speeds	▶ Wide operational speed range with rated torque
Motor protection	Thermal contact NC contact	Protects the motor against thermal overload	▶ Monitoring the motor winding temperature ▶ Switching a motor relay
	Temperature sensor PTC thermistor/PTC	Protects the motor against thermal overload	▶ PTCs operate in conjunction with a control unit ▶ Unlike the thermal contact, can be reset quickly.
	Continuous temperature sensor KTY	Protects the motor against thermal overload	▶ Measuring the temperature of the motor winding
Motor connection	ICN connector	Geared motor connection via a pluggable connector	▶ The motor can be replaced/dismantled more quickly and easily
Holding systems	Spring-operated brake	Brakes the motor	▶ Decelerating loads ▶ Holding loads ▶ Braking torque available in de-energised state
Additional options	Condensation drain hole	Drains condensation	▶ Operation in extreme climatic conditions ▶ Outdoor installation
	Protection cover	Protects against foreign matter falling into the fan cover	▶ Protecting the air inlet opening against foreign matter if the drive is installed vertically with the motor shaft downwards

Helical gearboxes | G-motion const

Technical data

Selection tables

Dimensions

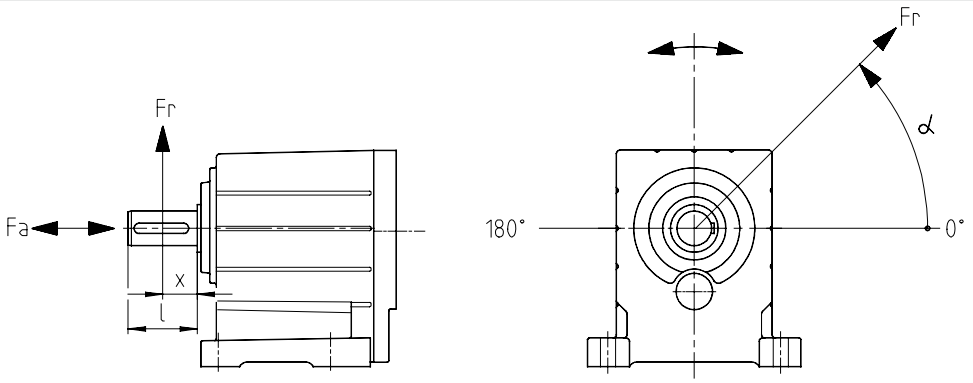
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

Permissible axial force

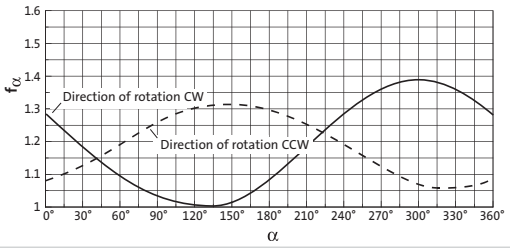
$F_{a_{perm}} = F_{a_{Tab}}$ if $F_r = 0$

Contact Lenze if F_r **and** $F_a \neq 0$



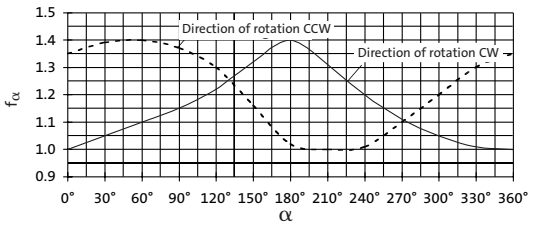
f_α Effective direction factor f_α at output shaft

1-stage helical gearbox GST □□-1



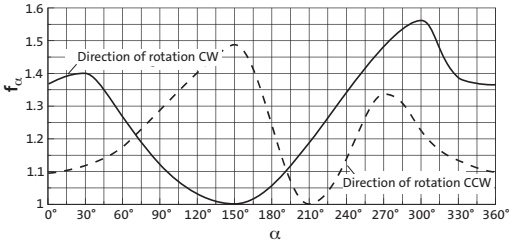
f_α Effective direction factor f_α at output shaft

2-stage helical gearbox GST 03 - 2



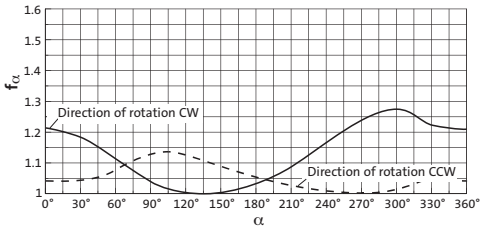
f_α Effective direction factor f_α at output shaft

2 and 3-stage helical gearbox GST 04...09 - 2, 3



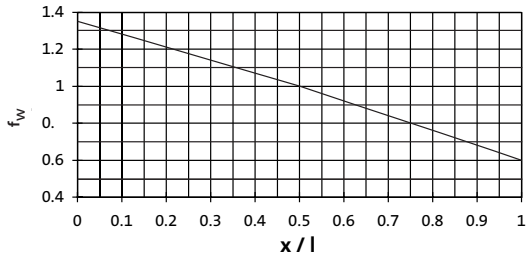
f_α Effective direction factor f_α at output shaft

2 and 3-stage helical gearbox GST 11...14 - 2, 3

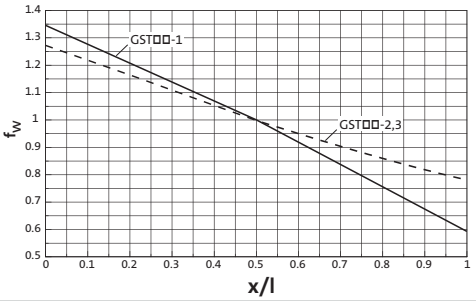


f_w Additional load factor f_w at output shaft

2-stage helical gearbox GST 03 - 2



f_w Additional load factor f_w at output shaft



GST □□-1

V □□	Application of force F_r: Centre of shaft journal (x = l/2) F_{aTab} only valid for F_r = 0									
	GST 04		GST 05		GST 06		GST 07		GST 09	
n_2 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
1000	440	1000	550	1400	800	1500	1200	2000	2500	4300
600	600	1300	750	2000	800	2000	1300	2700	2500	5700
400	850	1400	1400	2000	1100	2500	1900	3300	3500	6800
200	1050	1400	2000	2000	2200	2500	3000	3700	6200	7000
125	1050	1400	2300	2000	2900	2500	3900	3700	7900	7000
80	1050	1400	2300	2000	3500	2500	4700	3700	9000	7000
≤ 50	1050	1400	2300	2000	3500	2500	5300	3700	9500	7000
$F_{r\,max.}$	1050	–	2300	–	3500	–	5300	–	9500	–

GST □□-2, 3 with standard bearing

V □□	Application of force F_r: Centre of shaft journal (x = l/2) F_{aTab} only valid for F_r = 0															
	GST 03		GST 04		GST 05		GST 06		GST 07		GST 09		GST 11		GST 14	
n_2 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	630	600	1250	1100	1950	2000	2350	850	3400	1900	6800	2300	17000	9500	24000	15000
250	710	700	1450	1300	2200	2300	2600	900	3800	2200	7600	2800	19000	10000	27000	16000
160	800	800	1700	1650	2600	2650	3100	1250	4500	2900	9400	4000	21000	11000	31000	18000
100	920	900	2100	2000	3000	3100	3600	1800	5400	3900	11500	5600	21000	14000	36000	20000
63	1100	1000	2500	2000	3500	3600	4300	2600	6400	5300	11500	8900	21000	16000	39000	20000
40	1400	1000	2650	2000	3800	3600	4350	3600	7600	7000	11500	11000	21000	16000	40000	20000
25	1500	1000	2650	2000	3900	3600	4350	4800	9100	7000	11500	12000	21000	16000	40000	20000
≤ 16	1500	1000	2650	2000	3900	3600	4350	4800	9500	7000	11500	12000	21000	16000	40000	20000
$F_{r\,max.}$	1500	–	2650	–	3900	–	4350	–	9500	–	11500	–	21000	–	40000	–

GST □□-2, 3 with reinforced bearing

V □□	Application of force F_r: Centre of shaft journal (x = l/2) F_{aTab} only valid for F_r = 0											
	GST 04		GST 05		GST 06		GST 07		GST 09		GST 11	GST 14
n_2 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]		
400	2850	1700	4900	3600	6300	3500	8500	5500	16500	8000	The standard bearing is a reinforced bearing.	
250	3150	1900	5400	3900	7000	3600	9500	6100	17000	9000		
160	3550	2200	5400	4300	7700	4200	10500	7100	17000	10500		
100	3750	2500	5400	4500	7700	4900	12500	8300	17000	12500		
63	3750	2500	5400	4500	7700	5700	13000	9000	17000	14000		
40	3750	2500	5400	4500	7700	5700	13000	9000	17000	14000		
25	3750	2500	5400	4500	7700	5700	13000	9000	17000	14000		
≤ 16	3750	2500	5400	4500	7700	5700	13000	9000	17000	14000		
$F_{r\,max.}$	3750	–	5400	–	7700	–	13000	–	17000	–		

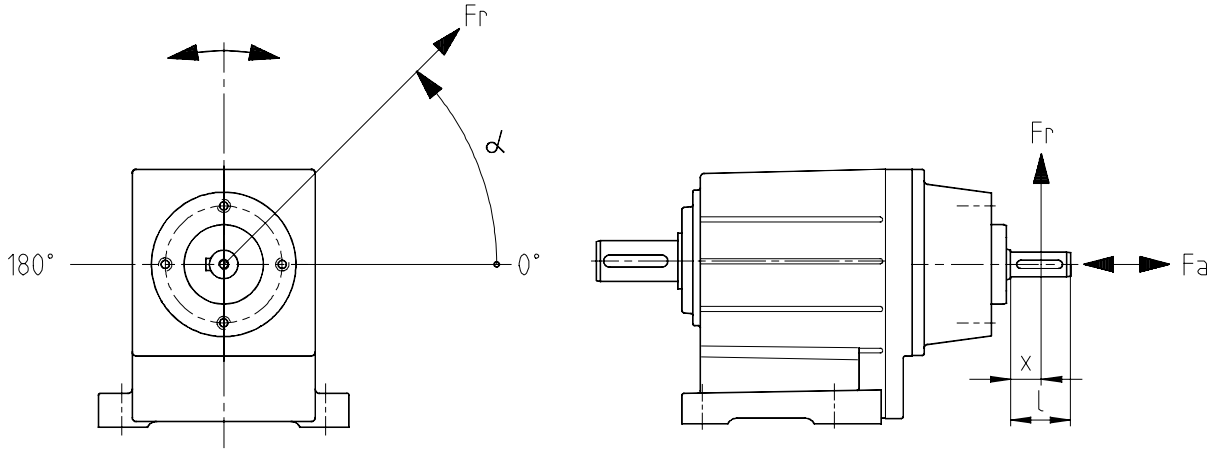
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

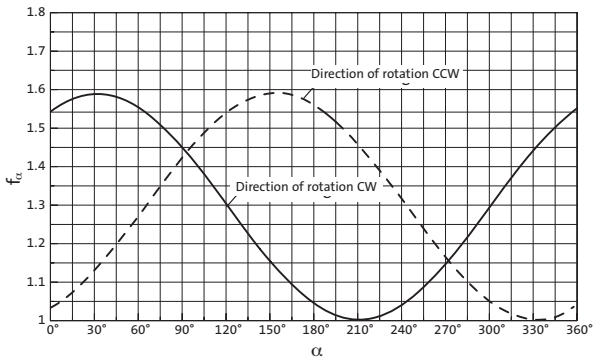
Permissible axial force

$F_{a_{perm}} = F_{a_{Tab}}$ at $F_r = 0$

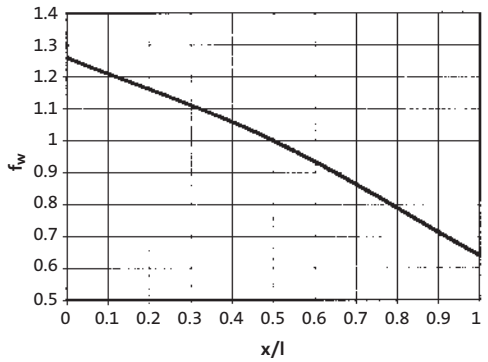
Contact Lenze if F_r **and** $F_a \neq 0$



f_α Effective direction factor at input shaft



f_w Additional load factor at input shaft

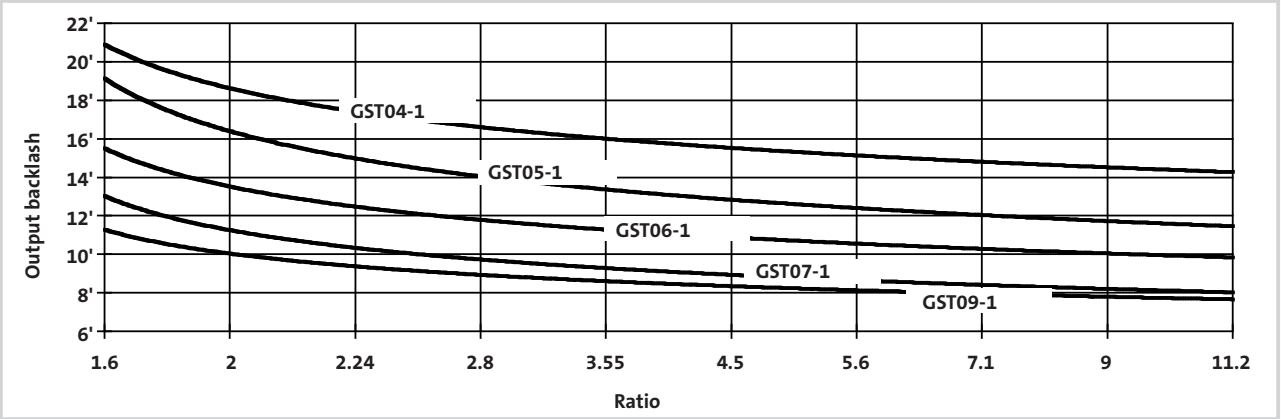


W

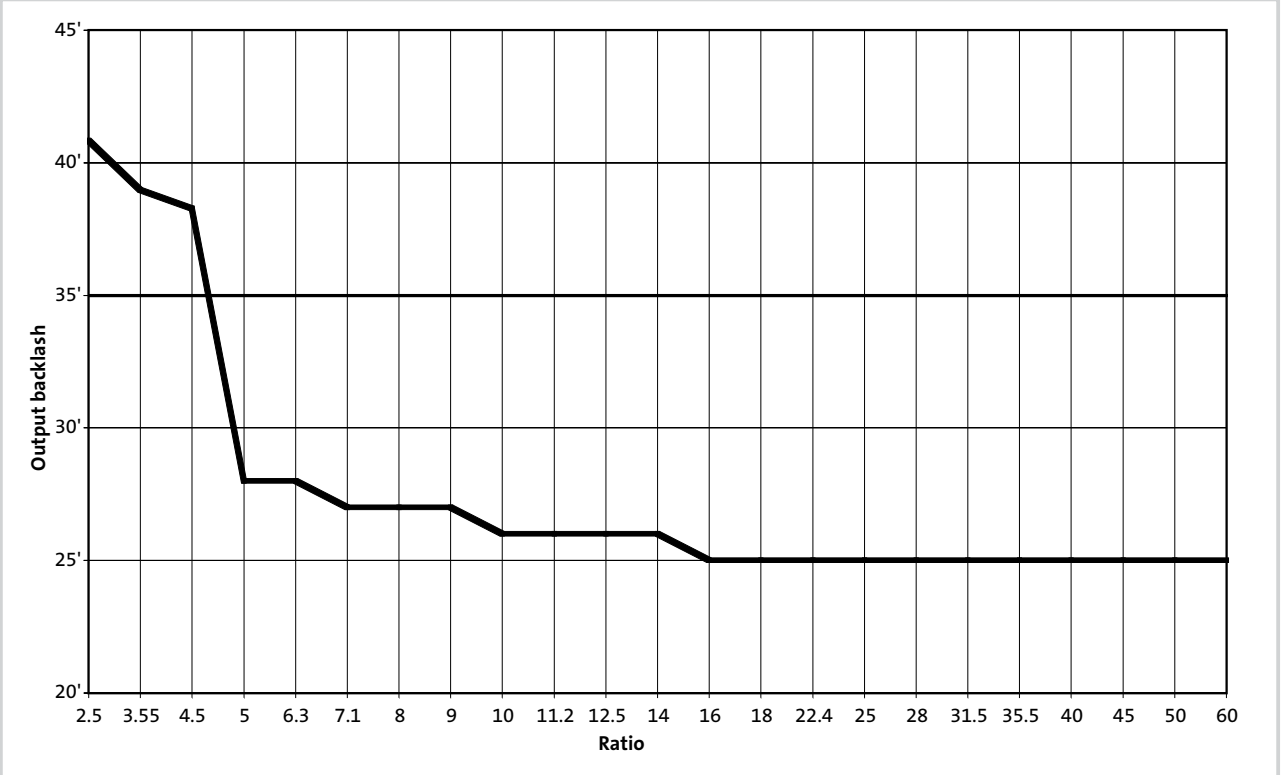
Application of force F_r: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_1 [min^{-1}]	Drive size 1A 1B		1C		1D		1E		1F		1G		1H		1K	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
700	830	1200	1150	1400	1470	1500	2140	1600	3200	2800	4000	4500	5000	6000	8500	10000
1400	570	770	780	900	1000	740	1400	800	2200	1700	3200	2000	4000	2500	7000	5300
2800	440	530	590	620	770	470	940	460	1700	1100	2300	1600	3000	2000	5000	3500
F_{rmax}	1850	–	1650	–	3000	–	4900	–	5600	–	8000	–	10000	–	12000	–

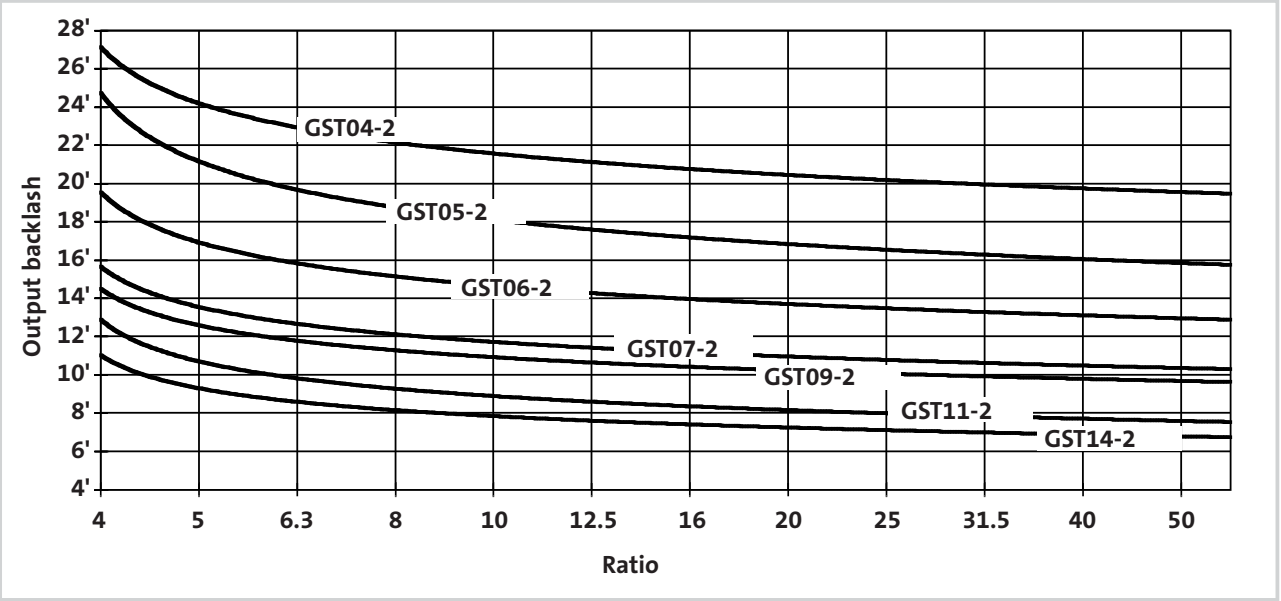
GST □□-1


Output backlash
22'
20'
18'
16'
14'
12'
10'
8'
6'
GST04-1
GST05-1
GST06-1
GST07-1
GST09-1
1.6
2
2.24
2.8
3.55
4.5
5.6
7.1
9
11.2
Ratio

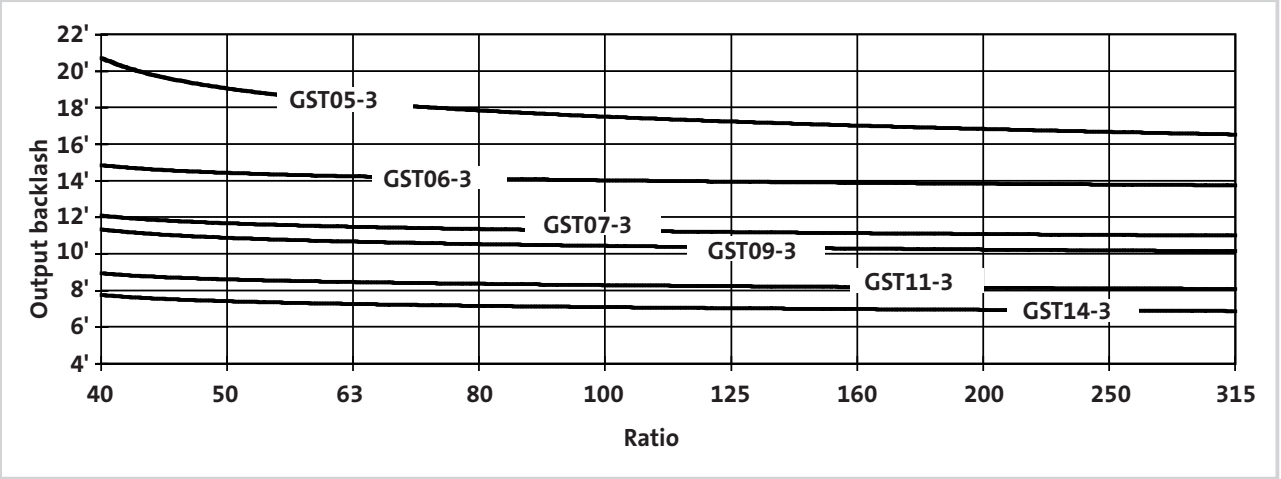
GST 03 - 2


Output backlash
45'
40'
35'
30'
25'
20'
2.5
3.55
4.5
5
6.3
7.1
8
9
10
11.2
12.5
14
16
18
22.4
25
28
31.5
35.5
40
45
50
60
Ratio

GST 04 ... 14-2

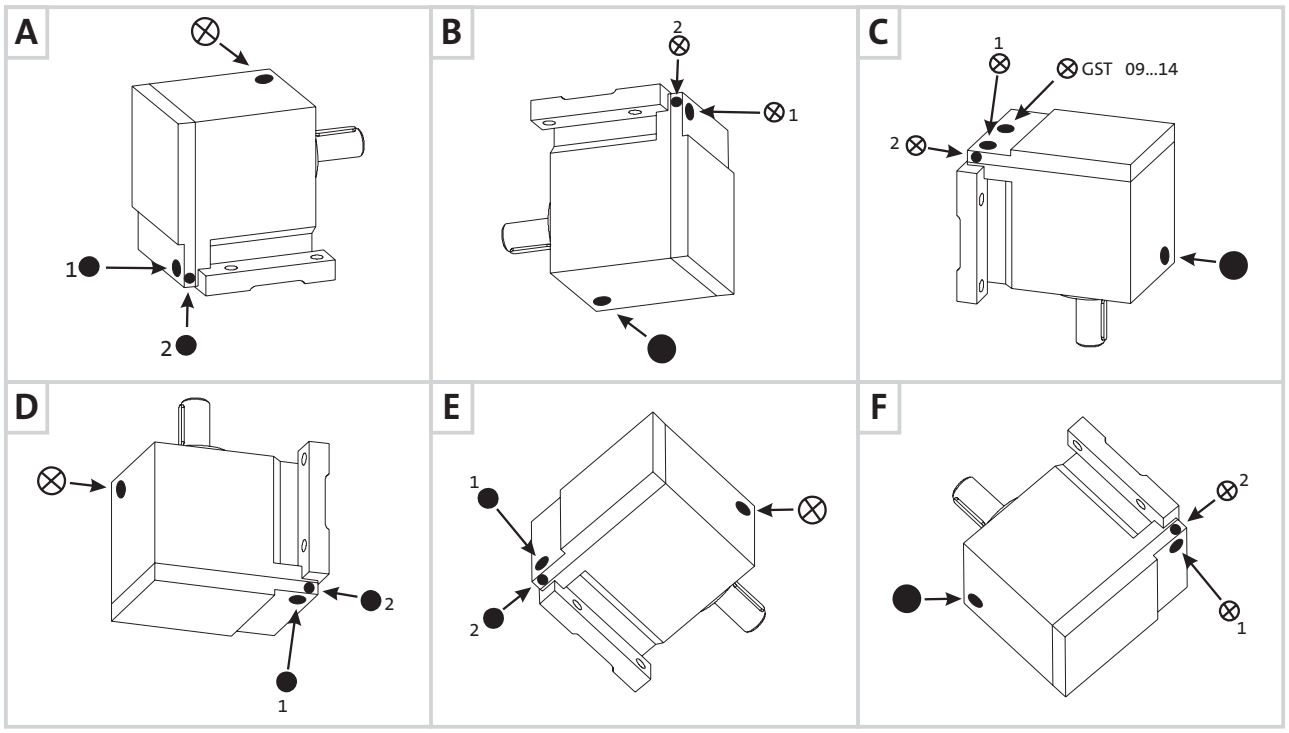


GST □□-3

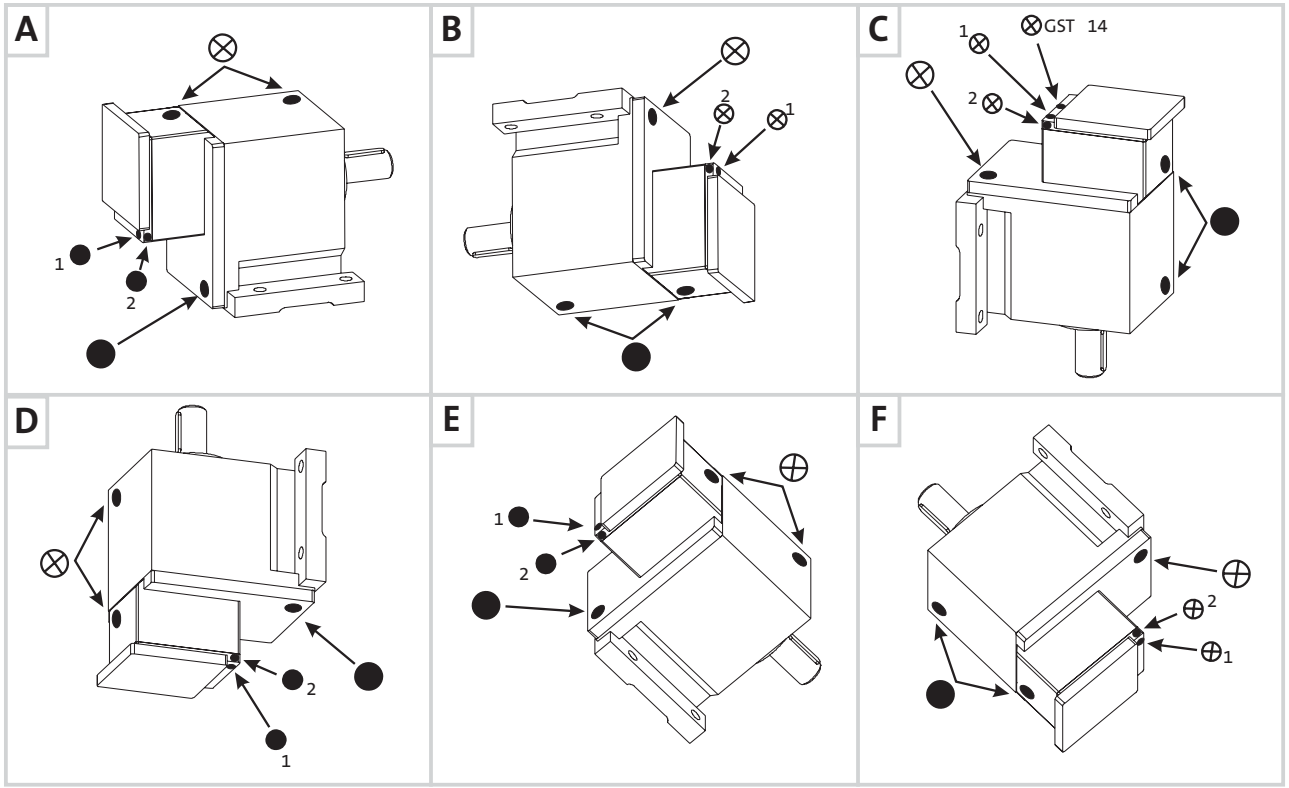


Position of ventilation, oil filler plug and oil drain plug

Helical gearbox GST 05 ... 09-1 and GST 05 ... 14-2



Helical gearbox GST 05 ... 14-3



(**A ... F**) Mounting position

⊗ Ventilation/oil filler plug

● Oil drain plug

Pos. 1 or **2** depending on version

(see table on page 3-8)

On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.

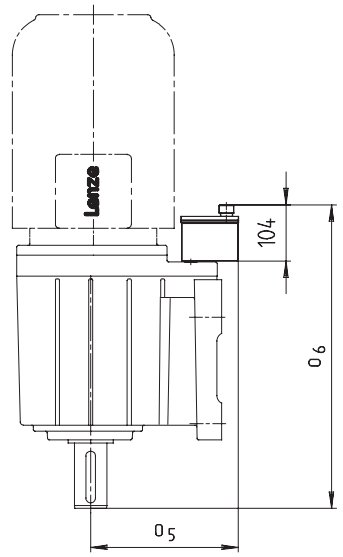
On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

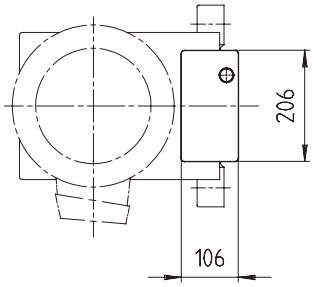
Helical gearboxes

GST	05	-1	M	□□□	090 100
			N	□□□	1D/2D 1E/2E/3E
		-2	M	□□□	090 100
			N	□□□	1D/2D 1E/2E/3E
	06	-1	M	□□□	112
			W	□□□	1F
		-2	M	□□□	112
			W	□□□	1F
	07	-1	M	□□□	160
			N	□□□	1H/3H
		-2	M	□□□	160
			N	□□□	1H/3H
		-3	M	□□□	090 100
			N	□□□	1D/2D 1E/2E/3E
	09	-3	M	□□□	112
			W	□□□	1F

Reservoir for mounting position C

Helical gearbox GST





Helical gearbox		Motor frame size / Drive size			
GST□□ - 2 M		090 / 100	112	132 / 180	160 / 200 / 225
GST□□ - 2 N		□D / □E / □F		□G / □H	□K
GST□□ - 2 W		1E	1F / 1G		1H / 1K
09	o_5	208	230	251	266
	o_6	473	473	473	473
11	o_5	210	232	256	270
	o_6	532	536	536	536
14	o_5		254	284	284
	o_6		636	636	636

Terminal box position 4 not permitted.

Helical gearbox GST □□-1

Gearbox size	Geared motors GST□□-1M **VBR** with motor frame size												
	063	071	080	090	100	112		132	160		180		200
						C22/-31	C32/-41		-22	-32	-22	-32	N32
04	8	11	15	22									
05	12	14	19	26	33								
06	16	19	23	30	37	50	56						
07			32	40	47	59	65	92	136	156			
09				54	61	73	79	107	151	171	250	260	346
	GST□□-1M **VCR**												
04	8	10	15	21									
05	11	13	18	25	32								
06	15	17	21	29	36	48	54						
07			29	36	43	56	62	89	133	153			
09				50	57	69	75	102	146	166	245	255	342

Gearbox size	Gearbox with mounting flange for IEC motors GST□□-1N **VBR** with drive size												Gearbox with free input shaft GST□□-1W **VBR** with drive size							
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	2H	3H	1K	1A	1B	1C	1D	1E	1F	1G	1H
04	7	8	11	13									5	6	8					
05		11	14	17	19									10	11	13				
06		16	18	22	24	26									15	18	21	30		
07			28	31	33	35	58	55	66		62					27	30	39	44	
09				45	48	49	73	70	81	85	77	101					44	53	59	74
	GST□□-1N **VCR**												GST□□-1W **VCR**							
04	6	7	10	13									5	5	7					
05		10	13	16	18									9	10	12				
06		14	16	20	22	24									14	16	19	28		
07			25	28	30	32	55	52	63		59					24	27	36	41	
09				41	43	44	68	65	76	80	72	97					40	48	54	69

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Observe extra weights on page 3-12!

Helical gearbox GST □□-2

Gearbox size	Geared motors GST□□-2M **VAR/VBR** with motor frame size															
	063	071	080	090	100	112		132	160		180		200	225		
						C22/-31	C32/-41		-22	-32	-22	-32	N32	N12	N22	
03	6	8														
04	10	13	17	24												
05	15	18	22	29	36											
06	23	25	29	37	44	56	62									
07			45	52	59	71	77	104	148	168						
09				79	86	98	104	131	175	195	274	284	371			
11					132	143	149	176	220	240	319	329	415	467	537	
14						235	241	265	309	329	408	418	503	555	625	
	GST□□-2M **VCR**															
03	6	8														
04	10	12	17	23												
05	14	16	21	28	35											
06	20	22	27	34	41	54	60									
07			40	47	54	67	73	99	143	163						
09				70	77	89	95	123	167	187	266	276	362			
11					117	128	134	161	205	225	304	314	400	452	522	
14						207	213	237	281	301	380	390	475	527	597	

Gearbox size	Gearbox with mounting flange for IEC motors GST□□-2N **VAR/VBR** with drive size													Gearbox with free input shaft GST□□-2W **VAR/VBR** with drive size								
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	2H	3H	1K	2K	1A	1B	1C	1D	1E	1F	1G	1H	1K
03	5																					
04	9	10	13	15										7	8	10						
05		15	18	20	23										13	15	17					
06		22	25	28	30	32										22	24	28	36			
07			40	43	45	47	70	67	78		74						39	42	51	56		
09				70	72	73	97	94	105	109	101	126						69	77	83	98	
11					118	119	142	139	150	154	146	170	177						123	128	143	158
14							231	228	239	243	235	258	265							217	232	246
	GST□□-2N **VCR**													GST□□-2W **VCR**								
03	5																					
04	8	9	12	14										7	7	9						
05		13	16	19	21										12	13	15					
06		19	22	25	28	29										19	22	25	33			
07			35	38	41	43	65	62	73		69						35	38	47	51		
09				61	64	65	89	86	97	101	93	117						60	69	75	90	
11					103	104	127	124	135	139	131	155	162						108	113	128	143
14							203	200	211	215	207	230	237							189	204	218

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Observe extra weights on page 3-12!

Helical gearbox GST □□-3

Gearbox size	Geared motors GST□□-3M **VAR/VBR** with motor frame size											
	063	071	080	090	100	112		132	160		180	
						C22/-31	C32/-41		-22	-32	-22	-32
05	16	19	24									
06	26	29	34	40								
07	46	48	53	60	67							
09	78	80	84	92	99	111	117					
11			139	146	153	166	172	198	242	262		
14				252	259	271	277	305	349	369	404	414
	GST□□-**3M VCR**											
05	15	17	22	29								
06	23	26	31	37								
07	41	44	48	55	62							
09	69	72	76	83	90	103	109					
11			124	131	138	151	157	183	227	247		
14				224	231	243	249	277	321	341	376	386

Gearbox size	Gearbox with mounting flange for IEC motors GST□□-3N **VAR/VBR** with drive size											Gearbox with free input shaft GST□□-3W **VAR/VBR** with drive size							
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	2H	3H	1A	1B	1C	1D	1E	1F	1G	1H
05	15	16	19	21								13	14	16					
06	25	26	29	31								23	25	26					
07		45	48	51	53								44	45	47				
09		77	80	83	85	87								77	80	83	91		
11			134	137	139	141	164	161							134	137	145	150	
14				243	246	247	271	268	279	283	275					242	251	257	272
	GST□□-3N **VCR**											GST□□-3W **VCR**							
05	13	15	17	20								12	13	14					
06	22	23	26	28								21	22	23					
07		41	43	46	49								39	41	43				
09		69	71	75	77	79								68	71	74	83		
11			119	122	125	126	149	146							119	122	130	135	
14				215	218	219	243	240	251	255	247					214	223	229	244

Extra weights

Gearbox size	Flange VCK/VAL
03	0.8
04	1.0
05	1.5
06	3.0
07	4.0
09	7.0
11	10.5
14	15.5

Weights in [kg] with oil capacity for mounting position A. All data is approximate

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.06 kW					**GST □□ - 2M**	**3-111**
n1=1425	75	7	5.6	19.013	GST03 - 2M□□□ 063C02	
	67	8	5.3	21.350	GST03 - 2M□□□ 063C02	
	58	10	4.7	24.595	GST03 - 2M□□□ 063C02	
	52	11	4.2	27.618	GST03 - 2M□□□ 063C02	
	45	13	3.6	32.000	GST03 - 2M□□□ 063C02	
	40	14	3.2	35.933	GST03 - 2M□□□ 063C02	
	34	16	2.8	41.455	GST03 - 2M□□□ 063C02	
	31	18	2.5	46.550	GST03 - 2M□□□ 063C02	
	27	21	2.2	52.909	GST03 - 2M□□□ 063C02	
	24	23	1.9	59.413	GST03 - 2M□□□ 063C02	
0.09 kW					**GST □□ - 2M**	**3-111**
n1=1375	137	6	5.7	10.033	GST03 - 2M□□□ 063C22	
	120	7	5.1	11.429	GST03 - 2M□□□ 063C22	
	107	8	4.8	12.833	GST03 - 2M□□□ 063C22	
	93	9	4.3	14.836	GST03 - 2M□□□ 063C22	
	83	10	4.1	16.660	GST03 - 2M□□□ 063C22	
	72	12	3.6	19.013	GST03 - 2M□□□ 063C22	
	64	13	3.4	21.350	GST03 - 2M□□□ 063C22	
	56	15	3.0	24.595	GST03 - 2M□□□ 063C22	
	50	17	2.7	27.618	GST03 - 2M□□□ 063C22	
	43	19	2.3	32.000	GST03 - 2M□□□ 063C22	
	38	22	2.1	35.933	GST03 - 2M□□□ 063C22	
	33	25	1.8	41.455	GST03 - 2M□□□ 063C22	
	30	28	1.6	46.550	GST03 - 2M□□□ 063C22	
	26	32	1.4	52.909	GST03 - 2M□□□ 063C22	
	23	36	1.2	59.413	GST03 - 2M□□□ 063C22	
0.12 kW					**GST □□ - 1M**	**3-102**
n1=1425	636	2	5.4	2.240	GST04 - 1M□□□ 063C12	
	499	2	5.0	2.857	GST04 - 1M□□□ 063C12	
	324	4	5.5	4.400	GST04 - 1M□□□ 063C12	
	252	5	4.6	5.667	GST04 - 1M□□□ 063C12	
	198	6	4.0	7.182	GST04 - 1M□□□ 063C12	
	158	7	3.3	9.000	GST04 - 1M□□□ 063C12	
	120	9	1.7	11.857	GST04 - 1M□□□ 063C12	
					GST □□ - 2M	**3-111**
	223	5	5.4	6.400	GST04 - 2M□□□ 063C12	
	204	5	5.4	6.982	GST03 - 2M□□□ 063C12	
	182	6	5.2	7.840	GST03 - 2M□□□ 063C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.12 kW					**GST □□ - 2M**	**3-111**
n1=1425	160	7	4.7	8.935	GST03 - 2M□□□ 063C12	
	142	8	4.4	10.033	GST03 - 2M□□□ 063C12	
	125	9	4.0	11.429	GST03 - 2M□□□ 063C12	
	111	10	3.8	12.833	GST03 - 2M□□□ 063C12	
	96	12	3.4	14.836	GST03 - 2M□□□ 063C12	
	86	13	3.2	16.660	GST03 - 2M□□□ 063C12	
	75	15	2.8	19.013	GST03 - 2M□□□ 063C12	
	74	15	4.7	19.360	GST04 - 2M□□□ 063C12	
	67	17	2.7	21.350	GST03 - 2M□□□ 063C12	
	58	19	2.3	24.595	GST03 - 2M□□□ 063C12	
	52 50	22 22	2.1 2.9	27.618 28.333	GST03 - 2M□□□ 063C12 GST04 - 2M□□□ 063C12	
	45 45	25 25	1.8 2.9	32.000 31.600	GST03 - 2M□□□ 063C12 GST04 - 2M□□□ 063C12	
	40 40	28 28	1.6 2.3	35.933 35.909	GST03 - 2M□□□ 063C12 GST04 - 2M□□□ 063C12	
	34 36	32 31	1.4 2.4	41.455 39.600	GST03 - 2M□□□ 063C12 GST04 - 2M□□□ 063C12	
	31 32	36 35	1.2 1.9	46.550 45.000	GST03 - 2M□□□ 063C12 GST04 - 2M□□□ 063C12	
	27 27	41 41	1.1 1.7	52.909 52.171	GST03 - 2M□□□ 063C12 GST04 - 2M□□□ 063C12	
	24 24	46 46	1.0 1.4	59.413 59.286	GST03 - 2M□□□ 063C12 GST04 - 2M□□□ 063C12	
					GST □□ - 3M	**3-122**
	23	49	3.0	63.467	GST05 - 3M□□□ 063C12	
	20	55	3.1	71.238	GST05 - 3M□□□ 063C12	
	18	62	2.4	80.952	GST05 - 3M□□□ 063C12	
	16	71	2.4	91.746	GST05 - 3M□□□ 063C12	
	12	89	1.9	116.277	GST05 - 3M□□□ 063C12	
	11	96	1.6	124.667	GST05 - 3M□□□ 063C12	
	9.8	112	1.5	145.714	GST05 - 3M□□□ 063C12	
	8.9 8.9	123 123	1.2 2.8	160.556 160.556	GST05 - 3M□□□ 063C12 GST06 - 3M□□□ 063C12	
	8.0 8.0	138 138	1.2 2.7	179.067 179.067	GST05 - 3M□□□ 063C12 GST06 - 3M□□□ 063C12	
	7.4 7.0	148 156	1.2 2.2	191.973 203.485	GST05 - 3M□□□ 063C12 GST06 - 3M□□□ 063C12	
	6.4 6.2	173 178	1.0 2.1	224.400 231.733	GST05 - 3M□□□ 063C12 GST06 - 3M□□□ 063C12	
	5.6	196	1.8	255.000	GST06 - 3M□□□ 063C12	
	4.9	223	1.7	290.400	GST06 - 3M□□□ 063C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.12 kW					**GST □□ - 3M**	**3-122**
n1=1425	4.3	254	1.4	330.000	GST06 - 3M□□□ 063C12	
	3.7	294	1.3	382.590	GST06 - 3M□□□ 063C12	
	3.3	334	1.1	434.762	GST06 - 3M□□□ 063C12	
0.18 kW					**GST □□ - 1M**	**3-102**
n1=1365	609	3	3.4	2.240	GST04 - 1M□□□ 063C32	
	478	4	3.2	2.857	GST04 - 1M□□□ 063C32	
	310	6	3.5	4.400	GST04 - 1M□□□ 063C32	
	241	7	2.9	5.667	GST04 - 1M□□□ 063C32	
	190	9	2.6	7.182	GST04 - 1M□□□ 063C32	
	152	11	2.1	9.000	GST04 - 1M□□□ 063C32	
	115	15	1.1	11.857	GST04 - 1M□□□ 063C32	
n1=870	97	18	1.3	9.000	GST04 - 1M□□□ 071-13	
	98	17	2.4	8.900	GST05 - 1M□□□ 071-13	
	77	22	1.4	11.375	GST05 - 1M□□□ 071-13	
	77	22	2.8	11.250	GST06 - 1M□□□ 071-13	
					GST □□ - 2M	**3-111**
n1=2760	431	4	5.7	6.400	GST04 - 2M□□□ 063-11	
	280	6	5.7	9.856	GST04 - 2M□□□ 063-11	
	246	7	5.7	11.200	GST04 - 2M□□□ 063-11	
	220	8	5.3	12.571	GST04 - 2M□□□ 063-11	
	193	9	5.3	14.286	GST04 - 2M□□□ 063-11	
	143	12	5.6	19.360	GST04 - 2M□□□ 063-11	
	126	13	4.3	22.000	GST04 - 2M□□□ 063-11	
	111	15	4.4	24.933	GST04 - 2M□□□ 063-11	
	97	17	3.4	28.333	GST04 - 2M□□□ 063-11	
	87	19	3.5	31.600	GST04 - 2M□□□ 063-11	
	77	22	2.7	35.909	GST04 - 2M□□□ 063-11	
	70	24	2.8	39.600	GST04 - 2M□□□ 063-11	
	61	27	2.4	45.000	GST04 - 2M□□□ 063-11	
	53	32	2.2	52.171	GST04 - 2M□□□ 063-11	
	47	36	1.8	59.286	GST04 - 2M□□□ 063-11	
n1=1365	526	3	5.7	2.597	GST03 - 2M□□□ 063C32	
	400	4	4.6	3.413	GST03 - 2M□□□ 063C32	
	313	5	3.9	4.368	GST03 - 2M□□□ 063C32	
	257	7	4.1	5.312	GST03 - 2M□□□ 063C32	
	229	7	3.9	5.965	GST03 - 2M□□□ 063C32	
	196	9	3.5	6.982	GST03 - 2M□□□ 063C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GST □□ - 2M**	**3-111**
n1=1365	174	10	3.3	7.840	GST03 - 2M□□□ 063C32	
	153	11	3.0	8.935	GST03 - 2M□□□ 063C32	
	136	12	2.8	10.033	GST03 - 2M□□□ 063C32	
	119	14	2.5	11.429	GST03 - 2M□□□ 063C32	
	106	16	2.4	12.833	GST03 - 2M□□□ 063C32	
	109	15	3.2	12.571	GST04 - 2M□□□ 063C32	
	92	18	2.2	14.836	GST03 - 2M□□□ 063C32	
	96	18	3.2	14.286	GST04 - 2M□□□ 063C32	
	82	20	2.0	16.660	GST03 - 2M□□□ 063C32	
	72	23	1.8	19.013	GST03 - 2M□□□ 063C32	
	71	24	3.0	19.360	GST04 - 2M□□□ 063C32	
	64	26	1.7	21.350	GST03 - 2M□□□ 063C32	
	62	27	2.3	22.000	GST04 - 2M□□□ 063C32	
	56	30	1.5	24.595	GST03 - 2M□□□ 063C32	
	55	31	2.3	24.933	GST04 - 2M□□□ 063C32	
	49	34	1.3	27.618	GST03 - 2M□□□ 063C32	
	48	35	1.8	28.333	GST04 - 2M□□□ 063C32	
	43	39	1.2	32.000	GST03 - 2M□□□ 063C32	
	43	39	1.9	31.600	GST04 - 2M□□□ 063C32	
	38	44	1.0	35.933	GST03 - 2M□□□ 063C32	
	38	44	1.5	35.909	GST04 - 2M□□□ 063C32	
	33	51	0.9	41.455	GST03 - 2M□□□ 063C32	
	35	48	1.5	39.600	GST04 - 2M□□□ 063C32	
	30	55	1.2	45.000	GST04 - 2M□□□ 063C32	
	26	64	1.1	52.171	GST04 - 2M□□□ 063C32	
	23	72	0.9	59.286	GST04 - 2M□□□ 063C32	
n1=870	22	76	1.0	39.600	GST04 - 2M□□□ 071-13	
	22	75	2.2	39.160	GST05 - 2M□□□ 071-13	
	20	85	1.7	44.500	GST05 - 2M□□□ 071-13	
	17	96	1.4	50.050	GST05 - 2M□□□ 071-13	
	18	95	2.8	49.500	GST06 - 2M□□□ 071-13	
	15	109	1.4	56.875	GST05 - 2M□□□ 071-13	
	16	108	2.8	56.250	GST06 - 2M□□□ 071-13	
					GST □□ - 3M	**3-122**
n1=1365	22	76	1.9	63.467	GST05 - 3M□□□ 063C32	
	19	86	2.0	71.238	GST05 - 3M□□□ 063C32	
	17	97	1.5	80.952	GST05 - 3M□□□ 063C32	
	17	97	3.2	80.952	GST06 - 3M□□□ 063C32	
	15	110	1.5	91.746	GST05 - 3M□□□ 063C32	
	12	140	1.2	116.277	GST05 - 3M□□□ 063C32	
	12	132	2.8	109.707	GST06 - 3M□□□ 063C32	
	11	150	1.0	124.667	GST05 - 3M□□□ 063C32	
	11	150	2.3	124.667	GST06 - 3M□□□ 063C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GST □□ - 3M**	3-122
n1=1365	9.4	175	1.0	145.714	GST05 - 3M□□□ 063C32	
	9.7	170	2.2	141.289	GST06 - 3M□□□ 063C32	
	8.5	193	1.8	160.556	GST06 - 3M□□□ 063C32	
	7.6	216	1.7	179.067	GST06 - 3M□□□ 063C32	
	6.7	245	1.4	203.485	GST06 - 3M□□□ 063C32	
	5.9	279	1.3	231.733	GST06 - 3M□□□ 063C32	
	5.4	307	1.1	255.000	GST06 - 3M□□□ 063C32	
	4.7	350	1.1	290.400	GST06 - 3M□□□ 063C32	
	4.1	397	0.9	330.000	GST06 - 3M□□□ 063C32	
	3.6	460	0.8	382.590	GST06 - 3M□□□ 063C32	
n1=870	3.5	469	1.5	248.458	GST07 - 3M□□□ 071-13	
	3.2	508	1.4	268.889	GST07 - 3M□□□ 071-13	
	3.2	508	3.2	268.889	GST09 - 3M□□□ 071-13	
	2.7	616	1.2	326.333	GST07 - 3M□□□ 071-13	
	2.7	616	2.6	326.333	GST09 - 3M□□□ 071-13	
	2.4	693	1.0	367.033	GST07 - 3M□□□ 071-13	
	2.4	685	2.4	363.000	GST09 - 3M□□□ 071-13	
	2.1	788	0.9	417.083	GST07 - 3M□□□ 071-13	
	2.1	779	2.1	412.500	GST09 - 3M□□□ 071-13	
0.25 kW					**GST □□ - 1M**	3-102
n1=1370	856	3	4.5	1.600	GST04 - 1M□□□ 063C42	
	669	4	5.2	2.048	GST04 - 1M□□□ 063C42	
	612	4	4.5	2.240	GST05 - 1M□□□ 063C42	
	480	5	4.8	2.857	GST04 - 1M□□□ 063C42	
	391	6	4.2	3.500	GST04 - 1M□□□ 063C42	
	311	8	3.3	4.400	GST04 - 1M□□□ 063C42	
	242	10	2.6	5.667	GST04 - 1M□□□ 063C42	
	191	12	2.0	7.182	GST04 - 1M□□□ 063C42	
	152	15	1.2	9.000	GST04 - 1M□□□ 063C42	
	154	15	2.8	8.900	GST05 - 1M□□□ 063C42	
	154	15	3.2	8.900	GST06 - 1M□□□ 063C42	
	120	20	1.4	11.375	GST05 - 1M□□□ 063C42	
	122	19	2.6	11.250	GST06 - 1M□□□ 063C42	
n1=920	102	23	1.0	9.000	GST04 - 1M□□□ 071-33	
	103	23	1.9	8.900	GST05 - 1M□□□ 071-33	
	103	23	2.7	8.900	GST06 - 1M□□□ 071-33	
	81	29	1.1	11.375	GST05 - 1M□□□ 071-33	
	82	29	2.2	11.250	GST06 - 1M□□□ 071-33	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GST □□ - 2M**	**3-111**
n1=2760	431	5	4.1	6.400	GST04 - 2M□□□ 063-31	
	280	8	4.1	9.856	GST04 - 2M□□□ 063-31	
	246	9	4.1	11.200	GST04 - 2M□□□ 063-31	
	220	11	3.8	12.571	GST04 - 2M□□□ 063-31	
	193	12	3.8	14.286	GST04 - 2M□□□ 063-31	
	143	16	4.0	19.360	GST04 - 2M□□□ 063-31	
	126	19	3.1	22.000	GST04 - 2M□□□ 063-31	
	111	21	3.2	24.933	GST04 - 2M□□□ 063-31	
	97	24	2.5	28.333	GST04 - 2M□□□ 063-31	
	87	27	2.5	31.600	GST04 - 2M□□□ 063-31	
	77	30	2.0	35.909	GST04 - 2M□□□ 063-31	
	70	33	2.0	39.600	GST04 - 2M□□□ 063-31	
	61	38	1.7	45.000	GST04 - 2M□□□ 063-31	
	53	44	1.6	52.171	GST04 - 2M□□□ 063-31	
	47	50	1.3	59.286	GST04 - 2M□□□ 063-31	
n1=1370	528	4	4.1	2.597	GST03 - 2M□□□ 063C42	
	464	5	4.5	2.956	GST04 - 2M□□□ 063C42	
	401	6	3.3	3.413	GST03 - 2M□□□ 063C42	
	338	7	4.5	4.053	GST04 - 2M□□□ 063C42	
	314	7	2.8	4.368	GST03 - 2M□□□ 063C42	
	258	9	3.0	5.312	GST03 - 2M□□□ 063C42	
	234	10	5.2	5.850	GST04 - 2M□□□ 063C42	
	230	10	2.8	5.965	GST03 - 2M□□□ 063C42	
	196	12	2.5	6.982	GST03 - 2M□□□ 063C42	
	175	13	2.4	7.840	GST03 - 2M□□□ 063C42	
	153	15	2.2	8.935	GST03 - 2M□□□ 063C42	
	137	17	2.0	10.033	GST03 - 2M□□□ 063C42	
	120 122	19 19	1.8 3.2	11.429 11.200	GST03 - 2M□□□ 063C42 GST04 - 2M□□□ 063C42	
	107	22	1.7	12.833	GST03 - 2M□□□ 063C42	
	92 96	25 24	1.6 2.5	14.836 14.286	GST03 - 2M□□□ 063C42 GST04 - 2M□□□ 063C42	
	82 89	28 26	1.5 2.7	16.660 15.400	GST03 - 2M□□□ 063C42 GST04 - 2M□□□ 063C42	
	72 78	32 30	1.3 2.1	19.013 17.500	GST03 - 2M□□□ 063C42 GST04 - 2M□□□ 063C42	
	71	33	2.1	19.360	GST04 - 2M□□□ 063C42	
	64 62	36 37	1.2 1.7	21.350 22.000	GST03 - 2M□□□ 063C42 GST04 - 2M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GST □□ - 2M**	**3-111**
n1=1370	56	42	1.1	24.595	GST03 - 2M□□□ 063C42	
	55	42	1.7	24.933	GST04 - 2M□□□ 063C42	
	50	47	1.0	27.618	GST03 - 2M□□□ 063C42	
	48	48	1.3	28.333	GST04 - 2M□□□ 063C42	
	48	48	3.1	28.333	GST05 - 2M□□□ 063C42	
	43	54	0.8	32.000	GST03 - 2M□□□ 063C42	
	43	53	1.4	31.600	GST04 - 2M□□□ 063C42	
	43	55	3.0	32.267	GST05 - 2M□□□ 063C42	
	38	61	1.1	35.909	GST04 - 2M□□□ 063C42	
	37	62	2.4	36.667	GST05 - 2M□□□ 063C42	
	35	67	1.1	39.600	GST04 - 2M□□□ 063C42	
	35	66	2.5	39.160	GST05 - 2M□□□ 063C42	
	35	66	3.2	39.160	GST06 - 2M□□□ 063C42	
	30	76	0.9	45.000	GST04 - 2M□□□ 063C42	
	31	75	2.0	44.500	GST05 - 2M□□□ 063C42	
	31	75	3.2	44.500	GST06 - 2M□□□ 063C42	
	27	85	1.4	50.050	GST05 - 2M□□□ 063C42	
	28	84	2.6	49.500	GST06 - 2M□□□ 063C42	
	24	96	1.4	56.875	GST05 - 2M□□□ 063C42	
	24	95	2.6	56.250	GST06 - 2M□□□ 063C42	
n1=920	24	99	1.7	39.160	GST05 - 2M□□□ 071-33	
	24	99	2.7	39.160	GST06 - 2M□□□ 071-33	
	21	112	1.3	44.500	GST05 - 2M□□□ 071-33	
	21	112	2.7	44.500	GST06 - 2M□□□ 071-33	
	18	126	1.1	50.050	GST05 - 2M□□□ 071-33	
	19	125	2.2	49.500	GST06 - 2M□□□ 071-33	
	16	143	1.0	56.875	GST05 - 2M□□□ 071-33	
	16	142	2.2	56.250	GST06 - 2M□□□ 071-33	
					GST □□ - 3M	**3-122**
n1=1370	24	94	1.6	56.667	GST05 - 3M□□□ 063C42	
	22	106	1.4	63.467	GST05 - 3M□□□ 063C42	
	20	113	3.2	67.760	GST06 - 3M□□□ 063C42	
	19	119	1.4	71.238	GST05 - 3M□□□ 063C42	
	20	117	3.1	70.156	GST06 - 3M□□□ 063C42	
	17	135	1.1	80.952	GST05 - 3M□□□ 063C42	
	17	135	2.5	80.952	GST06 - 3M□□□ 063C42	
	15	153	1.1	91.746	GST05 - 3M□□□ 063C42	
	16	145	2.5	87.267	GST06 - 3M□□□ 063C42	
	14	165	0.9	99.167	GST05 - 3M□□□ 063C42	
	14	165	2.0	99.167	GST06 - 3M□□□ 063C42	
	12	194	0.9	116.277	GST05 - 3M□□□ 063C42	
	13	183	2.1	109.707	GST06 - 3M□□□ 063C42	
	11	208	1.6	124.667	GST06 - 3M□□□ 063C42	
	9.7	235	1.6	141.289	GST06 - 3M□□□ 063C42	
	9.8	232	3.0	139.211	GST07 - 3M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GST □□ - 3M**	**3-122**
n1=1370	8.5	267	1.3	160.556	GST06 - 3M□□□ 063C42	
	8.7	263	2.7	158.194	GST07 - 3M□□□ 063C42	
	7.7	298	1.3	179.067	GST06 - 3M□□□ 063C42	
	7.6	300	2.4	180.156	GST07 - 3M□□□ 063C42	
	6.7	339	1.0	203.485	GST06 - 3M□□□ 063C42	
	6.7	341	2.1	204.722	GST07 - 3M□□□ 063C42	
	5.9	386	1.0	231.733	GST06 - 3M□□□ 063C42	
	5.8	394	1.8	236.622	GST07 - 3M□□□ 063C42	
	5.4	425	0.8	255.000	GST06 - 3M□□□ 063C42	
	5.5	414	1.7	248.458	GST07 - 3M□□□ 063C42	
	5.4	420	3.2	252.167	GST09 - 3M□□□ 063C42	
	5.1	448	1.6	268.889	GST07 - 3M□□□ 063C42	
	4.2	544	1.3	326.333	GST07 - 3M□□□ 063C42	
	4.2	544	3.0	326.333	GST09 - 3M□□□ 063C42	
	3.7	611	1.2	367.033	GST07 - 3M□□□ 063C42	
	3.8	605	2.6	363.000	GST09 - 3M□□□ 063C42	
	3.3	695	1.0	417.083	GST07 - 3M□□□ 063C42	
	3.3	687	2.4	412.500	GST09 - 3M□□□ 063C42	
n1=920	2.8	809	0.9	326.333	GST07 - 3M□□□ 071-33	
	2.8	809	2.0	326.333	GST09 - 3M□□□ 071-33	
	2.5	900	1.8	363.000	GST09 - 3M□□□ 071-33	
	2.2	1023	1.6	412.500	GST09 - 3M□□□ 071-33	
0.37 kW					**GST □□ - 1M**	**3-102**
n1=1410	881	4	4.0	1.600	GST04 - 1M□□□ 071C32	
	689	5	4.5	2.048	GST04 - 1M□□□ 071C32	
	630	6	4.0	2.240	GST05 - 1M□□□ 071C32	
	494	7	3.5	2.857	GST04 - 1M□□□ 071C32	
	403	9	2.9	3.500	GST04 - 1M□□□ 071C32	
	321	11	2.3	4.400	GST04 - 1M□□□ 071C32	
	249	14	1.8	5.667	GST04 - 1M□□□ 071C32	
	249	14	3.2	5.667	GST05 - 1M□□□ 071C32	
	196	18	1.4	7.182	GST04 - 1M□□□ 071C32	
	192	18	2.6	7.333	GST05 - 1M□□□ 071C32	
	192	18	3.2	7.333	GST06 - 1M□□□ 071C32	
	157	22	1.0	9.000	GST04 - 1M□□□ 071C32	
	158	22	1.9	8.900	GST05 - 1M□□□ 071C32	
	158	22	2.8	8.900	GST06 - 1M□□□ 071C32	
	124	28	1.1	11.375	GST05 - 1M□□□ 071C32	
	125	28	2.2	11.250	GST06 - 1M□□□ 071C32	
n1=900	123	28	1.6	7.333	GST05 - 1M□□□ 080-13	
	101	34	1.2	8.900	GST05 - 1M□□□ 080-13	
	101	34	2.5	8.900	GST06 - 1M□□□ 080-13	
	80	44	1.5	11.250	GST06 - 1M□□□ 080-13	
	80	44	2.6	11.250	GST07 - 1M□□□ 080-13	

Thermal power limit not considered (see page2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GST □□ - 2M**	**3-111**
n1=2840	444	8	5.8	6.400	GST04 - 2M□□□ 071-11	
	403	9	5.4	7.040	GST04 - 2M□□□ 071-11	
	355	10	4.9	8.000	GST04 - 2M□□□ 071-11	
	315	11	4.7	9.010	GST04 - 2M□□□ 071-11	
	288	12	4.4	9.856	GST04 - 2M□□□ 071-11	
	254	14	3.6	11.200	GST04 - 2M□□□ 071-11	
	226	15	3.7	12.571	GST04 - 2M□□□ 071-11	
	199	17	2.9	14.286	GST04 - 2M□□□ 071-11	
	184	19	3.4	15.400	GST04 - 2M□□□ 071-11	
	162	21	2.7	17.500	GST04 - 2M□□□ 071-11	
	147	23	2.8	19.360	GST04 - 2M□□□ 071-11	
	129	27	2.2	22.000	GST04 - 2M□□□ 071-11	
	114	30	2.2	24.933	GST04 - 2M□□□ 071-11	
	100	34	1.7	28.333	GST04 - 2M□□□ 071-11	
	90	38	1.7	31.600	GST04 - 2M□□□ 071-11	
	79 78	43 44	1.4 3.1	35.909 36.667	GST04 - 2M□□□ 071-11 GST05 - 2M□□□ 071-11	
	72 73	48 47	1.4 3.2	39.600 39.160	GST04 - 2M□□□ 071-11 GST05 - 2M□□□ 071-11	
	63 64	54 54	1.2 2.8	45.000 44.500	GST04 - 2M□□□ 071-11 GST05 - 2M□□□ 071-11	
	57	60	2.2	50.050	GST05 - 2M□□□ 071-11	
	50	69	2.2	56.875	GST05 - 2M□□□ 071-11	
n1=1410	543	6	2.8	2.597	GST03 - 2M□□□ 071C32	
	477	7	4.0	2.956	GST04 - 2M□□□ 071C32	
	413	8	2.3	3.413	GST03 - 2M□□□ 071C32	
	348	10	4.0	4.053	GST04 - 2M□□□ 071C32	
	323	11	2.0	4.368	GST03 - 2M□□□ 071C32	
	265	13	2.1	5.312	GST03 - 2M□□□ 071C32	
	241	14	3.7	5.850	GST04 - 2M□□□ 071C32	
	236	15	2.0	5.965	GST03 - 2M□□□ 071C32	
	202	17	1.7	6.982	GST03 - 2M□□□ 071C32	
	180 176	19 19	1.7 3.0	7.840 8.000	GST03 - 2M□□□ 071C32 GST04 - 2M□□□ 071C32	
	158 157	22 22	1.5 2.9	8.935 9.010	GST03 - 2M□□□ 071C32 GST04 - 2M□□□ 071C32	
	141 143	24 24	1.4 2.7	10.033 9.856	GST03 - 2M□□□ 071C32 GST04 - 2M□□□ 071C32	
	123 126	28 27	1.3 2.2	11.429 11.200	GST03 - 2M□□□ 071C32 GST04 - 2M□□□ 071C32	

Thermal power limit not considered (see page2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical geared motor	Dimensions Page
0.37 kW					**GST □□ - 2M**	**3-111**
n1=1410	110	31	1.2	12.833	GST03 - 2M□□□ 071C32	
	112	31	2.3	12.571	GST04 - 2M□□□ 071C32	
	95	36	1.1	14.836	GST03 - 2M□□□ 071C32	
	99	35	1.8	14.286	GST04 - 2M□□□ 071C32	
	98	35	3.2	14.356	GST05 - 2M□□□ 071C32	
	85	41	1.0	16.660	GST03 - 2M□□□ 071C32	
	92	37	1.9	15.400	GST04 - 2M□□□ 071C32	
	87	39	3.2	16.190	GST05 - 2M□□□ 071C32	
	74	46	0.9	19.013	GST03 - 2M□□□ 071C32	
	81	43	1.5	17.500	GST04 - 2M□□□ 071C32	
	73	47	1.5	19.360	GST04 - 2M□□□ 071C32	
	66	52	0.9	21.350	GST03 - 2M□□□ 071C32	
	64	54	1.2	22.000	GST04 - 2M□□□ 071C32	
	62	55	2.6	22.778	GST05 - 2M□□□ 071C32	
	57	61	1.2	24.933	GST04 - 2M□□□ 071C32	
	57	61	2.7	24.933	GST05 - 2M□□□ 071C32	
	50	69	0.9	28.333	GST04 - 2M□□□ 071C32	
	50	69	2.1	28.333	GST05 - 2M□□□ 071C32	
	45	77	0.9	31.600	GST04 - 2M□□□ 071C32	
	44	78	2.1	32.267	GST05 - 2M□□□ 071C32	
	44	78	3.2	32.267	GST06 - 2M□□□ 071C32	
	39	89	1.7	36.667	GST05 - 2M□□□ 071C32	
	39	89	3.2	36.667	GST06 - 2M□□□ 071C32	
	36	95	1.7	39.160	GST05 - 2M□□□ 071C32	
	36	95	2.8	39.160	GST06 - 2M□□□ 071C32	
	32	108	1.4	44.500	GST05 - 2M□□□ 071C32	
	32	108	2.8	44.500	GST06 - 2M□□□ 071C32	
	28	122	1.1	50.050	GST05 - 2M□□□ 071C32	
	29	120	2.2	49.500	GST06 - 2M□□□ 071C32	
	25	138	1.1	56.875	GST05 - 2M□□□ 071C32	
	25	137	2.2	56.250	GST06 - 2M□□□ 071C32	
n1=900	25	140	1.1	36.667	GST05 - 2M□□□ 080-13	
	25	140	2.3	36.667	GST06 - 2M□□□ 080-13	
	23	149	1.1	39.160	GST05 - 2M□□□ 080-13	
	23	149	2.5	39.160	GST06 - 2M□□□ 080-13	
	20	170	0.9	44.500	GST05 - 2M□□□ 080-13	
	20	170	1.9	44.500	GST06 - 2M□□□ 080-13	
	18	189	1.5	49.500	GST06 - 2M□□□ 080-13	
	18	189	2.6	49.500	GST07 - 2M□□□ 080-13	
	16	214	1.5	56.250	GST06 - 2M□□□ 080-13	
	16	214	2.6	56.250	GST07 - 2M□□□ 080-13	
					GST □□ - 3M	**3-122**
n1=1410	25	136	1.1	56.667	GST05 - 3M□□□ 071C32	
	22	152	1.0	63.467	GST05 - 3M□□□ 071C32	
	21	162	2.2	67.760	GST06 - 3M□□□ 071C32	
	20	171	1.0	71.238	GST05 - 3M□□□ 071C32	
	20	168	2.1	70.156	GST06 - 3M□□□ 071C32	

Thermal power limit not considered (see page2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GST □□ - 3M**	**3-122**
n1=1410	17	194	1.7	80.952	GST06 - 3M□□□ 071C32	
	16	209	1.8	87.267	GST06 - 3M□□□ 071C32	
	14	238	1.4	99.167	GST06 - 3M□□□ 071C32	
	13	263	1.4	109.707	GST06 - 3M□□□ 071C32	
	13	268	2.6	111.915	GST07 - 3M□□□ 071C32	
	11	299	1.1	124.667	GST06 - 3M□□□ 071C32	
	11	305	2.3	127.176	GST07 - 3M□□□ 071C32	
	10	338	1.1	141.289	GST06 - 3M□□□ 071C32	
	10	333	2.1	139.211	GST07 - 3M□□□ 071C32	
	8.8	385	0.9	160.556	GST06 - 3M□□□ 071C32	
	8.9	379	1.9	158.194	GST07 - 3M□□□ 071C32	
	7.9	429	0.9	179.067	GST06 - 3M□□□ 071C32	
	7.8	431	1.6	180.156	GST07 - 3M□□□ 071C32	
	7.7	438	3.2	182.844	GST09 - 3M□□□ 071C32	
	6.9	490	1.4	204.722	GST07 - 3M□□□ 071C32	
	6.8	498	3.2	207.778	GST09 - 3M□□□ 071C32	
	6.0	567	1.2	236.622	GST07 - 3M□□□ 071C32	
	6.0	567	2.8	236.622	GST09 - 3M□□□ 071C32	
	5.7	595	1.2	248.458	GST07 - 3M□□□ 071C32	
	5.6	604	2.7	252.167	GST09 - 3M□□□ 071C32	
	5.2	644	1.1	268.889	GST07 - 3M□□□ 071C32	
	5.2	644	2.5	268.889	GST09 - 3M□□□ 071C32	
	4.3	782	0.9	326.333	GST07 - 3M□□□ 071C32	
	4.3	782	2.1	326.333	GST09 - 3M□□□ 071C32	
	3.8	879	0.8	367.033	GST07 - 3M□□□ 071C32	
	3.9	869	1.9	363.000	GST09 - 3M□□□ 071C32	
	3.4	988	1.6	412.500	GST09 - 3M□□□ 071C32	
n1=900	3.4	1009	1.6	268.889	GST09 - 3M□□□ 080-13	
	3.4	1009	2.8	268.889	GST11 - 3M□□□ 080-13	
	2.8	1224	1.3	326.333	GST09 - 3M□□□ 080-13	
	2.8	1224	2.3	326.333	GST11 - 3M□□□ 080-13	
	2.5	1362	1.2	363.000	GST09 - 3M□□□ 080-13	
	2.5	1362	2.0	363.000	GST11 - 3M□□□ 080-13	
	2.2	1548	1.0	412.500	GST09 - 3M□□□ 080-13	
	2.2	1548	1.8	412.500	GST11 - 3M□□□ 080-13	
0.55 kW					**GST □□ - 1M**	**3-102**
n1=1405	878	6	3.3	1.600	GST04 - 1M□□□ 071C42	
	686	8	3.0	2.048	GST04 - 1M□□□ 071C42	
	627	8	3.0	2.240	GST04 - 1M□□□ 071C42	
	492	11	2.4	2.857	GST04 - 1M□□□ 071C42	
	401	13	1.9	3.500	GST04 - 1M□□□ 071C42	
	319	16	1.5	4.400	GST04 - 1M□□□ 071C42	
	308	17	3.2	4.556	GST05 - 1M□□□ 071C42	

Thermal power limit not considered (see page2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GST □□ - 1M**	**3-102**
n1=1405	248	21	1.2	5.667	GST04 - 1M□□□ 071C42	
	248	21	2.6	5.667	GST05 - 1M□□□ 071C42	
	248	21	3.2	5.667	GST06 - 1M□□□ 071C42	
	192	27	1.7	7.333	GST05 - 1M□□□ 071C42	
	192	27	2.9	7.333	GST06 - 1M□□□ 071C42	
	158	33	1.3	8.900	GST05 - 1M□□□ 071C42	
	158	33	2.4	8.900	GST06 - 1M□□□ 071C42	
	125	41	1.4	11.250	GST06 - 1M□□□ 071C42	
n1=900	123	42	1.1	7.333	GST05 - 1M□□□ 080-33	
	123	42	2.3	7.333	GST06 - 1M□□□ 080-33	
	123	42	2.5	7.333	GST07 - 1M□□□ 080-33	
	101	51	0.8	8.900	GST05 - 1M□□□ 080-33	
	101	51	1.7	8.900	GST06 - 1M□□□ 080-33	
	101	51	2.2	8.900	GST07 - 1M□□□ 080-33	
	80	65	1.0	11.250	GST06 - 1M□□□ 080-33	
	80	65	1.8	11.250	GST07 - 1M□□□ 080-33	
					GST □□ - 2M	**3-111**
n1=2840	961	5	4.3	2.956	GST04 - 2M□□□ 071-31	
	852	6	4.3	3.333	GST04 - 2M□□□ 071-31	
	701	7	4.3	4.053	GST04 - 2M□□□ 071-31	
	621	8	4.3	4.571	GST04 - 2M□□□ 071-31	
	548	9	4.3	5.187	GST04 - 2M□□□ 071-31	
	485	11	4.1	5.850	GST04 - 2M□□□ 071-31	
	444	12	3.9	6.400	GST04 - 2M□□□ 071-31	
	403	13	3.6	7.040	GST04 - 2M□□□ 071-31	
	355	14	3.3	8.000	GST04 - 2M□□□ 071-31	
	315	16	3.1	9.010	GST04 - 2M□□□ 071-31	
	288	18	3.0	9.856	GST04 - 2M□□□ 071-31	
	254	20	2.4	11.200	GST04 - 2M□□□ 071-31	
	226	23	2.5	12.571	GST04 - 2M□□□ 071-31	
	199	26	1.9	14.286	GST04 - 2M□□□ 071-31	
	184	28	2.3	15.400	GST04 - 2M□□□ 071-31	
	162	31	1.8	17.500	GST04 - 2M□□□ 071-31	
	147	35	1.9	19.360	GST04 - 2M□□□ 071-31	
	129	40	1.4	22.000	GST04 - 2M□□□ 071-31	
	125	41	3.2	22.778	GST05 - 2M□□□ 071-31	
	114	45	1.5	24.933	GST04 - 2M□□□ 071-31	
	100	51	1.1	28.333	GST04 - 2M□□□ 071-31	
	100	51	2.7	28.333	GST05 - 2M□□□ 071-31	
	90	57	1.2	31.600	GST04 - 2M□□□ 071-31	
	88	58	2.6	32.267	GST05 - 2M□□□ 071-31	

Thermal power limit not considered (see page2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GST □□ - 2M**	**3-111**
n1=2840	79	64	0.9	35.909	GST04 - 2M□□□ 071-31	
	78	66	2.1	36.667	GST05 - 2M□□□ 071-31	
	72	71	0.9	39.600	GST04 - 2M□□□ 071-31	
	73	70	2.2	39.160	GST05 - 2M□□□ 071-31	
	63	81	0.8	45.000	GST04 - 2M□□□ 071-31	
	64	80	1.9	44.500	GST05 - 2M□□□ 071-31	
	57	90	1.5	50.050	GST05 - 2M□□□ 071-31	
	57	89	3.0	49.500	GST06 - 2M□□□ 071-31	
	50	102	1.5	56.875	GST05 - 2M□□□ 071-31	
	51	101	3.0	56.250	GST06 - 2M□□□ 071-31	
n1=1405	541	9	1.9	2.597	GST03 - 2M□□□ 071C42	
	475	11	3.6	2.956	GST04 - 2M□□□ 071C42	
	412	12	1.6	3.413	GST03 - 2M□□□ 071C42	
	347	15	3.1	4.053	GST04 - 2M□□□ 071C42	
	322	16	1.3	4.368	GST03 - 2M□□□ 071C42	
	307	17	2.9	4.571	GST04 - 2M□□□ 071C42	
	265	19	1.4	5.312	GST03 - 2M□□□ 071C42	
	271	19	2.7	5.187	GST04 - 2M□□□ 071C42	
	240	21	2.5	5.850	GST04 - 2M□□□ 071C42	
	236	22	1.3	5.965	GST03 - 2M□□□ 071C42	
	220	23	2.4	6.400	GST04 - 2M□□□ 071C42	
	201	25	1.2	6.982	GST03 - 2M□□□ 071C42	
	200	26	2.2	7.040	GST04 - 2M□□□ 071C42	
	179	28	1.1	7.840	GST03 - 2M□□□ 071C42	
	176	29	2.0	8.000	GST04 - 2M□□□ 071C42	
	157	32	1.0	8.935	GST03 - 2M□□□ 071C42	
	156	33	1.9	9.010	GST04 - 2M□□□ 071C42	
	140	36	0.9	10.033	GST03 - 2M□□□ 071C42	
	143	36	1.8	9.856	GST04 - 2M□□□ 071C42	
	123	41	0.9	11.429	GST03 - 2M□□□ 071C42	
	125	41	1.5	11.200	GST04 - 2M□□□ 071C42	
	125	41	3.1	11.200	GST05 - 2M□□□ 071C42	
	110	47	0.8	12.833	GST03 - 2M□□□ 071C42	
	112	46	1.5	12.571	GST04 - 2M□□□ 071C42	
	108	47	2.9	13.016	GST05 - 2M□□□ 071C42	
	98	52	1.2	14.286	GST04 - 2M□□□ 071C42	
	98	52	2.7	14.356	GST05 - 2M□□□ 071C42	
	91	56	1.2	15.400	GST04 - 2M□□□ 071C42	
	87	59	2.5	16.190	GST05 - 2M□□□ 071C42	
	80	64	1.0	17.500	GST04 - 2M□□□ 071C42	
	80	64	2.2	17.500	GST05 - 2M□□□ 071C42	
	73	70	1.0	19.360	GST04 - 2M□□□ 071C42	
	70	73	2.2	20.044	GST05 - 2M□□□ 071C42	
	62	83	1.7	22.778	GST05 - 2M□□□ 071C42	
	56	90	1.8	24.933	GST05 - 2M□□□ 071C42	
	56	90	3.2	24.933	GST06 - 2M□□□ 071C42	

Thermal power limit not considered (see page2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical geared motor	Dimensions Page
0.55 kW					**GST □□ - 2M**	**3-111**
n1=1405	50	103	1.4	28.333	GST05 - 2M□□□ 071C42	
	50	103	3.1	28.333	GST06 - 2M□□□ 071C42	
	44	117	1.4	32.267	GST05 - 2M□□□ 071C42	
	44	117	2.9	32.267	GST06 - 2M□□□ 071C42	
	38	133	1.1	36.667	GST05 - 2M□□□ 071C42	
	38	133	2.4	36.667	GST06 - 2M□□□ 071C42	
	36	142	1.2	39.160	GST05 - 2M□□□ 071C42	
	36	142	2.4	39.160	GST06 - 2M□□□ 071C42	
	32	161	0.9	44.500	GST05 - 2M□□□ 071C42	
	32	161	2.0	44.500	GST06 - 2M□□□ 071C42	
	28	180	1.4	49.500	GST06 - 2M□□□ 071C42	
	25	204	1.4	56.250	GST06 - 2M□□□ 071C42	
n1=900	25	208	1.6	36.667	GST06 - 2M□□□ 080-33	
	25	208	2.5	36.667	GST07 - 2M□□□ 080-33	
	23	222	1.7	39.160	GST06 - 2M□□□ 080-33	
	23	222	2.2	39.160	GST07 - 2M□□□ 080-33	
	20	252	1.3	44.500	GST06 - 2M□□□ 080-33	
	20	252	2.2	44.500	GST07 - 2M□□□ 080-33	
	18	280	1.0	49.500	GST06 - 2M□□□ 080-33	
	18	280	1.8	49.500	GST07 - 2M□□□ 080-33	
	16	319	1.0	56.250	GST06 - 2M□□□ 080-33	
	16	319	1.8	56.250	GST07 - 2M□□□ 080-33	
					GST □□ - 3M	**3-122**
n1=1405	21	242	1.5	67.760	GST06 - 3M□□□ 071C42	
	22	233	3.0	65.079	GST07 - 3M□□□ 071C42	
	20	251	1.4	70.156	GST06 - 3M□□□ 071C42	
	20	251	2.8	70.156	GST07 - 3M□□□ 071C42	
	17	289	1.1	80.952	GST06 - 3M□□□ 071C42	
	18	285	2.5	79.762	GST07 - 3M□□□ 071C42	
	16	312	1.2	87.267	GST06 - 3M□□□ 071C42	
	16	307	2.3	85.983	GST07 - 3M□□□ 071C42	
	14	354	0.9	99.167	GST06 - 3M□□□ 071C42	
	14	349	2.0	97.708	GST07 - 3M□□□ 071C42	
	13	392	1.0	109.707	GST06 - 3M□□□ 071C42	
	13	400	1.8	111.915	GST07 - 3M□□□ 071C42	
	11	454	1.6	127.176	GST07 - 3M□□□ 071C42	
	10	497	1.4	139.211	GST07 - 3M□□□ 071C42	
	9.9	505	3.2	141.289	GST09 - 3M□□□ 071C42	
	8.9	565	1.3	158.194	GST07 - 3M□□□ 071C42	
	8.8	574	2.8	160.556	GST09 - 3M□□□ 071C42	
	7.8	644	1.1	180.156	GST07 - 3M□□□ 071C42	
	7.7	653	2.5	182.844	GST09 - 3M□□□ 071C42	
	6.9	731	1.0	204.722	GST07 - 3M□□□ 071C42	
	6.8	742	2.2	207.778	GST09 - 3M□□□ 071C42	
	5.9	845	0.8	236.622	GST07 - 3M□□□ 071C42	
	5.9	845	1.9	236.622	GST09 - 3M□□□ 071C42	

Thermal power limit not considered (see page2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GST □□ - 3M**	**3-122**
n1=1405	5.6	901	1.8	252.167	GST09 - 3M□□□ 071C42	
	5.2	961	1.7	268.889	GST09 - 3M□□□ 071C42	
	4.3	1166	1.4	326.333	GST09 - 3M□□□ 071C42	
	3.9	1297	1.2	363.000	GST09 - 3M□□□ 071C42	
	3.4	1474	1.1	412.500	GST09 - 3M□□□ 071C42	
n1=900	3.4	1500	1.1	268.889	GST09 - 3M□□□ 080-33	
	3.4	1500	1.9	268.889	GST11 - 3M□□□ 080-33	
	2.8	1820	0.9	326.333	GST09 - 3M□□□ 080-33	
	2.8	1820	1.6	326.333	GST11 - 3M□□□ 080-33	
	2.5	2024	1.3	363.000	GST11 - 3M□□□ 080-33	
	2.2	2301	1.2	412.500	GST11 - 3M□□□ 080-33	
0.75 kW					**GST □□ - 1M**	**3-102**
n1=1410	881	8	2.4	1.600	GST04 - 1M□□□ 080C32	
	689	10	2.2	2.048	GST04 - 1M□□□ 080C32	
	630	11	2.2	2.240	GST04 - 1M□□□ 080C32	
	494	14	1.7	2.857	GST04 - 1M□□□ 080C32	
	403	18	1.4	3.500	GST04 - 1M□□□ 080C32	
	403	18	3.1	3.500	GST05 - 1M□□□ 080C32	
	321	22	1.1	4.400	GST04 - 1M□□□ 080C32	
	310	23	2.4	4.556	GST05 - 1M□□□ 080C32	
	249	28	0.9	5.667	GST04 - 1M□□□ 080C32	
	249	28	1.9	5.667	GST05 - 1M□□□ 080C32	
	249	28	2.9	5.667	GST06 - 1M□□□ 080C32	
	192	37	1.3	7.333	GST05 - 1M□□□ 080C32	
	192	37	2.6	7.333	GST06 - 1M□□□ 080C32	
	192	37	2.9	7.333	GST07 - 1M□□□ 080C32	
	158	45	0.9	8.900	GST05 - 1M□□□ 080C32	
	158	45	1.9	8.900	GST06 - 1M□□□ 080C32	
	158	45	2.5	8.900	GST07 - 1M□□□ 080C32	
	125	56	1.1	11.250	GST06 - 1M□□□ 080C32	
	125	56	2.0	11.250	GST07 - 1M□□□ 080C32	
					GST □□ - 2M	**3-111**
n1=2850	964	7	4.4	2.956	GST04 - 2M□□□ 080-11	
	855	8	4.2	3.333	GST04 - 2M□□□ 080-11	
	703	10	3.7	4.053	GST04 - 2M□□□ 080-11	
	623	11	3.5	4.571	GST04 - 2M□□□ 080-11	
	549	13	3.2	5.187	GST04 - 2M□□□ 080-11	
	487	14	3.0	5.850	GST04 - 2M□□□ 080-11	
	445	16	2.8	6.400	GST04 - 2M□□□ 080-11	
	405	17	2.7	7.040	GST04 - 2M□□□ 080-11	
	356	20	2.4	8.000	GST04 - 2M□□□ 080-11	

Thermal power limit not considered (see page2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GST □□ - 2M**	**3-111**
n1=2850	316	22	2.3	9.010	GST04 - 2M□□□ 080-11	
	289	24	2.2	9.856	GST04 - 2M□□□ 080-11	
	255	27	1.8	11.200	GST04 - 2M□□□ 080-11	
	227	31	1.8	12.571	GST04 - 2M□□□ 080-11	
	200	35	1.4	14.286	GST04 - 2M□□□ 080-11	
	199	35	3.2	14.356	GST05 - 2M□□□ 080-11	
	185	38	1.7	15.400	GST04 - 2M□□□ 080-11	
	163	43	1.3	17.500	GST04 - 2M□□□ 080-11	
	163	43	3.1	17.500	GST05 - 2M□□□ 080-11	
	147	47	1.4	19.360	GST04 - 2M□□□ 080-11	
	142	49	3.0	20.044	GST05 - 2M□□□ 080-11	
	130	54	1.1	22.000	GST04 - 2M□□□ 080-11	
	125	56	2.4	22.778	GST05 - 2M□□□ 080-11	
	114	61	1.1	24.933	GST04 - 2M□□□ 080-11	
	114	61	2.4	24.933	GST05 - 2M□□□ 080-11	
	101	69	0.8	28.333	GST04 - 2M□□□ 080-11	
	101	69	2.0	28.333	GST05 - 2M□□□ 080-11	
	88	79	1.9	32.267	GST05 - 2M□□□ 080-11	
	78	89	1.5	36.667	GST05 - 2M□□□ 080-11	
	73	96	1.6	39.160	GST05 - 2M□□□ 080-11	
	64	109	1.4	44.500	GST05 - 2M□□□ 080-11	
	64	109	3.0	44.500	GST06 - 2M□□□ 080-11	
	58	121	2.3	49.500	GST06 - 2M□□□ 080-11	
	51	137	2.3	56.250	GST06 - 2M□□□ 080-11	
n1=1410	477	15	2.7	2.956	GST04 - 2M□□□ 080C32	
	423	16	2.5	3.333	GST04 - 2M□□□ 080C32	
	348	20	2.3	4.053	GST04 - 2M□□□ 080C32	
	308	23	2.1	4.571	GST04 - 2M□□□ 080C32	
	272	26	2.0	5.187	GST04 - 2M□□□ 080C32	
	241	29	1.8	5.850	GST04 - 2M□□□ 080C32	
	220	32	1.7	6.400	GST04 - 2M□□□ 080C32	
	200	35	1.6	7.040	GST04 - 2M□□□ 080C32	
	195	36	3.0	7.238	GST05 - 2M□□□ 080C32	
	176	39	1.5	8.000	GST04 - 2M□□□ 080C32	
	173	40	2.9	8.163	GST05 - 2M□□□ 080C32	
	157	44	1.4	9.010	GST04 - 2M□□□ 080C32	
	157	44	2.7	9.010	GST05 - 2M□□□ 080C32	
	143	49	1.3	9.856	GST04 - 2M□□□ 080C32	
	141	49	2.5	10.000	GST05 - 2M□□□ 080C32	
	126	55	1.1	11.200	GST04 - 2M□□□ 080C32	
	126	55	2.3	11.200	GST05 - 2M□□□ 080C32	
	112	62	1.1	12.571	GST04 - 2M□□□ 080C32	
	108	64	2.1	13.016	GST05 - 2M□□□ 080C32	

Thermal power limit not considered (see page2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GST □□ - 2M**	**3-111**
n1=1410	99	70	0.9	14.286	GST04 - 2M□□□ 080C32	
	98	71	2.0	14.356	GST05 - 2M□□□ 080C32	
	92	76	0.9	15.400	GST04 - 2M□□□ 080C32	
	87	80	1.9	16.190	GST05 - 2M□□□ 080C32	
	81	86	1.6	17.500	GST05 - 2M□□□ 080C32	
	70	99	1.6	20.044	GST05 - 2M□□□ 080C32	
	62	112	1.3	22.778	GST05 - 2M□□□ 080C32	
	62	112	2.8	22.778	GST06 - 2M□□□ 080C32	
	57	123	1.3	24.933	GST05 - 2M□□□ 080C32	
	57	123	2.9	24.933	GST06 - 2M□□□ 080C32	
	50	140	1.1	28.333	GST05 - 2M□□□ 080C32	
	50	140	2.3	28.333	GST06 - 2M□□□ 080C32	
	44	159	1.0	32.267	GST05 - 2M□□□ 080C32	
	44	159	2.3	32.267	GST06 - 2M□□□ 080C32	
	44	159	2.9	32.267	GST07 - 2M□□□ 080C32	
	39	181	0.8	36.667	GST05 - 2M□□□ 080C32	
	39	181	1.8	36.667	GST06 - 2M□□□ 080C32	
	39	181	2.9	36.667	GST07 - 2M□□□ 080C32	
	36	193	0.9	39.160	GST05 - 2M□□□ 080C32	
	36	193	1.9	39.160	GST06 - 2M□□□ 080C32	
	36	193	2.5	39.160	GST07 - 2M□□□ 080C32	
	32	219	1.5	44.500	GST06 - 2M□□□ 080C32	
	32	219	2.5	44.500	GST07 - 2M□□□ 080C32	
	29	244	1.1	49.500	GST06 - 2M□□□ 080C32	
	29	244	2.0	49.500	GST07 - 2M□□□ 080C32	
	25	277	1.1	56.250	GST06 - 2M□□□ 080C32	
	25	277	2.0	56.250	GST07 - 2M□□□ 080C32	
					GST □□ - 3M	**3-122**
	21	329	1.1	67.760	GST06 - 3M□□□ 080C32	
	22	316	2.2	65.079	GST07 - 3M□□□ 080C32	
	20	341	1.1	70.156	GST06 - 3M□□□ 080C32	
	20	341	2.1	70.156	GST07 - 3M□□□ 080C32	
	17	393	0.8	80.952	GST06 - 3M□□□ 080C32	
	18	387	1.8	79.762	GST07 - 3M□□□ 080C32	
	16	424	0.9	87.267	GST06 - 3M□□□ 080C32	
	16	417	1.7	85.983	GST07 - 3M□□□ 080C32	
	14	474	1.5	97.708	GST07 - 3M□□□ 080C32	
	13	543	1.3	111.915	GST07 - 3M□□□ 080C32	
	12	551	2.9	113.585	GST09 - 3M□□□ 080C32	
	11	617	1.2	127.176	GST07 - 3M□□□ 080C32	
	11	627	2.6	129.074	GST09 - 3M□□□ 080C32	
	10	676	1.0	139.211	GST07 - 3M□□□ 080C32	
	10.0	686	2.4	141.289	GST09 - 3M□□□ 080C32	
	8.9	768	0.9	158.194	GST07 - 3M□□□ 080C32	
	8.8	779	2.1	160.556	GST09 - 3M□□□ 080C32	
	7.8	875	0.8	180.156	GST07 - 3M□□□ 080C32	
	7.7	888	1.8	182.844	GST09 - 3M□□□ 080C32	

Thermal power limit not considered (see page2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical geared motor	Dimensions Page
0.75 kW					**GST □□ - 3M**	3-122
n1=1410	6.8	1009	1.6	207.778	GST09 - 3M□□□ 080C32	
	6.8	1009	2.8	207.778	GST11 - 3M□□□ 080C32	
	6.0	1149	1.4	236.622	GST09 - 3M□□□ 080C32	
	6.0	1149	2.3	236.622	GST11 - 3M□□□ 080C32	
	5.6	1224	1.3	252.167	GST09 - 3M□□□ 080C32	
	5.6	1224	2.3	252.167	GST11 - 3M□□□ 080C32	
	5.2	1305	1.2	268.889	GST09 - 3M□□□ 080C32	
	5.2	1305	2.2	268.889	GST11 - 3M□□□ 080C32	
	4.3	1584	1.0	326.333	GST09 - 3M□□□ 080C32	
	4.3	1584	1.8	326.333	GST11 - 3M□□□ 080C32	
	3.9	1762	0.9	363.000	GST09 - 3M□□□ 080C32	
	3.9	1762	1.5	363.000	GST11 - 3M□□□ 080C32	
	3.4	2002	0.8	412.500	GST09 - 3M□□□ 080C32	
	3.4	2002	1.4	412.500	GST11 - 3M□□□ 080C32	
1.1 kW					**GST □□ - 1M**	3-102
n1=1390	869	12	1.6	1.600	GST04 - 1M□□□ 080C42	
	679	15	1.5	2.048	GST04 - 1M□□□ 080C42	
	621	17	1.5	2.240	GST04 - 1M□□□ 080C42	
	621	17	3.2	2.240	GST05 - 1M□□□ 080C42	
	487	21	1.2	2.857	GST04 - 1M□□□ 080C42	
	487	21	2.5	2.857	GST05 - 1M□□□ 080C42	
	397	26	1.0	3.500	GST04 - 1M□□□ 080C42	
	397	26	2.1	3.500	GST05 - 1M□□□ 080C42	
	305	34	1.6	4.556	GST05 - 1M□□□ 080C42	
	305	34	3.1	4.556	GST06 - 1M□□□ 080C42	
	245	42	1.3	5.667	GST05 - 1M□□□ 080C42	
	245	42	2.5	5.667	GST06 - 1M□□□ 080C42	
	249	42	3.1	5.583	GST07 - 1M□□□ 080C42	
	190	55	1.8	7.333	GST06 - 1M□□□ 080C42	
	190	55	2.9	7.333	GST07 - 1M□□□ 080C42	
	156	66	1.3	8.900	GST06 - 1M□□□ 080C42	
	156	66	2.3	8.900	GST07 - 1M□□□ 080C42	
	124	84	1.4	11.250	GST07 - 1M□□□ 080C42	
					GST □□ - 2M	3-111
n1=2810	951	11	3.0	2.956	GST04 - 2M□□□ 080-31	
	843	12	2.8	3.333	GST04 - 2M□□□ 080-31	
	693	15	2.5	4.053	GST04 - 2M□□□ 080-31	
	615	17	2.3	4.571	GST04 - 2M□□□ 080-31	
	542	19	2.2	5.187	GST04 - 2M□□□ 080-31	
	480	21	2.0	5.850	GST04 - 2M□□□ 080-31	
	439	23	1.9	6.400	GST04 - 2M□□□ 080-31	
	399	26	1.8	7.040	GST04 - 2M□□□ 080-31	
	351	29	1.6	8.000	GST04 - 2M□□□ 080-31	
	344	30	3.2	8.163	GST05 - 2M□□□ 080-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GST □□ - 2M**	**3-111**
n1=2810	312	33	1.6	9.010	GST04 - 2M□□□ 080-31	
	312	33	2.9	9.010	GST05 - 2M□□□ 080-31	
	285	36	1.5	9.856	GST04 - 2M□□□ 080-31	
	281	36	2.8	10.000	GST05 - 2M□□□ 080-31	
	251	41	1.2	11.200	GST04 - 2M□□□ 080-31	
	251	41	2.5	11.200	GST05 - 2M□□□ 080-31	
	224	46	1.2	12.571	GST04 - 2M□□□ 080-31	
	216	47	2.4	13.016	GST05 - 2M□□□ 080-31	
	197	52	1.0	14.286	GST04 - 2M□□□ 080-31	
	196	52	2.2	14.356	GST05 - 2M□□□ 080-31	
	183	56	1.1	15.400	GST04 - 2M□□□ 080-31	
	174	59	2.3	16.190	GST05 - 2M□□□ 080-31	
	161	64	0.9	17.500	GST04 - 2M□□□ 080-31	
	161	64	2.1	17.500	GST05 - 2M□□□ 080-31	
	145	70	0.9	19.360	GST04 - 2M□□□ 080-31	
	140	73	2.0	20.044	GST05 - 2M□□□ 080-31	
	123	83	1.6	22.778	GST05 - 2M□□□ 080-31	
	113	90	1.7	24.933	GST05 - 2M□□□ 080-31	
	99	103	1.3	28.333	GST05 - 2M□□□ 080-31	
	99	103	2.8	28.333	GST06 - 2M□□□ 080-31	
	87	117	1.3	32.267	GST05 - 2M□□□ 080-31	
	87	117	2.9	32.267	GST06 - 2M□□□ 080-31	
	77	133	1.0	36.667	GST05 - 2M□□□ 080-31	
	77	133	2.2	36.667	GST06 - 2M□□□ 080-31	
	72	142	1.1	39.160	GST05 - 2M□□□ 080-31	
	72	142	2.4	39.160	GST06 - 2M□□□ 080-31	
	72	142	3.2	39.160	GST07 - 2M□□□ 080-31	
	63	161	0.9	44.500	GST05 - 2M□□□ 080-31	
	63	161	2.0	44.500	GST06 - 2M□□□ 080-31	
	57	180	1.5	49.500	GST06 - 2M□□□ 080-31	
	57	180	2.7	49.500	GST07 - 2M□□□ 080-31	
	50	204	1.5	56.250	GST06 - 2M□□□ 080-31	
	50	204	2.7	56.250	GST07 - 2M□□□ 080-31	
n1=1390	470	22	1.8	2.956	GST04 - 2M□□□ 080C42	
	470	22	2.9	2.956	GST05 - 2M□□□ 080C42	
	417	24	1.7	3.333	GST04 - 2M□□□ 080C42	
	417	24	3.2	3.333	GST05 - 2M□□□ 080C42	
	343	30	1.5	4.053	GST04 - 2M□□□ 080C42	
	343	30	2.7	4.053	GST05 - 2M□□□ 080C42	
	304	34	1.4	4.571	GST04 - 2M□□□ 080C42	
	304	34	2.7	4.571	GST05 - 2M□□□ 080C42	
	268	38	1.3	5.187	GST04 - 2M□□□ 080C42	
	268	38	2.4	5.187	GST05 - 2M□□□ 080C42	
	238	43	1.2	5.850	GST04 - 2M□□□ 080C42	
	238	43	2.4	5.850	GST05 - 2M□□□ 080C42	
	217	47	1.2	6.400	GST04 - 2M□□□ 080C42	
	217	47	2.2	6.400	GST05 - 2M□□□ 080C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GST □□ - 2M**	**3-111**
n1=1390	197	52	1.1	7.040	GST04 - 2M□□□ 080C42	
	192	53	2.0	7.238	GST05 - 2M□□□ 080C42	
	174	59	1.0	8.000	GST04 - 2M□□□ 080C42	
	170	60	1.9	8.163	GST05 - 2M□□□ 080C42	
	154	66	0.9	9.010	GST04 - 2M□□□ 080C42	
	154	66	1.8	9.010	GST05 - 2M□□□ 080C42	
	141	72	0.9	9.856	GST04 - 2M□□□ 080C42	
	139	73	1.7	10.000	GST05 - 2M□□□ 080C42	
	124	82	1.6	11.200	GST05 - 2M□□□ 080C42	
	107	95	1.4	13.016	GST05 - 2M□□□ 080C42	
	111	92	3.2	12.571	GST06 - 2M□□□ 080C42	
	97	105	1.3	14.356	GST05 - 2M□□□ 080C42	
	97	105	2.9	14.286	GST06 - 2M□□□ 080C42	
	86	119	1.3	16.190	GST05 - 2M□□□ 080C42	
	90	113	2.8	15.400	GST06 - 2M□□□ 080C42	
	79	128	1.1	17.500	GST05 - 2M□□□ 080C42	
	79	128	2.4	17.500	GST06 - 2M□□□ 080C42	
	69	147	1.1	20.044	GST05 - 2M□□□ 080C42	
	69	147	2.4	20.044	GST06 - 2M□□□ 080C42	
	61	167	0.9	22.778	GST05 - 2M□□□ 080C42	
	61	167	1.9	22.778	GST06 - 2M□□□ 080C42	
	56	183	0.9	24.933	GST05 - 2M□□□ 080C42	
	56	183	2.0	24.933	GST06 - 2M□□□ 080C42	
	57	180	3.1	24.567	GST07 - 2M□□□ 080C42	
	49	208	1.5	28.333	GST06 - 2M□□□ 080C42	
	50	205	3.1	27.917	GST07 - 2M□□□ 080C42	
	43	237	1.5	32.267	GST06 - 2M□□□ 080C42	
	43	237	2.9	32.267	GST07 - 2M□□□ 080C42	
	38	269	1.2	36.667	GST06 - 2M□□□ 080C42	
	38	269	2.6	36.667	GST07 - 2M□□□ 080C42	
	36	287	1.3	39.160	GST06 - 2M□□□ 080C42	
	36	287	2.3	39.160	GST07 - 2M□□□ 080C42	
	31	326	1.0	44.500	GST06 - 2M□□□ 080C42	
	31	326	2.2	44.500	GST07 - 2M□□□ 080C42	
	28	363	1.4	49.500	GST07 - 2M□□□ 080C42	
	25	412	1.4	56.250	GST07 - 2M□□□ 080C42	
					GST □□ - 3M	**3-122**
	24	419	4.5	57.968	GST11 - 3M□□□ 080C42	
	21	470	1.5	65.079	GST07 - 3M□□□ 080C42	
	20	507	1.4	70.156	GST07 - 3M□□□ 080C42	
	19	519	2.8	71.867	GST09 - 3M□□□ 080C42	
	17	576	1.2	79.762	GST07 - 3M□□□ 080C42	
	17	590	2.7	81.667	GST09 - 3M□□□ 080C42	
	16	621	1.1	85.983	GST07 - 3M□□□ 080C42	
	15	676	2.4	93.541	GST09 - 3M□□□ 080C42	
	14	706	1.0	97.708	GST07 - 3M□□□ 080C42	
	14	716	2.2	99.167	GST09 - 3M□□□ 080C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GST □□ - 3M**	3-122
n1=1390	12	808	0.9	111.915	GST07 - 3M□□□ 080C42	
	12	820	2.0	113.585	GST09 - 3M□□□ 080C42	
	11	932	1.7	129.074	GST09 - 3M□□□ 080C42	
	11	932	3.0	129.074	GST11 - 3M□□□ 080C42	
	9.8	1020	1.6	141.289	GST09 - 3M□□□ 080C42	
	9.5	1062	2.5	146.993	GST11 - 3M□□□ 080C42	
	8.7	1160	1.4	160.556	GST09 - 3M□□□ 080C42	
	8.8	1143	2.5	158.194	GST11 - 3M□□□ 080C42	
	7.6	1321	1.2	182.844	GST09 - 3M□□□ 080C42	
	7.7	1301	2.1	180.156	GST11 - 3M□□□ 080C42	
	6.7	1501	1.1	207.778	GST09 - 3M□□□ 080C42	
	6.7	1501	1.9	207.778	GST11 - 3M□□□ 080C42	
	5.9	1709	0.9	236.622	GST09 - 3M□□□ 080C42	
	5.9	1709	1.6	236.622	GST11 - 3M□□□ 080C42	
	5.5	1821	0.9	252.167	GST09 - 3M□□□ 080C42	
	5.5	1821	1.5	252.167	GST11 - 3M□□□ 080C42	
	5.2	1942	0.8	268.889	GST09 - 3M□□□ 080C42	
	5.2	1942	1.5	268.889	GST11 - 3M□□□ 080C42	
	4.3	2357	1.2	326.333	GST11 - 3M□□□ 080C42	
	3.8	2622	1.0	363.000	GST11 - 3M□□□ 080C42	
	3.4	2979	1.0	412.500	GST11 - 3M□□□ 080C42	
1.5 kW					**GST □□ - 1M**	3-102
n1=1390	869	16	1.2	1.600	GST04 - 1M□□□ 090C32	
	869	16	2.8	1.600	GST05 - 1M□□□ 090C32	
	679	21	1.1	2.048	GST04 - 1M□□□ 090C32	
	679	21	2.5	2.048	GST05 - 1M□□□ 090C32	
	621	23	1.1	2.240	GST04 - 1M□□□ 090C32	
	621	23	2.3	2.240	GST05 - 1M□□□ 090C32	
	487	29	0.9	2.857	GST04 - 1M□□□ 090C32	
	487	29	1.8	2.857	GST05 - 1M□□□ 090C32	
	487	29	3.2	2.857	GST06 - 1M□□□ 090C32	
	397	36	1.5	3.500	GST05 - 1M□□□ 090C32	
	397	36	2.9	3.500	GST06 - 1M□□□ 090C32	
	305	46	1.2	4.556	GST05 - 1M□□□ 090C32	
	305	46	2.3	4.556	GST06 - 1M□□□ 090C32	
	245	58	0.9	5.667	GST05 - 1M□□□ 090C32	
	245	58	1.8	5.667	GST06 - 1M□□□ 090C32	
	249	57	2.8	5.583	GST07 - 1M□□□ 090C32	
	190	74	1.3	7.333	GST06 - 1M□□□ 090C32	
	190	74	2.4	7.333	GST07 - 1M□□□ 090C32	
	190	74	2.8	7.333	GST09 - 1M□□□ 090C32	
	156	90	0.9	8.900	GST06 - 1M□□□ 090C32	
	156	90	2.0	8.900	GST07 - 1M□□□ 090C32	
	156	90	2.5	8.900	GST09 - 1M□□□ 090C32	
	124	114	1.2	11.250	GST07 - 1M□□□ 090C32	
	124	114	1.9	11.250	GST09 - 1M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GST □□ - 2M**	**3-111**
n1=2840	961	15	2.2	2.956	GST04 - 2M□□□ 090-11	
	852	16	2.1	3.333	GST04 - 2M□□□ 090-11	
	701	20	1.8	4.053	GST04 - 2M□□□ 090-11	
	621	22	1.7	4.571	GST04 - 2M□□□ 090-11	
	548	25	1.6	5.187	GST04 - 2M□□□ 090-11	
	548	25	2.9	5.187	GST05 - 2M□□□ 090-11	
	485	29	1.5	5.850	GST04 - 2M□□□ 090-11	
	485	29	2.9	5.850	GST05 - 2M□□□ 090-11	
	444	31	1.4	6.400	GST04 - 2M□□□ 090-11	
	444	31	2.7	6.400	GST05 - 2M□□□ 090-11	
	403	35	1.3	7.040	GST04 - 2M□□□ 090-11	
	392	35	2.5	7.238	GST05 - 2M□□□ 090-11	
	355	39	1.2	8.000	GST04 - 2M□□□ 090-11	
	348	40	2.3	8.163	GST05 - 2M□□□ 090-11	
	315	44	1.1	9.010	GST04 - 2M□□□ 090-11	
	315	44	2.2	9.010	GST05 - 2M□□□ 090-11	
	288	48	1.1	9.856	GST04 - 2M□□□ 090-11	
	284	49	2.1	10.000	GST05 - 2M□□□ 090-11	
	254	55	0.9	11.200	GST04 - 2M□□□ 090-11	
	254	55	1.9	11.200	GST05 - 2M□□□ 090-11	
	226	62	0.9	12.571	GST04 - 2M□□□ 090-11	
	218	64	1.7	13.016	GST05 - 2M□□□ 090-11	
	198	70	1.6	14.356	GST05 - 2M□□□ 090-11	
	184	75	0.8	15.400	GST04 - 2M□□□ 090-11	
	175	79	1.7	16.190	GST05 - 2M□□□ 090-11	
	162	86	1.5	17.500	GST05 - 2M□□□ 090-11	
	142	98	1.5	20.044	GST05 - 2M□□□ 090-11	
	125	112	1.2	22.778	GST05 - 2M□□□ 090-11	
	125	112	2.6	22.778	GST06 - 2M□□□ 090-11	
	114	122	1.2	24.933	GST05 - 2M□□□ 090-11	
	114	122	2.7	24.933	GST06 - 2M□□□ 090-11	
	100	139	1.0	28.333	GST05 - 2M□□□ 090-11	
	100	139	2.1	28.333	GST06 - 2M□□□ 090-11	
	88	158	2.1	32.267	GST06 - 2M□□□ 090-11	
	78	179	1.6	36.667	GST06 - 2M□□□ 090-11	
	73	192	1.8	39.160	GST06 - 2M□□□ 090-11	
	64	218	1.5	44.500	GST06 - 2M□□□ 090-11	
	64	218	3.2	44.500	GST07 - 2M□□□ 090-11	
	57	242	2.5	49.500	GST07 - 2M□□□ 090-11	
	51	275	2.5	56.250	GST07 - 2M□□□ 090-11	
n1=1390	470	30	1.3	2.956	GST04 - 2M□□□ 090C32	
	470	30	2.1	2.956	GST05 - 2M□□□ 090C32	
	417	33	1.3	3.333	GST04 - 2M□□□ 090C32	
	417	33	2.3	3.333	GST05 - 2M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GST □□ - 2M**	**3-111**
n1=1390	343	41	1.1	4.053	GST04 - 2M□□□ 090C32	
	343	41	2.0	4.053	GST05 - 2M□□□ 090C32	
	304	46	1.1	4.571	GST04 - 2M□□□ 090C32	
	304	46	2.0	4.571	GST05 - 2M□□□ 090C32	
	268	52	1.0	5.187	GST04 - 2M□□□ 090C32	
	268	52	1.7	5.187	GST05 - 2M□□□ 090C32	
	238	59	0.9	5.850	GST04 - 2M□□□ 090C32	
	238	59	1.7	5.850	GST05 - 2M□□□ 090C32	
	217	64	0.9	6.400	GST04 - 2M□□□ 090C32	
	217	64	1.6	6.400	GST05 - 2M□□□ 090C32	
	197	70	0.8	7.040	GST04 - 2M□□□ 090C32	
	192	72	1.5	7.238	GST05 - 2M□□□ 090C32	
	170	82	1.4	8.163	GST05 - 2M□□□ 090C32	
	170	82	3.1	8.163	GST06 - 2M□□□ 090C32	
	154	90	1.3	9.010	GST05 - 2M□□□ 090C32	
	154	90	2.9	9.010	GST06 - 2M□□□ 090C32	
	139	100	1.2	10.000	GST05 - 2M□□□ 090C32	
	139	100	2.7	10.000	GST06 - 2M□□□ 090C32	
	124	112	1.1	11.200	GST05 - 2M□□□ 090C32	
	124	112	2.5	11.200	GST06 - 2M□□□ 090C32	
	107	130	1.1	13.016	GST05 - 2M□□□ 090C32	
	111	126	2.3	12.571	GST06 - 2M□□□ 090C32	
	97	144	1.0	14.356	GST05 - 2M□□□ 090C32	
	97	143	2.1	14.286	GST06 - 2M□□□ 090C32	
	86	162	0.9	16.190	GST05 - 2M□□□ 090C32	
	90	154	2.1	15.400	GST06 - 2M□□□ 090C32	
	79	175	0.8	17.500	GST05 - 2M□□□ 090C32	
	79	175	1.8	17.500	GST06 - 2M□□□ 090C32	
	69	200	1.7	20.044	GST06 - 2M□□□ 090C32	
	61	228	1.4	22.778	GST06 - 2M□□□ 090C32	
	61	228	3.0	22.778	GST07 - 2M□□□ 090C32	
	56	249	1.4	24.933	GST06 - 2M□□□ 090C32	
	57	246	2.8	24.567	GST07 - 2M□□□ 090C32	
	49	283	1.1	28.333	GST06 - 2M□□□ 090C32	
	50	279	2.5	27.917	GST07 - 2M□□□ 090C32	
	43	323	1.1	32.267	GST06 - 2M□□□ 090C32	
	43	323	2.2	32.267	GST07 - 2M□□□ 090C32	
	43	323	2.8	32.267	GST09 - 2M□□□ 090C32	
	38	367	0.9	36.667	GST06 - 2M□□□ 090C32	
	38	367	1.9	36.667	GST07 - 2M□□□ 090C32	
	38	367	2.8	36.667	GST09 - 2M□□□ 090C32	
	36	392	0.9	39.160	GST06 - 2M□□□ 090C32	
	36	392	1.8	39.160	GST07 - 2M□□□ 090C32	
	36	392	2.5	39.160	GST09 - 2M□□□ 090C32	
	31	445	1.6	44.500	GST07 - 2M□□□ 090C32	
	31	445	2.5	44.500	GST09 - 2M□□□ 090C32	
	28	495	1.2	49.500	GST07 - 2M□□□ 090C32	
	28	495	1.9	49.500	GST09 - 2M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GST □□ - 2M**	3-111
n1=1390	25	562	1.2	56.250	GST07 - 2M□□□ 090C32	
	25	562	1.9	56.250	GST09 - 2M□□□ 090C32	
					GST □□ - 3M	3-122
	24	571	4.1	57.968	GST11 - 3M□□□ 090C32	
	21	641	1.1	65.079	GST07 - 3M□□□ 090C32	
	23	594	2.6	60.278	GST09 - 3M□□□ 090C32	
	20	691	1.0	70.156	GST07 - 3M□□□ 090C32	
	19	708	2.1	71.867	GST09 - 3M□□□ 090C32	
	17	786	0.9	79.762	GST07 - 3M□□□ 090C32	
	17	804	2.0	81.667	GST09 - 3M□□□ 090C32	
	16	847	0.8	85.983	GST07 - 3M□□□ 090C32	
	15	921	1.8	93.541	GST09 - 3M□□□ 090C32	
	14	977	1.6	99.167	GST09 - 3M□□□ 090C32	
	12	1119	1.4	113.585	GST09 - 3M□□□ 090C32	
	11	1271	1.3	129.074	GST09 - 3M□□□ 090C32	
	11	1271	2.2	129.074	GST11 - 3M□□□ 090C32	
	9.8	1391	1.2	141.289	GST09 - 3M□□□ 090C32	
	9.5	1448	1.9	146.993	GST11 - 3M□□□ 090C32	
	8.7	1581	1.0	160.556	GST09 - 3M□□□ 090C32	
	8.8	1558	1.8	158.194	GST11 - 3M□□□ 090C32	
	7.6	1801	0.9	182.844	GST09 - 3M□□□ 090C32	
	7.7	1774	1.5	180.156	GST11 - 3M□□□ 090C32	
	6.7	2046	1.4	207.778	GST11 - 3M□□□ 090C32	
	6.8	2016	2.8	204.722	GST14 - 3M□□□ 090C32	
	5.9	2330	1.2	236.622	GST11 - 3M□□□ 090C32	
	5.9	2330	2.5	236.622	GST14 - 3M□□□ 090C32	
	5.5	2483	1.1	252.167	GST11 - 3M□□□ 090C32	
	5.6	2447	2.4	248.458	GST14 - 3M□□□ 090C32	
	5.2	2648	1.1	268.889	GST11 - 3M□□□ 090C32	
	5.2	2648	2.2	268.889	GST14 - 3M□□□ 090C32	
	4.3	3214	0.9	326.333	GST11 - 3M□□□ 090C32	
	4.3	3214	1.8	326.333	GST14 - 3M□□□ 090C32	
	3.8	3575	1.6	363.000	GST14 - 3M□□□ 090C32	
	3.4	4062	1.5	412.500	GST14 - 3M□□□ 090C32	
2.2 kW					**GST □□ - 1M**	3-102
n1=1440	900	23	1.9	1.600	GST05 - 1M□□□ 100C12	
	900	23	2.7	1.600	GST06 - 1M□□□ 100C12	
	703	29	1.8	2.048	GST05 - 1M□□□ 100C12	
	703	29	2.5	2.048	GST06 - 1M□□□ 100C12	
	643	32	1.6	2.240	GST05 - 1M□□□ 100C12	
	643	32	2.4	2.240	GST06 - 1M□□□ 100C12	
	504	41	1.3	2.857	GST05 - 1M□□□ 100C12	
	504	41	2.3	2.857	GST06 - 1M□□□ 100C12	
	411	50	1.1	3.500	GST05 - 1M□□□ 100C12	
	411	50	2.1	3.500	GST06 - 1M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GST □□ - 1M**	**3-102**
n1=1440	316	66	1.6	4.556	GST06 - 1M□□□ 100C12	
	316	66	2.8	4.556	GST07 - 1M□□□ 100C12	
	254	81	1.3	5.667	GST06 - 1M□□□ 100C12	
	258	80	2.4	5.583	GST07 - 1M□□□ 100C12	
	196	105	1.9	7.333	GST07 - 1M□□□ 100C12	
	196	105	2.8	7.333	GST09 - 1M□□□ 100C12	
	162	128	1.4	8.900	GST07 - 1M□□□ 100C12	
	162	128	2.3	8.900	GST09 - 1M□□□ 100C12	
	128	162	1.8	11.250	GST09 - 1M□□□ 100C12	
					GST □□ - 2M	**3-111**
n1=2840	961	21	1.5	2.956	GST04 - 2M□□□ 090-31	
	961	21	2.4	2.956	GST05 - 2M□□□ 090-31	
	852	24	1.4	3.333	GST04 - 2M□□□ 090-31	
	852	24	2.6	3.333	GST05 - 2M□□□ 090-31	
	701	29	1.3	4.053	GST04 - 2M□□□ 090-31	
	701	29	2.3	4.053	GST05 - 2M□□□ 090-31	
	621	33	1.2	4.571	GST04 - 2M□□□ 090-31	
	621	33	2.3	4.571	GST05 - 2M□□□ 090-31	
	548	37	1.1	5.187	GST04 - 2M□□□ 090-31	
	548	37	2.0	5.187	GST05 - 2M□□□ 090-31	
	485	42	1.0	5.850	GST04 - 2M□□□ 090-31	
	485	42	2.0	5.850	GST05 - 2M□□□ 090-31	
	444	46	1.0	6.400	GST04 - 2M□□□ 090-31	
	444	46	1.8	6.400	GST05 - 2M□□□ 090-31	
	403	51	0.9	7.040	GST04 - 2M□□□ 090-31	
	392	52	1.7	7.238	GST05 - 2M□□□ 090-31	
	355	57	0.8	8.000	GST04 - 2M□□□ 090-31	
	348	59	1.6	8.163	GST05 - 2M□□□ 090-31	
	315	65	1.5	9.010	GST05 - 2M□□□ 090-31	
	284	72	1.4	10.000	GST05 - 2M□□□ 090-31	
	284	72	3.0	10.000	GST06 - 2M□□□ 090-31	
	254	80	1.3	11.200	GST05 - 2M□□□ 090-31	
	254	80	2.8	11.200	GST06 - 2M□□□ 090-31	
	218	93	1.2	13.016	GST05 - 2M□□□ 090-31	
	226	90	2.6	12.571	GST06 - 2M□□□ 090-31	
	198	103	1.1	14.356	GST05 - 2M□□□ 090-31	
	199	103	2.4	14.286	GST06 - 2M□□□ 090-31	
	175	116	1.2	16.190	GST05 - 2M□□□ 090-31	
	184	111	2.6	15.400	GST06 - 2M□□□ 090-31	
	162	126	1.0	17.500	GST05 - 2M□□□ 090-31	
	162	126	2.3	17.500	GST06 - 2M□□□ 090-31	
	142	144	1.0	20.044	GST05 - 2M□□□ 090-31	
	142	144	2.2	20.044	GST06 - 2M□□□ 090-31	
	125	164	0.8	22.778	GST05 - 2M□□□ 090-31	
	125	164	1.8	22.778	GST06 - 2M□□□ 090-31	
	114	179	0.8	24.933	GST05 - 2M□□□ 090-31	
	114	179	1.8	24.933	GST06 - 2M□□□ 090-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GST □□ - 2M**	**3-111**
n1=2840	100	203	1.4	28.333	GST06 - 2M□□□ 090-31	
	102	200	3.2	27.917	GST07 - 2M□□□ 090-31	
	88	232	1.4	32.267	GST06 - 2M□□□ 090-31	
	88	232	2.8	32.267	GST07 - 2M□□□ 090-31	
	78	263	1.1	36.667	GST06 - 2M□□□ 090-31	
	78	263	2.5	36.667	GST07 - 2M□□□ 090-31	
	73	281	1.2	39.160	GST06 - 2M□□□ 090-31	
	73	281	2.3	39.160	GST07 - 2M□□□ 090-31	
	73	281	3.2	39.160	GST09 - 2M□□□ 090-31	
	64	319	1.0	44.500	GST06 - 2M□□□ 090-31	
	64	319	2.2	44.500	GST07 - 2M□□□ 090-31	
	57	355	1.7	49.500	GST07 - 2M□□□ 090-31	
	57	355	2.7	49.500	GST09 - 2M□□□ 090-31	
	51	404	1.7	56.250	GST07 - 2M□□□ 090-31	
	51	404	2.7	56.250	GST09 - 2M□□□ 090-31	
n1=1440	487	42	1.5	2.956	GST05 - 2M□□□ 100C12	
	432	47	1.7	3.333	GST05 - 2M□□□ 100C12	
	355	57	1.4	4.053	GST05 - 2M□□□ 100C12	
	346	59	3.2	4.160	GST06 - 2M□□□ 100C12	
	315	65	1.4	4.571	GST05 - 2M□□□ 100C12	
	315	65	3.1	4.571	GST06 - 2M□□□ 100C12	
	278	73	1.2	5.187	GST05 - 2M□□□ 100C12	
	271	75	2.8	5.324	GST06 - 2M□□□ 100C12	
	246	83	1.2	5.850	GST05 - 2M□□□ 100C12	
	246	83	2.7	5.850	GST06 - 2M□□□ 100C12	
	225	91	1.2	6.400	GST05 - 2M□□□ 100C12	
	225	91	2.5	6.400	GST06 - 2M□□□ 100C12	
	199	103	1.1	7.238	GST05 - 2M□□□ 100C12	
	205	100	2.4	7.040	GST06 - 2M□□□ 100C12	
	176	116	1.0	8.163	GST05 - 2M□□□ 100C12	
	176	116	2.2	8.163	GST06 - 2M□□□ 100C12	
	160	128	0.9	9.010	GST05 - 2M□□□ 100C12	
	160	128	2.0	9.010	GST06 - 2M□□□ 100C12	
	144	142	0.9	10.000	GST05 - 2M□□□ 100C12	
	144	142	1.9	10.000	GST06 - 2M□□□ 100C12	
	129	159	0.8	11.200	GST05 - 2M□□□ 100C12	
	129	159	1.8	11.200	GST06 - 2M□□□ 100C12	
	115	178	1.7	12.571	GST06 - 2M□□□ 100C12	
	101	202	1.5	14.286	GST06 - 2M□□□ 100C12	
	101	202	3.2	14.286	GST07 - 2M□□□ 100C12	
	94	218	1.5	15.400	GST06 - 2M□□□ 100C12	
	94	218	3.0	15.400	GST07 - 2M□□□ 100C12	
	82	248	1.3	17.500	GST06 - 2M□□□ 100C12	
	82	248	2.7	17.500	GST07 - 2M□□□ 100C12	
	72	284	1.2	20.044	GST06 - 2M□□□ 100C12	
	72	284	2.4	20.044	GST07 - 2M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GST □□ - 2M**	**3-111**
n1=1440	63	322	1.0	22.778	GST06 - 2M□□□ 100C12	
	63	322	2.1	22.778	GST07 - 2M□□□ 100C12	
	58	353	1.0	24.933	GST06 - 2M□□□ 100C12	
	59	348	2.0	24.567	GST07 - 2M□□□ 100C12	
	52	395	1.7	27.917	GST07 - 2M□□□ 100C12	
	45	457	1.5	32.267	GST07 - 2M□□□ 100C12	
	45	457	2.8	32.267	GST09 - 2M□□□ 100C12	
	39	519	1.4	36.667	GST07 - 2M□□□ 100C12	
	39	519	2.8	36.667	GST09 - 2M□□□ 100C12	
	37	554	1.3	39.160	GST07 - 2M□□□ 100C12	
	37	554	2.3	39.160	GST09 - 2M□□□ 100C12	
	37	554	2.9	39.160	GST11 - 2M□□□ 100C12	
	32	630	1.1	44.500	GST07 - 2M□□□ 100C12	
	32	630	2.3	44.500	GST09 - 2M□□□ 100C12	
	32	630	2.9	44.500	GST11 - 2M□□□ 100C12	
	29	701	1.8	49.500	GST09 - 2M□□□ 100C12	
	29	701	2.3	49.500	GST11 - 2M□□□ 100C12	
	26	796	1.8	56.250	GST09 - 2M□□□ 100C12	
	26	796	2.3	56.250	GST11 - 2M□□□ 100C12	
					GST □□ - 3M	**3-122**
	25	808	3.2	57.968	GST11 - 3M□□□ 100C12	
	24	840	1.9	60.278	GST09 - 3M□□□ 100C12	
	24	854	3.2	61.250	GST11 - 3M□□□ 100C12	
	20	1002	1.5	71.867	GST09 - 3M□□□ 100C12	
	20	990	2.7	71.011	GST11 - 3M□□□ 100C12	
	18	1139	1.4	81.667	GST09 - 3M□□□ 100C12	
	18	1125	2.5	80.694	GST11 - 3M□□□ 100C12	
	15	1304	1.2	93.541	GST09 - 3M□□□ 100C12	
	17	1217	2.2	87.267	GST11 - 3M□□□ 100C12	
	15	1383	1.2	99.167	GST09 - 3M□□□ 100C12	
	15	1383	2.0	99.167	GST11 - 3M□□□ 100C12	
	13	1584	1.0	113.585	GST09 - 3M□□□ 100C12	
	13	1575	1.7	112.933	GST11 - 3M□□□ 100C12	
	11	1800	0.9	129.074	GST09 - 3M□□□ 100C12	
	11	1800	1.6	129.074	GST11 - 3M□□□ 100C12	
	10	1970	0.8	141.289	GST09 - 3M□□□ 100C12	
	9.8	2049	1.3	146.993	GST11 - 3M□□□ 100C12	
	10	1941	3.0	139.211	GST14 - 3M□□□ 100C12	
	9.1	2206	1.3	158.194	GST11 - 3M□□□ 100C12	
	9.1	2206	2.7	158.194	GST14 - 3M□□□ 100C12	
	8.0	2512	1.1	180.156	GST11 - 3M□□□ 100C12	
	8.4	2386	2.5	171.111	GST14 - 3M□□□ 100C12	
	6.9	2897	1.0	207.778	GST11 - 3M□□□ 100C12	
	7.0	2854	2.1	204.722	GST14 - 3M□□□ 100C12	
	6.1	3299	0.8	236.622	GST11 - 3M□□□ 100C12	
	6.1	3299	1.8	236.622	GST14 - 3M□□□ 100C12	
	5.8	3464	1.7	248.458	GST14 - 3M□□□ 100C12	
	5.4	3749	1.6	268.889	GST14 - 3M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GST □□ - 3M**	**3-122**
n1=1440	4.4	4550	1.3	326.333	GST14 - 3M□□□ 100C12	
	4.0	5061	1.1	363.000	GST14 - 3M□□□ 100C12	
	3.5	5751	1.0	412.500	GST14 - 3M□□□ 100C12	
3 kW					**GST □□ - 1M**	**3-102**
n1=1430	894	32	1.4	1.600	GST05 - 1M□□□ 100C32	
	894	32	1.9	1.600	GST06 - 1M□□□ 100C32	
	698	40	1.3	2.048	GST05 - 1M□□□ 100C32	
	698	40	1.8	2.048	GST06 - 1M□□□ 100C32	
	715	40	3.1	2.000	GST07 - 1M□□□ 100C32	
	638	44	1.2	2.240	GST05 - 1M□□□ 100C32	
	638	44	1.8	2.240	GST06 - 1M□□□ 100C32	
	638	44	3.0	2.240	GST07 - 1M□□□ 100C32	
	501	56	0.9	2.857	GST05 - 1M□□□ 100C32	
	501	56	1.6	2.857	GST06 - 1M□□□ 100C32	
	501	56	2.8	2.857	GST07 - 1M□□□ 100C32	
	409	69	1.5	3.500	GST06 - 1M□□□ 100C32	
	409	69	2.5	3.500	GST07 - 1M□□□ 100C32	
	314	90	1.2	4.556	GST06 - 1M□□□ 100C32	
	314	90	2.1	4.556	GST07 - 1M□□□ 100C32	
	306	92	2.9	4.667	GST09 - 1M□□□ 100C32	
	252	112	0.9	5.667	GST06 - 1M□□□ 100C32	
	256	110	1.8	5.583	GST07 - 1M□□□ 100C32	
	252	112	2.5	5.667	GST09 - 1M□□□ 100C32	
	195	145	1.4	7.333	GST07 - 1M□□□ 100C32	
	195	145	2.0	7.333	GST09 - 1M□□□ 100C32	
	161	176	1.0	8.900	GST07 - 1M□□□ 100C32	
	161	176	1.7	8.900	GST09 - 1M□□□ 100C32	
	127	222	1.3	11.250	GST09 - 1M□□□ 100C32	
					GST □□ - 2M	**3-111**
n1=2850	964	29	1.8	2.956	GST05 - 2M□□□ 100-31	
	855	33	1.9	3.333	GST05 - 2M□□□ 100-31	
	703	40	1.7	4.053	GST05 - 2M□□□ 100-31	
	623	45	1.7	4.571	GST05 - 2M□□□ 100-31	
	549	51	1.4	5.187	GST05 - 2M□□□ 100-31	
	535	52	3.2	5.324	GST06 - 2M□□□ 100-31	
	487	57	1.4	5.850	GST05 - 2M□□□ 100-31	
	487	57	3.1	5.850	GST06 - 2M□□□ 100-31	
	445	62	1.4	6.400	GST05 - 2M□□□ 100-31	
	445	62	3.0	6.400	GST06 - 2M□□□ 100-31	
	394	71	1.2	7.238	GST05 - 2M□□□ 100-31	
	405	69	2.8	7.040	GST06 - 2M□□□ 100-31	
	349	80	1.2	8.163	GST05 - 2M□□□ 100-31	
	349	80	2.6	8.163	GST06 - 2M□□□ 100-31	
	316	88	1.1	9.010	GST05 - 2M□□□ 100-31	
	316	88	2.4	9.010	GST06 - 2M□□□ 100-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GST □□ - 2M**	**3-111**
n1=2850	285	98	1.0	10.000	GST05 - 2M□□□ 100-31	
	285	98	2.2	10.000	GST06 - 2M□□□ 100-31	
	255	109	0.9	11.200	GST05 - 2M□□□ 100-31	
	255	109	2.1	11.200	GST06 - 2M□□□ 100-31	
	227	123	1.9	12.571	GST06 - 2M□□□ 100-31	
	200	139	1.8	14.286	GST06 - 2M□□□ 100-31	
	185	150	1.9	15.400	GST06 - 2M□□□ 100-31	
	163	171	1.7	17.500	GST06 - 2M□□□ 100-31	
	142	196	1.6	20.044	GST06 - 2M□□□ 100-31	
	125	222	1.3	22.778	GST06 - 2M□□□ 100-31	
	125	222	2.8	22.778	GST07 - 2M□□□ 100-31	
	114	243	1.4	24.933	GST06 - 2M□□□ 100-31	
	116	240	2.7	24.567	GST07 - 2M□□□ 100-31	
	101	276	1.1	28.333	GST06 - 2M□□□ 100-31	
	102	272	2.3	27.917	GST07 - 2M□□□ 100-31	
	88	315	2.1	32.267	GST07 - 2M□□□ 100-31	
	78	358	1.8	36.667	GST07 - 2M□□□ 100-31	
	73	382	1.7	39.160	GST07 - 2M□□□ 100-31	
	73	382	3.1	39.160	GST09 - 2M□□□ 100-31	
	64	434	1.6	44.500	GST07 - 2M□□□ 100-31	
	58	483	2.7	49.500	GST09 - 2M□□□ 100-31	
	51	549	2.7	56.250	GST09 - 2M□□□ 100-31	
n1=1430	484	57	1.1	2.956	GST05 - 2M□□□ 100C32	
	471	59	2.8	3.033	GST06 - 2M□□□ 100C32	
	429	65	1.2	3.333	GST05 - 2M□□□ 100C32	
	429	65	2.7	3.333	GST06 - 2M□□□ 100C32	
	353	79	1.0	4.053	GST05 - 2M□□□ 100C32	
	344	81	2.4	4.160	GST06 - 2M□□□ 100C32	
	313	89	1.0	4.571	GST05 - 2M□□□ 100C32	
	313	89	2.2	4.571	GST06 - 2M□□□ 100C32	
	276	101	0.9	5.187	GST05 - 2M□□□ 100C32	
	269	104	2.0	5.324	GST06 - 2M□□□ 100C32	
	244	114	0.9	5.850	GST05 - 2M□□□ 100C32	
	244	114	2.0	5.850	GST06 - 2M□□□ 100C32	
	223	124	0.8	6.400	GST05 - 2M□□□ 100C32	
	223	124	1.8	6.400	GST06 - 2M□□□ 100C32	
	203	137	1.7	7.040	GST06 - 2M□□□ 100C32	
	175	159	1.6	8.163	GST06 - 2M□□□ 100C32	
	159	175	1.5	9.010	GST06 - 2M□□□ 100C32	
	163	171	3.1	8.800	GST07 - 2M□□□ 100C32	
	143	194	1.4	10.000	GST06 - 2M□□□ 100C32	
	145	192	2.9	9.856	GST07 - 2M□□□ 100C32	
	128	218	1.3	11.200	GST06 - 2M□□□ 100C32	
	128	218	2.7	11.200	GST07 - 2M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical geared motor	Dimensions Page
3 kW					**GST □□ - 2M**	**3-111**
n1=1430	114	244	1.2	12.571	GST06 - 2M□□□ 100C32	
	114	244	2.5	12.571	GST07 - 2M□□□ 100C32	
	100	278	1.1	14.286	GST06 - 2M□□□ 100C32	
	100	278	2.3	14.286	GST07 - 2M□□□ 100C32	
	93	299	1.1	15.400	GST06 - 2M□□□ 100C32	
	93	299	2.2	15.400	GST07 - 2M□□□ 100C32	
	82	340	0.9	17.500	GST06 - 2M□□□ 100C32	
	82	340	2.0	17.500	GST07 - 2M□□□ 100C32	
	71	390	0.9	20.044	GST06 - 2M□□□ 100C32	
	71	390	1.8	20.044	GST07 - 2M□□□ 100C32	
	70	399	2.9	20.533	GST09 - 2M□□□ 100C32	
	63	443	1.5	22.778	GST07 - 2M□□□ 100C32	
	61	454	2.9	23.333	GST09 - 2M□□□ 100C32	
	58	478	1.5	24.567	GST07 - 2M□□□ 100C32	
	57	485	2.5	24.933	GST09 - 2M□□□ 100C32	
	51	543	1.3	27.917	GST07 - 2M□□□ 100C32	
	51	551	2.5	28.333	GST09 - 2M□□□ 100C32	
	44	627	1.1	32.267	GST07 - 2M□□□ 100C32	
	44	627	2.0	32.267	GST09 - 2M□□□ 100C32	
	44	627	2.5	32.267	GST11 - 2M□□□ 100C32	
	39	713	1.0	36.667	GST07 - 2M□□□ 100C32	
	39	713	2.0	36.667	GST09 - 2M□□□ 100C32	
	39	713	2.5	36.667	GST11 - 2M□□□ 100C32	
	37	761	0.9	39.160	GST07 - 2M□□□ 100C32	
	37	761	1.7	39.160	GST09 - 2M□□□ 100C32	
	37	761	2.1	39.160	GST11 - 2M□□□ 100C32	
	32	865	0.8	44.500	GST07 - 2M□□□ 100C32	
	32	865	1.7	44.500	GST09 - 2M□□□ 100C32	
	32	865	2.1	44.500	GST11 - 2M□□□ 100C32	
	29	962	1.3	49.500	GST09 - 2M□□□ 100C32	
	29	962	1.7	49.500	GST11 - 2M□□□ 100C32	
	25	1093	1.3	56.250	GST09 - 2M□□□ 100C32	
	25	1093	1.7	56.250	GST11 - 2M□□□ 100C32	
					GST □□ - 3M	**3-122**
	25	1110	2.3	57.968	GST11 - 3M□□□ 100C32	
	24	1154	1.4	60.278	GST09 - 3M□□□ 100C32	
	23	1173	2.3	61.250	GST11 - 3M□□□ 100C32	
	20	1376	1.1	71.867	GST09 - 3M□□□ 100C32	
	20	1360	1.9	71.011	GST11 - 3M□□□ 100C32	
	18	1564	1.0	81.667	GST09 - 3M□□□ 100C32	
	18	1545	1.8	80.694	GST11 - 3M□□□ 100C32	
	15	1791	0.9	93.541	GST09 - 3M□□□ 100C32	
	16	1671	1.6	87.267	GST11 - 3M□□□ 100C32	
	15	1791	2.9	93.541	GST14 - 3M□□□ 100C32	
	14	1899	0.8	99.167	GST09 - 3M□□□ 100C32	
	14	1899	1.5	99.167	GST11 - 3M□□□ 100C32	
	13	2162	1.2	112.933	GST11 - 3M□□□ 100C32	
	14	2035	2.9	106.296	GST14 - 3M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GST □□ - 3M**	3-122
n1=1430	11	2471	1.1	129.074	GST11 - 3M□□□ 100C32	
	11	2494	2.4	130.278	GST14 - 3M□□□ 100C32	
	9.7	2814	1.0	146.993	GST11 - 3M□□□ 100C32	
	10	2665	2.2	139.211	GST14 - 3M□□□ 100C32	
	9.0	3029	0.9	158.194	GST11 - 3M□□□ 100C32	
	9.0	3029	2.0	158.194	GST14 - 3M□□□ 100C32	
	8.4	3276	1.8	171.111	GST14 - 3M□□□ 100C32	
	7.0	3920	1.5	204.722	GST14 - 3M□□□ 100C32	
	6.0	4530	1.3	236.622	GST14 - 3M□□□ 100C32	
	5.8	4757	1.2	248.458	GST14 - 3M□□□ 100C32	
	5.3	5148	1.2	268.889	GST14 - 3M□□□ 100C32	
	4.4	6248	0.9	326.333	GST14 - 3M□□□ 100C32	
	3.9	6950	0.8	363.000	GST14 - 3M□□□ 100C32	
4 kW					**GST □□ - 1M**	3-102
n1=1450	906	42	1.5	1.600	GST06 - 1M□□□ 112C22	
	892	42	2.5	1.625	GST07 - 1M□□□ 112C22	
	708	53	1.4	2.048	GST06 - 1M□□□ 112C22	
	725	52	2.4	2.000	GST07 - 1M□□□ 112C22	
	647	58	1.4	2.240	GST06 - 1M□□□ 112C22	
	647	58	2.3	2.240	GST07 - 1M□□□ 112C22	
	508	74	1.2	2.857	GST06 - 1M□□□ 112C22	
	508	74	2.1	2.857	GST07 - 1M□□□ 112C22	
	414	91	1.2	3.500	GST06 - 1M□□□ 112C22	
	414	91	1.9	3.500	GST07 - 1M□□□ 112C22	
	318	118	1.6	4.556	GST07 - 1M□□□ 112C22	
	311	121	2.6	4.667	GST09 - 1M□□□ 112C22	
	260	145	1.4	5.583	GST07 - 1M□□□ 112C22	
	256	147	2.2	5.667	GST09 - 1M□□□ 112C22	
	198	190	1.7	7.333	GST09 - 1M□□□ 112C22	
	163	231	1.5	8.900	GST09 - 1M□□□ 112C22	
					GST □□ - 2M	3-111
n1=2830	958	39	1.3	2.956	GST05 - 2M□□□ 100-41	
	849	44	1.4	3.333	GST05 - 2M□□□ 100-41	
	849	44	3.2	3.333	GST06 - 2M□□□ 100-41	
	698	53	1.2	4.053	GST05 - 2M□□□ 100-41	
	680	55	2.8	4.160	GST06 - 2M□□□ 100-41	
	619	60	1.2	4.571	GST05 - 2M□□□ 100-41	
	619	60	2.7	4.571	GST06 - 2M□□□ 100-41	
	546	68	1.1	5.187	GST05 - 2M□□□ 100-41	
	532	70	2.4	5.324	GST06 - 2M□□□ 100-41	
	484	77	1.1	5.850	GST05 - 2M□□□ 100-41	
	484	77	2.3	5.850	GST06 - 2M□□□ 100-41	
	442	84	1.0	6.400	GST05 - 2M□□□ 100-41	
	442	84	2.2	6.400	GST06 - 2M□□□ 100-41	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GST □□ - 2M**	**3-111**
n1=2830	391	95	0.9	7.238	GST05 - 2M□□□ 100-41	
	402	92	2.1	7.040	GST06 - 2M□□□ 100-41	
	347	107	0.9	8.163	GST05 - 2M□□□ 100-41	
	347	107	1.9	8.163	GST06 - 2M□□□ 100-41	
	314	118	0.8	9.010	GST05 - 2M□□□ 100-41	
	314	118	1.8	9.010	GST06 - 2M□□□ 100-41	
	283	131	1.7	10.000	GST06 - 2M□□□ 100-41	
	253	147	1.5	11.200	GST06 - 2M□□□ 100-41	
	225	165	1.5	12.571	GST06 - 2M□□□ 100-41	
	225	165	3.0	12.571	GST07 - 2M□□□ 100-41	
	198	187	1.3	14.286	GST06 - 2M□□□ 100-41	
	198	187	2.8	14.286	GST07 - 2M□□□ 100-41	
	184	202	1.4	15.400	GST06 - 2M□□□ 100-41	
	184	202	2.9	15.400	GST07 - 2M□□□ 100-41	
	162	229	1.3	17.500	GST06 - 2M□□□ 100-41	
	162	229	2.7	17.500	GST07 - 2M□□□ 100-41	
	141	263	1.2	20.044	GST06 - 2M□□□ 100-41	
	141	263	2.4	20.044	GST07 - 2M□□□ 100-41	
	124	298	1.0	22.778	GST06 - 2M□□□ 100-41	
	124	298	2.1	22.778	GST07 - 2M□□□ 100-41	
	114	327	1.0	24.933	GST06 - 2M□□□ 100-41	
	115	322	2.0	24.567	GST07 - 2M□□□ 100-41	
	101	366	1.7	27.917	GST07 - 2M□□□ 100-41	
	88	423	1.5	32.267	GST07 - 2M□□□ 100-41	
	88	423	2.7	32.267	GST09 - 2M□□□ 100-41	
	77	480	1.3	36.667	GST07 - 2M□□□ 100-41	
	77	480	2.7	36.667	GST09 - 2M□□□ 100-41	
	72	513	1.3	39.160	GST07 - 2M□□□ 100-41	
	72	513	2.3	39.160	GST09 - 2M□□□ 100-41	
	72	513	2.9	39.160	GST11 - 2M□□□ 100-41	
	64	583	1.2	44.500	GST07 - 2M□□□ 100-41	
	64	583	2.5	44.500	GST09 - 2M□□□ 100-41	
	64	583	3.1	44.500	GST11 - 2M□□□ 100-41	
	57	648	2.0	49.500	GST09 - 2M□□□ 100-41	
	57	648	2.5	49.500	GST11 - 2M□□□ 100-41	
	50	737	2.0	56.250	GST09 - 2M□□□ 100-41	
	50	737	2.5	56.250	GST11 - 2M□□□ 100-41	
n1=1450	478	78	2.1	3.033	GST06 - 2M□□□ 112C22	
	435	85	2.0	3.333	GST06 - 2M□□□ 112C22	
	349	106	1.8	4.160	GST06 - 2M□□□ 112C22	
	317	117	1.7	4.571	GST06 - 2M□□□ 112C22	
	272	136	1.5	5.324	GST06 - 2M□□□ 112C22	
	279	133	3.2	5.200	GST07 - 2M□□□ 112C22	
	248	150	1.5	5.850	GST06 - 2M□□□ 112C22	
	254	146	3.1	5.714	GST07 - 2M□□□ 112C22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GST □□ - 2M**	**3-111**
n1=1450	227	164	1.4	6.400	GST06 - 2M□□□ 112C22	
	227	164	2.8	6.400	GST07 - 2M□□□ 112C22	
	206	180	1.3	7.040	GST06 - 2M□□□ 112C22	
	203	183	2.7	7.150	GST07 - 2M□□□ 112C22	
	178	209	1.2	8.163	GST06 - 2M□□□ 112C22	
	179	208	2.6	8.125	GST07 - 2M□□□ 112C22	
	161	230	1.1	9.010	GST06 - 2M□□□ 112C22	
	165	225	2.3	8.800	GST07 - 2M□□□ 112C22	
	145	256	1.1	10.000	GST06 - 2M□□□ 112C22	
	147	252	2.2	9.856	GST07 - 2M□□□ 112C22	
	130	286	1.0	11.200	GST06 - 2M□□□ 112C22	
	130	286	2.1	11.200	GST07 - 2M□□□ 112C22	
	115	321	0.9	12.571	GST06 - 2M□□□ 112C22	
	115	321	1.9	12.571	GST07 - 2M□□□ 112C22	
	102	365	0.8	14.286	GST06 - 2M□□□ 112C22	
	102	365	1.8	14.286	GST07 - 2M□□□ 112C22	
	94	394	0.8	15.400	GST06 - 2M□□□ 112C22	
	94	394	1.6	15.400	GST07 - 2M□□□ 112C22	
	83	447	1.5	17.500	GST07 - 2M□□□ 112C22	
	84	440	3.1	17.222	GST09 - 2M□□□ 112C22	
	72	512	1.4	20.044	GST07 - 2M□□□ 112C22	
	71	525	2.6	20.533	GST09 - 2M□□□ 112C22	
	72	519	3.2	20.289	GST11 - 2M□□□ 112C22	
	64	582	1.2	22.778	GST07 - 2M□□□ 112C22	
	62	596	2.5	23.333	GST09 - 2M□□□ 112C22	
	63	589	3.2	23.056	GST11 - 2M□□□ 112C22	
	59	628	1.1	24.567	GST07 - 2M□□□ 112C22	
	58	637	2.2	24.933	GST09 - 2M□□□ 112C22	
	58	637	2.7	24.933	GST11 - 2M□□□ 112C22	
	52	714	1.0	27.917	GST07 - 2M□□□ 112C22	
	51	724	2.1	28.333	GST09 - 2M□□□ 112C22	
	51	724	2.7	28.333	GST11 - 2M□□□ 112C22	
	45	825	1.7	32.267	GST09 - 2M□□□ 112C22	
	45	825	2.2	32.267	GST11 - 2M□□□ 112C22	
	45	825	2.7	32.267	GST14 - 2M□□□ 112C22	
	40	937	1.6	36.667	GST09 - 2M□□□ 112C22	
	40	937	2.2	36.667	GST11 - 2M□□□ 112C22	
	40	937	2.7	36.667	GST14 - 2M□□□ 112C22	
	37	1001	1.4	39.160	GST09 - 2M□□□ 112C22	
	37	1001	1.8	39.160	GST11 - 2M□□□ 112C22	
	37	1001	2.3	39.160	GST14 - 2M□□□ 112C22	
	33	1137	1.4	44.500	GST09 - 2M□□□ 112C22	
	33	1137	1.8	44.500	GST11 - 2M□□□ 112C22	
	33	1137	2.3	44.500	GST14 - 2M□□□ 112C22	
	29	1265	1.4	49.500	GST11 - 2M□□□ 112C22	
	29	1265	1.8	49.500	GST14 - 2M□□□ 112C22	
	26	1438	1.4	56.250	GST11 - 2M□□□ 112C22	
	26	1438	1.8	56.250	GST14 - 2M□□□ 112C22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GST □□ - 3M**	**3-122**
n1=1450	25	1459	1.8	57.968	GST11 - 3M□□□ 112C22	
	24	1518	1.0	60.278	GST09 - 3M□□□ 112C22	
	24	1542	1.8	61.250	GST11 - 3M□□□ 112C22	
	20	1809	0.8	71.867	GST09 - 3M□□□ 112C22	
	20	1788	1.5	71.011	GST11 - 3M□□□ 112C22	
	21	1738	2.8	69.042	GST14 - 3M□□□ 112C22	
	18	2032	1.4	80.694	GST11 - 3M□□□ 112C22	
	19	1975	2.8	78.457	GST14 - 3M□□□ 112C22	
	17	2197	1.2	87.267	GST11 - 3M□□□ 112C22	
	16	2355	2.3	93.541	GST14 - 3M□□□ 112C22	
	15	2497	1.1	99.167	GST11 - 3M□□□ 112C22	
	15	2421	2.4	96.157	GST14 - 3M□□□ 112C22	
	13	2843	0.9	112.933	GST11 - 3M□□□ 112C22	
	14	2676	2.2	106.296	GST14 - 3M□□□ 112C22	
	11	3250	0.9	129.074	GST11 - 3M□□□ 112C22	
	11	3280	1.8	130.278	GST14 - 3M□□□ 112C22	
	10	3505	1.6	139.211	GST14 - 3M□□□ 112C22	
	9.2	3983	1.5	158.194	GST14 - 3M□□□ 112C22	
	8.5	4308	1.4	171.111	GST14 - 3M□□□ 112C22	
	7.1	5154	1.1	204.722	GST14 - 3M□□□ 112C22	
	6.1	5957	1.0	236.622	GST14 - 3M□□□ 112C22	
	5.8	6255	0.9	248.458	GST14 - 3M□□□ 112C22	
	5.4	6769	0.9	268.889	GST14 - 3M□□□ 112C22	
5.5 kW					**GST □□ - 1M**	**3-102**
n1=1445	903	57	1.1	1.600	GST06 - 1M□□□ 112C32	
	889	58	1.8	1.625	GST07 - 1M□□□ 112C32	
	706	73	1.0	2.048	GST06 - 1M□□□ 112C32	
	723	72	1.7	2.000	GST07 - 1M□□□ 112C32	
	645	80	1.0	2.240	GST06 - 1M□□□ 112C32	
	645	80	1.7	2.240	GST07 - 1M□□□ 112C32	
	619	84	3.1	2.333	GST09 - 1M□□□ 112C32	
	506	102	0.9	2.857	GST06 - 1M□□□ 112C32	
	506	102	1.6	2.857	GST07 - 1M□□□ 112C32	
	514	101	2.8	2.810	GST09 - 1M□□□ 112C32	
	413	125	0.8	3.500	GST06 - 1M□□□ 112C32	
	413	125	1.4	3.500	GST07 - 1M□□□ 112C32	
	420	123	2.4	3.444	GST09 - 1M□□□ 112C32	
	317	163	1.1	4.556	GST07 - 1M□□□ 112C32	
	310	167	1.9	4.667	GST09 - 1M□□□ 112C32	
	259	200	1.0	5.583	GST07 - 1M□□□ 112C32	
	255	203	1.6	5.667	GST09 - 1M□□□ 112C32	
	197	263	1.3	7.333	GST09 - 1M□□□ 112C32	
	162	319	1.1	8.900	GST09 - 1M□□□ 112C32	
					GST □□ - 2M	**3-111**
n1=2890	953	54	2.5	3.033	GST06 - 2M□□□ 112-31	
	867	59	2.4	3.333	GST06 - 2M□□□ 112-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GST □□ - 2M**	**3-111**
n1=2890	695	73	2.1	4.160	GST06 - 2M□□□ 112-31	
	632	81	2.0	4.571	GST06 - 2M□□□ 112-31	
	543	94	1.8	5.324	GST06 - 2M□□□ 112-31	
	494	103	1.7	5.850	GST06 - 2M□□□ 112-31	
	452	113	1.6	6.400	GST06 - 2M□□□ 112-31	
	411	124	1.5	7.040	GST06 - 2M□□□ 112-31	
	404	126	3.1	7.150	GST07 - 2M□□□ 112-31	
	354	144	1.4	8.163	GST06 - 2M□□□ 112-31	
	356	143	3.0	8.125	GST07 - 2M□□□ 112-31	
	321	159	1.3	9.010	GST06 - 2M□□□ 112-31	
	328	155	2.7	8.800	GST07 - 2M□□□ 112-31	
	289	176	1.2	10.000	GST06 - 2M□□□ 112-31	
	293	174	2.5	9.856	GST07 - 2M□□□ 112-31	
	258	198	1.1	11.200	GST06 - 2M□□□ 112-31	
	258	198	2.4	11.200	GST07 - 2M□□□ 112-31	
	230	222	1.1	12.571	GST06 - 2M□□□ 112-31	
	230	222	2.2	12.571	GST07 - 2M□□□ 112-31	
	202	252	1.0	14.286	GST06 - 2M□□□ 112-31	
	202	252	2.0	14.286	GST07 - 2M□□□ 112-31	
	188	272	1.1	15.400	GST06 - 2M□□□ 112-31	
	188	272	2.2	15.400	GST07 - 2M□□□ 112-31	
	165	309	0.9	17.500	GST06 - 2M□□□ 112-31	
	165	309	2.0	17.500	GST07 - 2M□□□ 112-31	
	144	353	1.8	20.044	GST07 - 2M□□□ 112-31	
	127	402	1.6	22.778	GST07 - 2M□□□ 112-31	
	118	433	1.5	24.567	GST07 - 2M□□□ 112-31	
	116	440	2.9	24.933	GST09 - 2M□□□ 112-31	
	104	492	1.3	27.917	GST07 - 2M□□□ 112-31	
	102	500	2.8	28.333	GST09 - 2M□□□ 112-31	
	90	569	2.3	32.267	GST09 - 2M□□□ 112-31	
	90	569	2.9	32.267	GST11 - 2M□□□ 112-31	
	79	647	2.2	36.667	GST09 - 2M□□□ 112-31	
	79	647	2.9	36.667	GST11 - 2M□□□ 112-31	
	74	691	1.9	39.160	GST09 - 2M□□□ 112-31	
	74	691	2.4	39.160	GST11 - 2M□□□ 112-31	
	74	691	3.0	39.160	GST14 - 2M□□□ 112-31	
	65	785	2.0	44.500	GST09 - 2M□□□ 112-31	
	65	785	2.6	44.500	GST11 - 2M□□□ 112-31	
	58	873	2.1	49.500	GST11 - 2M□□□ 112-31	
	58	873	2.6	49.500	GST14 - 2M□□□ 112-31	
	51	992	2.1	56.250	GST11 - 2M□□□ 112-31	
	51	992	2.6	56.250	GST14 - 2M□□□ 112-31	
n1=1445	476	107	1.6	3.033	GST06 - 2M□□□ 112C32	
	474	108	3.0	3.048	GST07 - 2M□□□ 112C32	
	434	118	1.5	3.333	GST06 - 2M□□□ 112C32	
	431	118	3.0	3.350	GST07 - 2M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GST □□ - 2M**	**3-111**
n1=1445	347	147	1.3	4.160	GST06 - 2M□□□ 112C32	
	342	149	2.7	4.225	GST07 - 2M□□□ 112C32	
	316	161	1.2	4.571	GST06 - 2M□□□ 112C32	
	311	164	2.5	4.643	GST07 - 2M□□□ 112C32	
	271	188	1.1	5.324	GST06 - 2M□□□ 112C32	
	278	183	2.3	5.200	GST07 - 2M□□□ 112C32	
	247	206	1.1	5.850	GST06 - 2M□□□ 112C32	
	253	202	2.2	5.714	GST07 - 2M□□□ 112C32	
	226	226	1.0	6.400	GST06 - 2M□□□ 112C32	
	226	226	2.1	6.400	GST07 - 2M□□□ 112C32	
	217	235	3.1	6.667	GST09 - 2M□□□ 112C32	
	205	248	1.0	7.040	GST06 - 2M□□□ 112C32	
	202	252	1.9	7.150	GST07 - 2M□□□ 112C32	
	198	258	2.8	7.305	GST09 - 2M□□□ 112C32	
	177	288	0.9	8.163	GST06 - 2M□□□ 112C32	
	178	287	1.9	8.125	GST07 - 2M□□□ 112C32	
	180	283	2.8	8.027	GST09 - 2M□□□ 112C32	
	160	318	0.8	9.010	GST06 - 2M□□□ 112C32	
	164	310	1.7	8.800	GST07 - 2M□□□ 112C32	
	147	348	1.6	9.856	GST07 - 2M□□□ 112C32	
	141	362	3.1	10.267	GST09 - 2M□□□ 112C32	
	129	395	1.5	11.200	GST07 - 2M□□□ 112C32	
	124	411	2.9	11.667	GST09 - 2M□□□ 112C32	
	115	443	1.4	12.571	GST07 - 2M□□□ 112C32	
	117	436	2.8	12.362	GST09 - 2M□□□ 112C32	
	101	504	1.3	14.286	GST07 - 2M□□□ 112C32	
	103	495	2.6	14.048	GST09 - 2M□□□ 112C32	
	94	543	1.2	15.400	GST07 - 2M□□□ 112C32	
	95	535	2.4	15.156	GST09 - 2M□□□ 112C32	
	83	617	1.1	17.500	GST07 - 2M□□□ 112C32	
	84	607	2.3	17.222	GST09 - 2M□□□ 112C32	
	72	707	1.0	20.044	GST07 - 2M□□□ 112C32	
	70	724	1.9	20.533	GST09 - 2M□□□ 112C32	
	71	716	2.4	20.289	GST11 - 2M□□□ 112C32	
	63	803	0.8	22.778	GST07 - 2M□□□ 112C32	
	62	823	1.8	23.333	GST09 - 2M□□□ 112C32	
	63	813	2.4	23.056	GST11 - 2M□□□ 112C32	
	59	866	0.8	24.567	GST07 - 2M□□□ 112C32	
	58	879	1.6	24.933	GST09 - 2M□□□ 112C32	
	58	879	2.0	24.933	GST11 - 2M□□□ 112C32	
	51	999	1.5	28.333	GST09 - 2M□□□ 112C32	
	51	999	2.0	28.333	GST11 - 2M□□□ 112C32	
	45	1138	1.3	32.267	GST09 - 2M□□□ 112C32	
	45	1138	1.6	32.267	GST11 - 2M□□□ 112C32	
	45	1138	2.0	32.267	GST14 - 2M□□□ 112C32	
	39	1293	1.2	36.667	GST09 - 2M□□□ 112C32	
	39	1293	1.6	36.667	GST11 - 2M□□□ 112C32	
	39	1293	2.0	36.667	GST14 - 2M□□□ 112C32	
	37	1381	1.0	39.160	GST09 - 2M□□□ 112C32	
	37	1381	1.3	39.160	GST11 - 2M□□□ 112C32	
	37	1381	1.6	39.160	GST14 - 2M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GST □□ - 2M**	**3-111**
n1=1445	33	1569	1.0	44.500	GST09 - 2M□□□ 112C32	
	33	1569	1.3	44.500	GST11 - 2M□□□ 112C32	
	33	1569	1.6	44.500	GST14 - 2M□□□ 112C32	
	29	1746	1.1	49.500	GST11 - 2M□□□ 112C32	
	29	1746	1.3	49.500	GST14 - 2M□□□ 112C32	
	26	1984	1.1	56.250	GST11 - 2M□□□ 112C32	
	26	1984	1.3	56.250	GST14 - 2M□□□ 112C32	
					GST □□ - 3M	**3-122**
	25	2014	1.3	57.968	GST11 - 3M□□□ 112C32	
	24	2128	1.3	61.250	GST11 - 3M□□□ 112C32	
	24	2061	2.4	59.321	GST14 - 3M□□□ 112C32	
	20	2467	1.1	71.011	GST11 - 3M□□□ 112C32	
	21	2398	2.1	69.042	GST14 - 3M□□□ 112C32	
	18	2803	1.0	80.694	GST11 - 3M□□□ 112C32	
	18	2725	2.1	78.457	GST14 - 3M□□□ 112C32	
	17	3031	0.9	87.267	GST11 - 3M□□□ 112C32	
	15	3249	1.7	93.541	GST14 - 3M□□□ 112C32	
	15	3445	0.8	99.167	GST11 - 3M□□□ 112C32	
	15	3340	1.8	96.157	GST14 - 3M□□□ 112C32	
	14	3692	1.6	106.296	GST14 - 3M□□□ 112C32	
	11	4525	1.3	130.278	GST14 - 3M□□□ 112C32	
	10	4836	1.2	139.211	GST14 - 3M□□□ 112C32	
	9.1	5495	1.1	158.194	GST14 - 3M□□□ 112C32	
	8.4	5944	1.0	171.111	GST14 - 3M□□□ 112C32	
	7.1	7111	0.8	204.722	GST14 - 3M□□□ 112C32	
7.5 kW					**GST □□ - 1M**	**3-102**
n1=1455	895	79	1.3	1.625	GST07 - 1M□□□ 132C22	
	728	97	1.3	2.000	GST07 - 1M□□□ 132C22	
	650	109	1.2	2.240	GST07 - 1M□□□ 132C22	
	509	139	1.1	2.857	GST07 - 1M□□□ 132C22	
	518	136	3.1	2.810	GST09 - 1M□□□ 132C22	
	416	170	1.0	3.500	GST07 - 1M□□□ 132C22	
	422	167	2.7	3.444	GST09 - 1M□□□ 132C22	
	312	226	1.7	4.667	GST09 - 1M□□□ 132C22	
	257	275	1.7	5.667	GST09 - 1M□□□ 132C22	
					GST □□ - 2M	**3-111**
n1=2900	956	73	1.8	3.033	GST06 - 2M□□□ 112-41	
	870	80	1.7	3.333	GST06 - 2M□□□ 112-41	
	697	100	1.5	4.160	GST06 - 2M□□□ 112-41	
	686	101	3.2	4.225	GST07 - 2M□□□ 112-41	
	634	110	1.5	4.571	GST06 - 2M□□□ 112-41	
	625	111	3.0	4.643	GST07 - 2M□□□ 112-41	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GST □□ - 2M**	**3-111**
n1=2900	545	128	1.3	5.324	GST06 - 2M□□□ 112-41	
	558	125	2.8	5.200	GST07 - 2M□□□ 112-41	
	496	140	1.3	5.850	GST06 - 2M□□□ 112-41	
	508	137	2.6	5.714	GST07 - 2M□□□ 112-41	
	453	153	1.2	6.400	GST06 - 2M□□□ 112-41	
	453	153	2.4	6.400	GST07 - 2M□□□ 112-41	
	412	169	1.1	7.040	GST06 - 2M□□□ 112-41	
	406	171	2.3	7.150	GST07 - 2M□□□ 112-41	
	355	196	1.0	8.163	GST06 - 2M□□□ 112-41	
	357	195	2.2	8.125	GST07 - 2M□□□ 112-41	
	322	216	1.0	9.010	GST06 - 2M□□□ 112-41	
	330	211	2.0	8.800	GST07 - 2M□□□ 112-41	
	290	240	0.9	10.000	GST06 - 2M□□□ 112-41	
	294	236	1.9	9.856	GST07 - 2M□□□ 112-41	
	259	268	0.8	11.200	GST06 - 2M□□□ 112-41	
	259	268	1.8	11.200	GST07 - 2M□□□ 112-41	
	231	301	1.6	12.571	GST07 - 2M□□□ 112-41	
	203	342	1.5	14.286	GST07 - 2M□□□ 112-41	
	206	337	3.1	14.048	GST09 - 2M□□□ 112-41	
	188	369	1.6	15.400	GST07 - 2M□□□ 112-41	
	191	363	3.2	15.156	GST09 - 2M□□□ 112-41	
	166	419	1.5	17.500	GST07 - 2M□□□ 112-41	
	168	413	3.0	17.222	GST09 - 2M□□□ 112-41	
	145	480	1.3	20.044	GST07 - 2M□□□ 112-41	
	141	492	2.5	20.533	GST09 - 2M□□□ 112-41	
	143	486	3.2	20.289	GST11 - 2M□□□ 112-41	
	127	546	1.1	22.778	GST07 - 2M□□□ 112-41	
	124	559	2.5	23.333	GST09 - 2M□□□ 112-41	
	126	552	3.2	23.056	GST11 - 2M□□□ 112-41	
	118	589	1.1	24.567	GST07 - 2M□□□ 112-41	
	116	597	2.1	24.933	GST09 - 2M□□□ 112-41	
	116	597	2.6	24.933	GST11 - 2M□□□ 112-41	
	104	669	0.9	27.917	GST07 - 2M□□□ 112-41	
	102	679	2.0	28.333	GST09 - 2M□□□ 112-41	
	102	679	2.6	28.333	GST11 - 2M□□□ 112-41	
	90	773	1.7	32.267	GST09 - 2M□□□ 112-41	
	90	773	2.1	32.267	GST11 - 2M□□□ 112-41	
	90	773	2.6	32.267	GST14 - 2M□□□ 112-41	
	79	879	1.6	36.667	GST09 - 2M□□□ 112-41	
	79	879	2.1	36.667	GST11 - 2M□□□ 112-41	
	79	879	2.6	36.667	GST14 - 2M□□□ 112-41	
	74	938	1.4	39.160	GST09 - 2M□□□ 112-41	
	74	938	1.8	39.160	GST11 - 2M□□□ 112-41	
	74	938	2.2	39.160	GST14 - 2M□□□ 112-41	
	65	1066	1.5	44.500	GST09 - 2M□□□ 112-41	
	65	1066	1.9	44.500	GST11 - 2M□□□ 112-41	
	65	1066	2.4	44.500	GST14 - 2M□□□ 112-41	
	59	1186	1.5	49.500	GST11 - 2M□□□ 112-41	
	59	1186	1.9	49.500	GST14 - 2M□□□ 112-41	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GST □□ - 2M**	**3-111**
n1=2900	52	1348	1.5	56.250	GST11 - 2M□□□ 112-41	
	52	1348	1.9	56.250	GST14 - 2M□□□ 112-41	
n1=1455	477	146	2.4	3.048	GST07 - 2M□□□ 132C22	
	434	160	2.3	3.350	GST07 - 2M□□□ 132C22	
	344	202	2.0	4.225	GST07 - 2M□□□ 132C22	
	313	222	1.9	4.643	GST07 - 2M□□□ 132C22	
	280	248	1.7	5.200	GST07 - 2M□□□ 132C22	
	255	273	1.6	5.714	GST07 - 2M□□□ 132C22	
	227	306	1.5	6.400	GST07 - 2M□□□ 132C22	
	204	342	1.4	7.150	GST07 - 2M□□□ 132C22	
	199	349	3.2	7.305	GST09 - 2M□□□ 132C22	
	179	388	1.4	8.125	GST07 - 2M□□□ 132C22	
	181	383	3.0	8.027	GST09 - 2M□□□ 132C22	
	165	420	1.3	8.800	GST07 - 2M□□□ 132C22	
	162	430	2.6	9.010	GST09 - 2M□□□ 132C22	
	148	471	1.2	9.856	GST07 - 2M□□□ 132C22	
	142	490	2.4	10.267	GST09 - 2M□□□ 132C22	
	130	535	1.1	11.200	GST07 - 2M□□□ 132C22	
	125	557	2.2	11.667	GST09 - 2M□□□ 132C22	
	116	600	1.0	12.571	GST07 - 2M□□□ 132C22	
	118	590	2.1	12.362	GST09 - 2M□□□ 132C22	
	102	682	0.9	14.286	GST07 - 2M□□□ 132C22	
	104	671	1.9	14.048	GST09 - 2M□□□ 132C22	
	95	736	0.9	15.400	GST07 - 2M□□□ 132C22	
	96	724	1.9	15.156	GST09 - 2M□□□ 132C22	
	83	836	0.8	17.500	GST07 - 2M□□□ 132C22	
	85	823	1.7	17.222	GST09 - 2M□□□ 132C22	
	71	981	1.5	20.533	GST09 - 2M□□□ 132C22	
	72	969	2.8	20.289	GST11 - 2M□□□ 132C22	
	62	1114	1.4	23.333	GST09 - 2M□□□ 132C22	
	63	1101	2.6	23.056	GST11 - 2M□□□ 132C22	
	58	1191	1.3	24.933	GST09 - 2M□□□ 132C22	
	58	1191	2.3	24.933	GST11 - 2M□□□ 132C22	
	51	1353	1.1	28.333	GST09 - 2M□□□ 132C22	
	51	1353	2.2	28.333	GST11 - 2M□□□ 132C22	
	45	1541	1.8	32.267	GST11 - 2M□□□ 132C22	
	45	1541	3.1	32.267	GST14 - 2M□□□ 132C22	
	40	1751	1.7	36.667	GST11 - 2M□□□ 132C22	
	40	1751	3.1	36.667	GST14 - 2M□□□ 132C22	
	37	1870	1.5	39.160	GST11 - 2M□□□ 132C22	
	37	1870	2.6	39.160	GST14 - 2M□□□ 132C22	
	33	2125	1.4	44.500	GST11 - 2M□□□ 132C22	
	33	2125	2.6	44.500	GST14 - 2M□□□ 132C22	
	29	2364	1.8	49.500	GST14 - 2M□□□ 132C22	
	26	2686	1.8	56.250	GST14 - 2M□□□ 132C22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GST □□ - 3M**	**3-122**
n1=1455	25	2727	0.9	57.968	GST11 - 3M□□□ 132C22	
	24	2881	0.9	61.250	GST11 - 3M□□□ 132C22	
	25	2791	1.9	59.321	GST14 - 3M□□□ 132C22	
	21	3248	1.5	69.042	GST14 - 3M□□□ 132C22	
	19	3691	1.5	78.457	GST14 - 3M□□□ 132C22	
	16	4400	1.3	93.541	GST14 - 3M□□□ 132C22	
	15	4523	1.3	96.157	GST14 - 3M□□□ 132C22	
	14	5000	1.2	106.296	GST14 - 3M□□□ 132C22	
	11	6128	1.0	130.278	GST14 - 3M□□□ 132C22	
	11	6549	0.9	139.211	GST14 - 3M□□□ 132C22	
9.2 kW					**GST □□ - 1M**	**3-102**
n1=1450	892	97	1.1	1.625	GST07 - 1M□□□ 132C32	
	930	93	3.0	1.560	GST09 - 1M□□□ 132C32	
	725	119	1.0	2.000	GST07 - 1M□□□ 132C32	
	708	122	2.8	2.048	GST09 - 1M□□□ 132C32	
	647	134	1.0	2.240	GST07 - 1M□□□ 132C32	
	621	139	2.7	2.333	GST09 - 1M□□□ 132C32	
	508	171	0.9	2.857	GST07 - 1M□□□ 132C32	
	516	168	2.5	2.810	GST09 - 1M□□□ 132C32	
	414	209	0.8	3.500	GST07 - 1M□□□ 132C32	
	421	206	2.2	3.444	GST09 - 1M□□□ 132C32	
	311	279	1.4	4.667	GST09 - 1M□□□ 132C32	
	256	338	1.4	5.667	GST09 - 1M□□□ 132C32	
					GST □□ - 2M	**3-111**
n1=2925	960	89	3.2	3.048	GST07 - 2M□□□ 132-21	
	873	98	3.0	3.350	GST07 - 2M□□□ 132-21	
	692	123	2.6	4.225	GST07 - 2M□□□ 132-21	
	630	135	2.4	4.643	GST07 - 2M□□□ 132-21	
	563	152	2.3	5.200	GST07 - 2M□□□ 132-21	
	512	167	2.2	5.714	GST07 - 2M□□□ 132-21	
	457	187	2.0	6.400	GST07 - 2M□□□ 132-21	
	409	208	1.9	7.150	GST07 - 2M□□□ 132-21	
	360	237	1.8	8.125	GST07 - 2M□□□ 132-21	
	332	256	1.6	8.800	GST07 - 2M□□□ 132-21	
	297	287	1.5	9.856	GST07 - 2M□□□ 132-21	
	285	299	3.2	10.267	GST09 - 2M□□□ 132-21	
	261	326	1.5	11.200	GST07 - 2M□□□ 132-21	
	251	340	2.8	11.667	GST09 - 2M□□□ 132-21	
	233	366	1.3	12.571	GST07 - 2M□□□ 132-21	
	237	360	2.8	12.362	GST09 - 2M□□□ 132-21	
	205	416	1.2	14.286	GST07 - 2M□□□ 132-21	
	208	409	2.5	14.048	GST09 - 2M□□□ 132-21	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
9.2 kW					**GST □□ - 2M**	**3-111**
n1=2925	190	449	1.3	15.400	GST07 - 2M□□□ 132-21	
	193	442	2.8	15.156	GST09 - 2M□□□ 132-21	
	167	510	1.2	17.500	GST07 - 2M□□□ 132-21	
	170	502	2.5	17.222	GST09 - 2M□□□ 132-21	
	143	598	2.3	20.533	GST09 - 2M□□□ 132-21	
	125	680	2.0	23.333	GST09 - 2M□□□ 132-21	
	117	727	2.0	24.933	GST09 - 2M□□□ 132-21	
	103	826	1.7	28.333	GST09 - 2M□□□ 132-21	
	103	826	3.2	28.333	GST11 - 2M□□□ 132-21	
	91	940	2.7	32.267	GST11 - 2M□□□ 132-21	
	80	1069	2.5	36.667	GST11 - 2M□□□ 132-21	
	75	1141	2.3	39.160	GST11 - 2M□□□ 132-21	
	66	1297	2.3	44.500	GST11 - 2M□□□ 132-21	
	59	1443	3.0	49.500	GST14 - 2M□□□ 132-21	
	52	1639	3.0	56.250	GST14 - 2M□□□ 132-21	
n1=1450	476	179	2.0	3.048	GST07 - 2M□□□ 132C32	
	433	197	1.9	3.350	GST07 - 2M□□□ 132C32	
	343	248	1.6	4.225	GST07 - 2M□□□ 132C32	
	312	273	1.5	4.643	GST07 - 2M□□□ 132C32	
	279	306	1.4	5.200	GST07 - 2M□□□ 132C32	
	272	313	3.2	5.324	GST09 - 2M□□□ 132C32	
	254	336	1.3	5.714	GST07 - 2M□□□ 132C32	
	248	344	3.0	5.850	GST09 - 2M□□□ 132C32	
	227	376	1.2	6.400	GST07 - 2M□□□ 132C32	
	218	392	2.7	6.667	GST09 - 2M□□□ 132C32	
	203	420	1.2	7.150	GST07 - 2M□□□ 132C32	
	199	429	2.6	7.305	GST09 - 2M□□□ 132C32	
	179	478	1.1	8.125	GST07 - 2M□□□ 132C32	
	181	472	2.4	8.027	GST09 - 2M□□□ 132C32	
	165	517	1.0	8.800	GST07 - 2M□□□ 132C32	
	161	530	2.1	9.010	GST09 - 2M□□□ 132C32	
	147	579	0.9	9.856	GST07 - 2M□□□ 132C32	
	141	604	2.0	10.267	GST09 - 2M□□□ 132C32	
	130	658	0.9	11.200	GST07 - 2M□□□ 132C32	
	124	686	1.8	11.667	GST09 - 2M□□□ 132C32	
	115	739	0.8	12.571	GST07 - 2M□□□ 132C32	
	117	727	1.7	12.362	GST09 - 2M□□□ 132C32	
	103	826	1.6	14.048	GST09 - 2M□□□ 132C32	
	102	840	3.1	14.286	GST11 - 2M□□□ 132C32	
	96	891	1.5	15.156	GST09 - 2M□□□ 132C32	
	94	905	3.0	15.400	GST11 - 2M□□□ 132C32	
	84	1012	1.4	17.222	GST09 - 2M□□□ 132C32	
	83	1029	2.7	17.500	GST11 - 2M□□□ 132C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
9.2 kW					**GST □□ - 2M**	3-111
n1=1450	71	1207	1.2	20.533	GST09 - 2M□□□ 132C32	
	72	1193	2.3	20.289	GST11 - 2M□□□ 132C32	
	62	1372	1.1	23.333	GST09 - 2M□□□ 132C32	
	63	1355	2.1	23.056	GST11 - 2M□□□ 132C32	
	58	1466	1.1	24.933	GST09 - 2M□□□ 132C32	
	58	1466	1.9	24.933	GST11 - 2M□□□ 132C32	
	59	1444	3.1	24.567	GST14 - 2M□□□ 132C32	
	51	1666	0.9	28.333	GST09 - 2M□□□ 132C32	
	51	1666	1.8	28.333	GST11 - 2M□□□ 132C32	
	52	1641	3.1	27.917	GST14 - 2M□□□ 132C32	
	45	1897	1.5	32.267	GST11 - 2M□□□ 132C32	
	45	1897	2.5	32.267	GST14 - 2M□□□ 132C32	
	40	2155	1.4	36.667	GST11 - 2M□□□ 132C32	
	40	2155	2.5	36.667	GST14 - 2M□□□ 132C32	
	37	2302	1.2	39.160	GST11 - 2M□□□ 132C32	
	37	2302	2.1	39.160	GST14 - 2M□□□ 132C32	
	33	2616	1.1	44.500	GST11 - 2M□□□ 132C32	
	33	2616	2.1	44.500	GST14 - 2M□□□ 132C32	
	29	2910	1.5	49.500	GST14 - 2M□□□ 132C32	
	26	3307	1.5	56.250	GST14 - 2M□□□ 132C32	
					GST □□ - 3M	3-122
	24	3435	1.5	59.321	GST14 - 3M□□□ 132C32	
	21	3998	1.2	69.042	GST14 - 3M□□□ 132C32	
	19	4543	1.2	78.457	GST14 - 3M□□□ 132C32	
	16	5416	1.0	93.541	GST14 - 3M□□□ 132C32	
	15	5568	1.1	96.157	GST14 - 3M□□□ 132C32	
	14	6155	1.0	106.296	GST14 - 3M□□□ 132C32	
11 kW					**GST □□ - 1M**	3-102
n1=1460	899	115	0.9	1.625	GST07 - 1M□□□ 160-22	
	936	111	2.5	1.560	GST09 - 1M□□□ 160-22	
	730	142	0.9	2.000	GST07 - 1M□□□ 160-22	
	713	145	2.3	2.048	GST09 - 1M□□□ 160-22	
	652	159	0.8	2.240	GST07 - 1M□□□ 160-22	
	626	165	2.2	2.333	GST09 - 1M□□□ 160-22	
	520	199	2.1	2.810	GST09 - 1M□□□ 160-22	
	424	244	1.8	3.444	GST09 - 1M□□□ 160-22	
					GST □□ - 2M	3-111
	479	213	1.7	3.048	GST07 - 2M□□□ 160-22	
	436	234	1.6	3.350	GST07 - 2M□□□ 160-22	
	346	295	1.3	4.225	GST07 - 2M□□□ 160-22	
	360	283	3.1	4.056	GST09 - 2M□□□ 160-22	
	315	324	1.3	4.643	GST07 - 2M□□□ 160-22	
	328	311	3.0	4.457	GST09 - 2M□□□ 160-22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
11 kW					**GST □□ - 2M**	3-111
n1=1460	281	363	1.2	5.200	GST07 - 2M□□□ 160-22	
	274	372	2.7	5.324	GST09 - 2M□□□ 160-22	
	256	399	1.1	5.714	GST07 - 2M□□□ 160-22	
	250	408	2.5	5.850	GST09 - 2M□□□ 160-22	
	228	447	1.0	6.400	GST07 - 2M□□□ 160-22	
	219	465	2.3	6.667	GST09 - 2M□□□ 160-22	
	204	499	1.0	7.150	GST07 - 2M□□□ 160-22	
	200	510	2.2	7.305	GST09 - 2M□□□ 160-22	
	180	567	1.0	8.125	GST07 - 2M□□□ 160-22	
	182	560	2.0	8.027	GST09 - 2M□□□ 160-22	
	166	614	0.9	8.800	GST07 - 2M□□□ 160-22	
	162	629	1.8	9.010	GST09 - 2M□□□ 160-22	
	142	717	1.6	10.267	GST09 - 2M□□□ 160-22	
	125	814	1.5	11.667	GST09 - 2M□□□ 160-22	
	130	782	3.0	11.200	GST11 - 2M□□□ 160-22	
	118	863	1.5	12.362	GST09 - 2M□□□ 160-22	
	116	878	2.9	12.571	GST11 - 2M□□□ 160-22	
	104	981	1.3	14.048	GST09 - 2M□□□ 160-22	
	102	997	2.6	14.286	GST11 - 2M□□□ 160-22	
	96	1058	1.3	15.156	GST09 - 2M□□□ 160-22	
	95	1075	2.5	15.400	GST11 - 2M□□□ 160-22	
	85	1202	1.1	17.222	GST09 - 2M□□□ 160-22	
	83	1222	2.3	17.500	GST11 - 2M□□□ 160-22	
	72	1416	1.9	20.289	GST11 - 2M□□□ 160-22	
	63	1609	1.8	23.056	GST11 - 2M□□□ 160-22	
	64	1590	3.2	22.778	GST14 - 2M□□□ 160-22	
	59	1741	1.6	24.933	GST11 - 2M□□□ 160-22	
	59	1715	3.1	24.567	GST14 - 2M□□□ 160-22	
	52	1978	1.5	28.333	GST11 - 2M□□□ 160-22	
	52	1949	2.7	27.917	GST14 - 2M□□□ 160-22	
	45	2252	2.4	32.267	GST14 - 2M□□□ 160-22	
	40	2560	2.3	36.667	GST14 - 2M□□□ 160-22	
	37	2734	2.0	39.160	GST14 - 2M□□□ 160-22	
	33	3106	1.9	44.500	GST14 - 2M□□□ 160-22	
					GST □□ - 3M	3-122
	30	3327	1.5	48.386	GST14 - 3M□□□ 160-22	
	28	3654	1.3	53.148	GST14 - 3M□□□ 160-22	
	25	4079	1.3	59.321	GST14 - 3M□□□ 160-22	
	21	4747	1.0	69.042	GST14 - 3M□□□ 160-22	
	19	5395	1.0	78.457	GST14 - 3M□□□ 160-22	
	15	6612	0.9	96.157	GST14 - 3M□□□ 160-22	
15 kW					**GST □□ - 1M**	3-102
n1=1460	936	151	1.8	1.560	GST09 - 1M□□□ 160-32	
	713	198	1.7	2.048	GST09 - 1M□□□ 160-32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
15 kW					**GST □□ - 1M**	**3-102**
n1=1460	626	226	1.6	2.333	GST09 - 1M□□□ 160-32	
	520	272	1.5	2.810	GST09 - 1M□□□ 160-32	
	424	333	1.3	3.444	GST09 - 1M□□□ 160-32	
					GST □□ - 2M	**3-111**
	479	290	1.2	3.048	GST07 - 2M□□□ 160-32	
	436	319	1.2	3.350	GST07 - 2M□□□ 160-32	
	346	402	1.0	4.225	GST07 - 2M□□□ 160-32	
	360	386	2.3	4.056	GST09 - 2M□□□ 160-32	
	315	442	0.9	4.643	GST07 - 2M□□□ 160-32	
	328	424	2.2	4.457	GST09 - 2M□□□ 160-32	
	281	495	0.9	5.200	GST07 - 2M□□□ 160-32	
	274	507	2.0	5.324	GST09 - 2M□□□ 160-32	
	274	507	3.1	5.324	GST11 - 2M□□□ 160-32	
	256	544	0.8	5.714	GST07 - 2M□□□ 160-32	
	250	557	1.8	5.850	GST09 - 2M□□□ 160-32	
	250	557	3.2	5.850	GST11 - 2M□□□ 160-32	
	219	635	1.7	6.667	GST09 - 2M□□□ 160-32	
	228	609	3.0	6.400	GST11 - 2M□□□ 160-32	
	200	695	1.6	7.305	GST09 - 2M□□□ 160-32	
	213	653	3.2	6.864	GST11 - 2M□□□ 160-32	
	182	764	1.5	8.027	GST09 - 2M□□□ 160-32	
	187	743	2.8	7.800	GST11 - 2M□□□ 160-32	
	162	858	1.3	9.010	GST09 - 2M□□□ 160-32	
	162	858	2.6	9.010	GST11 - 2M□□□ 160-32	
	142	977	1.2	10.267	GST09 - 2M□□□ 160-32	
	148	938	2.5	9.856	GST11 - 2M□□□ 160-32	
	125	1111	1.1	11.667	GST09 - 2M□□□ 160-32	
	130	1066	2.2	11.200	GST11 - 2M□□□ 160-32	
	118	1177	1.1	12.362	GST09 - 2M□□□ 160-32	
	116	1197	2.1	12.571	GST11 - 2M□□□ 160-32	
	104	1337	1.0	14.048	GST09 - 2M□□□ 160-32	
	102	1360	1.9	14.286	GST11 - 2M□□□ 160-32	
	104	1337	3.2	14.048	GST14 - 2M□□□ 160-32	
	96	1443	0.9	15.156	GST09 - 2M□□□ 160-32	
	95	1466	1.8	15.400	GST11 - 2M□□□ 160-32	
	96	1443	3.1	15.156	GST14 - 2M□□□ 160-32	
	85	1639	0.8	17.222	GST09 - 2M□□□ 160-32	
	83	1666	1.7	17.500	GST11 - 2M□□□ 160-32	
	85	1639	2.8	17.222	GST14 - 2M□□□ 160-32	
	72	1931	1.4	20.289	GST11 - 2M□□□ 160-32	
	73	1908	2.6	20.044	GST14 - 2M□□□ 160-32	
	63	2195	1.3	23.056	GST11 - 2M□□□ 160-32	
	64	2168	2.3	22.778	GST14 - 2M□□□ 160-32	
	59	2373	1.2	24.933	GST11 - 2M□□□ 160-32	
	59	2339	2.2	24.567	GST14 - 2M□□□ 160-32	
	52	2697	1.1	28.333	GST11 - 2M□□□ 160-32	
	52	2657	2.0	27.917	GST14 - 2M□□□ 160-32	
	45	3071	1.8	32.267	GST14 - 2M□□□ 160-32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
15 kW					**GST □□ - 2M**	3-111
n1=1460	40	3490	1.7	36.667	GST14 - 2M□□□ 160-32	
	37	3728	1.5	39.160	GST14 - 2M□□□ 160-32	
	33	4236	1.4	44.500	GST14 - 2M□□□ 160-32	
					GST □□ - 3M	3-122
	30	4537	1.1	48.386	GST14 - 3M□□□ 160-32	
	28	4983	1.0	53.148	GST14 - 3M□□□ 160-32	
	25	5562	0.9	59.321	GST14 - 3M□□□ 160-32	
18.5 kW					**GST □□ - 1M**	3-102
n1=1470	942	185	1.5	1.560	GST09 - 1M□□□ 180-22	
	718	242	1.4	2.048	GST09 - 1M□□□ 180-22	
	630	276	1.3	2.333	GST09 - 1M□□□ 180-22	
	523	333	1.3	2.810	GST09 - 1M□□□ 180-22	
	427	408	1.1	3.444	GST09 - 1M□□□ 180-22	
					GST □□ - 2M	3-111
	362	473	1.9	4.056	GST09 - 2M□□□ 180-22	
	362	473	3.2	4.056	GST11 - 2M□□□ 180-22	
	330	520	1.8	4.457	GST09 - 2M□□□ 180-22	
	330	520	3.1	4.457	GST11 - 2M□□□ 180-22	
	276	621	1.6	5.324	GST09 - 2M□□□ 180-22	
	276	621	2.6	5.324	GST11 - 2M□□□ 180-22	
	251	682	1.5	5.850	GST09 - 2M□□□ 180-22	
	251	682	2.6	5.850	GST11 - 2M□□□ 180-22	
	221	777	1.4	6.667	GST09 - 2M□□□ 180-22	
	230	746	2.4	6.400	GST11 - 2M□□□ 180-22	
	201	852	1.3	7.305	GST09 - 2M□□□ 180-22	
	214	800	2.6	6.864	GST11 - 2M□□□ 180-22	
	183	936	1.2	8.027	GST09 - 2M□□□ 180-22	
	189	910	2.3	7.800	GST11 - 2M□□□ 180-22	
	163	1051	1.1	9.010	GST09 - 2M□□□ 180-22	
	163	1051	2.2	9.010	GST11 - 2M□□□ 180-22	
	143	1197	1.0	10.267	GST09 - 2M□□□ 180-22	
	149	1149	2.0	9.856	GST11 - 2M□□□ 180-22	
	149	1148	3.1	9.841	GST14 - 2M□□□ 180-22	
	126	1360	0.9	11.667	GST09 - 2M□□□ 180-22	
	131	1306	1.8	11.200	GST11 - 2M□□□ 180-22	
	134	1283	3.1	11.000	GST14 - 2M□□□ 180-22	
	119	1441	0.9	12.362	GST09 - 2M□□□ 180-22	
	117	1466	1.7	12.571	GST11 - 2M□□□ 180-22	
	119	1441	2.9	12.362	GST14 - 2M□□□ 180-22	
	103	1666	1.5	14.286	GST11 - 2M□□□ 180-22	
	105	1638	2.6	14.048	GST14 - 2M□□□ 180-22	
	96	1796	1.5	15.400	GST11 - 2M□□□ 180-22	
	97	1767	2.5	15.156	GST14 - 2M□□□ 180-22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
18.5 kW					**GST □□ - 2M**	**3-111**
n1=1470	84	2041	1.4	17.500	GST11 - 2M□□□ 180-22	
	85	2008	2.3	17.222	GST14 - 2M□□□ 180-22	
	73	2366	1.2	20.289	GST11 - 2M□□□ 180-22	
	73	2337	2.1	20.044	GST14 - 2M□□□ 180-22	
	64	2688	1.1	23.056	GST11 - 2M□□□ 180-22	
	65	2656	1.9	22.778	GST14 - 2M□□□ 180-22	
	59	2907	1.0	24.933	GST11 - 2M□□□ 180-22	
	60	2865	1.8	24.567	GST14 - 2M□□□ 180-22	
	52	3304	0.9	28.333	GST11 - 2M□□□ 180-22	
	53	3255	1.6	27.917	GST14 - 2M□□□ 180-22	
	46	3762	1.4	32.267	GST14 - 2M□□□ 180-22	
	40	4275	1.3	36.667	GST14 - 2M□□□ 180-22	
	38	4566	1.2	39.160	GST14 - 2M□□□ 180-22	
	33	5189	1.1	44.500	GST14 - 2M□□□ 180-22	
					GST □□ - 3M	**3-122**
	30	5557	0.9	48.386	GST14 - 3M□□□ 180-22	
22 kW					**GST □□ - 1M**	**3-102**
n1=1465	939	220	1.3	1.560	GST09 - 1M□□□ 180-32	
	716	289	1.2	2.048	GST09 - 1M□□□ 180-32	
	628	330	1.1	2.333	GST09 - 1M□□□ 180-32	
	521	397	1.1	2.810	GST09 - 1M□□□ 180-32	
	425	487	0.9	3.444	GST09 - 1M□□□ 180-32	
					GST □□ - 2M	**3-111**
	361	564	1.6	4.056	GST09 - 2M□□□ 180-32	
	361	564	2.6	4.056	GST11 - 2M□□□ 180-32	
	329	620	1.5	4.457	GST09 - 2M□□□ 180-32	
	329	620	2.6	4.457	GST11 - 2M□□□ 180-32	
	275	741	1.3	5.324	GST09 - 2M□□□ 180-32	
	275	741	2.2	5.324	GST11 - 2M□□□ 180-32	
	282	724	3.2	5.200	GST14 - 2M□□□ 180-32	
	250	814	1.3	5.850	GST09 - 2M□□□ 180-32	
	250	814	2.2	5.850	GST11 - 2M□□□ 180-32	
	256	795	3.2	5.714	GST14 - 2M□□□ 180-32	
	220	928	1.1	6.667	GST09 - 2M□□□ 180-32	
	229	890	2.0	6.400	GST11 - 2M□□□ 180-32	
	233	875	3.1	6.286	GST14 - 2M□□□ 180-32	
	201	1016	1.1	7.305	GST09 - 2M□□□ 180-32	
	213	955	2.2	6.864	GST11 - 2M□□□ 180-32	
	183	1117	1.0	8.027	GST09 - 2M□□□ 180-32	
	188	1085	1.9	7.800	GST11 - 2M□□□ 180-32	
	183	1117	2.9	8.027	GST14 - 2M□□□ 180-32	
	163	1254	0.9	9.010	GST09 - 2M□□□ 180-32	
	163	1254	1.8	9.010	GST11 - 2M□□□ 180-32	
	167	1224	3.1	8.800	GST14 - 2M□□□ 180-32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
22 kW					**GST □□ - 2M**	**3-111**
n1=1465	143	1428	0.8	10.267	GST09 - 2M□□□ 180-32	
	149	1371	1.7	9.856	GST11 - 2M□□□ 180-32	
	149	1369	2.6	9.841	GST14 - 2M□□□ 180-32	
	131	1558	1.5	11.200	GST11 - 2M□□□ 180-32	
	133	1531	2.6	11.000	GST14 - 2M□□□ 180-32	
	117	1749	1.4	12.571	GST11 - 2M□□□ 180-32	
	119	1720	2.4	12.362	GST14 - 2M□□□ 180-32	
	103	1988	1.3	14.286	GST11 - 2M□□□ 180-32	
	104	1955	2.2	14.048	GST14 - 2M□□□ 180-32	
	95	2143	1.3	15.400	GST11 - 2M□□□ 180-32	
	97	2109	2.1	15.156	GST14 - 2M□□□ 180-32	
	84	2435	1.1	17.500	GST11 - 2M□□□ 180-32	
	85	2396	1.9	17.222	GST14 - 2M□□□ 180-32	
	72	2823	1.0	20.289	GST11 - 2M□□□ 180-32	
	73	2789	1.8	20.044	GST14 - 2M□□□ 180-32	
	64	3208	0.9	23.056	GST11 - 2M□□□ 180-32	
	64	3169	1.6	22.778	GST14 - 2M□□□ 180-32	
	59	3469	0.8	24.933	GST11 - 2M□□□ 180-32	
	60	3418	1.5	24.567	GST14 - 2M□□□ 180-32	
	53	3884	1.4	27.917	GST14 - 2M□□□ 180-32	
	45	4489	1.2	32.267	GST14 - 2M□□□ 180-32	
	40	5102	1.1	36.667	GST14 - 2M□□□ 180-32	
	37	5448	1.0	39.160	GST14 - 2M□□□ 180-32	
	33	6191	0.9	44.500	GST14 - 2M□□□ 180-32	
30 kW					**GST □□ - 1M**	**3-102**
n1=1465	939	301	0.9	1.560	GST09 - 1M□□□ 200N32	
	716	394	0.9	2.048	GST09 - 1M□□□ 200N32	
					GST □□ - 2M	**3-111**
	361	770	1.1	4.056	GST09 - 2M□□□ 200N32	
	361	770	1.9	4.056	GST11 - 2M□□□ 200N32	
	347	802	2.0	4.225	GST14 - 2M□□□ 200N32	
	329	846	1.1	4.457	GST09 - 2M□□□ 200N32	
	329	846	1.9	4.457	GST11 - 2M□□□ 200N32	
	316	881	2.0	4.643	GST14 - 2M□□□ 200N32	
	275	1010	1.0	5.324	GST09 - 2M□□□ 200N32	
	275	1010	1.6	5.324	GST11 - 2M□□□ 200N32	
	282	987	2.0	5.200	GST14 - 2M□□□ 200N32	
	250	1110	0.9	5.850	GST09 - 2M□□□ 200N32	
	250	1110	1.6	5.850	GST11 - 2M□□□ 200N32	
	256	1084	2.0	5.714	GST14 - 2M□□□ 200N32	
	229	1214	1.5	6.400	GST11 - 2M□□□ 200N32	
	233	1193	2.0	6.286	GST14 - 2M□□□ 200N32	
	213	1302	1.6	6.864	GST11 - 2M□□□ 200N32	
	205	1357	2.0	7.150	GST14 - 2M□□□ 200N32	
	188	1480	1.4	7.800	GST11 - 2M□□□ 200N32	
	183	1523	2.0	8.027	GST14 - 2M□□□ 200N32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical geared motor	Dimensions Page
30 kW					**GST □□ - 2M**	**3-111**
n1=1465	163	1709	1.3	9.010	GST11 - 2M□□□ 200N32	
	167	1670	2.0	8.800	GST14 - 2M□□□ 200N32	
	149	1870	1.2	9.856	GST11 - 2M□□□ 200N32	
	149	1867	2.0	9.841	GST14 - 2M□□□ 200N32	
	131	2125	1.1	11.200	GST11 - 2M□□□ 200N32	
	133	2087	1.9	11.000	GST14 - 2M□□□ 200N32	
	117	2385	1.1	12.571	GST11 - 2M□□□ 200N32	
	119	2345	1.8	12.362	GST14 - 2M□□□ 200N32	
	103	2710	1.0	14.286	GST11 - 2M□□□ 200N32	
	104	2665	1.6	14.048	GST14 - 2M□□□ 200N32	
	95	2922	0.9	15.400	GST11 - 2M□□□ 200N32	
	97	2875	1.6	15.156	GST14 - 2M□□□ 200N32	
	84	3320	0.8	17.500	GST11 - 2M□□□ 200N32	
	85	3268	1.4	17.222	GST14 - 2M□□□ 200N32	
	73	3803	1.3	20.044	GST14 - 2M□□□ 200N32	
	64	4322	1.2	22.778	GST14 - 2M□□□ 200N32	
37 kW					**GST □□ - 2M**	**3-111**
n1=1470	362	946	1.6	4.056	GST11 - 2M□□□ 225N12	
	348	985	1.6	4.225	GST14 - 2M□□□ 225N12	
	330	1039	1.5	4.457	GST11 - 2M□□□ 225N12	
	317	1083	1.6	4.643	GST14 - 2M□□□ 225N12	
	276	1242	1.3	5.324	GST11 - 2M□□□ 225N12	
	283	1213	1.6	5.200	GST14 - 2M□□□ 225N12	
	251	1364	1.3	5.850	GST11 - 2M□□□ 225N12	
	257	1333	1.6	5.714	GST14 - 2M□□□ 225N12	
	230	1493	1.2	6.400	GST11 - 2M□□□ 225N12	
	234	1466	1.6	6.286	GST14 - 2M□□□ 225N12	
	214	1601	1.3	6.864	GST11 - 2M□□□ 225N12	
	206	1667	1.6	7.150	GST14 - 2M□□□ 225N12	
	189	1819	1.2	7.800	GST11 - 2M□□□ 225N12	
	183	1872	1.6	8.027	GST14 - 2M□□□ 225N12	
	163	2101	1.1	9.010	GST11 - 2M□□□ 225N12	
	167	2052	1.6	8.800	GST14 - 2M□□□ 225N12	
	149	2298	1.0	9.856	GST11 - 2M□□□ 225N12	
	149	2295	1.6	9.841	GST14 - 2M□□□ 225N12	
	131	2612	0.9	11.200	GST11 - 2M□□□ 225N12	
	134	2565	1.5	11.000	GST14 - 2M□□□ 225N12	
	117	2932	0.9	12.571	GST11 - 2M□□□ 225N12	
	119	2883	1.4	12.362	GST14 - 2M□□□ 225N12	
	105	3276	1.3	14.048	GST14 - 2M□□□ 225N12	
	97	3534	1.3	15.156	GST14 - 2M□□□ 225N12	
	85	4016	1.1	17.222	GST14 - 2M□□□ 225N12	
	73	4674	1.0	20.044	GST14 - 2M□□□ 225N12	
	65	5312	0.9	22.778	GST14 - 2M□□□ 225N12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
45 kW					**GST □□ - 2M**	**3-111**
n1=1470	362	1150	1.3	4.056	GST11 - 2M□□□ 225N22	
	348	1198	1.3	4.225	GST14 - 2M□□□ 225N22	
	330	1264	1.3	4.457	GST11 - 2M□□□ 225N22	
	317	1317	1.3	4.643	GST14 - 2M□□□ 225N22	
	276	1510	1.1	5.324	GST11 - 2M□□□ 225N22	
	283	1475	1.3	5.200	GST14 - 2M□□□ 225N22	
	251	1659	1.1	5.850	GST11 - 2M□□□ 225N22	
	257	1621	1.3	5.714	GST14 - 2M□□□ 225N22	
	230	1815	1.0	6.400	GST11 - 2M□□□ 225N22	
	234	1783	1.3	6.286	GST14 - 2M□□□ 225N22	
	214	1947	1.1	6.864	GST11 - 2M□□□ 225N22	
	206	2028	1.3	7.150	GST14 - 2M□□□ 225N22	
	189	2212	1.0	7.800	GST11 - 2M□□□ 225N22	
	183	2277	1.3	8.027	GST14 - 2M□□□ 225N22	
	163	2555	0.9	9.010	GST11 - 2M□□□ 225N22	
	167	2496	1.3	8.800	GST14 - 2M□□□ 225N22	
	149	2795	0.8	9.856	GST11 - 2M□□□ 225N22	
	149	2791	1.3	9.841	GST14 - 2M□□□ 225N22	
	134	3120	1.3	11.000	GST14 - 2M□□□ 225N22	
	119	3506	1.2	12.362	GST14 - 2M□□□ 225N22	
	105	3984	1.1	14.048	GST14 - 2M□□□ 225N22	
	97	4298	1.0	15.156	GST14 - 2M□□□ 225N22	
	85	4885	0.9	17.222	GST14 - 2M□□□ 225N22	
	73	5685	0.9	20.044	GST14 - 2M□□□ 225N22	

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 45$ Nm

GST 03 - 2 N					Dimensions page 3-132
n_1		2800 min^{-1}	1400 min^{-1}	700 min^{-1}	
IEC connection		63	63	63	
For the geometrical assignment of servo/DC motors see section 2					
Drive size		1A	1A	1A	
i	P_{1perm} [kW] M_{2perm} [Nm]				
2.597	P_1 M_2	1.70 15	1.05 18	0.52 18	
3.413	P_1 M_2	1.39 16	0.85 19	0.43 19	
4.368	P_1 M_2	1.18 17	0.73 21	0.36 21	
5.312	P_1 M_2	1.24 22	0.76 27	0.38 27	
5.965	P_1 M_2	1.18 23	0.73 29	0.36 29	
6.982	P_1 M_2	1.04 24	0.64 30	0.32 30	
7.840	P_1 M_2	0.99 26	0.61 32	0.30 32	
8.935	P_1 M_2	0.89 26	0.55 33	0.28 33	
10.033	P_1 M_2	0.85 28	0.52 35	0.26 35	
11.429	P_1 M_2	0.76 29	0.47 35	0.23 35	
12.833	P_1 M_2	0.72 31	0.44 38	0.22 38	
14.836	P_1 M_2	0.65 32	0.40 39	0.20 39	
16.660	P_1 M_2	0.69 38	0.37 41	0.19 41	
19.013	P_1 M_2	0.61 39	0.33 42	0.17 42	
21.350	P_1 M_2	0.58 41	0.31 44	0.16 44	
24.595	P_1 M_2	0.51 42	0.28 45	0.14 45	
27.618	P_1 M_2	0.45 42	0.25 45	0.12 45	
32.000	P_1 M_2	0.39 42	0.21 45	0.11 45	
35.933	P_1 M_2	0.35 42	0.19 45	0.10 45	
41.455	P_1 M_2	0.30 42	0.16 45	0.08 45	
46.550	P_1 M_2	0.29 45	0.15 45	0.07 45	
52.909	P_1 M_2	0.26 45	0.13 45	0.06 45	
59.412	P_1 M_2	0.23 45	0.11 45	0.06 45	

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 25$ Nm

GST 04 - 1 N

Dimensions page 3-128

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
1.600	P_1 M_2		2.23 12	2.90 16	2.90 16		1.37 15	1.79 19	1.79 19		0.73 16	0.89 19	0.89 19
2.048	P_1 M_2		2.23 15	2.69 19	2.69 19		1.37 19	1.66 23	1.66 23		0.78 21	0.83 23	0.83 23
2.240	P_1 M_2	1.03 8	2.23 17	2.67 20	2.67 20	0.64 10	1.37 21	1.64 25	1.64 25	0.32 10	0.74 22	0.82 25	0.82 25
2.857	P_1 M_2	0.96 9	2.03 19	2.12 20	2.12 20	0.59 11	1.25 24	1.30 25	1.30 25	0.30 11	0.63 24	0.65 25	0.65 25
3.500	P_1 M_2		1.73 20	1.73 20	1.73 20		1.06 25	1.06 25	1.06 25		0.53 25	0.53 25	0.53 25
4.400	P_1 M_2	1.05 16	1.37 20	1.37 20		0.65 19	0.85 25	0.85 25		0.32 19	0.42 25	0.42 25	
5.667	P_1 M_2	0.88 17	1.07 20	1.07 20		0.54 21	0.66 25	0.66 25		0.27 21	0.33 25	0.33 25	
7.182	P_1 M_2	0.77 19	0.84 20			0.47 23	0.52 25			0.24 23	0.26 25		
9.000	P_1 M_2	0.62 19	0.62 19			0.38 23	0.38 23			0.19 23	0.19 23		
11.857	P_1 M_2	0.33 13				0.20 16				0.10 16			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 73$ Nm

GST 04 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
2.956	P_1 M_2		2.23 22	3.04 30	3.25 32		1.37 27	1.87 37	2.00 39		0.73 28	1.00 39	1.00 39
3.333	P_1 M_2		2.23 25	3.04 33	3.08 34		1.37 30	1.87 41	1.89 42		0.73 32	0.95 42	0.95 42
4.053	P_1 M_2		2.23 30	2.72 37	2.72 37		1.37 37	1.68 45	1.68 45		0.73 39	0.84 45	0.84 45
4.571	P_1 M_2		2.23 34	2.58 39	2.58 39		1.37 42	1.59 48	1.59 48		0.73 44	0.79 48	0.79 48
5.187	P_1 M_2		2.23 38	2.37 41	2.37 41		1.37 47	1.46 50	1.46 50		0.73 50	0.73 50	0.73 50
5.850	P_1 M_2		2.23 43	2.23 43	2.23 43		1.37 53	1.38 53	1.38 53		0.69 53	0.69 53	0.69 53
6.400	P_1 M_2	1.03 22	2.11 45	2.11 45	2.11 45	0.64 27	1.30 55	1.30 55	1.30 55	0.32 27	0.65 55	0.65 55	0.65 55
7.040	P_1 M_2		1.98 46	1.98 46	1.98 46		1.22 57	1.22 57	1.22 57		0.61 57	0.61 57	0.61 57
8.000	P_1 M_2		1.80 48	1.80 48	1.80 48		1.11 59	1.11 59	1.11 59		0.56 59	0.56 59	0.56 59
9.010	P_1 M_2		1.71 51	1.71 51	1.71 51		1.05 63	1.05 63	1.05 63		0.53 63	0.53 63	0.53 63
9.856	P_1 M_2	1.03 34	1.61 53	1.61 53	1.61 53	0.64 41	0.99 65	0.99 65	0.99 65	0.32 41	0.50 65	0.50 65	0.50 65
11.200	P_1 M_2	1.03 38	1.32 49	1.32 49	1.32 49	0.64 47	0.81 60	0.81 60	0.81 60	0.32 47	0.41 60	0.41 60	0.41 60
12.571	P_1 M_2	0.96 40	1.35 56	1.35 56	1.35 56	0.59 49	0.83 69	0.83 69	0.83 69	0.30 49	0.42 69	0.42 69	0.42 69
14.286	P_1 M_2	0.96 45	1.05 49	1.05 49	1.05 49	0.59 56	0.64 61	0.64 61	0.64 61	0.30 56	0.32 61	0.32 61	0.32 61
15.400	P_1 M_2		1.26 64	1.26 64	1.26 64		0.68 70	0.68 70	0.68 70		0.34 70	0.34 70	0.34 70
17.500	P_1 M_2		0.98 57	0.98 57	0.98 57		0.53 62	0.53 62	0.53 62		0.27 62	0.27 62	0.27 62
19.360	P_1 M_2	1.01 65	1.01 65	1.01 65		0.55 70	0.55 70	0.55 70		0.28 70	0.28 70	0.28 70	
22.000	P_1 M_2	0.79 57	0.79 57	0.79 57		0.43 62	0.43 62	0.43 62		0.21 62	0.21 62	0.21 62	
24.933	P_1 M_2	0.80 66	0.80 66	0.80 66		0.43 71	0.43 71	0.43 71		0.22 71	0.22 71	0.22 71	
28.333	P_1 M_2	0.62 59	0.62 59	0.62 59		0.34 63	0.34 63	0.34 63		0.17 63	0.17 63	0.17 63	
31.600	P_1 M_2	0.64 67	0.64 67			0.35 72	0.35 72			0.17 72	0.17 72		
35.909	P_1 M_2	0.50 59	0.50 59			0.27 64	0.27 64			0.14 64	0.14 64		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 73$ Nm

GST 04 -2 N

Dimensions page 3-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
39.600	P_1 M_2	0.52 67	0.52 67			0.28 73	0.28 73			0.14 73	0.14 73		
45.000	P_1 M_2	0.44 65	0.44 65			0.22 65	0.22 65			0.11 65	0.11 65		
52.171	P_1 M_2	0.40 69				0.20 69				0.10 69			
59.286	P_1 M_2	0.34 66				0.17 66				0.08 66			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 54$ Nm

GST 05 - 1 N

Dimensions page 3-128

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
1.600	P_1 M_2			3.75 20	6.75 36			2.31 25	4.16 45			1.54 33	2.08 45
2.048	P_1 M_2		3.04 21	3.75 26	6.20 43		1.87 26	2.31 32	3.82 53		1.25 34	1.54 42	1.91 53
2.240	P_1 M_2	2.23 17	3.04 23	3.75 28	5.72 43	1.37 21	1.87 28	2.31 35	3.52 53	0.73 22	1.25 38	1.54 46	1.76 53
2.857	P_1 M_2	2.23 21	3.04 29	3.75 36	4.48 43	1.37 26	1.87 36	2.31 44	2.76 53	0.77 30	1.20 46	1.38 53	1.38 53
3.500	P_1 M_2		3.04 36	3.73 44	3.73 44		1.87 44	2.30 54	2.30 54		1.03 49	1.15 54	1.15 54
4.556	P_1 M_2	1.73 27	2.70 41	2.87 44		1.07 33	1.66 51	1.76 54		0.53 33	0.83 51	0.88 54	
5.667	P_1 M_2	1.45 28	2.25 43	2.30 44		0.89 34	1.39 53	1.42 54		0.45 34	0.69 53	0.71 54	
7.333	P_1 M_2	1.16 29	1.54 38			0.72 35	0.95 47			0.36 35	0.47 47		
8.900	P_1 M_2	0.97 29	1.14 34			0.60 36	0.70 42			0.30 36	0.35 42		
11.375	P_1 M_2	0.66 25				0.40 31				0.20 31			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 165$ Nm

GST 05 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
2.956	P_1 M_2			3.75 37	5.24 51			2.31 45	3.23 63			1.54 60	1.61 63
3.333	P_1 M_2			3.75 41	5.74 63			2.31 51	3.54 78			1.54 68	1.77 78
4.053	P_1 M_2			3.75 50	4.92 66			2.31 62	3.03 81			1.51 81	1.51 81
4.571	P_1 M_2			3.75 57	4.90 74			2.31 70	3.02 91			1.51 91	1.51 91
5.187	P_1 M_2		3.04 52	3.75 64	4.25 73		1.87 64	2.31 79	2.62 90		1.25 86	1.31 90	1.31 90
5.850	P_1 M_2		3.04 59	3.75 73	4.25 82		1.87 72	2.31 89	2.62 101		1.25 96	1.31 101	1.31 101
6.400	P_1 M_2	2.23 47	3.04 64	3.75 79	4.02 85	1.37 58	1.87 79	2.31 98	2.47 105	0.73 62	1.24 105	1.24 105	1.24 105
7.238	P_1 M_2	2.23 53	3.04 73	3.67 88	3.67 88	1.37 66	1.87 90	2.26 108	2.26 108	0.77 74	1.13 108	1.13 108	1.13 108
8.163	P_1 M_2	2.23 60	3.04 82	3.46 93	3.46 93	1.37 74	1.87 101	2.13 115	2.13 115	0.77 83	1.07 115	1.07 115	1.07 115
9.010	P_1 M_2		3.04 91	3.24 96	3.24 96		1.87 111	1.99 119	1.99 119		1.00 119	1.00 119	1.00 119
10.000	P_1 M_2		3.04 100	3.05 101	3.05 101		1.87 124	1.88 124	1.88 124		0.94 124	0.94 124	0.94 124
11.200	P_1 M_2	2.23 83	2.80 104	2.80 104	2.80 104	1.37 102	1.72 128	1.72 128	1.72 128	0.73 108	0.86 128	0.86 128	0.86 128
13.016	P_1 M_2	1.73 75	2.59 111	2.59 111		1.07 92	1.59 137	1.59 137		0.53 92	0.80 137	0.80 137	
14.356	P_1 M_2	1.45 69	2.25 107	2.39 113		0.89 85	1.39 132	1.47 140		0.45 85	0.69 132	0.74 140	
16.191	P_1 M_2	1.65 88	2.56 137	2.56 137		0.89 96	1.39 148	1.39 148		0.45 96	0.69 148	0.69 148	
17.500	P_1 M_2		2.26 131	2.26 131	2.26 131		1.23 142	1.23 142	1.23 142		0.61 142	0.61 142	0.61 142
20.044	P_1 M_2	1.97 131	2.22 147	2.22 147		1.07 142	1.20 159	1.20 159		0.53 142	0.60 159	0.60 159	
22.778	P_1 M_2	1.76 133	1.76 133	1.76 133		0.96 144	0.96 144	0.96 144		0.48 144	0.48 144	0.48 144	
24.933	P_1 M_2	1.65 136	1.81 149	1.81 149		0.89 147	0.98 162	0.98 162		0.45 147	0.49 162	0.49 162	
28.333	P_1 M_2	1.45 136	1.45 136	1.45 136		0.78 147	0.78 147	0.78 147		0.39 147	0.39 147	0.39 147	
32.267	P_1 M_2	1.32 141	1.42 151			0.72 153	0.77 164			0.36 153	0.38 164		
36.667	P_1 M_2	1.13 137	1.13 137			0.61 148	0.61 148			0.31 148	0.31 148		
39.160	P_1 M_2	1.10 143	1.18 152			0.60 155	0.64 165			0.30 155	0.32 165		
44.500	P_1 M_2	1.01 149	1.01 149			0.51 149	0.51 149			0.25 149	0.25 149		
50.050	P_1 M_2	0.82 136				0.41 136				0.21 136			
56.875	P_1 M_2	0.80 150				0.40 150				0.20 150			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 172$ Nm

GST 05 - 3 N

Dimensions page 3-138

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**1A**	**□B**	**□C**	**1A**	**□B**	**□C**	**1A**	**□B**	**□C**
i	P_{1perm} [kW] M_{2perm} [Nm]									
36.267	P_1 M_2		1.05 124	1.05 124		0.57 134	0.57 134		0.28 134	0.28 134
46.259	P_1 M_2		0.96 145	0.96 145		0.48 145	0.48 145		0.24 145	0.24 145
56.667	P_1 M_2		0.84 155	0.84 155		0.42 155	0.42 155		0.21 155	0.21 155
63.467	P_1 M_2		0.71 146	0.71 146		0.35 146	0.35 146		0.18 146	0.18 146
71.238	P_1 M_2	0.72 167	0.72 167	0.72 167	0.36 167	0.36 167	0.36 167	0.18 167	0.18 167	0.18 167
80.952	P_1 M_2		0.56 147	0.56 147		0.28 147	0.28 147		0.14 147	0.14 147
91.746	P_1 M_2	0.57 170	0.57 170	0.57 170	0.29 170	0.29 170	0.29 170	0.14 170	0.14 170	0.14 170
99.167	P_1 M_2		0.46 148	0.46 148		0.23 148	0.23 148		0.11 148	0.11 148
116.277	P_1 M_2	0.45 170	0.45 170		0.23 170	0.23 170		0.11 170	0.11 170	
124.667	P_1 M_2	0.37 149	0.37 149	0.37 149	0.18 149	0.18 149	0.18 149	0.09 149	0.09 149	0.09 149
145.714	P_1 M_2	0.36 170	0.36 170		0.18 170	0.18 170		0.09 170	0.09 170	
160.556	P_1 M_2	0.29 150	0.29 150	0.29 150	0.14 150	0.14 150	0.14 150	0.07 150	0.07 150	0.07 150
179.067	P_1 M_2	0.29 167	0.29 167		0.14 167	0.14 167		0.07 167	0.07 167	
191.973	P_1 M_2	0.27 170			0.14 170			0.07 170		
224.400	P_1 M_2	0.23 169	0.23 169		0.12 169	0.12 169		0.06 169	0.06 169	
255.000	P_1 M_2	0.18 152	0.18 152		0.09 152	0.09 152		0.05 152	0.05 152	
295.638	P_1 M_2	0.18 172			0.09 172			0.05 172		
335.952	P_1 M_2	0.14 154			0.07 154			0.04 154		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 105$ Nm

GST 06 - 1 N

Dimensions page 3-128

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
1.600	P_1 M_2				9.28 50	9.28 50				5.71 61	5.71 61				2.86 61	2.86 61
2.048	P_1 M_2			3.75 26	8.55 59	8.55 59			2.31 32	5.26 72	5.26 72			1.54 42	2.63 72	2.63 72
2.240	P_1 M_2			3.75 28	8.47 64	8.47 64			2.31 35	5.22 79	5.22 79			1.54 46	2.61 79	2.61 79
2.857	P_1 M_2		3.04 29	3.75 36	7.82 75	7.82 75		1.87 36	2.31 44	4.81 92	4.81 92		1.25 48	1.54 59	2.41 92	2.41 92
3.500	P_1 M_2			3.75 44	7.23 85	7.23 85			2.31 54	4.45 105	4.45 105			1.54 72	2.23 105	2.23 105
4.556	P_1 M_2		3.04 46	3.75 57	5.57 85			1.87 57	2.31 71	3.43 105			1.02 63	1.36 83	1.72 105	
5.667	P_1 M_2		2.78 53	3.69 70	4.48 85			1.71 65	2.27 87	2.76 105			0.86 65	1.14 87	1.38 105	
7.333	P_1 M_2	1.43 35	2.23 55	2.97 73			0.88 43	1.37 68	1.83 90			0.44 43	0.69 68	0.91 90		
8.900	P_1 M_2	1.20 36	1.86 56	2.31 69			0.74 44	1.15 69	1.43 85			0.37 44	0.57 69	0.71 85		
11.250	P_1 M_2	0.96 36	1.36 51				0.59 45	0.84 63				0.30 45	0.42 63			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 368$ Nm

GST 06 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
3.033	P_1 M_2				10.7 108	10.7 108				6.60 132	6.60 132				4.14 166	4.14 166
3.333	P_1 M_2				10.7 118	10.7 118				6.60 146	6.60 146				3.94 174	3.94 174
4.160	P_1 M_2				10.7 148	10.7 148				6.60 182	6.60 182				3.47 191	3.47 191
4.571	P_1 M_2				10.7 162	10.7 162				6.60 200	6.60 200				3.30 200	3.30 200
5.324	P_1 M_2			3.75 66	9.56 168	9.56 168			2.31 81	5.88 207	5.88 207			1.54 108	2.94 207	2.94 207
5.850	P_1 M_2			3.75 73	9.30 180	9.30 180			2.31 89	5.73 222	5.73 222			1.54 119	2.86 222	2.86 222
6.400	P_1 M_2			3.75 79	8.79 186	8.79 186			2.31 98	5.41 229	5.41 229			1.54 130	2.71 229	2.71 229
7.040	P_1 M_2				8.24 192	8.24 192				5.07 236	5.07 236				2.54 236	2.54 236
8.163	P_1 M_2		3.04 82	3.75 101	7.56 204	7.56 204		1.87 101	2.31 125	4.66 252	4.66 252		1.25 135	1.54 166	2.33 252	2.33 252
9.010	P_1 M_2			3.75 112	7.11 212	7.11 212			2.31 138	4.38 261	4.38 261			1.54 184	2.19 261	2.19 261
10.000	P_1 M_2			3.75 124	6.61 219	6.61 219			2.31 153	4.07 269	4.07 269			1.54 204	2.03 269	2.03 269
11.200	P_1 M_2			3.75 139	6.14 228	6.14 228			2.31 171	3.78 280	3.78 280			1.54 228	1.89 280	1.89 280
12.571	P_1 M_2		3.04 126	3.75 156	5.76 240	5.76 240		1.87 156	2.31 192	3.55 295	3.55 295		1.25 207	1.54 256	1.77 295	1.77 295
14.286	P_1 M_2		3.04 144	3.75 177	5.27 249	5.27 249		1.87 177	2.31 218	3.24 307	3.24 307		1.25 236	1.54 291	1.62 307	1.62 307
15.400	P_1 M_2			4.26 217	5.76 293	5.76 293			2.31 235	3.12 318	3.12 318			1.54 314	1.56 318	1.56 318
17.500	P_1 M_2			4.26 247	4.99 289	4.99 289			2.31 267	2.70 313	2.70 313			1.35 313	1.35 313	1.35 313
20.044	P_1 M_2		3.45 229	4.26 283	4.87 323			1.87 248	2.31 306	2.64 350			1.02 271	1.32 350	1.32 350	
22.778	P_1 M_2		3.45 260	3.86 291	3.86 291			1.87 282	2.09 315	2.09 315			1.02 308	1.05 315	1.05 315	
24.933	P_1 M_2		3.16 260	4.03 332	4.03 332			1.71 282	2.18 360	2.18 360			0.86 282	1.09 360	1.09 360	
28.333	P_1 M_2		3.12 293	3.12 293	3.12 293			1.69 317	1.69 317	1.69 317			0.85 317	0.85 317	0.85 317	
32.267	P_1 M_2	1.63 174	2.53 271	3.14 335			0.88 188	1.37 293	1.70 363			0.44 188	0.69 293	0.85 363		
36.667	P_1 M_2	1.63 197	2.45 297	2.45 297			0.88 214	1.33 322	1.33 322			0.44 214	0.66 322	0.66 3220		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 368$ Nm

GST 06 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
39.160	P_1 M_2	1.36 176	2.11 274	2.62 340			0.74 191	1.15 297	1.42 368			0.37 191	0.57 297	0.71 368		
44.500	P_1 M_2	1.47 217	2.21 325	2.21 325			0.74 217	1.10 325	1.10 325			0.37 217	0.55 325	0.55 325		
49.500	P_1 M_2	1.18 193	1.70 278				0.59 193	0.85 278				0.30 193	0.42 278			
56.250	P_1 M_2	1.18 220	1.70 316				0.59 220	0.85 316				0.30 220	0.42 316			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 375$ Nm

GST 06 - 3 N

Dimensions page 3-138

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
39.200	P_1 M_2		2.32 296	2.32 296	2.32 296		1.26 321	1.26 321	1.26 321		0.63 321	0.63 321	0.63 321
44.000	P_1 M_2		2.15 308	2.34 335	2.34 335		1.08 308	1.17 335	1.17 335		0.54 308	0.58 335	0.58 335
51.022	P_1 M_2		1.95 325	1.95 325	1.95 325		0.98 325	0.98 325	0.98 325		0.49 325	0.49 325	0.49 325
53.900	P_1 M_2		1.99 349	1.99 349	1.99 349		0.99 349	0.99 349	0.99 349		0.50 349	0.50 349	0.50 349
67.760	P_1 M_2	1.29 286	1.65 365	1.65 365		0.65 286	0.83 365	0.83 365		0.32 286	0.41 365	0.41 365	
70.156	P_1 M_2		1.57 359	1.57 359	1.57 359		0.79 359	0.79 359	0.79 359		0.39 359	0.39 359	0.39 359
80.952	P_1 M_2		1.26 332	1.26 332	1.26 332		0.63 332	0.63 332	0.63 332		0.32 332	0.32 332	0.32 332
87.267	P_1 M_2		1.30 370	1.30 370	1.30 370		0.65 370	0.65 370	0.65 370		0.33 370	0.33 370	0.33 370
99.167	P_1 M_2		1.04 335	1.04 335	1.04 335		0.52 335	0.52 335	0.52 335		0.26 335	0.26 335	0.26 335
109.707	P_1 M_2	1.05 375	1.05 375	1.05 375		0.52 375	0.52 375	0.52 375		0.26 375	0.26 375	0.26 375	
124.667	P_1 M_2	0.84 339	0.84 339	0.84 339		0.42 339	0.42 339	0.42 339		0.21 339	0.21 339	0.21 339	
141.289	P_1 M_2	0.81 375	0.81 375	0.81 375		0.41 375	0.41 375	0.41 375		0.20 375	0.20 375	0.20 375	
160.556	P_1 M_2	0.65 342	0.65 342	0.65 342		0.33 342	0.33 342	0.33 342		0.16 342	0.16 342	0.16 342	
179.067	P_1 M_2	0.64 375	0.64 375			0.32 375	0.32 375			0.16 375	0.16 375		
203.485	P_1 M_2	0.52 346	0.52 346			0.26 346	0.26 346			0.13 346	0.13 346		
231.733	P_1 M_2	0.50 375	0.50 375			0.25 375	0.25 375			0.12 375	0.12 375		
255.000	P_1 M_2	0.42 349	0.42 349			0.21 349	0.21 349			0.11 349	0.11 349		
290.400	P_1 M_2	0.40 375	0.40 375			0.20 375	0.20 375			0.10 375	0.10 375		
330.000	P_1 M_2	0.33 352	0.33 352			0.16 352	0.16 352			0.08 352	0.08 352		
382.591	P_1 M_2	0.30 375				0.15 375				0.08 375			
434.762	P_1 M_2	0.26 361				0.13 361				0.06 361			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 185$ Nm

GST 07 - 1 N

Dimensions page 3-128

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
1.625	P_1 M_2				10.7 58	15.8 86	15.8 86				6.60 72	9.72 106	9.72 106				4.40 96	4.86 106	4.86 106
2.000	P_1 M_2			10.7 72	10.7 72	15.0 101	15.0 101			6.60 89	6.60 89	9.21 124	9.21 124			4.40 118	4.40 118	4.61 124	4.61 124
2.240	P_1 M_2			10.7 81	10.7 81	14.5 109	14.5 109			6.60 99	6.60 99	8.94 135	8.94 135			4.40 132	4.40 132	4.47 135	4.47 135
2.857	P_1 M_2		3.75 36	10.7 103	10.7 103	13.4 129			2.31 44	6.60 127	6.60 127	8.26 159			1.54 59	3.97 152	4.13 159	4.13 159	
3.500	P_1 M_2			10.7 126	10.7 126	11.9 140				6.60 155	6.60 155	7.31 172				3.41 161	3.58 168	3.66 172	
4.556	P_1 M_2		3.75 57	8.92 136	9.35 143				2.31 71	5.49 168	5.75 176				1.54 94	2.75 168	2.88 176		
5.583	P_1 M_2		3.75 70	7.64 143	8.00 150				2.31 87	4.70 176	4.92 185				1.43 107	2.35 176	2.46 185		
7.333	P_1 M_2	2.74 67	3.64 90	5.99 147				1.69 83	2.24 111	3.69 182				0.84 83	1.12 111	1.84 182			
8.900	P_1 M_2	2.29 68	3.04 91	4.97 149				1.41 84	1.87 112	3.06 183				0.70 84	0.94 112	1.53 183			
11.250	P_1 M_2	1.83 69	2.44 92					1.13 85	1.50 113					0.56 85	0.75 113				

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 707$ Nm

GST 07 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H
i	P_{1perm} [kW] M_{2perm} [Nm]																		
3.048	P_1 M_2				10.7 108	28.3 285	28.3 285				6.60 133	17.4 351	17.4 351				4.40 177	8.71 351	8.71 351
3.350	P_1 M_2				10.7 119	26.9 298	26.9 298				6.60 146	16.5 367	16.5 367				4.40 195	8.27 367	8.27 367
4.225	P_1 M_2				10.7 150	23.1 323	23.1 323				6.60 184	14.2 398	14.2 398				4.40 246	7.11 398	7.11 398
4.643	P_1 M_2				10.7 165	21.9 336	21.9 336				6.60 203	13.5 414	13.5 414				4.40 270	6.74 414	6.74 414
5.200	P_1 M_2			10.7 184	10.7 184	20.2 347	20.2 347			6.60 227	6.60 227	12.4 427	12.4 427			4.40 303	4.40 303	6.21 427	6.21 427
5.714	P_1 M_2			10.7 203	10.7 203	19.3 364	19.3 364			6.60 249	6.60 249	11.9 448	11.9 448			4.40 333	4.40 333	5.93 448	5.93 448
6.400	P_1 M_2			10.7 227	10.7 227	17.8 376	17.8 376			6.60 279	6.60 279	10.9 463	10.9 463			4.40 373	4.40 373	5.47 463	5.47 463
7.150	P_1 M_2				10.7 254	16.8 397	16.8 397				6.60 312	10.3 488	10.3 488				4.40 416	5.16 488	5.16 488
8.125	P_1 M_2				10.7 288	16.3 438	16.3 438				6.60 355	10.0 539	10.0 539				4.40 473	5.01 539	5.01 539
8.800	P_1 M_2			10.7 312	10.7 312	14.7 428	14.7 428			6.60 384	6.60 384	9.05 527	9.05 527			4.40 512	4.40 512	4.53 527	4.53 527
9.856	P_1 M_2			10.7 349	10.7 349	13.7 446	13.7 446			6.60 430	6.60 430	8.42 549	8.42 549			4.21 549	4.21 549	4.21 549	4.21 549
11.200	P_1 M_2			10.7 397	10.7 397	13.1 486	13.1 486			6.60 489	6.60 489	8.07 598	8.07 598			4.04 598	4.04 598	4.04 598	4.04 598
12.571	P_1 M_2		3.75 156	10.7 446	10.7 446	11.7 488			2.31 192	6.60 549	6.60 549	7.22 600			1.54 256	3.61 600	3.61 600	3.61 600	
14.286	P_1 M_2		3.75 177	10.7 507	10.7 507	11.0 521			2.31 218	6.60 624	6.60 624	6.79 642			1.54 291	3.39 642	3.39 642	3.39 642	
15.400	P_1 M_2			11.7 594	11.7 594	11.7 594				6.32 644	6.32 644	6.32 644				3.16 644	3.16 644	3.16 644	
17.500	P_1 M_2			10.8 627	10.8 627	10.8 627				5.87 680	5.87 680	5.87 680				2.93 680	2.93 680	2.93 680	
20.044	P_1 M_2		4.26 283	9.65 640	9.65 640				2.31 306	5.23 694	5.23 694				1.54 408	2.62 694	2.62 694		
22.778	P_1 M_2		4.26 321	8.35 629	8.35 629				2.31 348	4.52 682	4.52 682				1.54 464	2.26 682	2.26 682		
24.567	P_1 M_2		4.26 346	8.01 651	8.01 651				2.31 375	4.34 706	4.34 706				1.43 465	2.17 706	2.17 706		
27.917	P_1 M_2		4.26 394	6.90 638	6.90 638				2.31 427	3.74 691	3.74 691				1.43 529	1.87 691	1.87 691		
32.267	P_1 M_2	3.11 332	4.14 442	6.10 651				1.69 360	2.24 479	3.31 706				0.84 360	1.12 479	1.65 706			
36.667	P_1 M_2	3.11 377	4.14 502	5.34 648				1.69 409	2.24 544	2.89 702				0.84 409	1.12 544	1.45 702			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 707$ Nm

GST 07 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
39.160	P_1 M_2	2.60 336	3.46 448	5.03 651				1.41 365	1.87 485	2.72 706				0.70 365	0.94 485	1.36 706			
44.500	P_1 M_2	2.81 414	3.74 551	4.80 707				1.41 414	1.87 551	2.40 707				0.70 414	0.94 551	1.20 707			
49.500	P_1 M_2	2.26 370	3.00 492					1.13 370	1.50 492					0.56 370	0.75 492				
56.250	P_1 M_2	2.26 420	3.00 559					1.13 420	1.50 559					0.56 420	0.75 559				

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 710$ Nm

GST 07 - 3 N

Dimensions page 3-138

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
39.200	P_1 M_2	2.54 324	3.45 441	4.26 544	4.99 638	1.37 351	1.87 478	2.31 590	2.71 692	0.73 371	1.25 637	1.35 692	1.35 692
44.000	P_1 M_2		3.74 536	4.62 662	4.92 706		1.87 536	2.31 662	2.46 706		1.03 593	1.23 706	1.23 706
51.022	P_1 M_2	2.75 457	3.74 622	4.21 700	4.21 700	1.37 457	1.87 622	2.10 700	2.10 700	0.73 483	1.05 700	1.05 700	1.05 700
53.900	P_1 M_2		3.74 657	4.02 706	4.02 706		1.87 657	2.01 706	2.01 706		1.01 706	1.01 706	1.01 706
65.079	P_1 M_2	2.13 453	3.32 704	3.34 707		1.07 453	1.66 704	1.67 707		0.53 453	0.83 704	0.83 707	
70.156	P_1 M_2		3.09 706	3.09 706	3.09 706		1.54 706	1.54 706	1.54 706		0.77 706	0.77 706	0.77 706
79.762	P_1 M_2	2.73 710	2.73 710	2.73 710	2.73 710	1.37 710	1.37 710	1.37 710	1.37 710	0.68 710	0.68 710	0.68 710	0.68 710
85.983	P_1 M_2		2.52 706	2.52 706	2.52 706		1.26 706	1.26 706	1.26 706		0.63 706	0.63 706	0.63 706
97.708	P_1 M_2		2.23 710	2.23 710	2.23 710		1.12 710	1.12 710	1.12 710		0.56 710	0.56 710	0.56 710
111.915	P_1 M_2	1.94 706	1.94 706	1.94 706		0.97 706	0.97 706	0.97 706		0.48 706	0.48 706	0.48 706	
127.176	P_1 M_2	1.71 710	1.71 710	1.71 710		0.86 710	0.86 710	0.86 710		0.43 710	0.43 710	0.43 710	
139.211	P_1 M_2	1.56 706	1.56 706	1.56 706		0.78 706	0.78 706	0.78 706		0.39 706	0.39 706	0.39 706	
158.194	P_1 M_2	1.38 710	1.38 710	1.38 710		0.69 710	0.69 710	0.69 710		0.34 710	0.34 710	0.34 710	
180.156	P_1 M_2	1.20 706	1.20 706			0.60 706	0.60 706			0.30 706	0.30 706		
204.722	P_1 M_2	1.06 710	1.06 710			0.53 710	0.53 710			0.27 710	0.27 710		
236.622	P_1 M_2	0.92 706	0.92 706			0.46 706	0.46 706			0.23 706	0.23 706		
248.458	P_1 M_2	0.88 710	0.88 710			0.44 710	0.44 710			0.22 710	0.22 710		
268.889	P_1 M_2	0.81 710	0.81 710			0.41 710	0.41 710			0.20 710	0.20 710		
326.333	P_1 M_2	0.67 710	0.67 710			0.33 710	0.33 710			0.17 710	0.17 710		
367.033	P_1 M_2	0.59 706				0.30 706				0.15 706			
417.083	P_1 M_2	0.52 710				0.26 710				0.13 710			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 443$ Nm

GST 09 - 1 N

Dimensions page 3-128

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
1.560	P_1 M_2				28.6 150	42.9 225	42.9 225				17.6 184	26.4 277	26.4 277				11.7 246	13.2 277	13.2 277
2.048	P_1 M_2			10.7 74	28.6 197	39.9 275	39.9 275			6.60 91	17.6 242	24.6 338	24.6 338			4.40 121	11.7 323	12.3 338	12.3 338
2.333	P_1 M_2			10.7 84	28.6 224	38.3 301				6.60 103	17.6 276	23.6 370				4.40 138	10.9 342	11.8 370	
2.810	P_1 M_2		10.7 101	10.7 101	28.6 270	36.0 339			6.60 125	6.60 125	17.6 332	22.1 418			4.40 166	4.40 166	9.59 362	11.1 418	
3.444	P_1 M_2			10.7 124	26.8 310	31.1 360				6.60 153	16.5 382	19.1 443				4.40 204	8.25 382	9.57 443	
4.667	P_1 M_2		10.7 168	10.7 168	19.6 308				6.60 207	6.60 207	12.1 379				3.31 208	3.49 219	6.04 379		
5.667	P_1 M_2		9.24 176	9.73 185	18.0 343				5.69 217	5.99 228	11.1 422				2.84 217	3.00 228	5.54 422		
7.333	P_1 M_2	3.75 92	7.42 183	7.81 192				2.31 114	4.57 225	4.81 237				1.39 137	2.28 225	2.40 237			
8.900	P_1 M_2	3.75 112	6.19 185	6.52 195				2.31 138	3.81 228	4.01 240				1.16 138	1.91 228	2.01 240			
11.250	P_1 M_2	3.02 114	4.97 188					1.86 140	3.06 231					0.93 140	1.53 231				

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 1582$ Nm

GST 09 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
4.056	P_1				28.6	53.1	53.1				17.6	32.7	32.7				11.7	16.4	16.4
	M_2				384	713	713				472	878	878				630	878	878
4.457	P_1				28.6	51.3	51.3				17.6	31.6	31.6				11.7	15.8	15.8
	M_2				421	756	756				519	931	931				692	931	931
5.324	P_1			10.7	28.6	45.8	45.8			6.60	17.6	28.2	28.2			4.40	11.7	14.1	14.1
	M_2			189	503	806	806			232	620	993	993			310	826	993	993
5.850	P_1			10.7	28.6	42.8	42.8			6.60	17.6	26.3	26.3			4.40	11.7	13.2	13.2
	M_2			207	553	828	828			255	681	1020	1020			341	908	1020	1020
6.667	P_1			10.7	28.6	39.2				6.60	17.6	24.1				4.40	10.9	12.1	
	M_2			236	630	865				291	776	1065				388	962	1065	
7.305	P_1		10.7	10.7	28.6	37.1			6.60	6.60	17.6	22.8			4.40	4.40	9.59	11.4	
	M_2		259	259	691	896			319	319	850	1103			425	425	927	1103	
8.027	P_1		10.7	10.7	28.6	34.7			6.60	6.60	17.6	21.3			4.40	4.40	9.59	10.7	
	M_2		285	285	759	920			350	350	935	1133			467	467	1019	1133	
9.010	P_1			10.7	28.6	30.7	30.7			6.60	17.6	18.9	18.9			4.40	9.46	9.46	9.46
	M_2			319	852	916	916			393	1049	1128	1128			524	1128	1128	1128
10.267	P_1			10.7	28.2	28.2				6.60	17.3	17.3				4.40	8.67	8.67	
	M_2			364	957	957				448	1178	1178				598	1178	1178	
11.667	P_1			10.7	25.4	25.4				6.60	15.6	15.6				4.40	7.81	7.81	
	M_2			414	979	979				509	1206	1206				679	1206	1206	
12.362	P_1		10.7	10.7	24.9	24.9			6.60	6.60	15.3	15.3			4.40	4.40	7.66	7.66	
	M_2		438	438	1017	1017			540	540	1253	1253			720	720	1253	1253	
14.048	P_1		10.7	10.7	22.4	22.4			6.60	6.60	13.8	13.8			4.40	4.40	6.90	6.90	
	M_2		498	498	1042	1042			613	613	1283	1283			818	818	1283	1283	
15.156	P_1			12.2	24.7	24.7				6.60	13.4	13.4				4.40	6.68	6.68	
	M_2			611	1237	1237				662	1340	1340				882	1340	1340	
17.222	P_1			12.2	22.2	22.2				6.60	12.0	12.0				4.40	6.02	6.02	
	M_2			694	1266	1266				752	1373	1373				1003	1373	1373	
20.533	P_1		12.2	12.2	20.2				6.60	6.60	10.9				3.31	3.49	5.46		
	M_2		827	827	1369				896	896	1484				900	949	1484		
23.333	P_1		12.2	12.2	18.0				6.60	6.60	9.76				3.31	3.49	4.88		
	M_2		940	940	1391				1019	1019	1508				1023	1079	1508		
24.933	P_1		10.5	11.1	17.7				5.69	5.99	9.59				2.84	3.00	4.79		
	M_2		866	912	1460				939	988	1582				939	988	1582		
28.333	P_1		10.5	11.1	15.0				5.69	5.99	8.10				2.84	3.00	4.05		
	M_2		984	1036	1402				1067	1123	1519				1067	1123	1519		
32.267	P_1	4.26	8.43	8.87				2.31	4.57	4.81				1.39	2.28	2.40			
	M_2	455	900	947				493	975	1027				592	975	1027			
36.667	P_1	4.26	8.43	8.87				2.31	4.57	4.81				1.39	2.28	2.40			
	M_2	517	1023	1076				560	1109	1167				673	1109	1167			
39.160	P_1	4.26	7.04	7.41				2.31	3.81	4.01				1.16	1.91	2.01			
	M_2	552	912	960				598	988	1040				600	988	1040			
44.500	P_1	4.62	7.63	8.03				2.31	3.81	4.01				1.16	1.91	2.01			
	M_2	680	1123	1182				680	1123	1182				682	1123	1182			
49.500	P_1	3.72	6.12					1.86	3.06					0.93	1.53				
	M_2	608	1002					608	1002					608	1002				
56.250	P_1	3.72	6.12					1.86	3.06					0.93	1.53				
	M_2	691	1138					691	1138					691	1138				

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 1623$ Nm

GST 09 - 3 N

Dimensions page 3-138

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
40.136	P_1 M_2		3.45 451	4.26 557	9.48 1240	9.48 1240		1.87 489	2.31 604	5.14 1344	5.14 1344		1.25 652	1.54 805	2.57 1344	2.57 1344
43.267	P_1 M_2			4.62 651	9.15 1290	9.15 1290			2.31 651	4.57 1290	4.57 1290			1.54 868	2.29 1290	2.29 1290
49.167	P_1 M_2			4.62 740	9.15 1466	9.15 1466			2.31 740	4.57 1466	4.57 1466			1.54 987	2.29 1466	2.29 1466
53.044	P_1 M_2			4.62 798	7.98 1379	7.98 1379			2.31 798	3.99 1379	3.99 1379			1.54 1065	1.99 1379	1.99 1379
60.278	P_1 M_2			4.62 907	7.96 1565	7.96 1565			2.31 907	3.98 1565	3.98 1565			1.54 1210	1.99 1565	1.99 1565
71.867	P_1 M_2			4.62 1082	6.31 1477	6.31 1477			2.31 1082	3.15 1477	3.15 1477			1.54 1442	1.58 1477	1.58 1477
81.667	P_1 M_2			4.62 1229	5.95 1584	5.95 1584			2.31 1229	2.97 1584	2.97 1584			1.49 1584	1.49 1584	1.49 1584
93.541	P_1 M_2		3.74 1140	4.62 1408	5.29 1613			1.87 1140	2.31 1408	2.65 1613			1.02 1247	1.32 1613	1.32 1613	
99.167	P_1 M_2			4.62 1493	4.94 1596	4.94 1596			2.31 1493	2.47 1596	2.47 1596			1.23 1596	1.23 1596	1.23 1596
113.585	P_1 M_2		3.74 1384	4.36 1613	4.36 1613			1.87 1384	2.18 1613	2.18 1613			1.02 1515	1.09 1613	1.09 1613	
129.074	P_1 M_2		3.74 1573	3.83 1612	3.83 1612			1.87 1573	1.92 1612	1.92 1612			0.96 1612	0.96 1612	0.96 1612	
141.289	P_1 M_2		3.42 1575	3.50 1613	3.50 1613			1.71 1575	1.75 1613	1.75 1613			0.86 1575	0.88 1613	0.88 1613	
160.556	P_1 M_2		3.10 1623	3.10 1623	3.10 1623			1.55 1623	1.55 1623	1.55 1623			0.78 1623	0.78 1623	0.78 1623	
182.845	P_1 M_2	1.76 1050	2.71 1613	2.71 1613			0.88 1050	1.35 1613	1.35 1613			0.44 1050	0.68 1613	0.68 1613		
207.778	P_1 M_2	1.76 1194	2.40 1623	2.40 1623			0.88 1194	1.20 1623	1.20 1623			0.44 1194	0.60 1623	0.60 1623		
236.622	P_1 M_2	1.76 1359	2.09 1613	2.09 1613			0.88 1359	1.05 1613	1.05 1613			0.44 1359	0.52 1613	0.52 1613		
252.167	P_1 M_2	1.47 1210	1.98 1623	1.98 1623			0.74 1210	0.99 1623	0.99 1623			0.37 1210	0.49 1623	0.49 1623		
268.889	P_1 M_2	1.76 1545	1.85 1623	1.85 1623			0.88 1545	0.93 1623	0.93 1623			0.44 1545	0.46 1623	0.46 1623		
326.333	P_1 M_2	1.47 1566	1.53 1623	1.53 1623			0.74 1566	0.76 1623	0.76 1623			0.37 1566	0.38 1623	0.38 1623		
363.000	P_1 M_2	1.18 1396	1.36 1613				0.59 1396	0.68 1613				0.30 1396	0.34 1613			
412.500	P_1 M_2	1.18 1586	1.21 1623				0.59 1586	0.60 1623				0.30 1586	0.30 1623			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 2933$ Nm

GST 11 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2																
Drive size		□E	□F	□G	□H	□K	□E	□F	□G	□H	□K	□E	□F	□G	□H	□K
i	P_{1perm} [kW] M_{2perm} [Nm]															
4.056	P_1				80.4	90.2				49.5	55.5				27.8	27.8
	M_2				1079	1210				1328	1490				1490	1490
4.457	P_1				80.4	88.5				49.5	54.5				27.2	27.2
	M_2				1185	1305				1459	1606				1606	1606
5.324	P_1				73.5	73.5				45.2	45.2				22.6	22.6
	M_2				1295	1295				1594	1594				1594	1594
5.850	P_1				74.3	74.3				45.8	45.8				22.9	22.9
	M_2				1439	1439				1772	1772				1772	1772
6.400	P_1			28.6	69.1	69.1			17.6	42.5	42.5			11.7	21.3	21.3
	M_2			605	1462	1462			745	1801	1801			994	1801	1801
6.864	P_1				73.9	73.9				45.5	45.5				22.7	22.7
	M_2				1677	1677				2065	2065				2065	2065
7.800	P_1				66.5	66.5				40.9	40.9				20.5	20.5
	M_2				1717	1717				2114	2114				2114	2114
9.010	P_1				61.6	61.6				37.9	37.9				19.0	19.0
	M_2				1835	1835				2259	2259				2259	2259
9.856	P_1			28.6	57.9	57.9			17.6	35.7	35.7			11.7	17.8	17.8
	M_2			932	1889	1889			1148	2325	2325			1530	2325	2325
11.200	P_1			28.6	52.1	52.1			17.6	32.1	32.1			11.7	16.1	16.1
	M_2			1059	1933	1933			1304	2380	2380			1739	2380	2380
12.571	P_1		10.7	28.6	49.2	49.2		6.60	17.6	30.3	30.3		4.40	11.7	15.2	15.2
	M_2		446	1189	2047	2047		549	1464	2520	2520		732	1943	2520	2520
14.286	P_1		10.7	28.6	44.3	44.3		6.60	17.6	27.3	27.3		4.40	11.7	13.6	13.6
	M_2		507	1351	2094	2094		624	1663	2579	2579		832	2208	2579	2579
15.400	P_1			32.5	48.8	48.8			17.6	26.4	26.4			10.1	13.2	13.2
	M_2			1654	2486	2486			1793	2695	2695			2051	2695	2695
17.500	P_1			32.5	43.9	43.9			17.6	23.8	23.8			10.1	11.9	11.9
	M_2			1880	2545	2545			2037	2758	2758			2331	2758	2758
20.289	P_1		12.2	29.9	37.9			6.60	16.2	20.5			4.37	8.09	10.3	
	M_2		817	2006	2543			886	2173	2756			1175	2173	2756	
23.056	P_1		12.2	29.9	35.2			6.60	16.2	19.1			4.37	8.09	9.55	
	M_2		929	2279	2688			1007	2470	2913			1335	2470	2913	
24.933	P_1		12.2	25.0	31.1			6.60	13.5	16.8			3.66	6.76	8.42	
	M_2		1005	2060	2563			1089	2232	2777			1207	2232	2777	
28.333	P_1		12.2	25.0	28.9			6.60	13.5	15.6			3.66	6.76	7.82	
	M_2		1141	2341	2706			1237	2537	2933			1371	2537	2933	
32.267	P_1	10.2	10.8	20.1			5.55	5.87	10.9			2.78	2.94	5.43		
	M_2	1094	1157	2141			1185	1254	2320			1185	1254	2320		
36.667	P_1	10.2	10.8	20.1			5.55	5.87	10.9			2.78	2.94	5.43		
	M_2	1243	1315	2433			1347	1425	2637			1347	1425	2637		
39.160	P_1	8.56	9.05	16.8			4.64	4.90	9.07			2.32	2.45	4.54		
	M_2	1109	1173	2170			1202	1271	2352			1202	1271	2352		
44.500	P_1	9.27	9.81	18.2			4.64	4.90	9.07			2.32	2.45	4.54		
	M_2	1366	1444	2673			1366	1444	2673			1366	1444	2673		
49.500	P_1	7.44	7.86				3.72	3.93				1.86	1.97			
	M_2	1219	1288				1219	1288				1219	1288			
56.250	P_1	7.44	7.86				3.72	3.93				1.86	1.97			
	M_2	1385	1464				1385	1464				1385	1464			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 2848$ Nm

GST 11 - 3 N

Dimensions page 3-138

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	80 71	90 80	100/112 80/90	100/112 90	132 100/112	80 71	90 80	100/112 80/90	100/112 90	132 100/112
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**□C**	**□D**	**□E**	**□F**	**□G**	**□C**	**□D**	**□E**	**□F**	**□G**	**□C**	**□D**	**□E**	**□F**	**□G**
i	P_{1perm} [kW] M_{2perm} [Nm]															
40.816	P_1 M_2		4.26 567	12.2 1620	12.2 1620	17.7 2353		2.31 614	6.60 1755	6.60 1755	9.58 2550		1.54 819	3.97 2111	4.15 2209	4.79 2550
44.000	P_1 M_2		4.62 662	13.2 1892	13.2 1892	16.8 2410		2.31 662	6.60 1892	6.60 1892	8.40 2410		1.54 883	3.97 2276	4.15 2381	4.20 2410
50.000	P_1 M_2		4.62 753	13.2 2150	13.2 2150	16.7 2725		2.31 753	6.60 2150	6.60 2150	8.36 2725		1.54 1003	3.97 2586	4.15 2706	4.18 2725
57.968	P_1 M_2		4.62 873	13.2 2493	13.2 2493	13.6 2577		2.31 873	6.60 2493	6.60 2493	6.82 2577		1.54 1163	3.41 2577	3.41 2577	3.41 2577
61.250	P_1 M_2			13.2 2634	13.2 2634	13.7 2725			6.60 2634	6.60 2634	6.83 2725			3.41 2725	3.41 2725	3.41 2725
71.011	P_1 M_2			11.4 2637	11.4 2637	11.4 2637			5.70 2637	5.70 2637	5.70 2637			2.85 2637	2.85 2637	2.85 2637
80.694	P_1 M_2			10.6 2787	10.6 2787	10.6 2787			5.30 2787	5.30 2787	5.30 2787			2.65 2787	2.65 2787	2.65 2787
87.267	P_1 M_2			9.34 2656	9.34 2656	9.34 2656			4.67 2656	4.67 2656	4.67 2656			2.34 2656	2.34 2656	2.34 2656
99.167	P_1 M_2			8.69 2810	8.69 2810	8.69 2810			4.35 2810	4.35 2810	4.35 2810			2.17 2810	2.17 2810	2.17 2810
112.933	P_1 M_2			7.32 2695	7.32 2695	7.32 2695			3.66 2695	3.66 2695	3.66 2695			1.83 2695	1.83 2695	1.83 2695
129.074	P_1 M_2		4.62 1943	6.68 2810	6.68 2810			2.31 1943	3.34 2810	3.34 2810			1.54 2590	1.67 2810	1.67 2810	
146.993	P_1 M_2		4.62 2213	5.63 2695	5.63 2695			2.31 2213	2.81 2695	2.81 2695			1.41 2695	1.41 2695	1.41 2695	
158.194	P_1 M_2		4.62 2381	5.45 2810	5.45 2810			2.31 2381	2.73 2810	2.73 2810			1.36 2810	1.36 2810	1.36 2810	
180.156	P_1 M_2		4.59 2695	4.59 2695	4.59 2695			2.30 2695	2.30 2695	2.30 2695			1.15 2695	1.15 2695	1.15 2695	
207.778	P_1 M_2	3.37 2282	4.15 2810	4.15 2810			1.69 2282	2.08 2810	2.08 2810			0.84 2282	1.04 2810	1.04 2810		
236.622	P_1 M_2	3.37 2598	3.49 2695	3.49 2695			1.69 2598	1.75 2695	1.75 2695			0.84 2598	0.87 2695	0.87 2695		
252.167	P_1 M_2	2.81 2312	3.42 2810	3.42 2810			1.41 2312	1.71 2810	1.71 2810			0.70 2312	0.86 2810	0.86 2810		
268.889	P_1 M_2	3.25 2848	3.25 2848	3.25 2848			1.63 2848	1.63 2848	1.63 2848			0.81 2848	0.81 2848	0.81 2848		
326.333	P_1 M_2	2.68 2848	2.68 2848	2.68 2848			1.34 2848	1.34 2848	1.34 2848			0.67 2848	0.67 2848	0.67 2848		
363.000	P_1 M_2	2.26 2669	2.28 2695				1.13 2669	1.14 2695				0.56 2669	0.57 2695			
412.500	P_1 M_2	2.12 2848	2.12 2848				1.06 2848	1.06 2848				0.53 2848	0.53 2848			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 5786$ Nm

GST 14 - 2 N

Dimensions page 3-132

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2										
Drive size		□G	□H	□K	□G	□H	□K	□G	□H	□K
i	P_{1perm} [kW] M_{2perm} [Nm]									
4.225	P_1 M_2			93.8 1311			57.7 1614			38.5 2152
4.643	P_1 M_2			93.8 1441			57.7 1774			38.5 2365
5.200	P_1 M_2		80.4 1383	93.8 1613		49.5 1703	57.7 1987		33.0 2270	38.5 2649
5.714	P_1 M_2		80.4 1520	93.8 1773		49.5 1871	57.7 2183		33.0 2495	38.5 2911
6.286	P_1 M_2		80.4 1672	93.8 1950		49.5 2058	57.7 2401		32.5 2702	38.5 3202
7.150	P_1 M_2			93.8 2218			57.7 2731			36.9 3490
8.027	P_1 M_2		80.4 2135	93.8 2491		49.5 2629	57.7 3067		28.7 3048	35.6 3783
8.800	P_1 M_2		80.4 2340	93.8 2730		49.5 2882	57.7 3362		32.1 3737	32.1 3737
9.841	P_1 M_2		80.4 2617	93.8 3053		49.5 3223	57.7 3760		24.8 3223	29.7 3873
11.000	P_1 M_2		80.4 2925	87.9 3200		49.5 3602	54.1 3940		27.1 3940	27.1 3940
12.362	P_1 M_2		80.4 3288	82.9 3391		49.5 4048	51.0 4176		25.5 4176	25.5 4176
14.048	P_1 M_2		74.6 3468	74.6 3468		45.9 4270	45.9 4270		23.0 4270	23.0 4270
15.156	P_1 M_2		82.2 4121	82.2 4121		44.5 4466	44.5 4466		22.3 4466	22.3 4466
17.222	P_1 M_2		73.9 4212	73.9 4212		40.1 4565	40.1 4565		20.0 4565	20.0 4565
20.044	P_1 M_2	32.5 2153	68.2 4523	68.2 4523	17.6 2334	37.0 4902	37.0 4902	9.76 2590	18.5 4902	18.5 4902
22.778	P_1 M_2	32.5 2447	61.3 4623	61.3 4623	17.6 2652	33.2 5010	33.2 5010	9.76 2944	16.6 5010	16.6 5010
24.567	P_1 M_2	30.9 2514	59.4 4832		16.8 2724	32.2 5236		8.38 2724	16.1 5236	
27.917	P_1 M_2	30.9 2857	53.5 4941		16.8 3096	29.0 5355		8.38 3096	14.5 5355	
32.267	P_1 M_2	24.3 2591	47.0 5016		13.2 2808	25.5 5436		6.57 2808	12.7 5436	
36.667	P_1 M_2	24.3 2944	43.9 5323		13.2 3191	23.8 5768		6.57 3191	11.9 5768	
39.160	P_1 M_2	20.3 2627	38.8 5031		11.0 2847	21.0 5452		5.49 2847	10.5 5452	
44.500	P_1 M_2	22.0 3235	39.3 5786		11.0 3235	19.7 5786		5.49 3235	9.82 5786	
49.500	P_1 M_2	17.6 2888			8.82 2888			4.41 2888		
56.250	P_1 M_2	17.6 3282			8.82 3282			4.41 3282		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 5920$ Nm

GST 14 - 3 N

Dimensions page 3-138

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132
For the geometrical assignment of servo/DC motors see section 2																
Drive size		□D	□E	□F	□G	□H	□D	□E	□F	□G	□H	□D	□E	□F	□G	□H
i	P_{1perm} [kW] M_{2perm} [Nm]															
40.185	P_1			12.2	31.5	31.5			6.60	17.1	17.1			4.40	8.54	8.54
	M_2			1595	4130	4130			1728	4476	4476			2304	4476	4476
42.580	P_1		13.2	13.2	30.7	30.7		6.60	6.60	15.4	15.4		4.40	4.40	7.68	7.68
	M_2		1831	1831	4262	4262		1831	1831	4262	4262		2442	2442	4262	4262
48.386	P_1		13.2	13.2	30.7	30.7		6.60	6.60	15.4	15.4		4.40	4.40	7.68	7.68
	M_2		2081	2081	4843	4843		2081	2081	4843	4843		2774	2774	4843	4843
53.148	P_1			13.2	27.6	27.6			6.60	13.8	13.8			4.40	6.90	6.90
	M_2			2286	4779	4779			2286	4779	4779			3048	4779	4779
59.321	P_1			13.2	27.2	27.2			6.60	13.6	13.6			4.40	6.81	6.81
	M_2			2551	5267	5267			2551	5267	5267			3401	5267	5267
69.042	P_1			13.2	21.9	21.9			6.60	10.9	10.9			4.40	5.46	5.46
	M_2			2969	4917	4917			2969	4917	4917			3959	4917	4917
78.457	P_1			13.2	21.9	21.9			6.60	10.9	10.9			4.40	5.46	5.46
	M_2			3374	5587	5587			3374	5587	5587			4499	5587	5587
93.541	P_1		13.2	13.2	18.1			6.60	6.60	9.06			3.31	3.49	4.53	
	M_2		4023	4023	5524			4023	4023	5524			4041	4261	5524	
96.157	P_1			13.2	18.8	18.8			6.60	9.38	9.38			4.40	4.69	4.69
	M_2			4135	5882	5882			4135	5882	5882			5514	5882	5882
106.296	P_1		13.2	13.2	17.1			6.60	6.60	8.54			3.31	3.49	4.27	
	M_2		4571	4571	5920			4571	4571	5920			4592	4842	5920	
130.278	P_1		13.2	13.2	13.9			6.60	6.60	6.97			3.31	3.49	3.49	
	M_2		5603	5603	5920			5603	5603	5920			5628	5920	5920	
139.211	P_1		11.4	12.0	12.6			5.69	5.99	6.32			2.84	3.00	3.16	
	M_2		5162	5436	5736			5162	5436	5736			5162	5436	5736	
158.194	P_1		11.4	11.5	11.5			5.69	5.74	5.74			2.84	2.87	2.87	
	M_2		5866	5920	5920			5866	5920	5920			5866	5920	5920	
171.111	P_1		10.6	10.6	10.6			5.31	5.31	5.31			2.65	2.65	2.65	
	M_2		5920	5920	5920			5920	5920	5920			5920	5920	5920	
204.722	P_1	4.62	8.87	8.87			2.31	4.44	4.44			1.39	2.22	2.22		
	M_2	3081	5920	5920			3081	5920	5920			3700	5920	5920		
236.622	P_1	4.62	7.49	7.49			2.31	3.75	3.75			1.39	1.87	1.87		
	M_2	3562	5779	5779			3562	5779	5779			4276	5779	5779		
248.458	P_1	4.62	7.31	7.31			2.31	3.66	3.66			1.16	1.83	1.83		
	M_2	3740	5920	5920			3740	5920	5920			3749	5920	5920		
268.889	P_1	4.62	6.76	6.76			2.31	3.38	3.38			1.39	1.69	1.69		
	M_2	4047	5920	5920			4047	5920	5920			4859	5920	5920		
326.333	P_1	4.62	5.57	5.57			2.31	2.78	2.78			1.16	1.39	1.39		
	M_2	4912	5920	5920			4912	5920	5920			4924	5920	5920		
363.000	P_1	3.72	4.88				1.86	2.44				0.93	1.22			
	M_2	4395	5779				4395	5779				4395	5779			
412.500	P_1	3.72	4.40				1.86	2.20				0.93	1.10			
	M_2	4995	5920				4995	5920				4995	5920			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 25$ Nm

GST 04 - 1 W

Dimensions page 3-142

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
1.600	P_1 M_2		2.36 13	2.90 16		1.45 16	1.79 19		0.73 6	0.89 19
2.048	P_1 M_2		2.69 19	2.69 19		1.66 23	1.66 23		0.83 23	0.83 23
2.240	P_1 M_2		2.67 20	2.67 20		1.64 25	1.64 25		0.82 25	0.82 25
2.857	P_1 M_2		2.12 20	2.12 20		1.30 25	1.30 25		0.65 25	0.65 25
3.500	P_1 M_2		1.73 20	1.73 20		1.06 25	1.06 25		0.53 25	0.53 25
4.400	P_1 M_2	1.05 16	1.37 20	1.37 20	0.65 19	0.85 25	0.85 25	0.32 19	0.42 25	0.42 25
5.667	P_1 M_2	0.88 17	1.07 20	1.07 20	0.54 21	0.66 25	0.66 25	0.27 21	0.33 25	0.33 25
7.182	P_1 M_2	0.77 19	0.84 20		0.47 23	0.52 25		0.24 23	0.26 25	
9.000	P_1 M_2	0.62 19	0.62 19		0.38 23	0.38 23		0.19 23	0.19 23	
11.857	P_1 M_2	0.33 13			0.20 16			0.10 16		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 73$ Nm

GST 04 - 2 W

Dimensions page 3-143

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
2.956	P_1 M_2		2.36 23	3.25 32		1.45 28	2.00 39		0.73 28	1.00 39
3.333	P_1 M_2		2.36 26	3.08 34		1.45 32	1.89 42		0.73 32	0.95 42
4.053	P_1 M_2		2.36 32	2.72 37		1.45 39	1.68 45		0.73 39	0.84 45
4.571	P_1 M_2		2.36 36	2.58 39		1.45 44	1.59 48		0.73 44	0.79 48
5.187	P_1 M_2		2.37 41	2.37 41		1.46 50	1.46 50		0.73 50	0.73 50
5.850	P_1 M_2		2.23 43	2.23 43		1.38 53	1.38 53		0.69 53	0.69 53
6.400	P_1 M_2		2.11 45	2.11 45		1.30 55	1.30 55		0.65 55	0.65 55
7.040	P_1 M_2		1.98 46	1.98 46		1.22 57	1.22 57		0.61 57	0.61 57
8.000	P_1 M_2		1.80 48	1.80 48		1.11 59	1.11 59		0.56 59	0.56 59
9.010	P_1 M_2		1.71 51	1.71 51		1.05 63	1.05 63		0.53 63	0.53 63
9.856	P_1 M_2		1.61 53	1.61 53		0.99 65	0.99 65		0.50 65	0.50 65
11.200	P_1 M_2		1.32 49	1.32 49		0.81 60	0.81 60		0.41 60	0.41 60
12.571	P_1 M_2		1.35 56	1.35 56		0.83 69	0.83 69		0.42 69	0.42 69
14.286	P_1 M_2		1.05 49	1.05 49		0.64 61	0.64 61		0.32 61	0.32 61
15.400	P_1 M_2		1.11 57	1.11 57		0.68 70	0.68 70		0.34 70	0.34 70
17.500	P_1 M_2		0.87 50	0.87 50		0.53 62	0.53 62		0.27 62	0.27 62
19.360	P_1 M_2	0.89 57	0.89 57	0.89 57	0.55 70	0.55 70	0.55 70	0.28 70	0.28 70	0.28 70
22.000	P_1 M_2	0.70 51	0.70 51	0.70 51	0.43 62	0.43 62	0.43 62	0.21 62	0.21 62	0.21 62
24.933	P_1 M_2	0.70 58	0.70 58	0.70 58	0.43 71	0.43 71	0.43 71	0.22 71	0.22 71	0.22 71
28.333	P_1 M_2	0.55 51	0.55 51	0.55 51	0.34 63	0.34 63	0.34 63	0.17 63	0.17 63	0.17 63
31.600	P_1 M_2	0.56 59	0.56 59		0.35 72	0.35 72		0.17 72	0.17 72	
35.909	P_1 M_2	0.44 52	0.44 52		0.27 64	0.27 64		0.14 64	0.14 64	
39.600	P_1 M_2	0.45 59	0.45 59		0.28 73	0.28 73		0.14 73	0.14 73	
45.000	P_1 M_2	0.36 53	0.36 53		0.22 65	0.22 65		0.11 65	0.11 65	
52.171	P_1 M_2	0.33 56			0.20 69			0.10 69		
59.286	P_1 M_2	0.27 54			0.17 66			0.08 66		

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 54$ Nm

GST 05 - 1 W

Dimensions page 3-142

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
1.600	P_1 M_2			6.75 36			4.16 45			2.08 45
2.048	P_1 M_2		4.04 28	6.20 43		2.49 34	3.82 53		1.24 34	1.91 53
2.240	P_1 M_2	2.36 18	3.86 29	5.72 43	1.45 22	2.38 36	3.52 53	0.73 22	1.19 36	1.76 53
2.857	P_1 M_2	2.31 22	3.26 31	4.48 43	1.42 27	2.01 38	2.76 53	0.71 27	1.00 38	1.38 53
3.500	P_1 M_2		2.80 33	3.73 44		1.72 41	2.30 54		0.86 41	1.15 54
4.556	P_1 M_2	1.61 25	2.25 34	2.87 44	0.99 30	1.38 42	1.76 54	0.50 30	0.69 42	0.88 54
5.667	P_1 M_2	1.35 26	1.88 36	2.30 44	0.83 32	1.16 44	1.42 54	0.42 32	0.58 44	0.71 54
7.333	P_1 M_2	1.09 27	1.51 37		0.67 33	0.93 46		0.34 33	0.46 46	
8.900	P_1 M_2	0.91 27	1.14 34		0.56 33	0.70 42		0.28 33	0.35 42	
11.375	P_1 M_2	0.66 25			0.40 31			0.20 31		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 165$ Nm

GST 05 - 2 W

Dimensions page 3-143

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
2.956	P_1 M_2			5.24 51			3.23 63			1.61 63
3.333	P_1 M_2			5.74 63			3.54 78			1.77 78
4.053	P_1 M_2			4.92 66			3.03 81			1.51 81
4.571	P_1 M_2			4.90 74			3.02 91			1.51 91
5.187	P_1 M_2		4.04 69	4.25 73		2.49 85	2.62 90		1.24 85	1.31 90
5.850	P_1 M_2		4.04 78	4.25 82		2.49 96	2.62 101		1.24 96	1.31 101
6.400	P_1 M_2	2.36 50	3.86 82	4.02 85	1.45 62	2.38 101	2.47 105	0.73 62	1.19 101	1.24 105
7.238	P_1 M_2	2.31 55	3.26 78	3.67 88	1.42 68	2.01 96	2.26 108	0.71 68	1.00 96	1.13 108
8.163	P_1 M_2	2.31 62	3.26 88	3.46 93	1.42 77	2.01 108	2.13 115	0.71 77	1.00 108	1.07 115
9.010	P_1 M_2		3.24 96	3.24 96		1.99 119	1.99 119		1.00 119	1.00 119
10.000	P_1 M_2		2.80 93	3.05 101		1.72 114	1.88 124		0.86 114	0.94 124
11.200	P_1 M_2	2.36 87	2.80 104	2.80 104	1.45 108	1.72 128	1.72 128	0.73 108	0.86 128	0.86 128
13.016	P_1 M_2	1.61 69	2.25 97	2.59 111	0.99 85	1.38 119	1.59 137	0.50 85	0.69 119	0.80 137
14.356	P_1 M_2	1.35 64	1.88 89	2.39 113	0.83 79	1.16 110	1.47 140	0.42 79	0.58 110	0.74 140
16.191	P_1 M_2	1.35 72	1.88 101	2.25 121	0.83 89	1.16 124	1.39 148	0.42 89	0.58 124	0.69 148
17.500	P_1 M_2		1.99 115	1.99 115		1.23 142	1.23 142		0.61 142	0.61 142
20.044	P_1 M_2	1.61 107	1.95 129	1.95 129	0.99 131	1.20 159	1.20 159	0.50 131	0.60 159	0.60 159
22.778	P_1 M_2	1.55 117	1.55 117	1.55 117	0.96 144	0.96 144	0.96 144	0.48 144	0.48 144	0.48 144
24.933	P_1 M_2	1.35 111	1.60 132	1.60 132	0.83 137	0.98 162	0.98 162	0.42 137	0.49 162	0.49 162
28.333	P_1 M_2	1.27 119	1.27 119	1.27 119	0.78 147	0.78 147	0.78 147	0.39 147	0.39 147	0.39 147
32.267	P_1 M_2	1.09 116	1.25 133		0.67 143	0.77 164		0.34 143	0.38 164	
36.667	P_1 M_2	0.99 120	0.99 120		0.61 148	0.61 148		0.31 148	0.31 148	
39.160	P_1 M_2	0.91 118	1.03 134		0.56 145	0.64 165		0.28 145	0.32 165	
44.500	P_1 M_2	0.82 121	0.82 121		0.51 149	0.51 149		0.25 149	0.25 149	
50.050	P_1 M_2	0.67 110			0.41 136			0.21 136		
56.875	P_1 M_2	0.65 122			0.40 150			0.20 150		

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 170$ Nm

GST 05 - 3 W

Dimensions page 3-144

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
36.267	P_1		0.92	0.92		0.57	0.57		0.28	0.28
	M_2		109	109		134	134		134	134
46.259	P_1		0.78	0.78		0.48	0.48		0.24	0.24
	M_2		118	118		145	145		145	145
56.667	P_1		0.68	0.68		0.42	0.42		0.21	0.21
	M_2		126	126		155	155		155	155
63.467	P_1		0.57	0.57		0.35	0.35		0.18	0.18
	M_2		119	119		146	146		146	146
71.238	P_1	0.59	0.59	0.59	0.36	0.36	0.36	0.18	0.18	0.18
	M_2	136	136	136	167	167	167	167	167	167
80.952	P_1		0.45	0.45		0.28	0.28		0.14	0.14
	M_2		119	119		147	147		147	147
91.746	P_1	0.46	0.46	0.46	0.29	0.29	0.29	0.14	0.14	0.14
	M_2	138	138	138	170	170	170	170	170	170
99.167	P_1		0.37	0.37		0.23	0.23		0.11	0.11
	M_2		120	120		148	148		148	148
116.277	P_1	0.37	0.37		0.23	0.23		0.11	0.11	
	M_2	138	138		170	170		170	170	
124.667	P_1	0.30	0.30	0.30	0.18	0.18	0.18	0.09	0.09	0.09
	M_2	121	121	121	149	149	149	149	149	149
145.714	P_1	0.29	0.29		0.18	0.18		0.09	0.09	
	M_2	138	138		170	170		170	170	
160.556	P_1	0.23	0.23	0.23	0.14	0.14	0.14	0.07	0.07	0.07
	M_2	122	122	122	150	150	150	150	150	150
179.067	P_1	0.23	0.23		0.14	0.14		0.07	0.07	
	M_2	136	136		167	167		167	167	
191.973	P_1	0.22			0.14			0.07		
	M_2	138			170			170		
224.400	P_1	0.19	0.19		0.12	0.12		0.06	0.06	
	M_2	137	137		169	169		169	169	
255.000	P_1	0.15	0.15		0.09	0.09		0.05	0.05	
	M_2	123	123		152	152		152	152	

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 105$ Nm

GST 06 - 1 W

Dimensions page 3-142

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
1.600	P_1 M_2			9.28 50	9.28 50			5.71 61	5.71 61			2.86 61	2.86 61
2.048	P_1 M_2		7.56 52	8.55 59	8.55 59		4.66 64	5.26 72	5.26 72		2.33 64	2.63 72	2.63 72
2.240	P_1 M_2		7.27 55	8.47 64	8.47 64		4.48 67	5.22 79	5.22 79		2.24 67	2.61 79	2.61 79
2.857	P_1 M_2	4.01 38	6.18 59	7.82 75	7.82 75	2.47 47	3.80 73	4.81 92	4.81 92	1.23 47	1.90 73	2.41 92	2.41 92
3.500	P_1 M_2		5.34 63	7.23 85	7.23 85		3.29 77	4.45 105	4.45 105		1.65 77	2.23 105	2.23 105
4.556	P_1 M_2	2.77 42	4.31 66	5.57 85		1.71 52	2.65 81	3.43 105		0.85 52	1.33 81	1.72 105	
5.667	P_1 M_2	2.32 44	3.62 69	4.48 85		1.43 54	2.23 85	2.76 105		0.71 54	1.11 85	1.38 105	
7.333	P_1 M_2	1.79 44	2.91 72			1.10 54	1.79 88			0.55 54	0.90 88		
8.900	P_1 M_2	1.55 46	2.31 69			0.96 57	1.43 85			0.48 57	0.71 85		
11.250	P_1 M_2	1.24 47				0.77 58				0.38 58			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 368$ Nm

GST 06 - 2 W

Dimensions page 3-143

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
3.033	P_1 M_2			13.5 135	13.5 135			8.29 166	8.29 166			4.14 166	4.14 166
3.333	P_1 M_2			12.8 141	12.8 141			7.89 174	7.89 174			3.94 174	3.94 174
4.160	P_1 M_2			11.3 155	11.3 155			6.94 191	6.94 191			3.47 191	3.47 191
4.571	P_1 M_2			10.7 162	10.7 162			6.60 200	6.60 200			3.30 200	3.30 200
5.324	P_1 M_2		7.56 133	9.56 168	9.56 168		4.66 164	5.88 207	5.88 207		2.33 164	2.94 207	2.94 207
5.850	P_1 M_2		7.56 146	9.30 180	9.30 180		4.66 180	5.73 222	5.73 222		2.33 180	2.86 222	2.86 222
6.400	P_1 M_2		7.27 154	8.79 186	8.79 186		4.48 190	5.41 229	5.41 229		2.24 190	2.71 229	2.71 229
7.040	P_1 M_2			8.24 192	8.24 192			5.07 236	5.07 236			2.54 236	2.54 236
8.163	P_1 M_2	4.01 108	6.18 167	7.56 204	7.56 204	2.47 133	3.80 206	4.66 252	4.66 252	1.23 133	1.90 206	2.33 252	2.33 252
9.010	P_1 M_2		7.11 212	7.11 212	7.11 212		4.38 261	4.38 261	4.38 261		2.19 261	2.19 261	2.19 261
10.000	P_1 M_2		5.34 177	6.61 219	6.61 219		3.29 218	4.07 269	4.07 269		1.65 218	2.03 269	2.03 269
11.200	P_1 M_2		6.14 228	6.14 228	6.14 228		3.78 280	3.78 280	3.78 280		1.89 280	1.89 280	1.89 280
12.571	P_1 M_2	4.01 167	5.76 240	5.76 240	5.76 240	2.47 205	3.55 295	3.55 295	3.55 295	1.23 205	1.77 295	1.77 295	1.77 295
14.286	P_1 M_2	4.01 189	5.27 249	5.27 249	5.27 249	2.47 233	3.24 307	3.24 307	3.24 307	1.23 233	1.62 307	1.62 307	1.62 307
15.400	P_1 M_2		5.07 258	5.07 258	5.07 258		3.12 318	3.12 318	3.12 318		1.56 318	1.56 318	1.56 318
17.500	P_1 M_2		4.39 254	4.39 254	4.39 254		2.70 313	2.70 313	2.70 313		1.35 313	1.35 313	1.35 313
20.044	P_1 M_2	2.77 184	4.29 284	4.29 284		1.71 226	2.64 350	2.64 350		0.85 226	1.32 350	1.32 350	
22.778	P_1 M_2	2.77 209	3.39 256	3.39 256		1.71 257	2.09 315	2.09 315		0.85 257	1.05 315	1.05 315	
24.933	P_1 M_2	2.32 191	3.54 292	3.54 292		1.43 235	2.18 360	2.18 360		0.71 235	1.09 360	1.09 360	
28.333	P_1 M_2	2.32 217	2.75 257	2.75 257		1.43 267	1.69 317	1.69 317		0.71 267	0.85 317	0.85 317	
32.267	P_1 M_2	1.79 191	2.76 295			1.10 235	1.70 363			0.55 235	0.85 363		
36.667	P_1 M_2	1.79 217	2.16 262			1.10 267	1.33 322			0.55 267	0.66 322		
39.160	P_1 M_2	1.55 201	2.31 299			0.96 247	1.42 368			0.48 247	0.71 368		
44.500	P_1 M_2	1.55 228	1.79 264			0.96 281	1.10 325			0.48 281	0.55 325		
49.500	P_1 M_2	1.24 204				0.77 251				0.38 251			
56.250	P_1 M_2	1.24 231				0.77 285				0.38 285			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 375$ Nm

GST 06 - 3 W

Dimensions page 3-144

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
39.200	P_1 M_2		2.04 261	2.04 261		1.26 321	1.26 321		0.63 321	0.63 321
44.000	P_1 M_2		1.90 272	1.90 272		1.17 335	1.17 335		0.58 335	0.58 335
51.022	P_1 M_2		1.59 264	1.59 264		0.98 325	0.98 325		0.49 325	0.49 325
53.900	P_1 M_2		1.61 283	1.61 283		0.99 349	0.99 349		0.50 349	0.50 349
67.760	P_1 M_2	1.05 232	1.34 296	1.34 296	0.65 286	0.83 365	0.83 365	0.32 286	0.41 365	0.41 365
70.156	P_1 M_2		1.27 291	1.27 291		0.79 359	0.79 359		0.39 359	0.39 359
80.952	P_1 M_2		1.02 270	1.02 270		0.63 332	0.63 332		0.32 332	0.32 332
87.267	P_1 M_2		1.06 300	1.06 300		0.65 370	0.65 370		0.33 370	0.33 370
99.167	P_1 M_2		0.84 272	0.84 272		0.52 335	0.52 335		0.26 335	0.26 335
109.707	P_1 M_2	0.85 305	0.85 305	0.85 305	0.52 375	0.52 375	0.52 375	0.26 375	0.26 375	0.26 375
124.667	P_1 M_2	0.68 275	0.68 275	0.68 275	0.42 339	0.42 339	0.42 339	0.21 339	0.21 339	0.21 339
141.289	P_1 M_2	0.66 305	0.66 305	0.66 305	0.41 375	0.41 375	0.41 375	0.20 375	0.20 375	0.20 375
160.556	P_1 M_2	0.53 278	0.53 278	0.53 278	0.33 342	0.33 342	0.33 342	0.16 342	0.16 342	0.16 342
179.067	P_1 M_2	0.52 305	0.52 305		0.32 375	0.32 375		0.16 375	0.16 375	
203.485	P_1 M_2	0.42 281	0.42 281		0.26 346	0.26 346		0.13 346	0.13 346	
231.733	P_1 M_2	0.40 305	0.40 305		0.25 375	0.25 375		0.12 375	0.12 375	
255.000	P_1 M_2	0.34 283	0.34 283		0.21 349	0.21 349		0.11 349	0.11 349	
290.400	P_1 M_2	0.32 305	0.32 305		0.20 375	0.20 375		0.10 375	0.10 375	
330.000	P_1 M_2	0.27 286	0.27 286		0.16 352	0.16 352		0.08 352	0.08 352	
382.591	P_1 M_2	0.24 305			0.15 375			0.08 375		
434.762	P_1 M_2	0.21 294			0.13 361			0.06 361		

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 196$ Nm

GST 07 - 1 W

Dimensions page 3-142

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
1.625	P_1 M_2			15.8 86	15.8 86			9.72 106	9.72 106			4.86 106	4.86 106
2.000	P_1 M_2		15.0 101	15.0 101	15.0 101		9.21 124	9.21 124	9.21 124		4.61 124	4.61 124	4.61 124
2.240	P_1 M_2		14.2 107	14.5 109	14.5 109		8.73 131	8.94 135	8.94 135		4.37 131	4.47 135	4.47 135
2.857	P_1 M_2	7.37 71	12.0 115	13.4 129	13.4 129	4.54 87	7.38 142	8.26 159	8.26 159	2.27 87	3.69 142	4.13 159	4.13 159
3.500	P_1 M_2		10.3 121	11.9 140	11.9 140		6.35 149	7.31 172	7.31 172		3.18 149	3.66 172	3.66 172
4.556	P_1 M_2	5.17 79	8.35 128	9.87 151		3.18 97	5.14 157	6.08 186		1.59 97	2.57 157	3.04 186	
5.583	P_1 M_2	4.46 84	7.10 133	8.49 159		2.74 103	4.37 164	5.23 196		1.37 103	2.19 164	2.61 196	
7.333	P_1 M_2	3.51 86	5.60 138			2.16 106	3.45 170			1.08 106	1.72 170		
8.900	P_1 M_2	2.94 88	4.71 141			1.81 108	2.90 173			0.90 108	1.45 173		
11.250	P_1 M_2	2.36 89				1.45 110				0.73 110			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 707$ Nm

GST 07 - 2 W

Dimensions page 3-143

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
3.048	P_1 M_2			26.2 264	28.3 285			16.1 325	17.4 351			8.07 325	8.71 351
3.350	P_1 M_2			26.2 290	26.9 298			16.1 358	16.5 367			8.07 358	8.27 367
4.225	P_1 M_2			23.1 323	23.1 323			14.2 398	14.2 398			7.11 398	7.11 398
4.643	P_1 M_2			21.9 336	21.9 336			13.5 414	13.5 414			6.74 414	6.74 414
5.200	P_1 M_2		15.3 262	20.2 347	20.2 347		9.39 323	12.4 427	12.4 427		4.69 323	6.21 427	6.21 427
5.714	P_1 M_2		15.3 288	19.3 364	19.3 364		9.39 355	11.9 448	11.9 448		4.69 355	5.93 448	5.93 448
6.400	P_1 M_2		14.2 300	17.8 376	17.8 376		8.73 370	10.9 463	10.9 463		4.37 370	5.47 463	5.47 463
7.150	P_1 M_2			16.8 397	16.8 397			10.3 488	10.3 488			5.16 488	5.16 488
8.125	P_1 M_2			16.3 438	16.3 438			10.0 539	10.0 539			5.01 539	5.01 539
8.800	P_1 M_2		14.7 428	14.7 428	14.7 428		9.05 527	9.05 527	9.05 527		4.53 527	4.53 527	4.53 527
9.856	P_1 M_2		13.7 446	13.7 446	13.7 446		8.42 549	8.42 549	8.42 549		4.21 549	4.21 549	4.21 549
11.200	P_1 M_2		13.1 486	13.1 486	13.1 486		8.07 598	8.07 598	8.07 598		4.04 598	4.04 598	4.04 598
12.571	P_1 M_2	7.37 307	11.7 488	11.7 488	11.7 488	4.54 378	7.22 600	7.22 600	7.22 600	2.27 378	3.61 600	3.61 600	3.61 600
14.286	P_1 M_2	7.37 349	11.0 521	11.0 521	11.0 521	4.54 429	6.79 642	6.79 642	6.79 642	2.27 429	3.39 642	3.39 642	3.39 642
15.400	P_1 M_2		10.3 523	10.3 523	10.3 523		6.32 644	6.32 644	6.32 644		3.16 644	3.16 644	3.16 644
17.500	P_1 M_2		9.53 552	9.53 552	9.53 552		5.87 680	5.87 680	5.87 680		2.93 680	2.93 680	2.93 680
20.044	P_1 M_2	5.17 343	8.35 554	8.50 564		3.18 422	5.14 682	5.23 694		1.59 422	2.57 682	2.62 694	
22.778	P_1 M_2	5.17 390	7.35 554	7.35 554		3.18 480	4.52 682	4.52 682		1.59 480	2.26 682	2.26 682	
24.567	P_1 M_2	4.46 362	7.05 573	7.05 573		2.74 446	4.34 706	4.34 706		1.37 446	2.17 706	2.17 706	
27.917	P_1 M_2	4.46 412	6.08 561	6.08 561		2.74 507	3.74 691	3.74 691		1.37 507	1.87 691	1.87 691	
32.267	P_1 M_2	3.51 375	5.37 573			2.16 461	3.31 706			1.08 461	1.65 706		
36.667	P_1 M_2	3.51 426	4.70 570			2.16 524	2.89 702			1.08 524	1.45 702		
39.160	P_1 M_2	2.94 380	4.42 573			1.81 468	2.72 706			0.90 468	1.36 706		
44.500	P_1 M_2	2.94 432	3.90 574			1.81 532	2.40 707			0.90 532	1.20 707		
49.500	P_1 M_2	2.36 386				1.45 476				0.73 476			
56.250	P_1 M_2	2.36 439				1.45 541				0.73 541			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 710$ Nm

GST 07 - 3 W

Dimensions page 3-144

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
39.200	P_1 M_2	2.36 301	3.86 493	4.40 562	1.45 371	2.38 607	2.71 692	0.73 371	1.19 607	1.35 692
44.000	P_1 M_2		2.80 402	4.00 573		1.72 495	2.46 706		0.86 495	1.23 706
51.022	P_1 M_2	2.36 392	3.42 568	3.42 568	1.45 483	2.10 700	2.10 700	0.73 483	1.05 700	1.05 700
53.900	P_1 M_2		2.80 492	3.26 573		1.72 606	2.01 706		0.86 606	1.01 706
65.079	P_1 M_2	1.61 341	2.25 477	2.71 575	0.99 420	1.38 587	1.67 707	0.50 420	0.69 587	0.83 707
70.156	P_1 M_2		2.51 573	2.51 573		1.54 706	1.54 706		0.77 706	0.77 706
79.762	P_1 M_2	2.22 577	2.22 577	2.22 577	1.37 710	1.37 710	1.37 710	0.68 710	0.68 710	0.68 710
85.983	P_1 M_2		2.05 573	2.05 573		1.26 706	1.26 706		0.63 706	0.63 706
97.708	P_1 M_2		1.81 577	1.81 577		1.12 710	1.12 710		0.56 710	0.56 710
111.915	P_1 M_2	1.57 573	1.57 573	1.57 573	0.97 706	0.97 706	0.97 706	0.48 706	0.48 706	0.48 706
127.176	P_1 M_2	1.39 577	1.39 577	1.39 577	0.86 710	0.86 710	0.86 710	0.43 710	0.43 710	0.43 710
139.211	P_1 M_2	1.26 573	1.26 573	1.26 573	0.78 706	0.78 706	0.78 706	0.39 706	0.39 706	0.39 706
158.194	P_1 M_2	1.12 577	1.12 577	1.12 577	0.69 710	0.69 710	0.69 710	0.34 710	0.34 710	0.34 710
180.156	P_1 M_2	0.98 573	0.98 573		0.60 706	0.60 706		0.30 706	0.30 706	
204.722	P_1 M_2	0.86 577	0.86 577		0.53 710	0.53 710		0.27 710	0.27 710	
236.622	P_1 M_2	0.74 573	0.74 573		0.46 706	0.46 706		0.23 706	0.23 706	
248.458	P_1 M_2	0.71 577	0.71 577		0.44 710	0.44 710		0.22 710	0.22 710	
268.889	P_1 M_2	0.66 577	0.66 577		0.41 710	0.41 710		0.20 710	0.20 710	
326.333	P_1 M_2	0.54 577	0.54 577		0.33 710	0.33 710		0.17 710	0.17 710	
367.033	P_1 M_2	0.48 573			0.30 706			0.15 706		
417.083	P_1 M_2	0.42 577			0.26 710			0.13 710		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 465$ Nm

GST 09 - 1 W

Dimensions page 3-142

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
1.560	P_1 M_2			42.9 225	42.9 225			26.4 277	26.4 277			13.2 277	13.2 277
2.048	P_1 M_2		28.4 195	39.9 275	39.9 275		17.5 240	24.6 338	24.6 338		8.73 240	12.3 338	12.3 338
2.333	P_1 M_2		25.6 201	38.3 301	38.3 301		15.8 247	23.6 370	23.6 370		7.88 247	11.8 370	11.8 370
2.810	P_1 M_2	14.9 140	22.5 212	36.0 339	36.0 339	9.16 173	13.9 261	22.1 418	22.1 418	4.58 173	6.93 261	11.1 418	11.1 418
3.444	P_1 M_2		19.4 224	31.1 360	31.1 360		11.9 276	19.1 443	19.1 443		5.96 276	9.57 443	9.57 443
4.667	P_1 M_2	10.1 158	15.2 238	19.6 308		6.22 195	9.34 293	12.1 379		3.11 195	4.67 293	6.04 379	
5.667	P_1 M_2	8.64 164	13.0 248	19.8 378		5.32 202	8.01 305	12.2 465		2.66 202	4.01 305	6.11 465	
7.333	P_1 M_2	6.94 171	10.4 257			4.27 210	6.43 317			2.14 210	3.21 317		
8.900	P_1 M_2	5.83 174	8.72 261			3.59 215	5.37 321			1.79 215	2.68 321		
11.250	P_1 M_2	4.70 178				2.89 219				1.45 219			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 1582$ Nm

GST 09 - 2 W

Dimensions page 3-143

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
4.056	P_1 M_2			53.1 713	53.1 713			32.7 878	32.7 878			16.4 878	16.4 878
4.457	P_1 M_2			51.3 756	51.3 756			31.6 931	31.6 931			15.8 931	15.8 931
5.324	P_1 M_2		28.4 500	45.8 806	45.8 806		17.5 615	28.2 993	28.2 993		8.73 615	14.1 993	14.1 993
5.850	P_1 M_2		28.4 549	42.8 828	42.8 828		17.5 676	26.3 1020	26.3 1020		8.73 676	13.2 1020	13.2 1020
6.667	P_1 M_2		25.6 565	39.2 865	39.2 865		15.8 695	24.1 1065	24.1 1065		7.88 695	12.1 1065	12.1 1065
7.305	P_1 M_2	14.9 360	22.5 544	37.1 896	37.1 896	9.16 443	13.9 670	22.8 1103	22.8 1103	4.58 443	6.93 670	11.4 1103	11.4 1103
8.027	P_1 M_2	14.9 395	22.5 598	34.7 920	34.7 920	9.16 487	13.9 736	21.3 1133	21.3 1133	4.58 487	6.93 736	10.7 1133	10.7 1133
9.010	P_1 M_2		28.4 846	30.7 916	30.7 916		17.5 1041	18.9 1128	18.9 1128		8.73 1041	9.46 1128	9.46 1128
10.267	P_1 M_2		25.6 870	28.2 957	28.2 957		15.8 1071	17.3 1178	17.3 1178		7.88 1071	8.67 1178	8.67 1178
11.667	P_1 M_2		25.4 979	25.4 979	25.4 979		15.6 1206	15.6 1206	15.6 1206		7.81 1206	7.81 1206	7.81 1206
12.362	P_1 M_2	14.9 609	22.5 920	24.9 1017	24.9 1017	9.16 750	13.9 1133	15.3 1253	15.3 1253	4.58 750	6.93 1133	7.66 1253	7.66 1253
14.048	P_1 M_2	14.9 692	22.4 1042	22.4 1042	22.4 1042	9.16 852	13.8 1283	13.8 1283	13.8 1283	4.58 852	6.90 1283	6.90 1283	6.90 1283
15.156	P_1 M_2		19.4 971	21.7 1088	21.7 1088		11.9 1195	13.4 1340	13.4 1340		5.96 1195	6.68 1340	6.68 1340
17.222	P_1 M_2		19.4 1103	19.6 1115	19.6 1115		11.9 1358	12.0 1373	12.0 1373		5.96 1358	6.02 1373	6.02 1373
20.533	P_1 M_2	10.1 686	15.2 1031	17.7 1205		6.22 845	9.34 1269	10.9 1484		3.11 845	4.67 1269	5.46 1484	
23.333	P_1 M_2	10.1 780	15.2 1172	15.9 1224		6.22 960	9.34 1443	9.76 1508		3.11 960	4.67 1443	4.88 1508	
24.933	P_1 M_2	8.64 713	13.0 1074	15.6 1285		5.32 877	8.01 1322	9.59 1582		2.66 877	4.01 1322	4.79 1582	
28.333	P_1 M_2	8.64 810	13.0 1220	13.2 1234		5.32 997	8.01 1502	8.10 1519		2.66 997	4.01 1502	4.05 1519	
32.267	P_1 M_2	6.94 741	10.4 1115			4.27 912	6.43 1373			2.14 912	3.21 1373		
36.667	P_1 M_2	6.94 842	10.3 1246			4.27 1036	6.32 1535			2.14 1036	3.16 1535		
39.160	P_1 M_2	5.83 755	8.72 1130			3.59 930	5.37 1391			1.79 930	2.68 1391		
44.500	P_1 M_2	5.83 858	8.53 1256			3.59 1056	5.25 1546			1.79 1056	2.63 1546		
49.500	P_1 M_2	4.70 770				2.89 948				1.45 948			
56.250	P_1 M_2	4.70 875				2.89 1077				1.45 1077			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 1623$ Nm

GST 09 - 3 W

Dimensions page 3-144

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
40.136	P_1 M_2	4.01 524	6.18 808	8.34 1092	8.34 1092	2.47 646	3.80 995	5.14 1344	5.14 1344	1.23 646	1.90 995	2.57 1344	2.57 1344
43.267	P_1 M_2		5.34 754	7.43 1047	7.43 1047		3.29 928	4.57 1290	4.57 1290		1.65 928	2.29 1290	2.29 1290
49.167	P_1 M_2		5.34 856	7.43 1190	7.43 1190		3.29 1054	4.57 1466	4.57 1466		1.65 1054	2.29 1466	2.29 1466
53.044	P_1 M_2		5.34 924	6.48 1120	6.48 1120		3.29 1138	3.99 1379	3.99 1379		1.65 1138	1.99 1379	1.99 1379
60.278	P_1 M_2		5.34 1050	6.47 1271	6.47 1271		3.29 1293	3.98 1565	3.98 1565		1.65 1293	1.99 1565	1.99 1565
71.867	P_1 M_2		5.12 1200	5.12 1200	5.12 1200		3.15 1477	3.15 1477	3.15 1477		1.58 1477	1.58 1477	1.58 1477
81.667	P_1 M_2		4.83 1286	4.83 1286	4.83 1286		2.97 1584	2.97 1584	2.97 1584		1.49 1584	1.49 1584	1.49 1584
93.541	P_1 M_2	2.77 844	4.30 1310	4.30 1310		1.71 1040	2.65 1613	2.65 1613		0.85 1040	1.32 1613	1.32 1613	
99.167	P_1 M_2		4.01 1296	4.01 1296	4.01 1296		2.47 1596	2.47 1596	2.47 1596		1.23 1596	1.23 1596	1.23 1596
113.585	P_1 M_2	2.77 1025	3.54 1310	3.54 1310		1.71 1263	2.18 1613	2.18 1613		0.85 1263	1.09 1613	1.09 1613	
129.074	P_1 M_2	2.77 1165	3.11 1309	3.11 1309		1.71 1435	1.92 1612	1.92 1612		0.85 1435	0.96 1612	0.96 1612	
141.289	P_1 M_2	2.32 1066	2.85 1310	2.85 1310		1.43 1313	1.75 1613	1.75 1613		0.71 1313	0.88 1613	0.88 1613	
160.556	P_1 M_2	2.32 1212	2.52 1318	2.52 1318		1.43 1492	1.55 1623	1.55 1623		0.71 1492	0.78 1623	0.78 1623	
182.845	P_1 M_2	1.79 1066	2.20 1310			1.10 1312	1.35 1613			0.55 1312	0.68 1613		
207.778	P_1 M_2	1.79 1211	1.95 1318			1.10 1491	1.20 1623			0.55 1491	0.60 1623		
236.622	P_1 M_2	1.70 1310	1.70 1310			1.05 1613	1.05 1613			0.52 1613	0.52 1613		
252.167	P_1 M_2	1.55 1275	1.60 1318			0.96 1570	0.99 1623			0.48 1570	0.49 1623		
268.889	P_1 M_2	1.50 1318	1.50 1318			0.93 1623	0.93 1623			0.46 1623	0.46 1623		
326.333	P_1 M_2	1.24 1318	1.24 1318			0.76 1623	0.76 1623			0.38 1623	0.38 1623		
363.000	P_1 M_2	1.11 1310				0.68 1613				0.34 1613			
412.500	P_1 M_2	0.98 1318				0.60 1623				0.30 1623			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 2933$ Nm

GST 11 - 2 W

Dimensions page 3-143

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1F	1G	1H	1K	1F	1G	1H	1K	1F	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]												
4.056	P_1 M_2			90.2 1210	90.2 1210			55.5 1490	55.5 1490			27.8 1490	27.8 1490
4.457	P_1 M_2			88.5 1305	88.5 1305			54.5 1606	54.5 1606			27.2 1606	27.2 1606
5.324	P_1 M_2			73.5 1295	73.5 1295			45.2 1594	45.2 1594			22.6 1594	22.6 1594
5.850	P_1 M_2			74.3 1439	74.3 1439			45.8 1772	45.8 1772			22.9 1772	22.9 1772
6.400	P_1 M_2		53.6 1134	69.1 1462	69.1 1462		33.0 1397	42.5 1801	42.5 1801		16.5 1397	21.3 1801	21.3 1801
6.864	P_1 M_2			73.9 1677	73.9 1677			45.5 2065	45.5 2065			22.7 2065	22.7 2065
7.800	P_1 M_2			66.5 1717	66.5 1717			40.9 2114	40.9 2114			20.5 2114	20.5 2114
9.010	P_1 M_2			61.6 1835	61.6 1835			37.9 2259	37.9 2259			19.0 2259	19.0 2259
9.856	P_1 M_2		53.6 1747	57.9 1889	57.9 1889		33.0 2151	35.7 2325	35.7 2325		16.5 2151	17.8 2325	17.8 2325
11.200	P_1 M_2		52.1 1933	52.1 1933	52.1 1933		32.1 2380	32.1 2380	32.1 2380		16.1 2380	16.1 2380	16.1 2380
12.571	P_1 M_2	27.3 1135	45.3 1886	49.2 2047	49.2 2047	16.8 1398	27.9 2322	30.3 2520	30.3 2520	8.40 1398	14.0 2322	15.2 2520	15.2 2520
14.286	P_1 M_2	27.3 1290	44.3 2094	44.3 2094	44.3 2094	16.8 1588	27.3 2579	27.3 2579	27.3 2579	8.40 1588	13.6 2579	13.6 2579	13.6 2579
15.400	P_1 M_2		39.1 1991	42.9 2188	42.9 2188		24.1 2452	26.4 2695	26.4 2695		12.0 2452	13.2 2695	13.2 2695
17.500	P_1 M_2		38.7 2240	38.7 2240	38.7 2240		23.8 2758	23.8 2758	23.8 2758		11.9 2758	11.9 2758	11.9 2758
20.289	P_1 M_2	19.0 1275	31.5 2115	33.3 2239		11.7 1570	19.4 2604	20.5 2756		5.85 1570	9.70 2604	10.3 2756	
23.056	P_1 M_2	19.0 1449	31.0 2366	31.0 2366		11.7 1784	19.1 2913	19.1 2913		5.85 1784	9.55 2913	9.55 2913	
24.933	P_1 M_2	15.9 1310	26.4 2179	27.3 2256		9.77 1613	16.3 2684	16.8 2777		4.89 1613	8.13 2684	8.42 2777	
28.333	P_1 M_2	15.9 1488	25.4 2382	25.4 2382		9.77 1832	15.6 2933	15.6 2933		4.89 1832	7.82 2933	7.82 2933	
32.267	P_1 M_2	12.8 1362	21.2 2267			7.85 1676	13.1 2791			3.93 1676	6.54 2791		
36.667	P_1 M_2	12.8 1547	19.6 2382			7.85 1905	12.1 2933			3.93 1905	6.04 2933		
39.160	P_1 M_2	10.7 1380	17.7 2295			6.55 1699	10.9 2826			3.28 1699	5.45 2826		
44.500	P_1 M_2	10.7 1568	16.2 2382			6.55 1930	9.96 2933			3.28 1930	4.98 2933		
49.500	P_1 M_2	8.54 1399				5.26 1722				2.63 1722			
56.250	P_1 M_2	8.54 1589				5.26 1957				2.63 1957			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 2848$ Nm

GST 11 - 3 W

Dimensions page 3-144

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
40.816	P_1 M_2	7.37 981	12.0 1594	15.6 2071	15.6 2071	4.54 1208	7.38 1963	9.58 2550	9.58 2550	2.27 1208	3.69 1963	4.79 2550	4.79 2550
44.000	P_1 M_2	7.37 1057	12.0 1718	13.7 1957	13.7 1957	4.54 1302	7.38 2116	8.40 2410	8.40 2410	2.27 1302	3.69 2116	4.20 2410	4.20 2410
50.000	P_1 M_2	7.37 1202	12.0 1953	13.6 2213	13.6 2213	4.54 1479	7.38 2404	8.36 2725	8.36 2725	2.27 1479	3.69 2404	4.18 2725	4.18 2725
57.968	P_1 M_2	7.37 1393	11.1 2093	11.1 2093	11.1 2093	4.54 1715	6.82 2577	6.82 2577	6.82 2577	2.27 1715	3.41 2577	3.41 2577	3.41 2577
61.250	P_1 M_2		10.3 2059	11.1 2213	11.1 2213		6.35 2535	6.83 2725	6.83 2725		3.18 2535	3.41 2725	3.41 2725
71.011	P_1 M_2		9.25 2141	9.25 2141	9.25 2141		5.70 2637	5.70 2637	5.70 2637		2.85 2637	2.85 2637	2.85 2637
80.694	P_1 M_2		8.60 2263	8.60 2263	8.60 2263		5.30 2787	5.30 2787	5.30 2787		2.65 2787	2.65 2787	2.65 2787
87.267	P_1 M_2		7.59 2157	7.59 2157	7.59 2157		4.67 2656	4.67 2656	4.67 2656		2.34 2656	2.34 2656	2.34 2656
99.167	P_1 M_2		7.06 2282	7.06 2282	7.06 2282		4.35 2810	4.35 2810	4.35 2810		2.17 2810	2.17 2810	2.17 2810
112.933	P_1 M_2		5.95 2189	5.95 2189	5.95 2189		3.66 2695	3.66 2695	3.66 2695		1.83 2695	1.83 2695	1.83 2695
129.074	P_1 M_2	5.17 2175	5.42 2282	5.42 2282		3.18 2678	3.34 2810	3.34 2810		1.59 2678	1.67 2810	1.67 2810	
146.993	P_1 M_2	4.57 2189	4.57 2189	4.57 2189		2.81 2695	2.81 2695	2.81 2695		1.41 2695	1.41 2695	1.41 2695	
158.194	P_1 M_2	4.43 2282	4.43 2282	4.43 2282		2.73 2810	2.73 2810	2.73 2810		1.36 2810	1.36 2810	1.36 2810	
180.156	P_1 M_2	3.73 2189	3.73 2189	3.73 2189		2.30 2695	2.30 2695	2.30 2695		1.15 2695	1.15 2695	1.15 2695	
207.778	P_1 M_2	3.37 2282	3.37 2282			2.08 2810	2.08 2810			1.04 2810	1.04 2810		
236.622	P_1 M_2	2.84 2189	2.84 2189			1.75 2695	1.75 2695			0.87 2695	0.87 2695		
252.167	P_1 M_2	2.78 2282	2.78 2282			1.71 2810	1.71 2810			0.86 2810	0.86 2810		
268.889	P_1 M_2	2.64 2313	2.64 2313			1.63 2848	1.63 2848			0.81 2848	0.81 2848		
326.333	P_1 M_2	2.18 2313	2.18 2313			1.34 2848	1.34 2848			0.67 2848	0.67 2848		
363.000	P_1 M_2	1.85 2189				1.14 2695				0.57 2695			
412.500	P_1 M_2	1.72 2313				1.06 2848				0.53 2848			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 5786$ Nm

GST 14 - 2 W

Dimensions page 3-143

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1G	1H	1K	1G	1H	1K	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]									
4.225	P_1 M_2			158.1 2211			97.4 2722			48.7 2722
4.643	P_1 M_2			154.5 2374			95.1 2923			47.6 2923
5.200	P_1 M_2		107.8 1855	143.7 2473		66.4 2284	88.5 3045		33.2 2284	44.2 3045
5.714	P_1 M_2		107.8 2038	139.5 2638		66.4 2510	85.9 3249		33.2 2510	43.0 3249
6.286	P_1 M_2		105.5 2195	132.6 2759		65.0 2702	81.7 3397		32.5 2702	40.8 3397
7.150	P_1 M_2			119.8 2834			73.8 3490			36.9 3490
8.027	P_1 M_2		91.0 2418	115.7 3072		56.0 2977	71.2 3783		28.0 2977	35.6 3783
8.800	P_1 M_2		104.2 3035	104.2 3035		64.2 3737	64.2 3737		32.1 3737	32.1 3737
9.841	P_1 M_2		78.6 2559	96.6 3145		48.4 3151	59.5 3873		24.2 3151	29.7 3873
11.000	P_1 M_2		87.9 3200	87.9 3200		54.1 3940	54.1 3940		27.1 3940	27.1 3940
12.362	P_1 M_2		82.9 3391	82.9 3391		51.0 4176	51.0 4176		25.5 4176	25.5 4176
14.048	P_1 M_2		74.6 3468	74.6 3468		45.9 4270	45.9 4270		23.0 4270	23.0 4270
15.156	P_1 M_2		72.3 3627	72.3 3627		44.5 4466	44.5 4466		22.3 4466	22.3 4466
17.222	P_1 M_2		65.1 3708	65.1 3708		40.1 4565	40.1 4565		20.0 4565	20.0 4565
20.044	P_1 M_2	38.1 2524	60.0 3981	60.0 3981	23.4 3108	37.0 4902	37.0 4902	11.7 3108	18.5 4902	18.5 4902
22.778	P_1 M_2	38.1 2868	54.0 4069	54.0 4069	23.4 3532	33.2 5010	33.2 5010	11.7 3532	16.6 5010	16.6 5010
24.567	P_1 M_2	32.6 2646	52.3 4252		20.0 3258	32.2 5236		10.0 3258	16.1 5236	
27.917	P_1 M_2	32.6 3007	47.1 4349		20.0 3703	29.0 5355		10.0 3703	14.5 5355	
32.267	P_1 M_2	25.7 2739	41.4 4415		15.8 3373	25.5 5436		7.90 3373	12.7 5436	
36.667	P_1 M_2	25.7 3113	38.6 4685		15.8 3833	23.8 5768		7.90 3833	11.9 5768	
39.160	P_1 M_2	21.5 2787	34.2 4428		13.2 3431	21.0 5452		6.62 3431	10.5 5452	
44.500	P_1 M_2	21.5 3167	31.9 4699		13.2 3899	19.7 5786		6.62 3899	9.82 5786	
49.500	P_1 M_2	17.3 2836			10.7 3492			5.33 3492		
56.250	P_1 M_2	17.3 3223			10.7 3969			5.33 3969		

Thermal power limit not considered (see page 2-4)

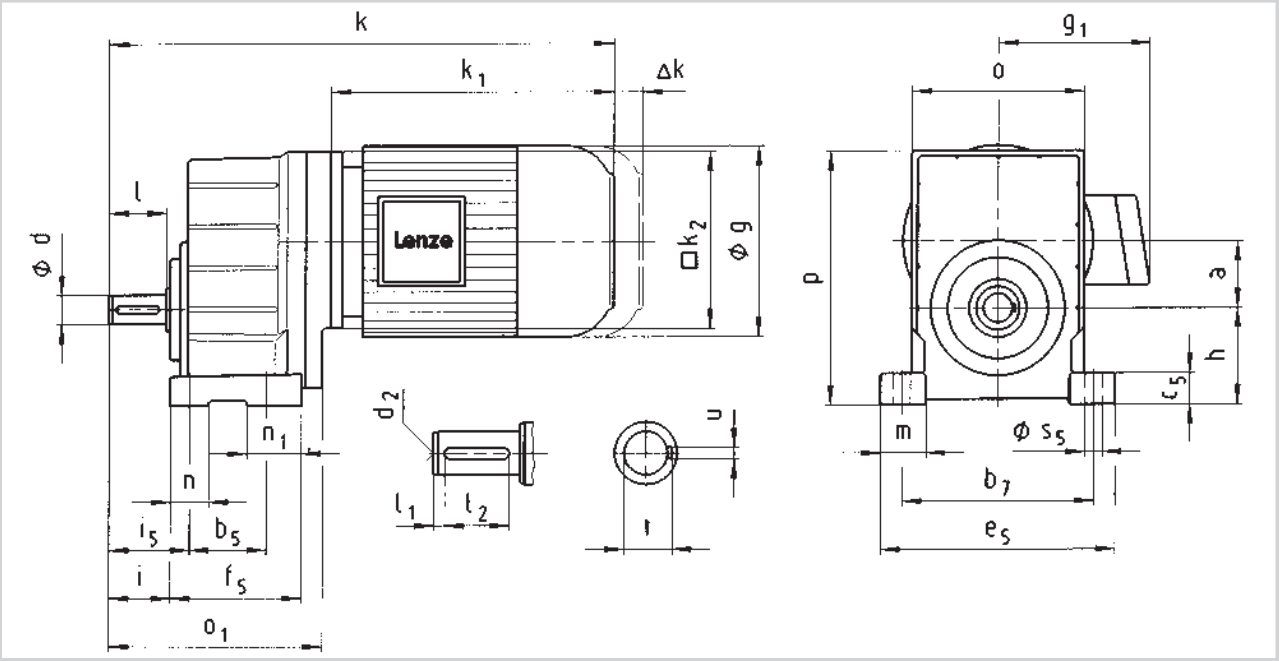
$M_{2\ perm} \leq 5920$ Nm

GST 14 - 3 W

Dimensions page 3-144

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
40.185	P_1 M2		25.6 3353	27.8 3635	27.8 3635		15.8 4129	17.1 4476	17.1 4476		7.88 4129	8.54 4476	8.54 4476
42.580	P_1 M2	14.9 2066	22.5 3122	24.9 3461	24.9 3461	9.16 2543	13.9 3844	15.4 4262	15.4 4262	4.58 2543	6.93 3844	7.68 4262	7.68 4262
48.386	P_1 M2	14.9 2347	22.5 3548	24.9 3933	24.9 3933	9.16 2890	13.9 4368	15.4 4843	15.4 4843	4.58 2890	6.93 4368	7.68 4843	7.68 4843
53.148	P_1 M2		22.4 3881	22.4 3881	22.4 3881		13.8 4779	13.8 4779	13.8 4779		6.90 4779	6.90 4779	6.90 4779
59.321	P_1 M2		19.4 3743	22.1 4277	22.1 4277		11.9 4609	13.6 5267	13.6 5267		5.96 4609	6.81 5267	6.81 5267
69.042	P_1 M2		17.7 3993	17.7 3993	17.7 3993		10.9 4917	10.9 4917	10.9 4917		5.46 4917	5.46 4917	5.46 4917
78.457	P_1 M2		17.7 4538	17.7 4538	17.7 4538		10.9 5587	10.9 5587	10.9 5587		5.46 5587	5.46 5587	5.46 5587
93.541	P_1 M2	10.1 3079	14.7 4487	14.7 4487		6.22 3791	9.06 5524	9.06 5524		3.11 3791	4.53 5524	4.53 5524	
96.157	P_1 M2		15.2 4777	15.2 4777	15.2 4777		9.38 5882	9.38 5882	9.38 5882		4.69 5882	4.69 5882	4.69 5882
106.296	P_1 M2	10.1 3499	13.9 4808	13.9 4808		6.22 4308	8.54 5920	8.54 5920		3.11 4308	4.27 5920	4.27 5920	
130.278	P_1 M2	10.1 4288	11.3 4808	11.3 4808		6.22 5280	6.97 5920	6.97 5920		3.11 5280	3.49 5920	3.49 5920	
139.211	P_1 M2	8.64 3919	10.3 4658	10.3 4658		5.32 4825	6.32 5736	6.32 5736		2.66 4825	3.16 5736	3.16 5736	
158.194	P_1 M2	8.64 4453	9.32 4808	9.32 4808		5.32 5483	5.74 5920	5.74 5920		2.66 5483	2.87 5920	2.87 5920	
171.111	P_1 M2	8.62 4808	8.62 4808	8.62 4808		5.31 5920	5.31 5920	5.31 5920		2.65 5920	2.65 5920	2.65 5920	
204.722	P_1 M2	6.94 4629	7.21 4808			4.27 5699	4.44 5920			2.14 5699	2.22 5920		
236.622	P_1 M2	6.09 4693	6.09 4693			3.75 5779	3.75 5779			1.87 5779	1.87 5779		
248.458	P_1 M2	5.83 4719	5.94 4808			3.59 5810	3.66 5920			1.79 5810	1.83 5920		
268.889	P_1 M2	5.49 4808	5.49 4808			3.38 5920	3.38 5920			1.69 5920	1.69 5920		
326.333	P_1 M2	4.52 4808	4.52 4808			2.78 5920	2.78 5920			1.39 5920	1.39 5920		
363.000	P_1 M2	3.97 4693				2.44 5779				1.22 5779			
412.500	P_1 M2	3.58 4808				2.20 5920				1.10 5920			

Thermal power limit not considered (see page 2-4)



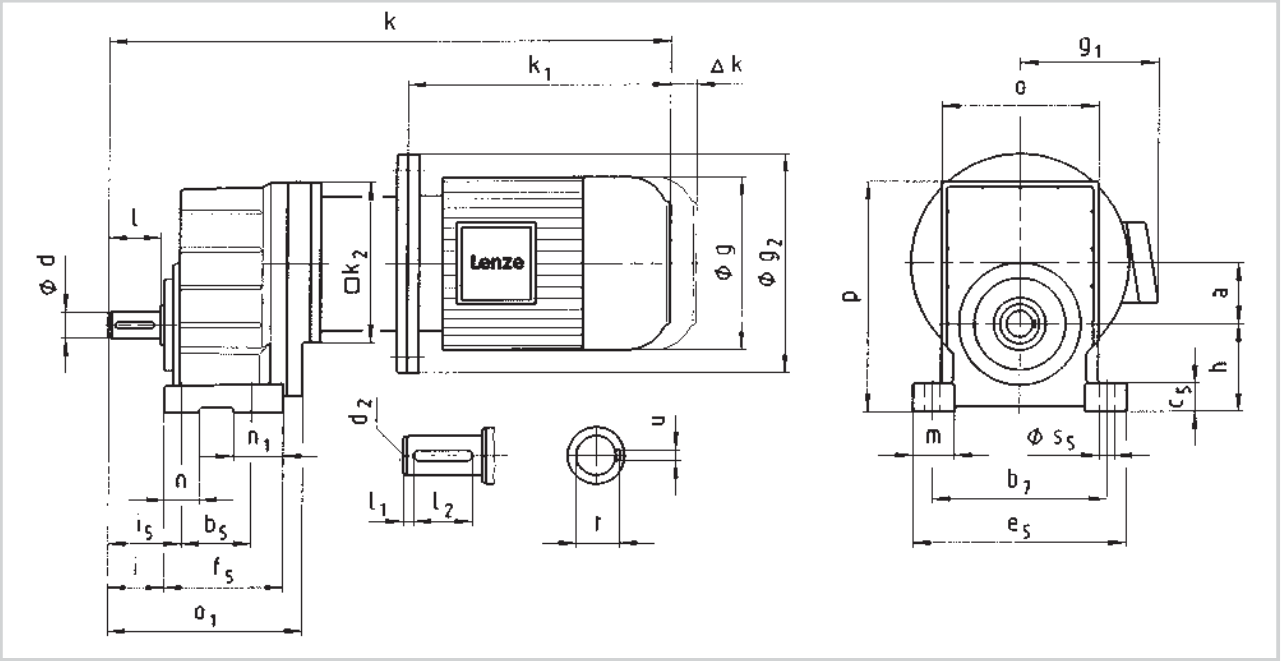
Geared motor **GST □□ - 1 M VBR**			Motor frame size										
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk**	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox					Total length										
	o*	o_1	p*	h*	a	k										
04	100	134	138	50	36	331	351	373	434							
05	115	165	168	63	45	352	372	394	455	489						
06	145	191	211	80	56	375	395	417	478	512	528	572				
07	180	223	264	100	70			446	507	541	557	601	649	726	770	
09	222	271	329	125	89				550	584	600	644	692	769	813	885

Gearbox size	Solid shaft							Foot										
	d k_6	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
04	16	32	6	20	M5	5	18	55	105	17	128	80	35	45	24	20	25	9
05	20	40	6	28	M6	6	22.5	70	125	22	154	99	43	56	32	26	29	11
06	25	50	4	40	M10	8	28	72	160	27	194	115	53	68	37	30	43	13.5
07	30	60	7.5	45	M10	8	33	80	200	35	245	137	64	84	47.5	40	57	18
09	40	80	8.5	63	M16	12	43	105	245	43	296	161	84	107	50.5	45	56	18

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h+a$
** For additional attachments see section 8



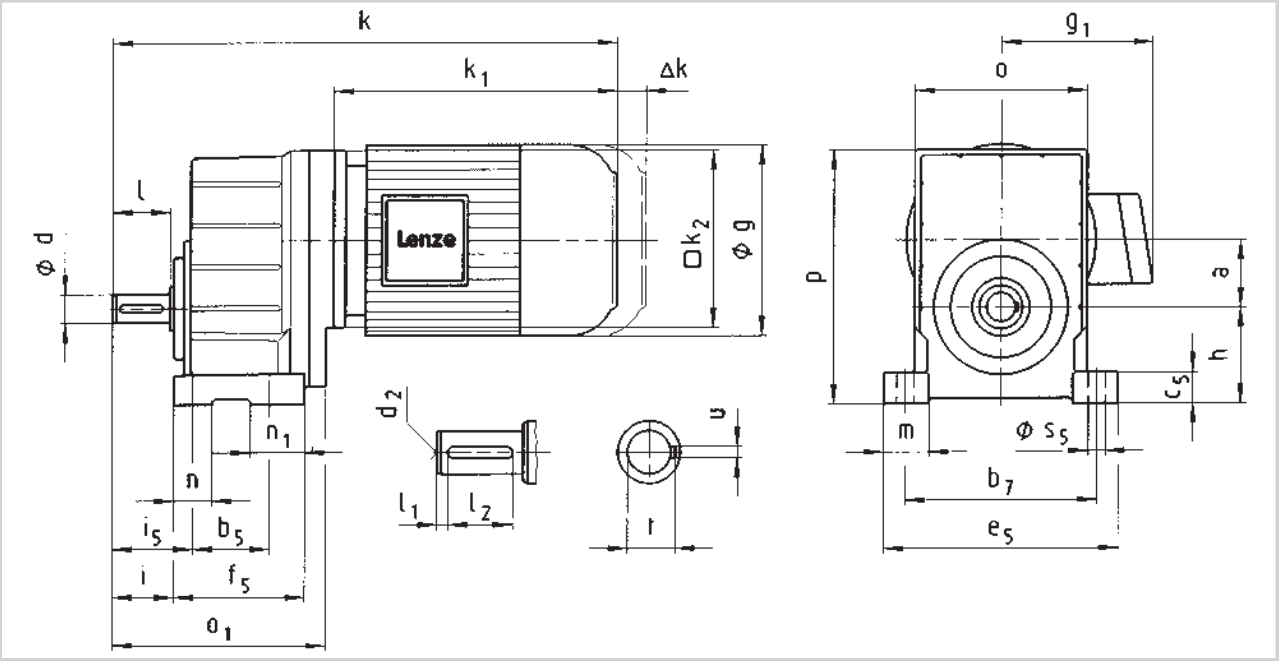
Geared motor **GST□□ - 1 M VBR**			Motor frame size **200N32**
Motor	g		388
	g_1	Without option	291
		Brake motor	309
	g_2		400
	k_1		300
	k_2		300
	Δk	Brake	175
		Separate fan	387
		Separate fan + brake	507

Gearbox size	Gearbox					Total length
	o*	o_1	p*	h	a	k
09	222	271	329	125	89	1198

Gearbox size	Solid shaft							Foot										
	d k_6	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
09	40	80	8.5	63	M16	12	43	105	245	43	296	161	84	107	50.5	45	56	17.5

Dimensions in [mm]

* Observe dimension k_2



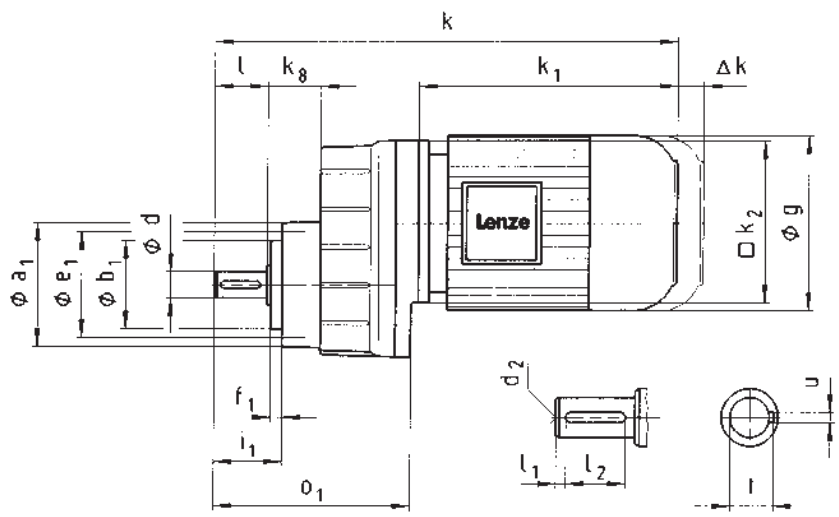
Geared motor **GST □□ - 1 M VBR**		Motor frame size								
		063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**	129		142	156	178	194		222	262
	g_1 Without option	105		131	131	141	158		165	197
	Brake motor	105		131	131	140	159		165	197
	k_1	193	204	176	225	242	280	310	323	409
	k_2	100		145	145	180	180		222	265
	Δk ** Brake	56		66	68	74	94		101	127
	Separate fan	71		80	94	101	97		95	104
	Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox					Total length								
	o*	**o_1**	**p***	**h***	**a**	**k**								
04	100	134	138	50	36	311	322	324	373	401				
05	115	165	168	63	45			345	394	422	460	490		
06	145	191	211	80	56			368	417	445	483	513	531	
07	180	223	264	100	70				446	474	512	542	560	655
09	222	271	329	125	89					517	555	585	603	698

Gearbox size	Solid shaft							Foot										
	d k_6	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**b_5**	**b_7**	**c_5**	**e_5**	**f_5**	**i**	**i_5**	**m**	**n**	**n_1**	**s_5**
04	16	32	6	20	M5	5	18	55	105	17	128	80	35	45	24	20	25	9
05	20	40	6	28	M6	6	22.5	70	125	22	154	99	43	56	32	26	29	11
06	25	50	4	40	M10	8	28	72	160	27	194	115	53	68	37	30	43	13.5
07	30	60	7.5	45	M10	8	33	80	200	35	245	137	64	84	47.5	40	57	18
09	40	80	8.5	63	M16	12	43	105	245	43	296	161	84	107	50.5	45	56	18

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h+a$
** For additional attachments see section 8



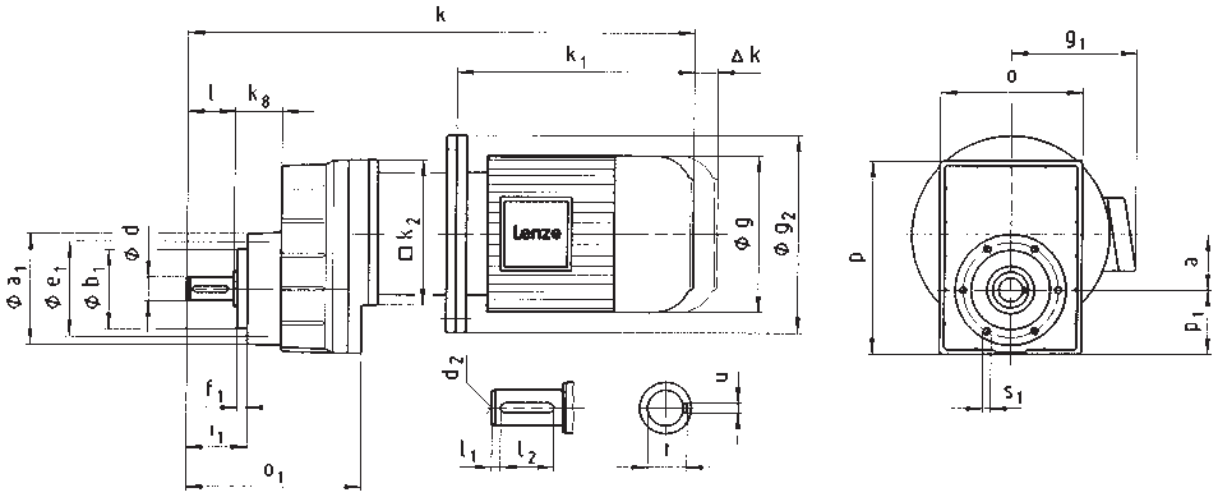
Geared motor **GST □□ - 1 M VCR**			Motor frame size										
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	110	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox						Total length									
	o*	o_1	p*	p_1	a	k_8	k									
04	100	134	129	41	36	35	331	351	373	434						
05	115	165	156	51	45	43	352	372	394	455	489					
06	145	191	194	63	56	48	375	395	417	478	512	528	572			
07	180	223	245	82	70	60			446	507	541	557	601	649	726	770
09	222	271	304	101	89	74				550	584	600	644	692	769	813	885

Gearbox size	Solid shaft							Pitch circle					
	d k_6	l	l_1	l_2	d_2	u	t	a_1	b_1 h7	e_1	f_1	i_1	s_1 6x60°
04	16	32	6	20	M5	5	18	72	48	61	8	43	M5x10
05	20	40	6	28	M6	6	22.5	88	58	74	9	52	M6x12
06	25	50	4	40	M10	8	28	109	70	90	11	64	M8x14
07	30	60	7.5	45	M10	8	33	140	100	120	13	77	M10x18
09	40	80	8.5	63	M16	12	43	174	120	145	15	100	M12x20

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



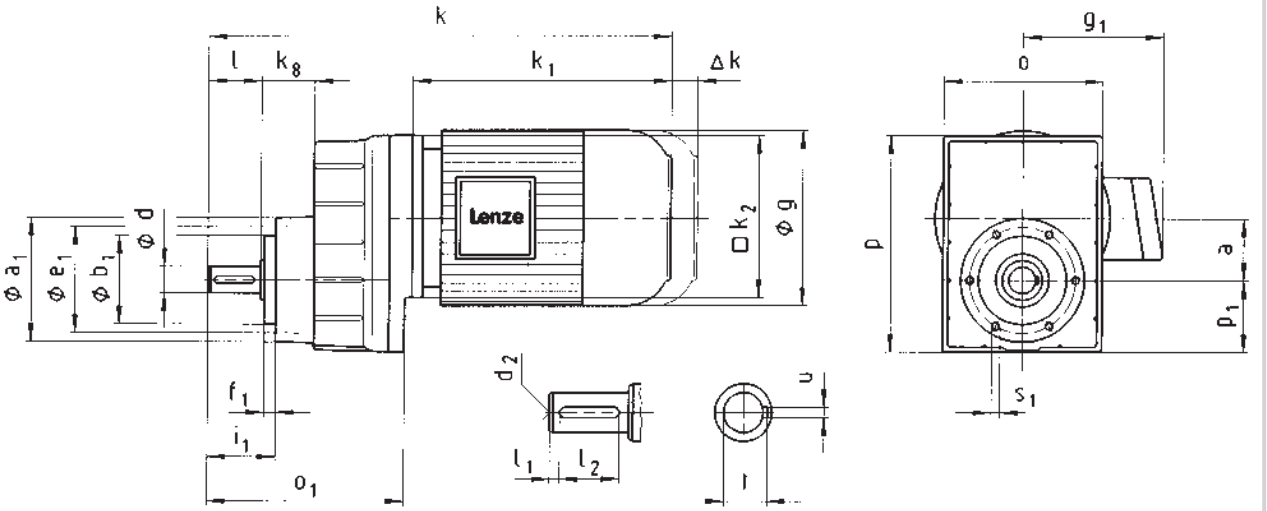
Geared motor **GST□□ - 1 M VCR**			Motor frame size **200N32**
Motor	g		388
	g_1	Without option	291
		Brake motor	309
	g_2		400
	k_1		661
	k_2		300
	Δk	Brake	175
		Separate fan	387
		Separate fan + brake	507

Gearbox size	Gearbox						Total length
	o^*	o_1	p^*	p_1	a	k_8	k
09	222	271	304	101	89	74	1198

Gearbox size	Solid shaft							Pitch circle					
	d k_6	l	l_1	l_2	d_2	u	t	a_1	b_1 h7	e_1	f_1	i_1	s_1 6x60°
09	40	80	8.5	63	M16	12	43	174	120	145	15	100	M12x20

Dimensions in [mm]

* Observe dimension k_2



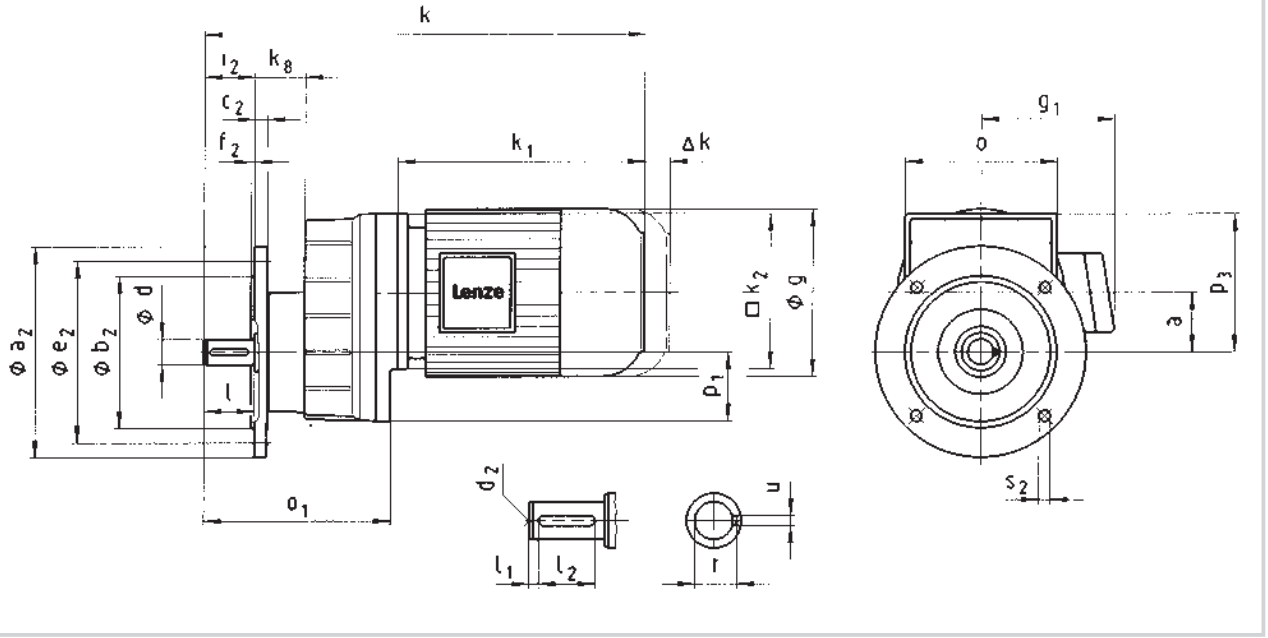
Geared motor **GST □□ - 1 M VCR**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox						Total length								
	o*	**o_1**	**p_1***	**h***	**a**	**k_8**	**k**								
04	100	134	129	41	36	35	311	322	324	373	401				
05	115	165	156	51	45	43			345	394	422	460	490		
06	145	191	194	63	56	48			368	417	445	483	513	531	
07	180	223	245	82	70	60				446	474	512	542	560	655
09	222	271	304	101	89	74					517	555	585	603	698

Gearbox size	Solid shaft							Pitch circle					
	d k_6	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** h7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°
04	16	32	6	20	M5	5	18	72	48	61	8	43	M5x10
05	20	40	6	28	M6	6	22.5	88	58	74	9	52	M6x12
06	25	50	4	40	M10	8	28	109	70	90	11	64	M8x14
07	30	60	7.5	45	M10	8	33	140	100	120	13	77	M10x18
09	40	80	8.5	63	M16	12	43	174	120	145	15	100	M12x20

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



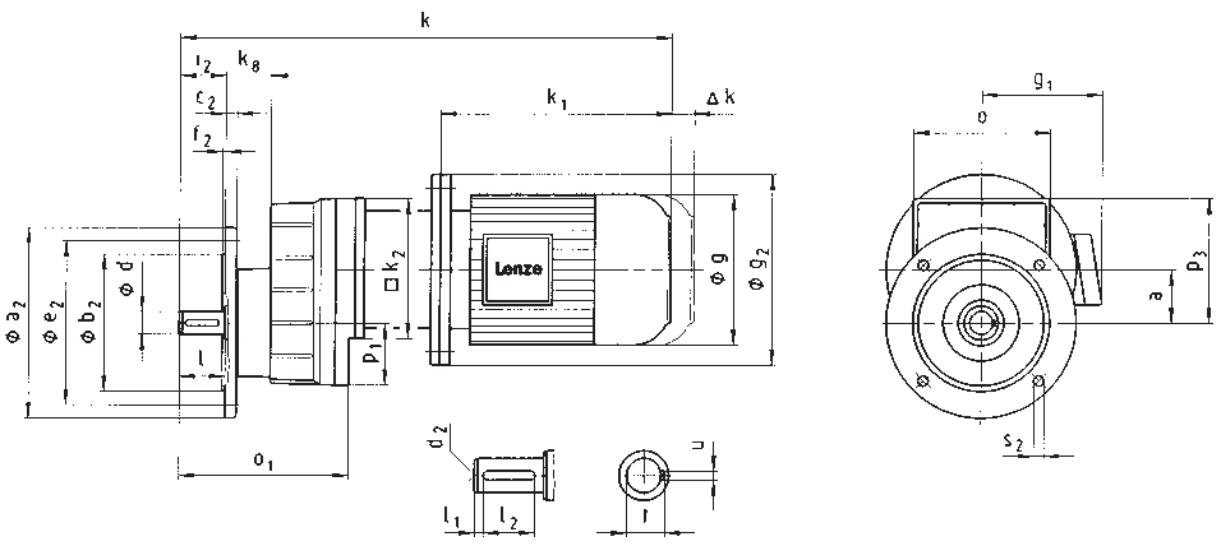
Geared motor			Motor frame size										
GST □□ - 1 M VCK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk**	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox						Total length							
	o*	o_1	p_1	p_3*	a	k_8	k							
04	100	134	41	88	36	35	331	351	373	434				
05	115	165	51	105	45	43	352	372	394	455	489			
06	145	191	63	131	56	48	375	395	417	478	512	528	572	
07	180	223	82	164	70	60			446	507	541	557	601	649	726	770	
09	222	271	101	204	89	74				550	584	600	644	692	769	813	885

Gearbox size	Solid shaft							Output flange						
	d k_6	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
04	16	32	6	20	M5	5	18	120 140 160	80 95 110	10	100 115 130	3 3 3.5	32	7 9 9
05	20	40	6	28	M6	6	22.5	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	40	7 9 9 11
06	25	50	4	40	M10	8	28	160 200	110 130	12	130 165	3.5	50	9 11
07	30	60	7.5	45	M10	8	33	200 250	130 180	14 15	165 215	3.5 4	60	11 13.5
09	40	80	8.5	63	M16	12	43	250 300	180 230	16 18	215 265	4	80	13.5

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



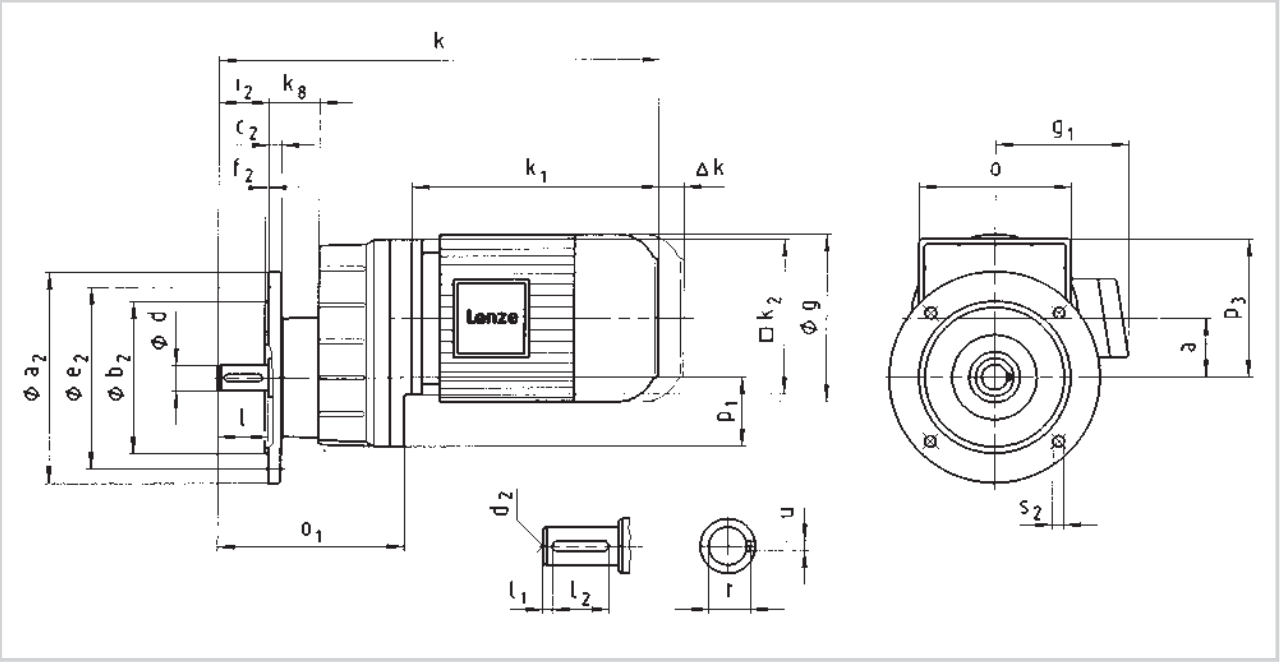
Geared motor **GST□□ - 1 M VCK**			Motor frame size **200N32**
Motor	**g**		388
	g_1	Without option	291
		Brake motor	309
	g_2		400
	k_1		661
	k_2		300
	Δk	Brake	175
		Separate fan	387
		Separate fan + brake	507

Gearbox size	Gearbox						Total length
	o*	**o_1**	**p_1**	**p_3***	**a**	**k_8**	**k**
09	222	271	101	204	89	74	1198

Gearbox size	Solid shaft							Output flange						
	d k_6	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2** 4x90°
09	40	80	8.5	63	M16	12	43	250 300	180 230	16 18	215 265	4	80	13.5

Dimensions in [mm]

* Observe dimension k_2



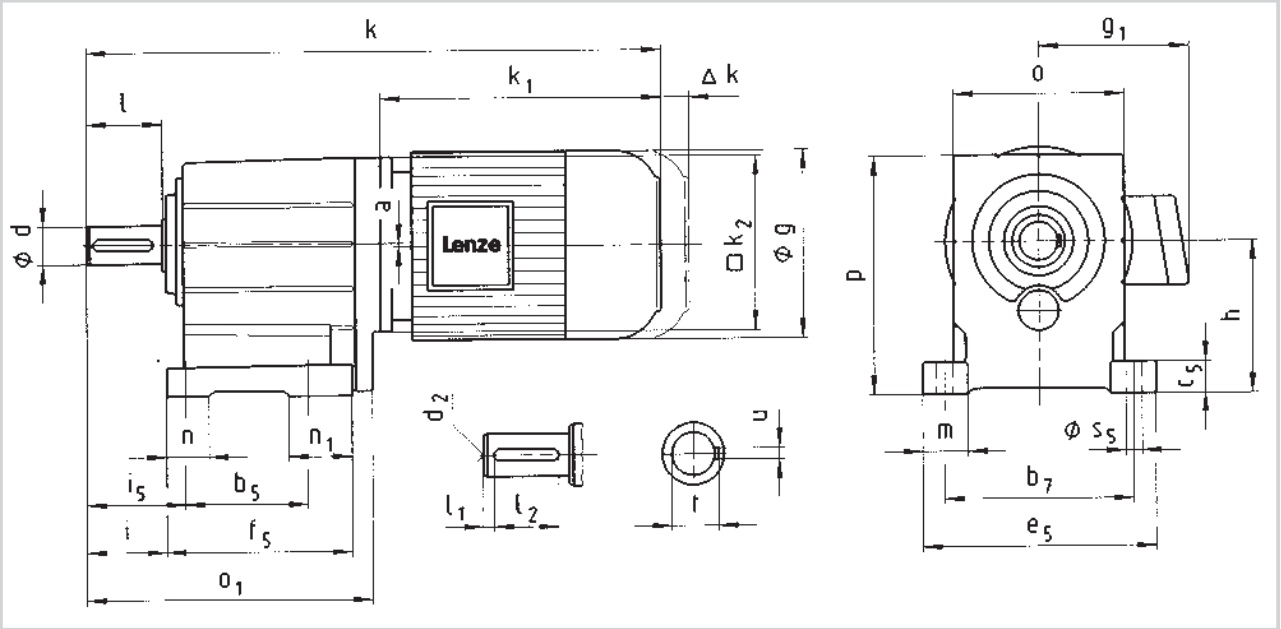
Geared motor **GST □□ - 1 M VCK**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox						Total length								
	o*	**o_1**	**p_1**	**p_3***	**a**	**k_8**	**k**								
04	100	134	41	88	36	35	311	322	324	373	401				
05	115	165	51	105	45	43			345	394	422	460	490		
06	145	191	63	131	56	48			368	417	445	483	513	531	
07	180	223	82	164	70	60				446	474	512	542	560	655
09	222	271	101	204	89	74					517	555	585	603	698

Gearbox size	Solid shaft							Output flange						
	d k_6	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2** 4x90°
04	16	32	6	20	M5	5	18	120 140 160	80 95 110	10	100 115 130	3 3 3.5	32	7 9 9
05	20	40	6	28	M6	6	22.5	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	40	7 9 9 11
06	25	50	4	40	M10	8	28	160 200	110 130	12	130 165	3.5	50	9 11
07	30	60	7.5	45	M10	8	33	200 250	130 180	14 15	165 215	3.5 4	60	11 13.5
09	40	80	8.5	63	M16	12	43	250 300	180 230	16 18	215 265	4	80	13.5

Dimensions in [mm]

* Observe dimension k_2
** For further attachments see section 8



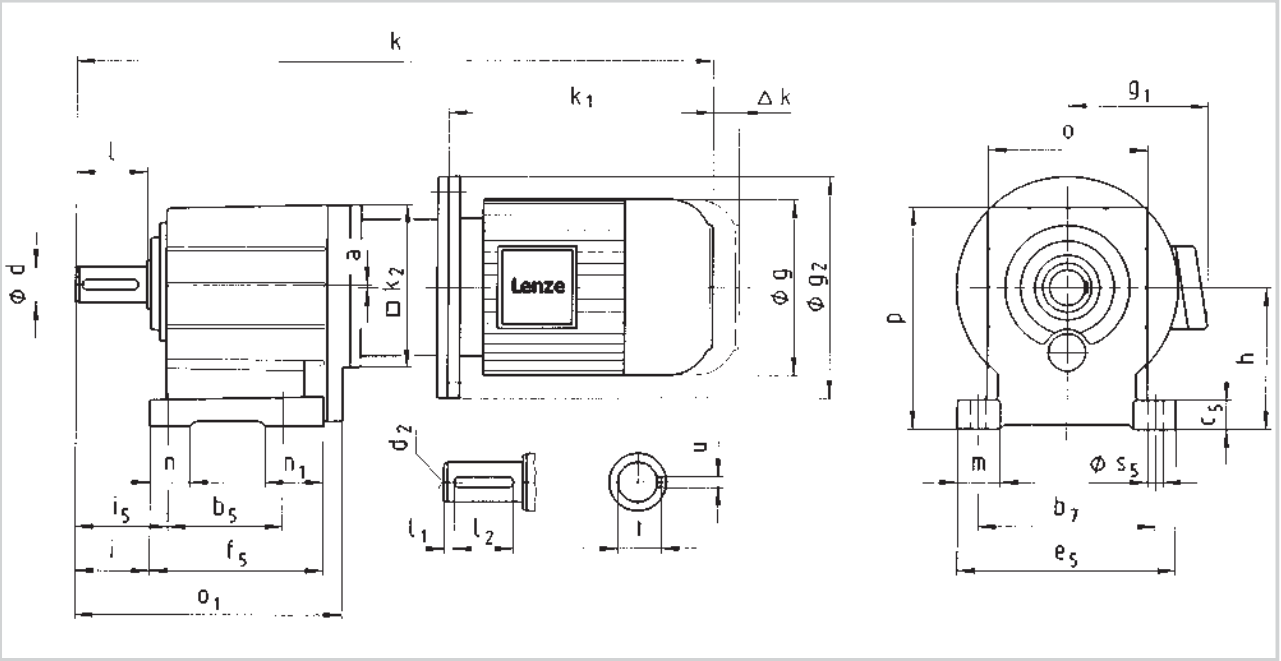
Geared motor **GST □□ - 2 M VBR**			Motor frame size											
			063C02 063C22	063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123		138	156	176	196	220		261	310		355
	g_1	Without option	100		109	141	146	157	167		195	207		226
		Brake motor	107		116	130	135	146	156		195	207		226
	k_1		156	188	207	225	276	309	319	363	404	475	519	592
	k_2	From gearbox size 04	100	120	120	145	180	180	222		265	300		300
	Δk **	Brake	71	40	52	73	70	79	90		109	96		83
		Separate fan	–	130	128	128	127	109	102		115	96		83
		Separate fan + brake	–	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox					Total length										
	$o^{1)}$	o_1	$p^{1)}$	$h^{1)}$	a	k										
03	90	127* 139	101	65	2	286* 298	317* 329	338* 350								
04	100	174	132	80	0		371	391	413	474						
05	115	214	159	100	1		401	421	443	504	538					
06	145	243	198	125	2		427	447	469	530	564	580	624			
07	180	302	251	160	3				525	586	620	636	680	728	805	849
09	222	370	311	200	4					649	683	699	743	791	868	912	984
11	270	433	385	250	4						740	756	800	848	925	969	1041
14	328	533	479	315	6							849	890	938	1015	1059	1131

Gearbox size	Solid shaft							Foot										
	d	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
03	14	28	4	20	M5	5	16	60	91	11	105	84	34	40	20	–	–	6.6
	20	40	5	28	M6	6	22.5						46	52				
04	20	40	5	28	M6	6	22.5	76	105	18	129	112	43	53	24.5	20	36	9
05	25	50	4	40	M10	8	28	90	125	23	155	139	53	66	32.5	26	49	11
06	30	60	6	45	M10	8	33	106	160	28	196	157	64	79	38	35	52	13.5
07	40	80	7	63	M16	12	43	130	200	34	247	196	84	104	48.5	45	66	18
09	50	100	8	80	M16	14	53.5	165	245	44	298	239	105	127.5	54	48	74	18
11	60	120	8	100	M20	18	64	200	300	54	368	280	125	155	69	65	80	22
14	80	160	15	125	M20	22	85	250	380	65	460	340	165	200	85	85	91	26

Dimensions in [mm] d ≤ 50 mm: k_6; d > 50 mm: m_6 * With solid shaft d=14 ** For further attachments see section 8

[1)] Observe dimension k_2. With gearbox size 03 and motor frame size 071, dimension g/2 > h-a
With gearbox size 04 and motor frame size 090, dimension is k_2/2 > h-a



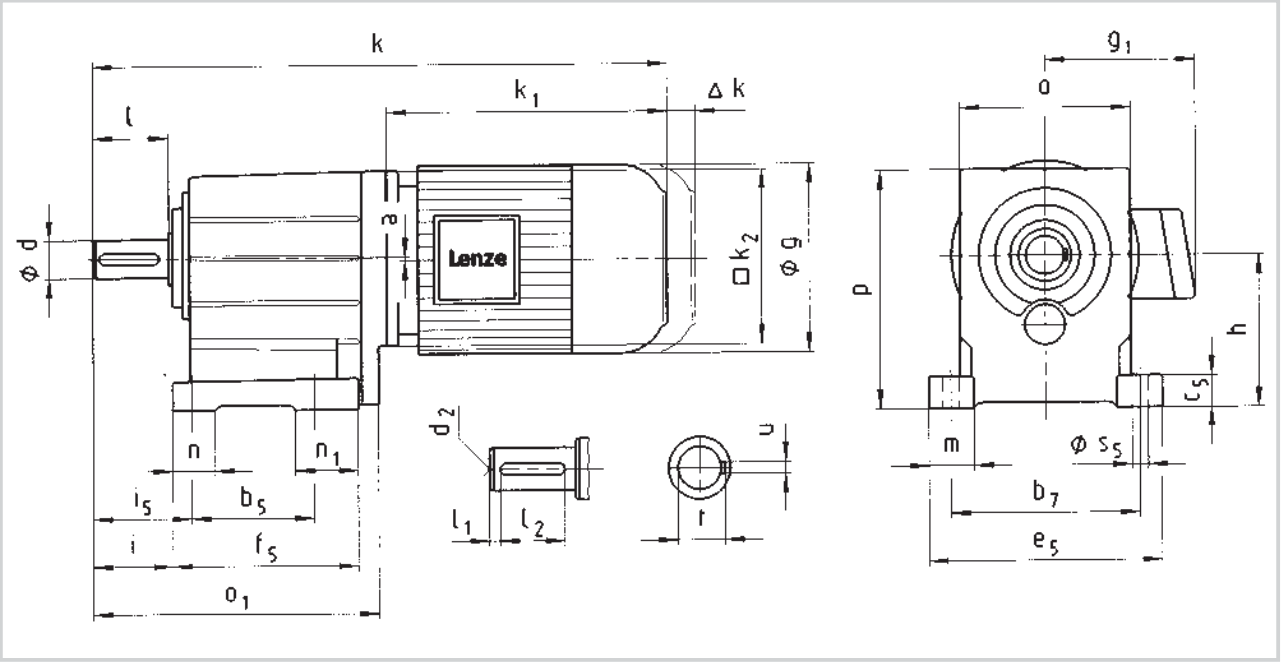
Geared motor **GST□□ - 2 M VBR**		Motor frame size **200N32**	**225N12** **225N22**
Motor	**g**	388	433
	g_1 Without option	291	319
	Brake motor	309	327
	g_2	400	450
	k_1	661	693
	k_2	300	300
	Δk Brake	175	200
	Separate fan	387	388
	Separate fan + brake	507	518

Gearbox size	Gearbox					Total length	
	o*	**o_1**	**p***	**h**	**a**	**k**	
09	222	370	311	200	4	1297	
11	270	433	385	250	4	1354	1416
14	328	533	479	315	6	1444	1506

Gearbox size	Solid shaft							Foot										
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**b_5**	**b_7**	**c_5**	**e_5**	**f_5**	**i**	**i_5**	**m**	**n**	**n_1**	**s_5**
09	50	100	8	80	M16	14	53.5	165	245	44	298	239	105	127.5	54	48	74	18
11	60	120	8	100	M20	18	64	200	300	54	368	280	125	155	69	65	80	22
14	80	160	15	125	M20	22	85	250	380	65	460	340	165	200	85	85	91	26

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6
* Observe dimension k_2



Geared motor **GST □□ - 2 M VBR**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

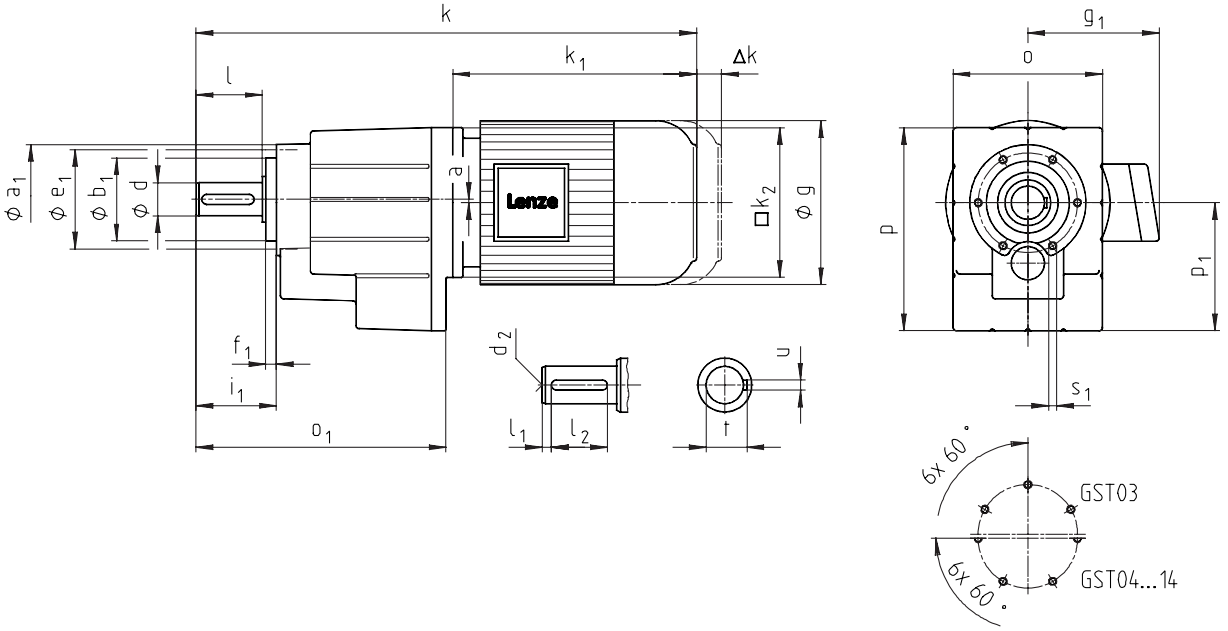
Gearbox size	Gearbox					Total length								
	o*	o_1	p*	h*	a	k								
04	100	174	132	80	0	351	362	364	413	441				
05	115	214	159	100	1			394	443	471	509	539		
06	145	243	198	125	2			420	469	497	535	565	583	
07	180	302	251	160	3				525	553	591	621	639	734
09	222	370	311	200	4					616	654	684	702	797
11	270	433	385	250	4						711	741	759	854
14	328	533	479	315	6								849	944

Gearbox size	Solid shaft							Foot										
	d	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
04	20	40	5	28	M6	6	22.5	76	105	18	129	112	43	53	24.5	20	36	9
05	25	50	4	40	M10	8	28	90	125	23	155	139	53	66	32.5	26	49	11
06	30	60	6	45	M10	8	33	106	160	28	196	157	64	79	38	35	52	13.5
07	40	80	7	63	M16	12	43	130	200	34	247	196	84	104	48.5	45	66	18
09	50	100	8	80	M16	14	53.5	165	245	44	298	239	105	127.5	54	48	74	18
11	60	120	8	100	M20	18	64	200	300	54	368	280	125	155	69	65	80	22
14	80	160	15	125	M20	22	85	250	380	65	460	340	165	200	85	85	91	26

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6
[1] Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension is $k_2/2$ > h-a
** For further attachments see section 8

GST □□ - 2 M VCR


k
k1
Δk
l
ϕ a1
ϕ e1
ϕ b1
ϕ d
a
Lenze
□k2
ϕ g
f1
i1
o1
d2
l1
l2
u
t
g1
o
p
p1
s1
6x 60°
GST03
6x 60°
GST04...14

Geared motor **GST □□ - 2 M VCR**			Motor frame size										
			063C02 063C22	063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123		138	156	176	196	220		261	310		355
	g_1	Without option	100		109	141	146	157	167		195	207		226
		Brake motor	107		116	130	135	146	156		195	207		226
	k_1		156	188	207	225	276	309	319	363	404	475	519	592
	k_2	From gearbox size 04	100	120	120	145	180	180	222		265	300		300
	Δk **	Brake	71	40	52	73	70	79	90		109	96		83
		Separate fan	-	130	128	128	127	109	102		115	96		83
		Separate fan + brake	-	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox					Total length k										
	$o^{1)}$	o_1	$p^{1)}$	p_1	a											
03	90	127* 139	100	64	2	286* 298	317* 329	338* 350								
04	100	174	129	77	0		371	391	413	474						
05	115	214	156	98	1		401	421	443	504	538					
06	145	243	194	121	2		427	447	469	530	564	580	624			
07	180	302	245	155	3				525	586	620	636	680	728	805	849
09	222	370	304	194	4					649	683	699	743	791	868	912	984
11	270	433	378	243	4						740	756	800	848	925	969	1041
14	328	533	470	306	6							849	890	938	1015	1059	1131

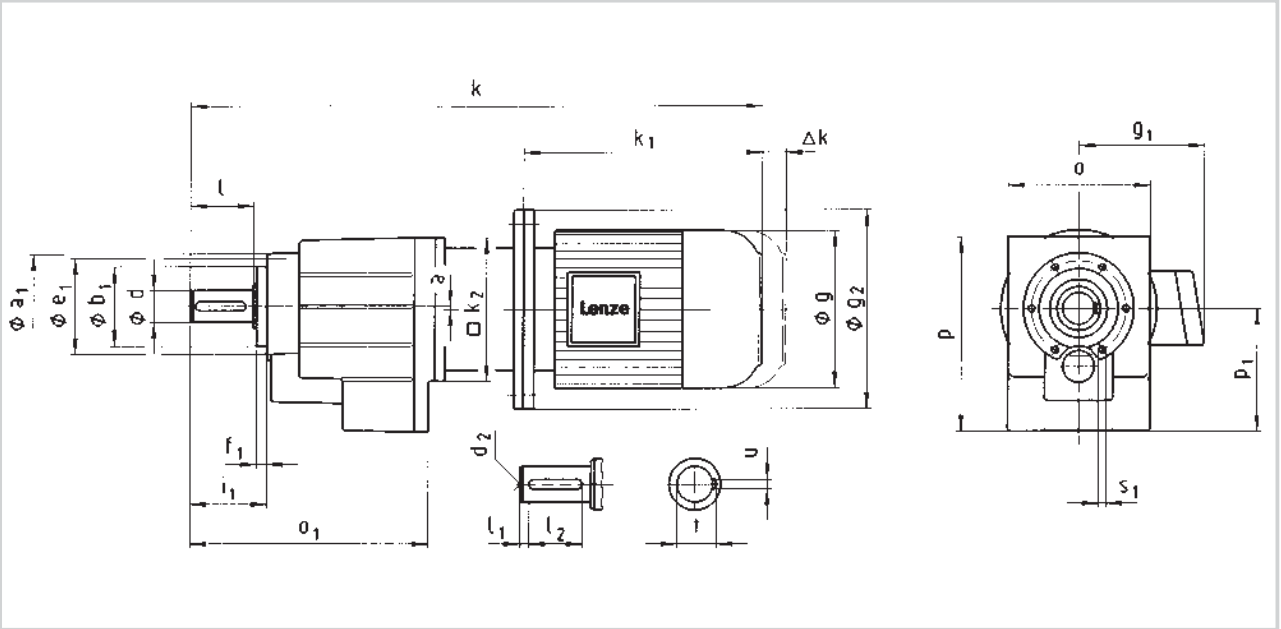
Gearbox size	Solid shaft							Pitch circle					
	d	l	l_1	l_2	d_2	u	t	a_1	b_1 h7	e_1	f_1	i_1	s_1 6x60°
03	14	28	4	20	M5	5	16	71	48	61	8	39	M5x10
	20	40	5	28	M6	6	22.5					51	
04	20	40	5	28	M6	6	22.5	72	48	61	8	51	M5x10
05	25	50	4	40	M10	8	28	88	58	74	9	62	M6x12
06	30	60	6	45	M10	8	33	109	70	90	10	74	M8x14
07	40	80	7	63	M16	12	43	140	100	120	13	97	M10x18
09	50	100	8	80	M16	14	53.5	174	120	145	15	120	M12x20
11	60	120	8	100	M20	18	64	215	150	185	18	143	M16x26
14	80	160	15	125	M20	22	85	265	195	230	22	187	M20x34

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* With solid shaft d=14
** For additional attachments see section 8

[1)] Observe dimension k_2.



Geared motor **GST□□ - 2 M VCR**		Motor frame size **200N32**	**225N12** **225N22**
Motor	**g**	388	433
	g_1 Without option	291	319
	Brake motor	309	327
	g_2	400	450
	k_1	661	693
	k_2	300	300
	Δk Brake	175	200
	Separate fan	387	388
	Separate fan + brake	507	518

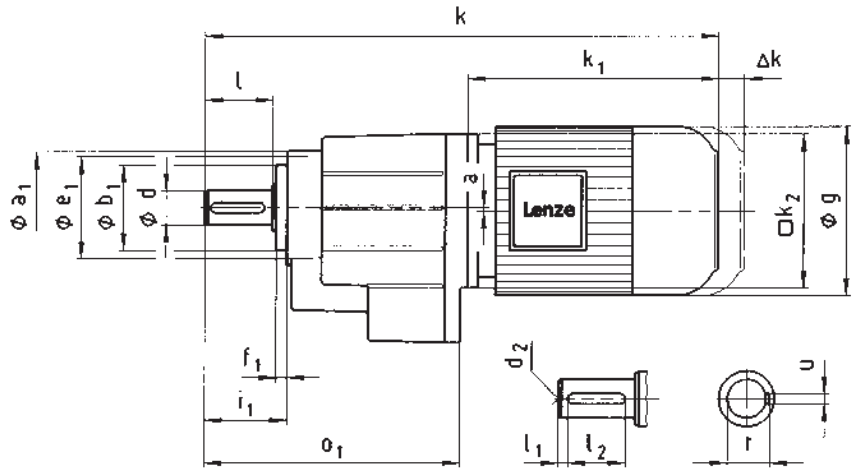
Gearbox size	Gearbox					Total length	
	o*	**o_1**	**p***	**p_1**	**a**	**k**	
09	222	370	304	194	4	1297	
11	270	433	378	243	4	1354	1416
14	328	533	470	306	6	1444	1506

Gearbox size	Solid shaft							Pitch circle					
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** h7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°
09	50	100	8	80	M16	14	53.5	174	120	145	15	120	M12x20
11	60	120	8	100	M20	18	64	215	150	185	18	143	M16x26
14	80	160	15	125	M20	22	85	265	195	230	22	187	M20x34

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2



Geared motor **GST □□ - 2 M VCR**		Motor frame size								
		063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g	129		142	156	178	194		222	262
	g_1 Without option	105		131	131	141	158		165	197
	Brake motor	105		131	131	140	159		165	197
	k_1	193	204	176	225	242	280	310	323	409
	k_2	100		145	145	180	180		222	265
	Δk ** Brake	56		66	68	74	94		101	127
	Separate fan	71		80	94	101	97		95	104
	Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox					Total length								
	o*	o_1	p*	p_1	a	k								
04	100	174	129	77	0	351	362	364	413	441				
05	115	214	156	98	1			394	443	471	509	539		
06	145	243	194	121	2			420	469	497	535	565	583	
07	180	302	245	155	3				525	553	591	621	639	734
09	222	370	304	194	4					616	654	684	702	797
11	270	433	378	243	4						711	741	759	854
14	328	533	470	306	6								849	944

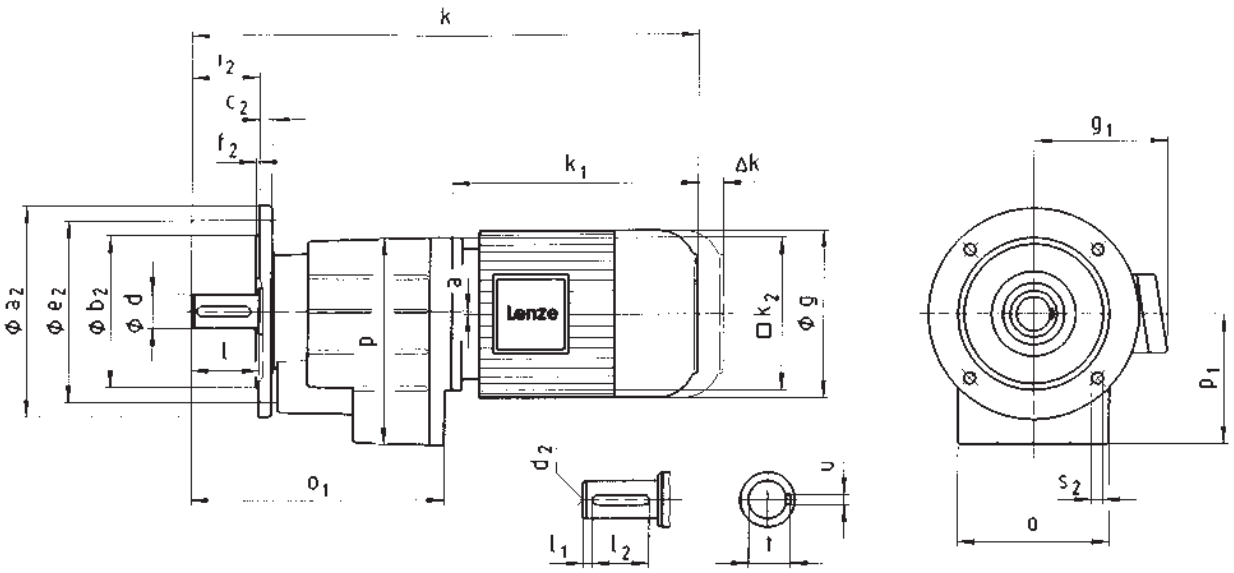
Gearbox size	Solid shaft							Pitch circle					
	d	l	l_1	l_2	d_2	u	t	a_1	b_1 h7	e_1	f_1	i_1	s_1 6x60°
04	20	40	5	28	M6	6	22.5	72	48	61	8	51	M5x10
05	25	50	4	40	M10	8	28	88	58	74	9	62	M6x12
06	30	60	6	45	M10	8	33	109	70	90	10	74	M8x14
07	40	80	7	63	M16	12	43	140	100	120	13	97	M10x18
09	50	100	8	80	M16	14	53.5	174	120	145	15	120	M12x20
11	60	120	8	100	M20	18	64	215	150	185	18	143	M16x26
14	80	160	15	125	M20	22	85	265	195	230	22	187	M20x34

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2
** For additional attachments see section 8

GST □□ - 2 M VCK


k
l2
c2
f2
k1
Δk
ϕ a2
ϕ e2
ϕ b2
ϕ d
l
p
a
Lenze
□k2
ϕ g
o1
d2
l1
l2
t
u
g1
p1
s2
o

Geared motor **GST □□ - 2 M VCK**			Motor frame size										
			063C02 063C22	**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**	**180-22 180-32**
Motor	**g**		123		138	156	176	196	220		261	310		355
	g_1	Without option	100		109	141	146	157	167		195	207		226
		Brake motor	107		116	130	135	146	156		195	207		226
	k_1		156	188	207	225	276	309	319	363	404	475	519	592
	k_2	From gearbox size 04	100	120	120	145	180	180	222		265	300		300
	Δk **	Brake	71	40	52	73	70	79	90		109	96		83
		Separate fan	-	130	128	128	127	109	102		115	96		83
		Separate fan + brake	-	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox					Total length										
	$o^{1)}$	**o_1**	**$p^{1)}$**	**p_1**	**a**	**k**										
03	90	127* 139	100	64	2	286* 298	317* 329	338* 350								
04	100	174	129	77	0		371	391	413	474						
05	115	214	156	98	1		401	421	443	504	538					
06	145	243	194	121	2		427	447	469	530	564	580	624			
07	180	302	245	155	3				525	586	620	636	680	728	805	849
09	222	370	304	194	4					649	683	699	743	791	868	912	984
11	270	433	378	243	4						740	756	800	848	925	969	1041
14	328	533	470	306	6							846	890	938	1015	1059	1131

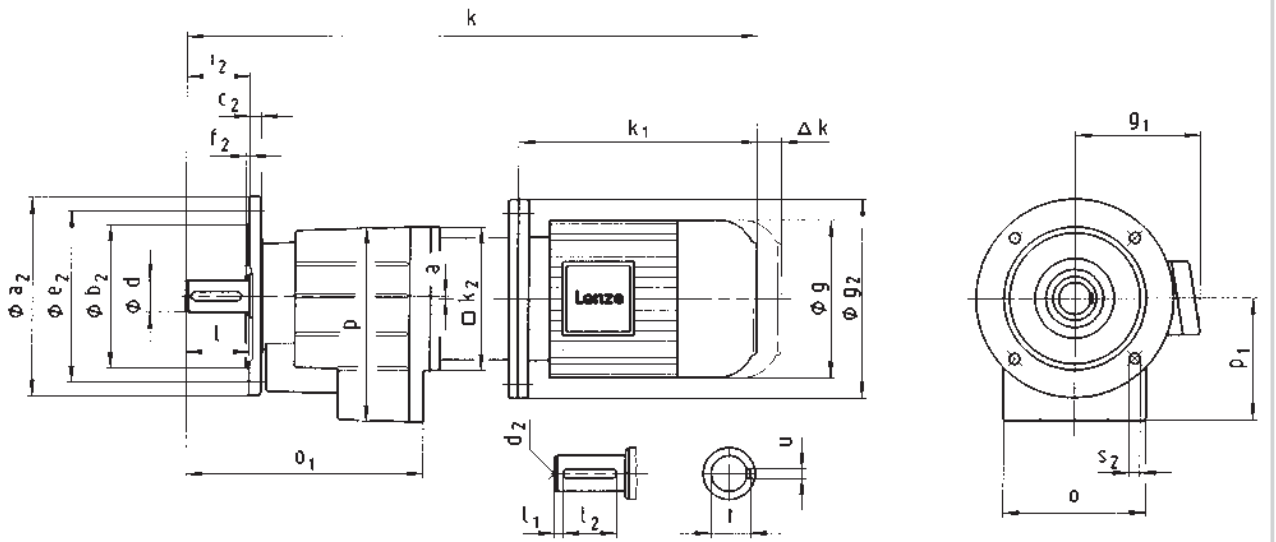
Gearbox size	Solid shaft							Output flange						
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2** 4x90°
03	14	28	4	20	M5	5	16	120 140 160	80 95 110	10	100 115 130	3 3 3.5	28 40	7 9 9
	20	40	5	28	M6	6	22.5							
04	20	40	5	28	M6	6	22.5	120 140 160	80 95 110	10	100 115 130	3 3 3.5	40	7 9 9
05	25	50	4	40	M10	8	28	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	50	7 9 9 11
06	30	60	6	45	M10	8	33	160 200	110 130	12	130 165	3.5	60	9 11
07	40	80	7	63	M16	12	43	200 250	130 180	14 15	165 215	3.5 4	80	11 14
09	50	100	8	80	M16	14	53.5	250 300	180 230	16 18	215 265	4	100	14
11	60	120	8	100	M20	18	64	300 350	230 250	18 20	265 300	4 5	120	14 18
14	80	160	15	125	M20	22	85	350 400	250 300	22 24	300 350	5	160	18

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* With solid shaft d=14
** For additional attachments see section 8

1) Observe dimension k_2



Geared motor **GST□□ - 2 M VCK**			Motor frame size **200N32**	**225N12 225N22**
Motor	g		388	433
	g_1	Without option	291	319
		Brake motor	309	327
	g_2		400	450
	k_1		661	693
	k_2		300	300
	Δ k	Brake	175	200
		Separate fan	387	388
		Separate fan + brake	507	518

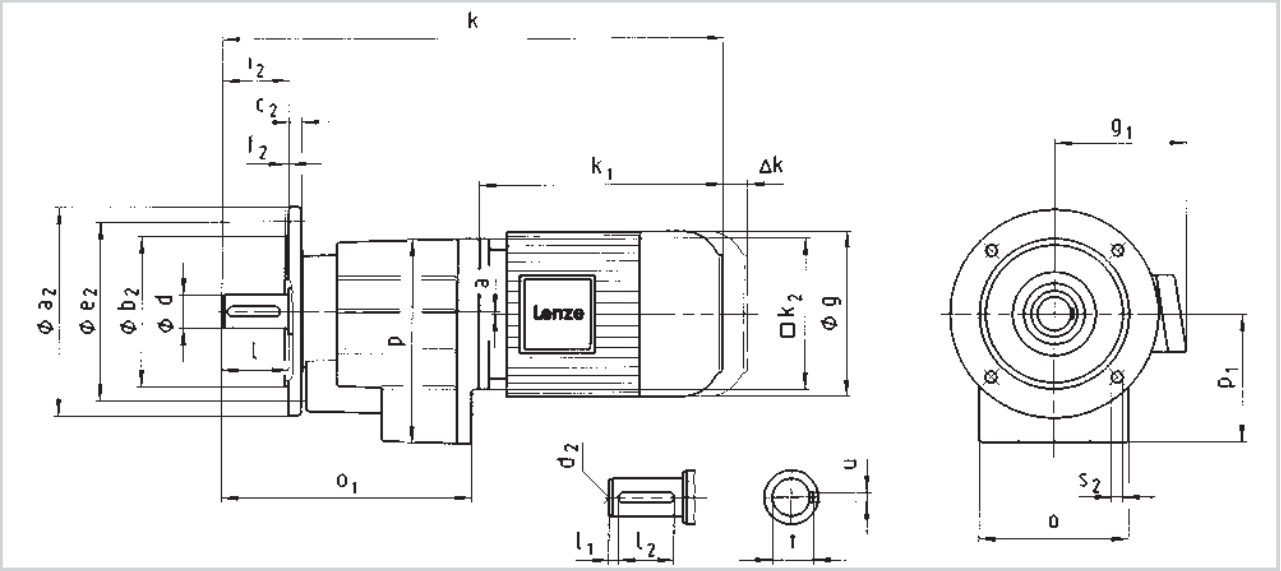
Gearbox size	Gearbox					Total length	
	o*	o_1	p*	p_1	a	k	
09	222	370	304	194	4	1297	
11	270	433	378	243	4	1354	1416
14	328	533	470	306	6	1444	1506

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
09	50	100	8	80	M16	14	53.5	250 300	180 230	16 18	215 265	4	100	14
11	60	120	8	100	M20	18	64	300 350	230 250	18 20	265 300	4 5	120	14 18
14	80	160	15	125	M20	22	85	350 400	250 300	22 24	300 350	5	160	18

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2



Geared motor **GST □□ - 2 M VCK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

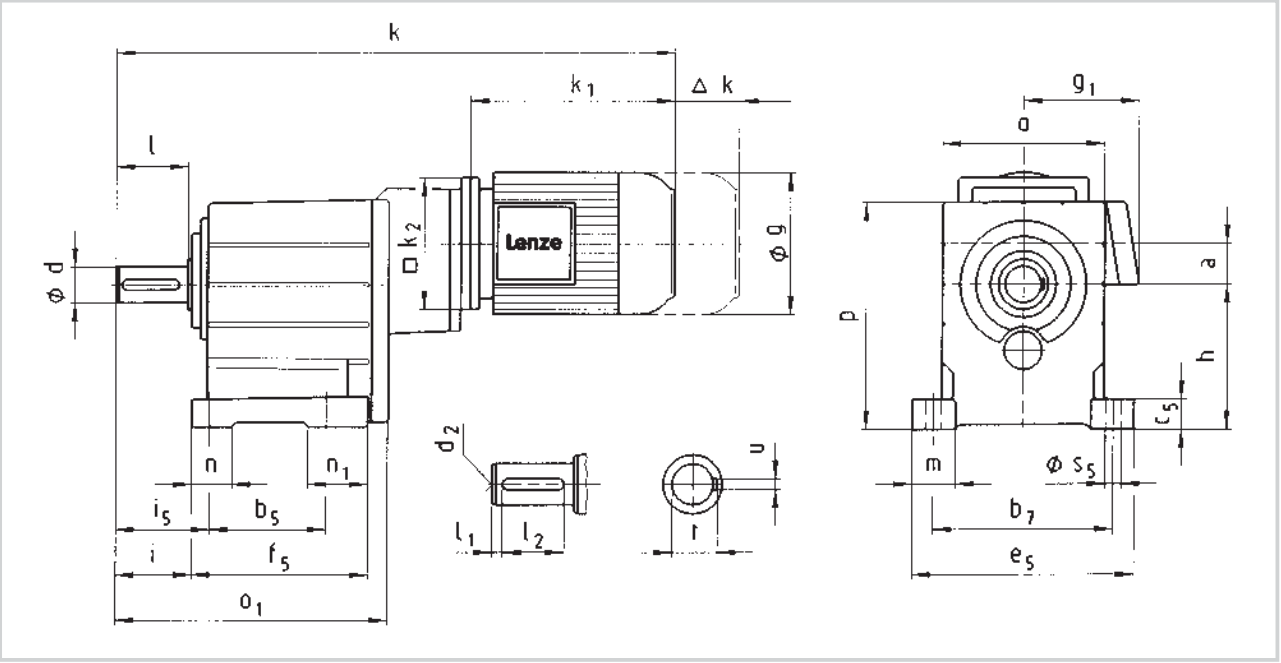
Gearbox size	Gearbox					Total length								
	o*	o_1	p*	p_1	a	k								
04	100	174	129	77	0	351	362	364	413	441				
05	115	214	156	98	1			394	443	471	509	539		
06	145	243	194	121	2			420	469	497	535	565	583	
07	180	302	245	155	3				525	553	591	621	639	734
09	222	370	304	194	4					616	654	684	702	797
11	270	433	378	243	4						711	741	759	854
14	328	533	470	306	6								849	944

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
04	20	40	5	28	M6	6	22.5	120 140 160	80 95 110	10	100 115 130	3 3 3.5	40	7 9 9
05	25	50	4	40	M10	8	28	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	50	7 9 9 11
06	30	60	6	45	M10	8	33	160 200	110 130	12	130 165	3.5	60	9 11
07	40	80	7	63	M16	12	43	200 250	130 180	14 15	165 215	3.5 4	80	11 14
09	50	100	8	80	M16	14	53.5	250 300	180 230	16 18	215 265	4	100	14
11	60	120	8	100	M20	18	64	300 350	230 250	18 20	265 300	4 5	120	14 18
14	80	160	15	125	M20	22	85	350 400	250 300	22 24	300 350	5	160	18

Dimensions in [mm]

$d \le 50$ mm: k_6
$d > 50$ mm: m_6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GST □□ - 3 M VBR**			Motor frame size										
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk**	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

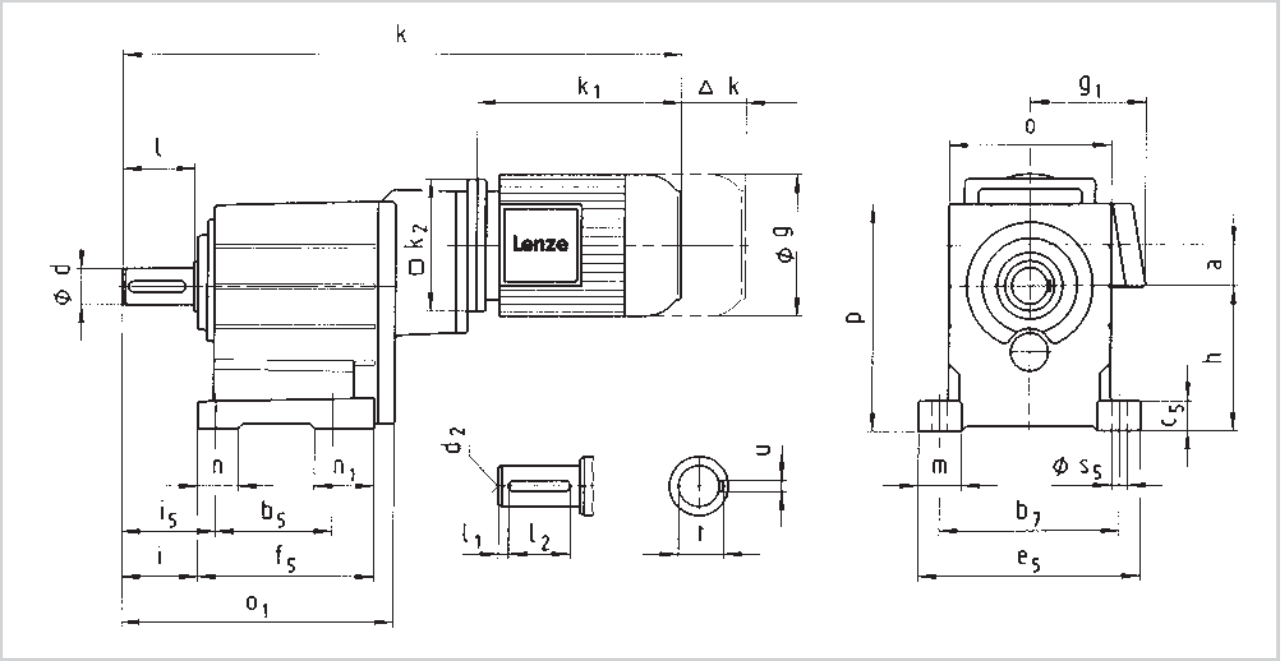
Gearbox size	Gearbox					Total length									
	o*	o_1	p*	h	a	k									
05	115	208	159	100	35	478	497	520	581						
06	145	240	198	125	34	521	540	563	624						
07	180	302	251	160	42	588	607	630	691	724					
09	222	370	311	200	52	669	688	711	772	805	821	865			
11	270	433	385	250	66			787	848	881	897	941	990	1066	1110
14	328	533	479	315	83				972	1005	1021	1065	1114	1190	1234	1307

Gearbox size	Solid shaft							Foot										
	d	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
05	25	50	4	40	M10	8	28	90	125	23	155	139	53	66	32.5	26	49	11
06	30	60	6	45	M10	8	33	106	160	28	196	157	64	79	38	35	52	13.5
07	40	80	7	63	M16	12	43	130	200	34	247	196	84	104	48.5	45	66	18
09	50	100	8	80	M16	14	53.5	165	245	44	298	239	105	127.5	54	48	74	18
11	60	120	8	100	M20	18	64	200	300	54	368	280	125	155	69	65	80	22
14	80	160	15	125	M20	22	85	250	380	65	460	340	165	200	85	85	91	26

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GST □□ - 3 M VBR**		Motor frame size								
		063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**	129		142	156	178	194		222	262
	g_1 Without option	105		131	131	141	158		165	197
	Brake motor	105		131	131	140	159		165	197
	k_1	193	204	176	225	242	280	310	323	409
	k_2	100		145	145	180	180		222	265
	Δk ** Brake	56		66	68	74	94		101	127
	Separate fan	71		80	94	101	97		95	104
	Separate fan + brake	118		134	150	164	169		183	218

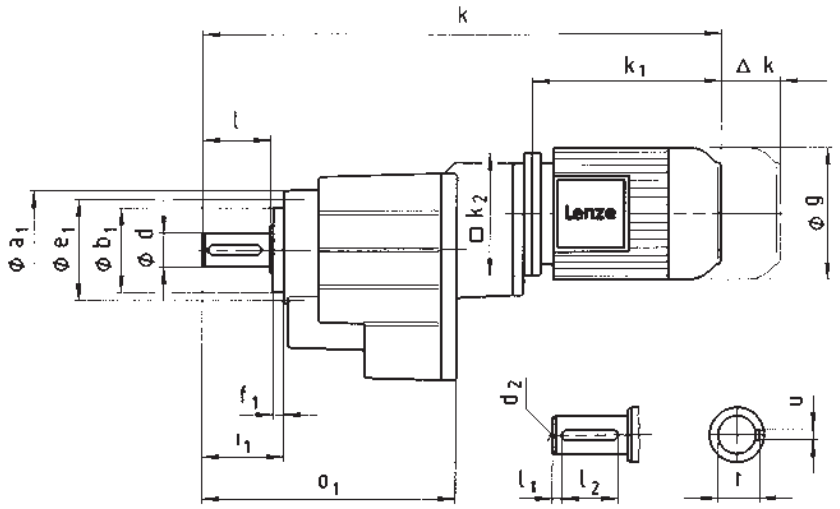
Gearbox size	Gearbox					Total length								
	o*	**o_1**	**p***	**h**	**a**	**k**								
05	115	208	159	100	35	458	469	471	520	547				
06	145	240	198	125	34	501	512	514	563	590				
07	180	302	251	160	42			581	630	657	695	725		
09	222	370	311	200	52			662	711	738	776	806	825	
11	270	433	385	250	66				787	814	852	882	901	995
14	328	533	479	315	83					938	976	1006	1025	1119

Gearbox size	Solid shaft							Foot										
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**b_5**	**b_7**	**c_5**	**e_5**	**f_5**	**i**	**i_5**	**m**	**n**	**n_1**	**s_5**
05	25	50	4	40	M10	8	28	90	125	23	155	139	53	66	32.5	26	49	11
06	30	60	6	45	M10	8	33	106	160	28	196	157	64	79	38	35	52	13.5
07	40	80	7	63	M16	12	43	130	200	34	247	196	84	104	48.5	45	66	18
09	50	100	8	80	M16	14	53.5	165	245	44	298	239	105	127.5	54	48	74	18
11	60	120	8	100	M20	18	64	200	300	54	368	280	125	155	69	65	80	22
14	80	160	15	125	M20	22	85	250	380	65	460	340	165	200	85	85	91	26

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GST □□ - 3 M VCR**			Motor frame size										
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk**	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

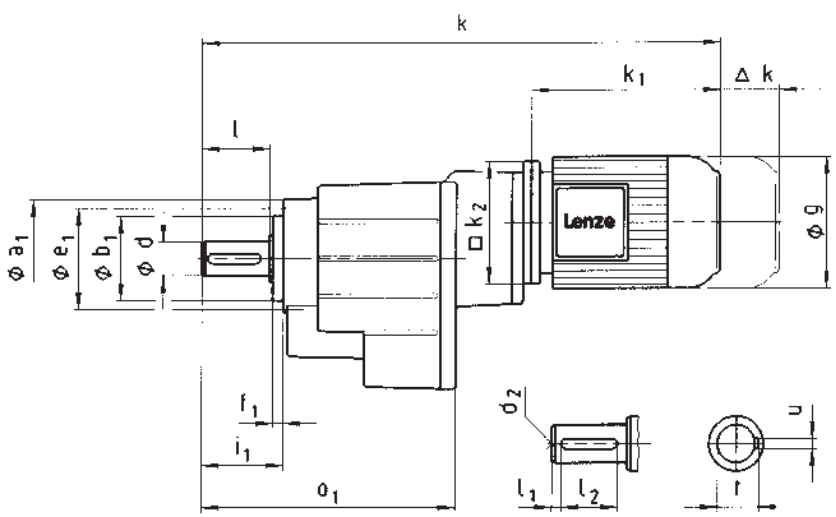
Gearbox size	Gearbox					Total length									
	o*	o_1	p*	p_1	a	k									
05	115	208	156	98	35	478	497	520	581						
06	145	240	194	121	34	521	540	563	624						
07	180	302	245	155	42	588	607	630	691	724					
09	222	370	304	194	52	669	688	711	772	805	821	865			
11	270	433	378	243	66			787	848	881	897	941	990	1066	1110
14	328	533	470	306	83				972	1005	1021	1065	1114	1190	1234	1307

Gearbox size	Solid shaft							Pitch circle					
	d	l	l_1	l_2	d_2	u	t	a_1	b_1 h7	e_1	f_1	i_1	s_1 6x60°
05	25	50	4	40	M10	8	28	88	58	74	9	62	M6x12
06	30	60	6	45	M10	8	33	109	70	90	10	74	M8x14
07	40	80	7	63	M16	12	43	140	100	120	13	97	M10x18
09	50	100	8	80	M16	14	53.5	174	120	145	15	120	M12x20
11	60	120	8	100	M20	18	64	215	150	185	18	143	M16x26
14	80	160	15	125	M20	22	85	265	195	230	22	187	M20x34

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GST □□ - 3 M VCR**		Motor frame size								
		063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**	129		142	156	178	194		222	262
	g_1 Without option	105		131	131	141	158		165	197
	Brake motor	105		131	131	140	159		165	197
	k_1	193	204	176	225	242	280	310	323	409
	k_2	100		145	145	180	180		222	265
	Δk ** Brake	56		66	68	74	94		101	127
	Separate fan	71		80	94	101	97		95	104
	Separate fan + brake	118		134	150	164	169		183	218

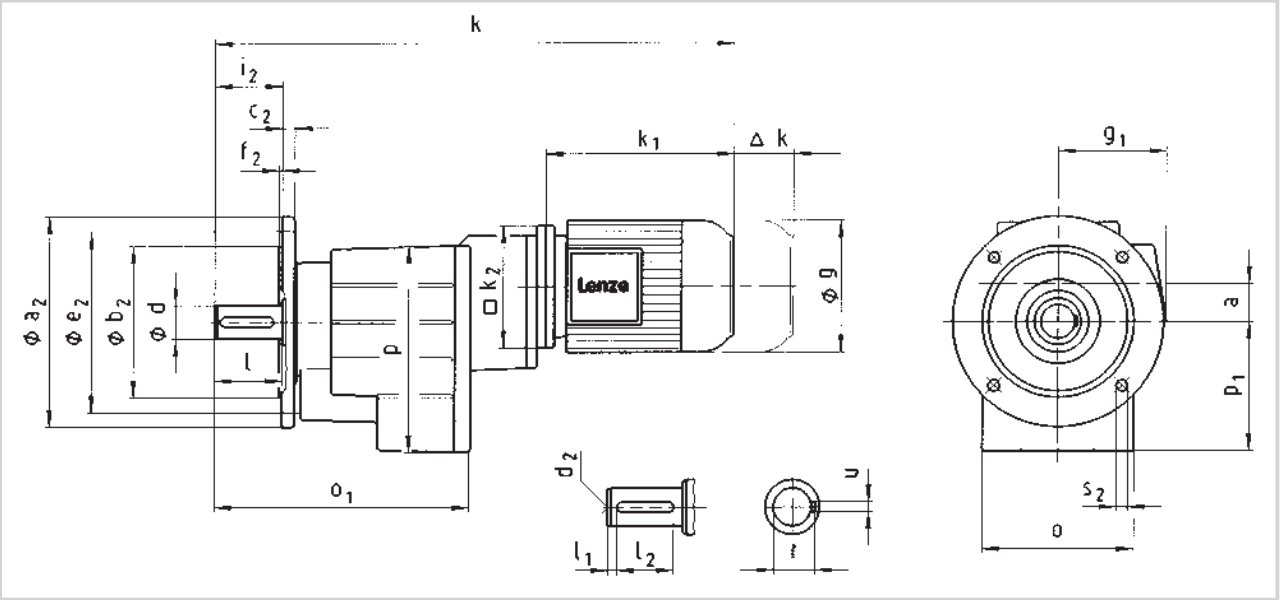
Gearbox size	Gearbox					Total length								
	o*	**o_1**	**p***	**p_1**	**a**	**k**								
05	115	208	156	98	35	458	469	471	520	547				
06	145	240	194	121	34	501	512	514	563	590				
07	180	302	245	155	42			581	630	657	695	725		
09	222	370	304	194	52			662	711	738	776	806	825	
11	270	433	378	243	66				787	814	852	882	901	995
14	328	533	470	306	83					938	976	1006	1025	1119

Gearbox size	Solid shaft							Pitch circle					
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** h7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°
05	25	50	4	40	M10	8	28	88	58	74	9	62	M6x12
06	30	60	6	45	M10	8	33	109	70	90	10	74	M8x14
07	40	80	7	63	M16	12	43	140	100	120	13	97	M10x18
09	50	100	8	80	M16	14	53.5	174	120	145	15	120	M12x20
11	60	120	8	100	M20	18	64	215	150	185	18	143	M16x26
14	80	160	15	125	M20	22	85	265	195	230	22	187	M20x34

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2
** For additional attachments see section 8



3

Geared motor **GST □□ - 3 M VCK**			Motor frame size										
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

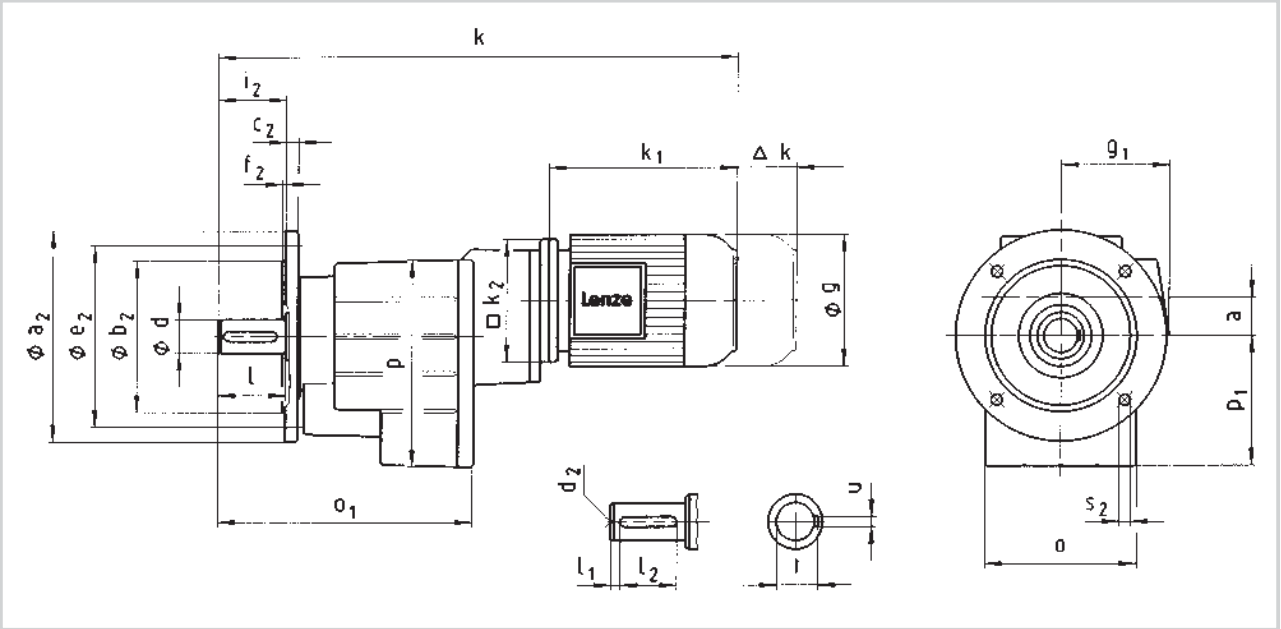
Gearbox size	Gearbox					Total length									
	o*	o_1	p*	p_1	a	k									
05	115	208	156	98	35	478	497	520	581						
06	145	240	194	121	34	521	540	563	624						
07	180	302	245	155	42	588	607	630	691	724					
09	222	370	304	194	52	669	688	711	772	805	821	865			
11	270	433	378	243	66			787	848	881	897	941	990	1066	1110	
14	328	533	470	306	83				972	1005	1021	1065	1114	1190	1234	1307

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
05	25	50	4	40	M10	8	28	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	50	7 9 9 11
06	30	60	6	45	M10	8	33	160 200	110 130	12	130 165	3.5	60	9 11
07	40	80	7	63	M16	12	43	200 250	130 180	14 15	165 215	3.5 4	80	11 14
09	50	100	8	80	M16	14	53.5	250 300	180 230	16 18	215 265	4	100	14
11	60	120	8	100	M20	18	64	300 350	230 250	18 20	265 300	4 5	120	14 18
14	80	160	15	125	M20	22	85	350 400	250 300	22 24	300 350	5	160	18

Dimensions in [mm]

$d \le 50$ mm: k_6
$d > 50$ mm: m_6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GST □□ - 3 M VCK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

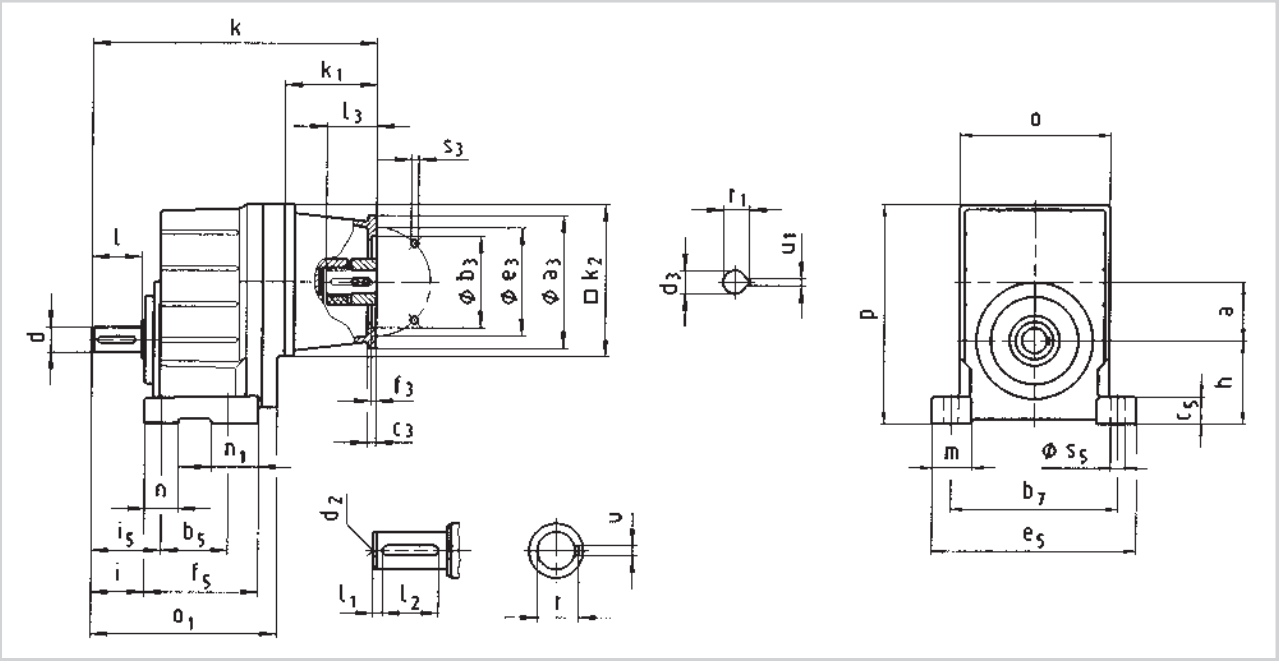
Gearbox size	Gearbox					Total length								
	o*	o_1	p*	p_1	a	k								
05	115	208	156	98	35	458	469	471	520	547				
06	145	240	194	121	34	501	512	514	563	590				
07	180	302	245	155	42			581	630	657	695	725		
09	222	370	304	194	52			662	711	738	776	806	825	
11	270	433	378	243	66				787	814	852	882	901	995
14	328	533	470	306	83					938	976	1006	1025	1119

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
05	25	50	4	40	M10	8	28	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	50	7 9 9 11
06	30	60	6	45	M10	8	33	160 200	110 130	12	130 165	3.5	60	9 11
07	40	80	7	63	M16	12	43	200 250	130 180	14 15	165 215	3.5 4	80	11 14
09	50	100	8	80	M16	14	53.5	250 300	180 230	16 18	215 265	4	100	14
11	60	120	8	100	M20	18	64	300 350	230 250	18 20	265 300	4 5	120	14 18
14	80	160	15	125	M20	22	85	350 400	250 300	22 24	300 350	5	160	18

Dimensions in [mm]

$d \le 50$ mm: k_6
$d > 50$ mm: m_6

* Observe dimension k_2
** For additional attachments see section 8



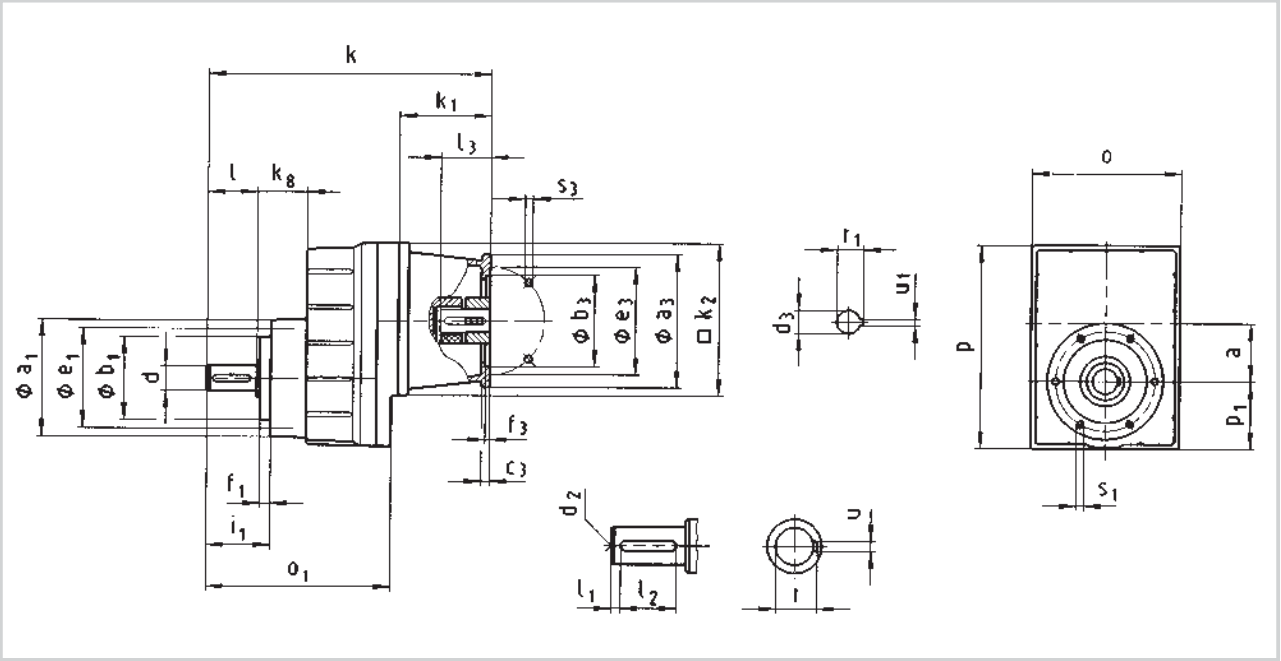
Gearbox			Drive size																				
GST □□ - 1 N VBR corresponds to IEC motor			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188	243
		k_2	120	145	120	145				180		180			180		265			300			300
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59

Gearbox size	Gearbox					Total length
	o*	o_1	p*	h*	a	k
04	100	134	138	50	36	219 226 219 240 274
05	115	165	168	63	45	247 261 295 290
06	145	191	211	80	56	270 284 318 313 342
07	180	223	264	100	70	313 347 342 371 426 406 426 469 439
09	222	271	329	125	89	390 385 414 469 449 469 512 512 482 537

Gearbox size	Solid shaft							Foot										
	d k_6	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
04	16	32	6	20	M5	5	18	55	105	17	128	80	35	45	24	20	25	9
05	20	40	6	28	M6	6	22.5	70	125	22	154	99	43	56	32	26	29	11
06	25	50	4	40	M10	8	28	72	160	27	194	115	53	68	37	30	43	13.5
07	30	60	7.5	45	M10	8	33	80	200	35	245	137	64	84	48	40	57	18
09	40	80	8.5	63	M16	12	43	105	245	43	296	161	84	107	51	45	56	18

Dimensions in [mm]

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2$ > h+a



Gearbox			Drive size																				
GST □□ - 1 N VCR corresponds to IEC motor			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188	243
		k_2	120	145	120	145				180		180			180		265			300			300
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59

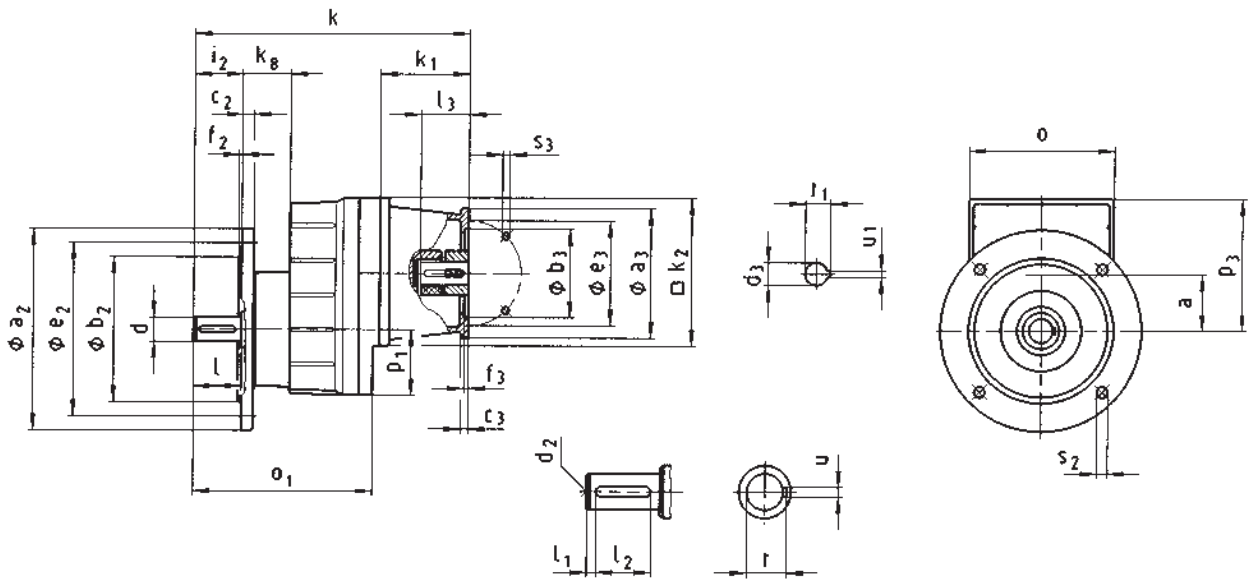
Gearbox size	Gearbox						Total length
	o*	o_1	p*	p_1	a	k_8	k
04	100	134	129	41	36	35	219 226 219 240 274
05	115	165	156	51	45	43	247 261 295 290
06	145	191	194	63	56	48	270 284 318 313 342
07	180	223	245	82	70	60	313 347 342 371 426 406 426 469 439
09	222	271	304	101	89	74	390 385 414 469 449 469 512 512 482 537

Gearbox size	Solid shaft							Pitch circle					
	d k_6	l	l_1	l_2	d_2	u	t	a_1	b_1 h7	e_1	f_1	i_1	s_1 6x60°
04	16	32	6	20	M5	5	18	72	48	61	8	43	M5x10
05	20	40	6	28	M6	6	22.5	88	58	74	9	52	M6x12
06	25	50	4	40	M10	8	28	109	70	90	11	64	M8x14
07	30	60	7.5	45	M10	8	33	140	100	120	13	77	M10x18
09	40	80	8.5	63	M16	12	43	174	120	145	15	100	M12x20

Dimensions in [mm]

* Observe dimension k_2

GST □□ - 1 N VCK


k
i2
k8
k1
c2
l3
f2
s3
Φ a2
Φ e2
Φ b2
d
l
p1
f3
c3
Φ b3
Φ e3
Φ a3
□ k2
o1
d2
l1
l2
t1
d3
u1
u
r
o
a
p3
s2

Gearbox				Drive size																			
GST □□ - 1 N VCK corresponds to IEC motor				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188	243
		k_2		120	145	120	145				180		180			180		265			300		300	
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55
		l_3	min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110
			max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59

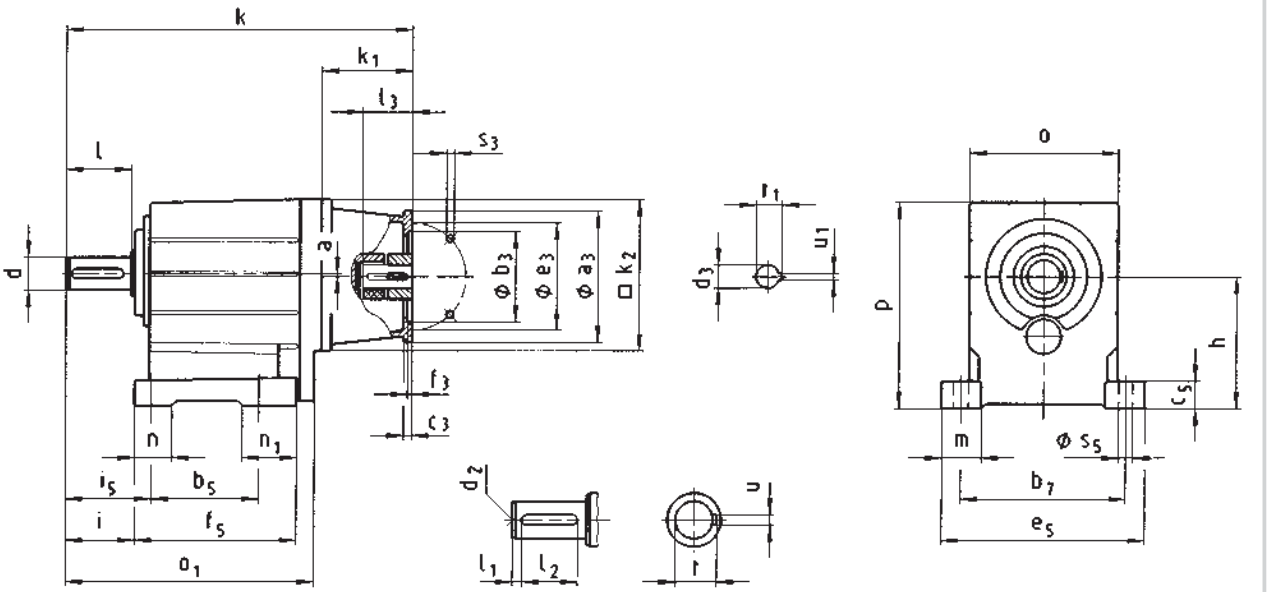
Gearbox size	Gearbox						Total length																	
	o^*	o_1	p_1	$p_3{}^*$	a	k_8	k																	
04	100	134	41	88	36	35	219	226	219	240			274											
05	115	165	51	105	45	43		247		261			295		290									
06	145	191	63	131	56	48		270		284			318		313		342							
07	180	223	82	164	70	60				313			347		342		371	426	406	426	469		439	
09	222	271	101	204	89	74							390		385		414	469	449	469	512	512	482	537

Gearbox size	Solid shaft							Output flange						
	d k_6	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
04	16	32	6	20	M5	5	18	120 140 160	80 95 110	10	100 115 130	3 3 3.5	32	7 9 9
05	20	40	6	28	M6	6	22.5	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	40	7 9 9 11
06	25	50	4	40	M10	8	28	160 200	110 130	12	130 165	3.5	50	9 11
07	30	60	7.5	45	M10	8	33	200 250	130 180	14 15	165 215	3.5 4	60	11 13.5
09	40	80	8.5	63	M16	12	43	250 300	180 230	16 18	215 265	4	80	13.5

Dimensions in [mm]

* Observe dimension k_2

GST □□ - 2 N VBR


k
k1
l3
s3
l
d
a
ϕ b3
ϕ e3
ϕ a3
□ k2
f3
c3
n
n1
is
bs
i
fs
o1
d2
l1
l2
r1
u1
d3
u
r
o
p
h
cs
m
ϕ ss
b7
es

Gearbox GST □□ - 2 N VBR corresponds to IEC motor			Drive size																						
			1A		1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
			63		71	63	80		71	71	90	80	100	90	80	100	90	132	100		160	180	132	200	225
													112			112			112						
	Housing	k_1	58**	75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2	100**	120	145	120	145				180		180			180		265			300			300	
	Flange	a_3	90		105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3 H8	60		70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3	7		8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3	75		85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3	3		3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3 4 x	5. 5		6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
		s_3 8 x																							17.5
	Required motor shafts	d_3	11		14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3 min	23		30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
		l_3 max	23		30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1	4		5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1	12.5		16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

Gearbox size	Gearbox					Total length																			
	$o^{1)}$	o_1	$p^{1)}$	$h^{1)}$	a	k																			
03	90	127*	101	65	2	209*																			
		139				221																			
04	100	174	132	80	0		259	266	259	280		314													
05	115	214	159	100	1			296		310		344		339											
06	145	243	198	125	2			322		336		370		365		394									
07	180	302	251	160	3					392		426		421		450		505	485	505	548		518		
09	222	370	311	200	4							489		484		513		568	548	568	611	611	581	636	
11	270	433	385	250	4									541		570		625	605	625	668	668	638	693	723
14	328	533	479	315	6													715	695	715	758	758	728	783	813

Gearbox size	Solid shaft							Foot										
	d	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
03	14	28	4	20	M5	5	16	60	91	11	105	84	34	40	20	-	-	6.6
	20	40	5	28	M6	6	22.5						46	52				
04	20	40	5	28	M6	6	22.5	76	105	18	129	112	43	53	25	20	36	9
05	25	50	4	40	M10	8	28	90	125	23	155	139	53	66	33	26	49	11
06	30	60	6	45	M10	8	33	106	160	28	196	157	64	79	38	35	52	13.5
07	40	80	7	63	M16	12	43	130	200	34	247	196	84	104	49	45	66	18
09	50	100	8	80	M16	14	53.5	165	245	44	298	239	105	127.5	54	48	74	18
11	60	120	8	100	M20	18	64	200	300	54	368	280	125	155	69	65	80	22
14	80	160	15	125	M20	22	85	250	380	65	460	340	165	200	85	85	91	26

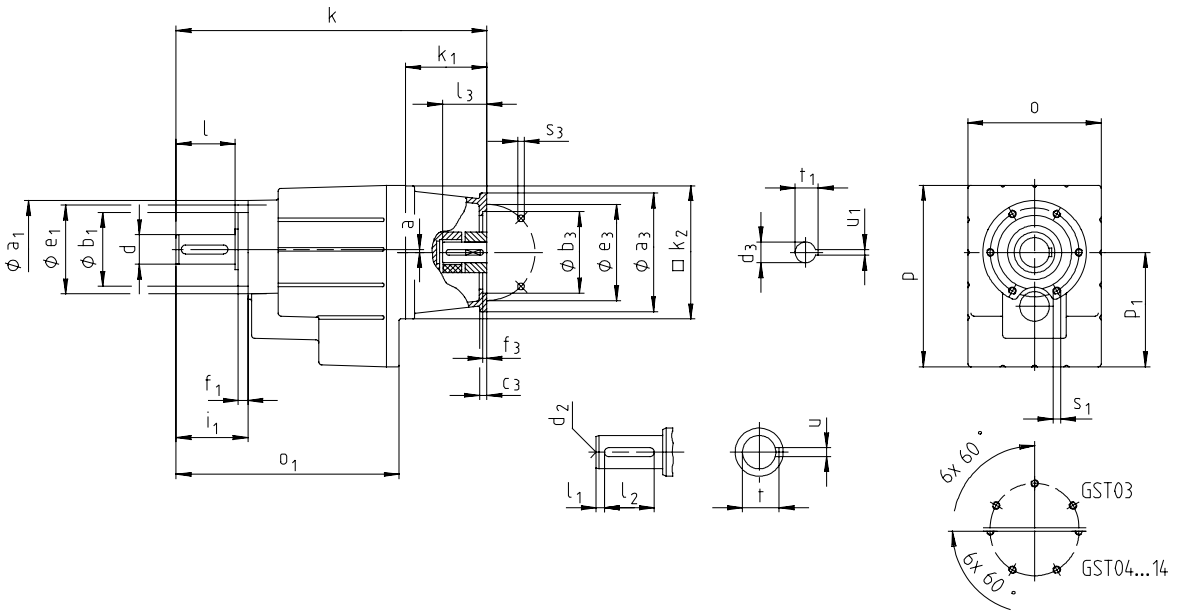
Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* With solid shaft d=14
** With gearbox size 03

1) Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2 > h-a$

GST □□ - 2 N VCR


k
k1
l3
s3
l
a
f3
c3
f1
i1
o1
d2
l1
l2
t1
u1
d3
u
t
o
p
p1
s1
6x 60°
GST03
6x 60°
GST04...14

Gearbox **GST □□ - 2 N VCR** corresponds to IEC motor			Drive size																					
			1A		**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**2H**	**3H**	**1K**	**2K**
			63		71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200	225
	Housing	k_1	58**	75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2	100**	120	145	120	145				180		180			180		265			300			300	
	Flange	a_3	90		105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3 H8	60		70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3	7		8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3	75		85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3	3		3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3 4 x	5. 5		6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
		s_3 8 x																							17.5
	Required motor shafts	d_3	11		14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3 min	23		30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
		l_3 max	23		30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1	4		5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1	12.5		16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

Gearbox size	Gearbox					Total length																		
	$o^{1)}$	**o_1**	**$p^{1)}$**	**p_1**	**a**	**k**																		
03	90	127*	100	64	2	209*																		
		139				221																		
04	100	174	129	77	0		259	266	259	280		314												
05	115	214	156	98	1			296		310		344		339										
06	145	243	194	121	2			322		336		370		365		394								
07	180	302	245	155	3					392		426		421		450		505	485	505	548		518	
09	222	370	304	194	4							489		484		513		568	548	568	611	611	581	636
11	270	433	378	243	4									541		570		625	605	625	668	668	638	693	723
14	328	533	470	306	6													715	695	715	758	758	728	783	813

Gearbox size	Solid shaft							Pitch circle					
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** h7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°
03	14	28	4	20	M5	5	16	71	48	61	8	39	M5x10
	20	40	5	28	M6	6	22.5					51	
04	20	40	5	28	M6	6	22.5	72	48	61	8	51	M5x10
05	25	50	4	40	M10	8	28	88	58	74	9	62	M6x12
06	30	60	6	45	M10	8	33	109	70	90	10	74	M8x14
07	40	80	7	63	M16	12	43	140	100	120	13	97	M10x18
09	50	100	8	80	M16	14	53.5	174	120	145	15	120	M12x20
11	60	120	8	100	M20	18	64	215	150	185	18	143	M16x26
14	80	160	15	125	M20	22	85	265	195	230	22	187	M20x34

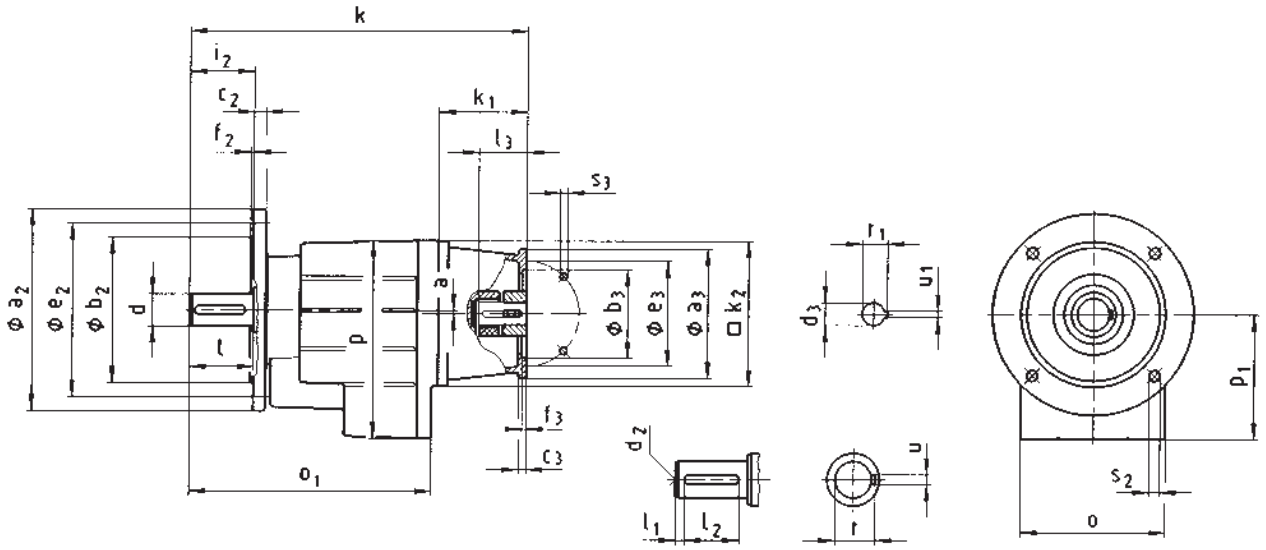
Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* With solid shaft d=14
** With gearbox size 03

1) Observe dimension k_2

GST □□ - 2 N VCK


k
i2
c2
f2
k1
l3
s3
Φ a2
Φ e2
Φ b2
d
t
p
a
Φ b3
Φ e3
Φ a3
□ k2
f3
c3
o1
d2
l1
l2
r1
u1
d3
u
r
p1
s2
o

Gearbox GST □□ - 2 N VCK corresponds to IEC motor				Drive size																				
				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
				63	71	63	80		71	71	90	80	100	90	80	100	90	132	100		160	180	132	200	225
													112			112			112						
	Housing	k_1		58**	75	77	75	91			115		110			139		180	160	180	218	218	188	243	273
		k_2		100**	120	145	120	145			180		180			180		265			300			300	
	Flange	a_3		90		105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3	H8	60		70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3		7		8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3		75		85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3		3		3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3	4 x	5. 5		6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
			8 x																						17.5
	Required motor shafts	d_3		11		14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3	min	23		30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
			max	23		30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1		4		5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1		12.5		16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

Gearbox size	Gearbox					Total length																		
	$o^{1)}$	o_1	$p^{1)}$	p_1	a	k																		
03	90	127*	100	64	2	209*																		
		139				221																		
04	100	174	129	77	0		259	266	259	280		314												
05	115	214	156	98	1			296		310		344		339										
06	145	243	194	121	2			322		336		370		365		394								
07	180	302	245	155	3					392		426		421		450		505	485	505	548		518	
09	222	370	304	194	4							489		484		513		568	548	568	611	611	581	636
11	270	433	378	243	4									541		570		625	605	625	668	668	638	693	723
14	328	533	470	306	6													715	695	715	758	758	728	783	813

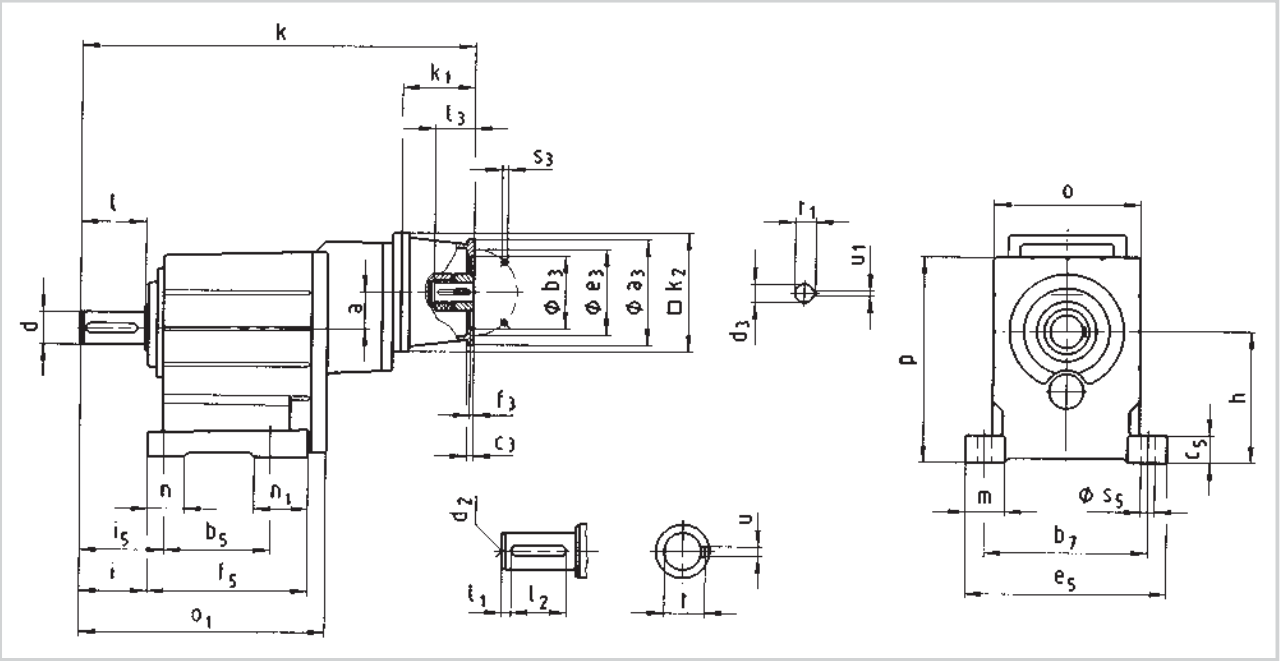
Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
03	14	28	4	20	M5	5	16	120	80	10	100	3	28	7
								140	95		115	3		9
	20	40	5	28	M6	6	22.5	160	110		130	3.5	40	9
04	20	40	5	28	M6	6	22.5	120	80	10	100	3	40	7
								140	95		115	3		9
								160	110		130	3.5		9
05	25	50	4	40	M10	8	28	120	80	10	100	3	50	7
								140	95	10	115	3		9
								160	110	10	130	3.5		9
								200	130	12	165	3.5		11
06	30	60	6	45	M10	8	33	160	110	12	130	3.5	60	9
								200	130		165			11
07	40	80	7	63	M16	12	43	200	130	14	165	3.5	80	11
								250	180	15	215	4		14
09	50	100	8	80	M16	14	53.5	250	180	16	215	4	100	14
								300	230	18	265			
11	60	120	8	100	M20	18	64	300	230	18	265	4	120	14
								350	250	20	300	5		18
14	80	160	15	125	M20	22	85	350	250	22	300	5	160	18
								400	300	24	350			

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* With solid shaft d=14
** With gearbox size 03

1) Observe dimension k_2



Gearbox			Drive size																		
GST □□ - 3 N VBR corresponds to IEC motor			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H
			63	71	63	80		71	71	90	80	100	90	80	100	90	132	100		160	180	132
												112			112			112				
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2	120	145	120	145				180		180			180		265			300		
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

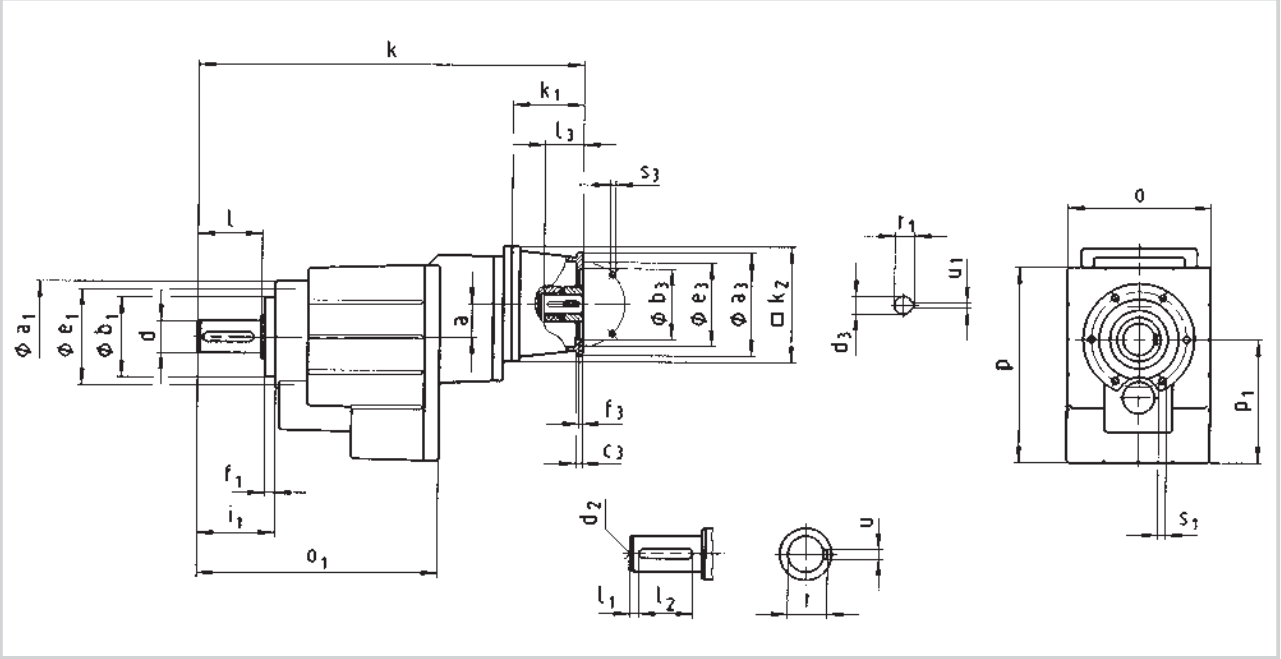
Gearbox size	Gearbox					Total length															
	o*	o_1	p*	h	a	k															
05	115	208	159	100	35	365	372	365	386		420										
06	145	240	198	125	34	408	415	408	429		463										
07	180	302	251	160	42		482		496		530		525								
09	222	370	311	200	52		563		577		611		606		635						
11	270	433	385	250	66				653		687		682		711		766	746	766		
14	328	533	479	315	83						811		806		835		890	870	890	933	933	903

Gearbox size	Solid shaft							Foot										
	d	l	l_1	l_2	d_2	u	t	b_5	b_7	c_5	e_5	f_5	i	i_5	m	n	n_1	s_5
05	25	50	4	40	M10	8	28	90	125	23	155	139	53	66	32.5	26	49	11
06	30	60	6	45	M10	8	33	106	160	28	196	157	64	79	38	35	52	13.5
07	40	80	7	63	M16	12	43	130	200	34	247	196	84	104	48.5	45	66	18
09	50	100	8	80	M16	14	53.5	165	245	44	298	239	105	127.5	54	48	74	18
11	60	120	8	100	M20	18	64	200	300	54	368	280	125	155	69	65	80	22
14	80	160	15	125	M20	22	85	250	380	65	460	340	165	200	85	85	91	26

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2



Gearbox GST □□ - 3 N VCR corresponds to IEC motor			Drive size 1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H
			63	71	63	80		71	71	90	80	100	90	80	100	90	132	100		160	180	132
												112			112			112				
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2	120	145	120	145				180		180			180		265			300		
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

Gearbox size	Gearbox					Total length																
	o^*	o_1	p^*	p_1	a	k																
05	115	208	156	98	35	365	372	365	386		420											
06	145	240	194	121	34	408	415	408	429		463											
07	180	302	245	155	42		482		496		530		525									
09	222	370	304	194	52		563		577		611		606		635							
11	270	433	378	243	66				653		687		682		711		766	746	766			
14	328	533	470	306	83						811		806		835		890	870	890	933	933	903

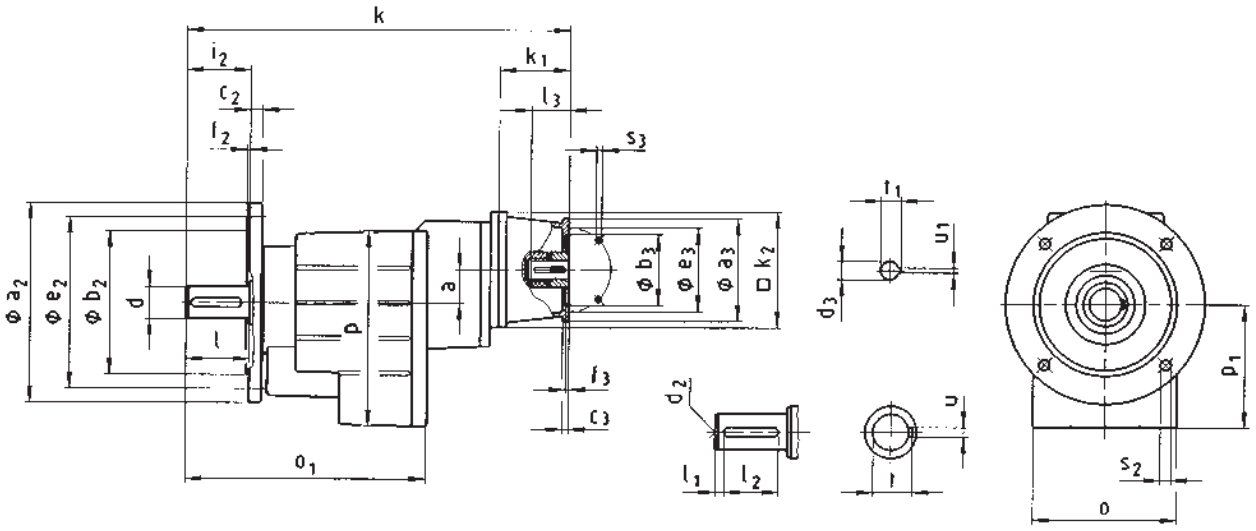
Gearbox size	Solid shaft							Pitch circle					
	d	l	l_1	l_2	d_2	u	t	a_1	b_1 h7	e_1	f_1	i_1	s_1 6x60°
05	25	50	4	40	M10	8	28	88	58	74	9	62	M6x12
06	30	60	6	45	M10	8	33	109	70	90	10	74	M8x14
07	40	80	7	63	M16	12	43	140	100	120	13	97	M10x18
09	50	100	8	80	M16	14	53.5	174	120	145	15	120	M12x20
11	60	120	8	100	M20	18	64	215	150	185	18	143	M16x26
14	80	160	15	125	M20	22	85	265	195	230	22	187	M20x34

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2

GST □□ - 3 N VCK


k
i2
c2
f2
k1
l3
s3
ϕ a2
ϕ e2
ϕ b2
d
l
p
a
ϕ b3
ϕ e3
ϕ a3
□ k2
t1
u1
d3
f3
c3
o1
d2
l1
l2
u
t
p1
s2
o

Gearbox GST □□ - 3 N VCK corresponds to IEC motor				Drive size																	
				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H
				63	71	63	80		71	71	90	80	100	90	80	100	90	132	100		160	180	132
													112			112			112				
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2		120	145	120	145				180		180			180		265			300		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3	min	23	30	23	25				50	40	30			30		80	60	80	110	110	80
			max	23	30	23	40				50	50	60			60		80	60	80	110	110	80
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

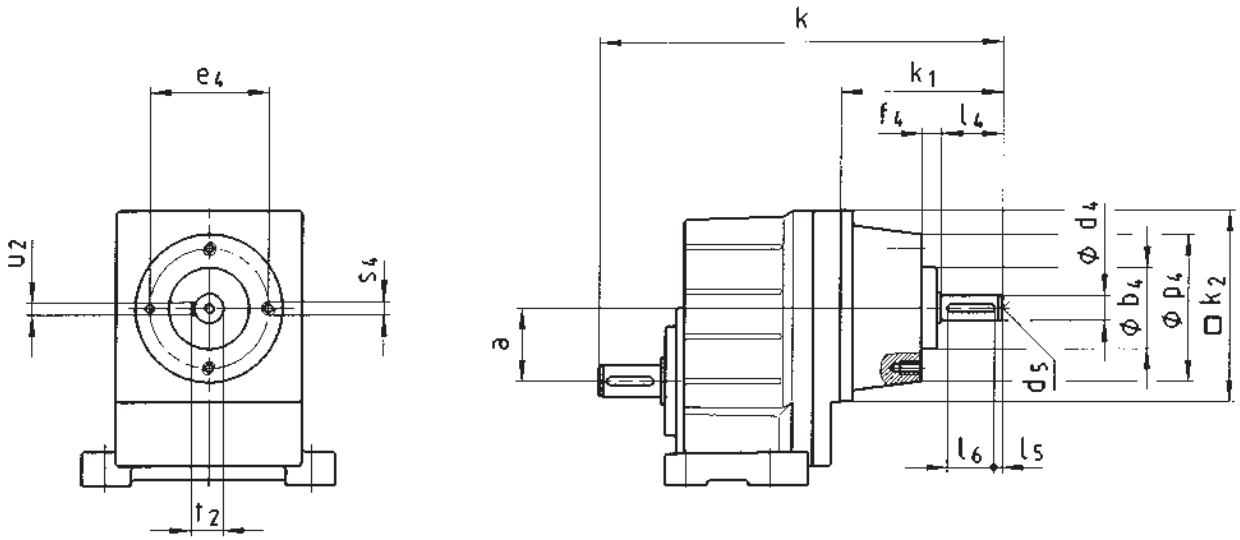
Gearbox size	Gearbox					Total length															
	o*	o_1	p*	p_1	a	k															
05	115	208	156	98	35	365	372	365	386		420										
06	145	240	194	121	34	408	415	408	429		463										
07	180	302	245	155	42		482		496		530		525								
09	222	370	304	194	52		563		577		611		606			635					
11	270	433	378	243	66				653		687		682			711		766	746	766	
14	328	533	470	306	83						811		806			835		890	870	890	933	933	903

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
05	25	50	4	40	M10	8	28	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	50	7 9 9 11
06	30	60	6	45	M10	8	33	160 200	110 130	12	130 165	3.5	60	9 11
07	40	80	7	63	M16	12	43	200 250	130 180	14 15	165 215	3.5 4	80	11 14
09	50	100	8	80	M16	14	53.5	250 300	180 230	16 18	215 265	4	100	14
11	60	120	8	100	M20	18	64	300 350	230 250	18 20	265 300	4 5	120	14 18
14	80	160	15	125	M20	22	85	350 400	250 300	22 24	300 350	5	160	18

Dimensions in [mm]

$d \leq 50$ mm: k_6
$d > 50$ mm: m_6

* Observe dimension k_2

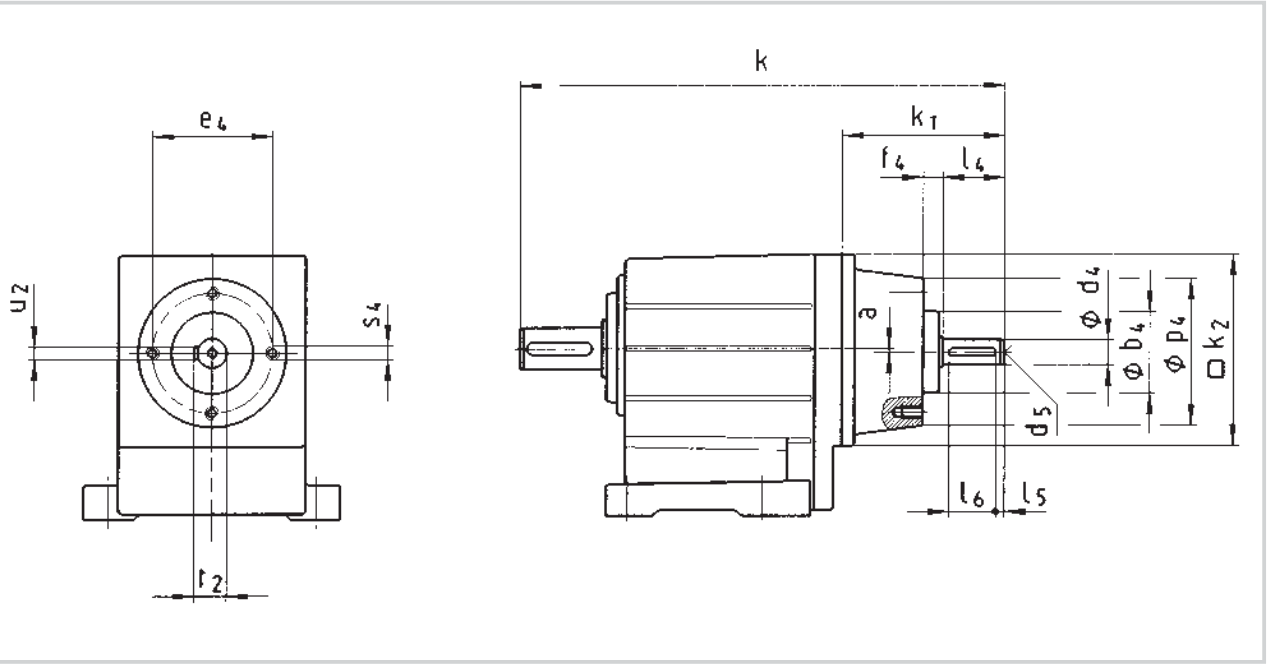


Gearbox GST □□ - 1 W □□□			Drive size 1A	1B	1C	1D	1E	1F	1G	1H
Housing	k_1		100	100	102	130	160	175	175	182
	k_2		115	115	145	145	180	222	222	300
Pitch circle with centring	p_4		80	86	90	120	142	178	216	262
	b_4	js8	52	52	52	65	78	98	125	155
	e_4		67	67	67	90	115	145	175	210
	f_4		12	12	12	12	22	23	23	23
	s_4	4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36
Input shaft	d_4	k6	14	14	14	19	24	28	38	42
	l_4		35	35	40	50	60	80	100	110
	l_5		4.5	4.5	4	4	6	7	8	8
	l_6		25	25	32	40	45	63	80	90
	d_5		M6	M6	M6	M6	M8	M10	M12	M16
	u_2		5	5	5	6	8	8	10	12
	t_2		16	16	16	21.5	27	31	41	45

Gearbox size	Gearbox a	Total length k							
04	36	219	219	251					
05	45		247	272	300				
06	56			295	323	363	384		
07	70				352	392	413	413	
09	89					435	456	456	476

Dimensions in [mm]

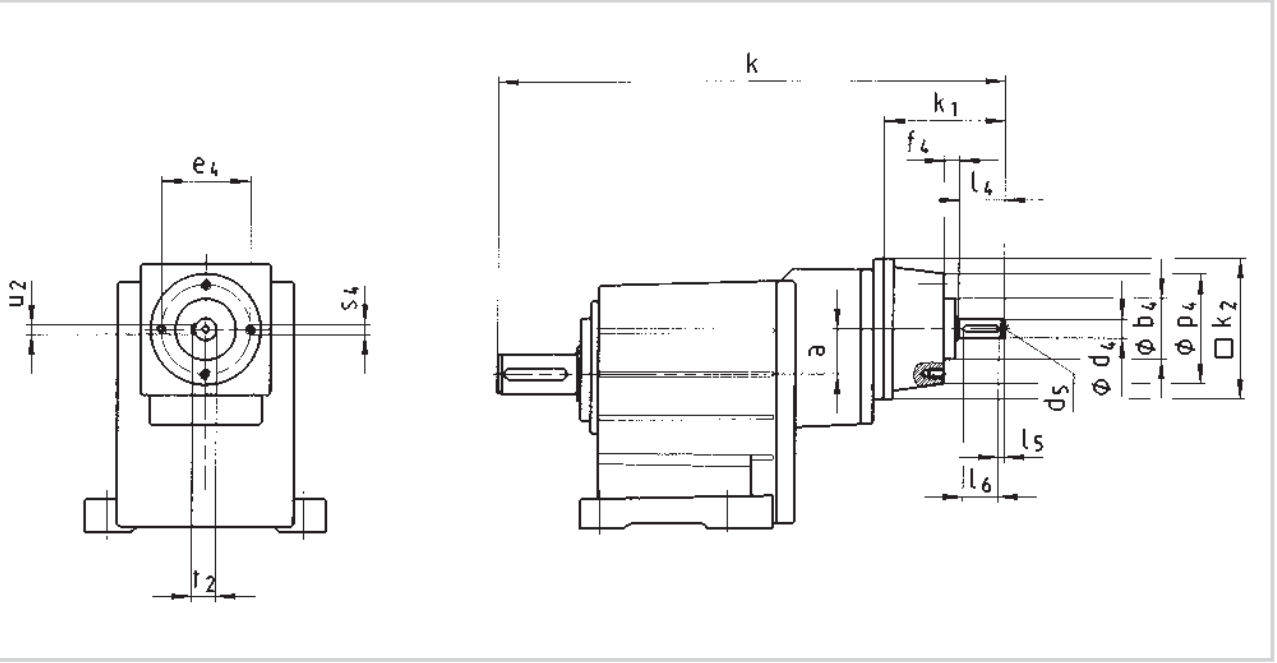
Fur further dimensions see Dimensions - Helical geared motors



Gearbox GST □□ - 2 W □□□			Drive size 1A	1B	1C	1D	1E	1F	1G	1H	1K
	Housing	k_1	100	100	102	130	160	175	175	182	220
		k_2	115	115	145	145	180	222	222	300	300
	Pitch circle with centring	p_4	80	86	90	120	142	178	216	262	262
		b_4 js8	52	52	52	65	78	98	125	155	155
		e_4	67	67	67	90	115	145	175	210	210
		f_4	12	12	12	12	22	23	23	23	32
		s_4 4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36	M20x36
	Input shaft	d_4 k6	14	14	14	19	24	28	38	42	48
		l_4	35	35	40	50	60	80	100	110	110
		l_5	4.5	4.5	4	4	6	7	8	8	8
		l_6	25	25	32	40	45	63	80	90	90
		d_5	M6	M6	M6	M6	M8	M10	M12	M16	M16
		u_2	5	5	5	6	8	8	10	12	14
		t_2	16	16	16	21.5	27	31	41	45	51.5
Gearbox size	Gearbox **a**		Total length **k**								
04	0		259	259	291						
05	1			296	321	349					
06	2				347	375	415	436			
07	3					431	471	492	492		
09	4						534	555	555	575	
11	4							612	612	632	670
14	6								702	722	760

Dimensions in [mm]

For further dimensions see Dimensions - Helical geared motors



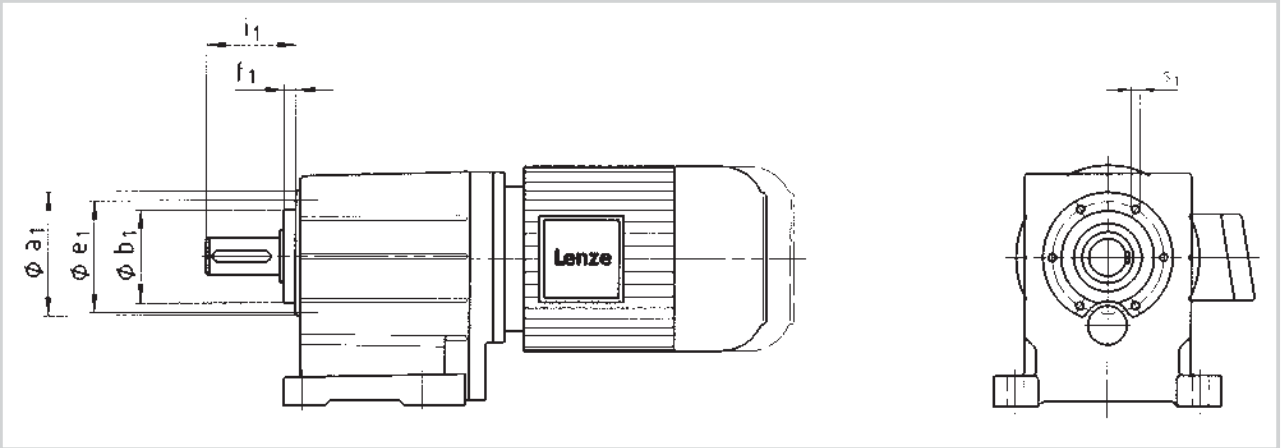
Gearbox GST □□ - 3 W □□□			Drive size 1A	1B	1C	1D	1E	1F	1G	1H
Housing	k_1		100	100	102	130	160	175	175	182
	k_2		115	115	145	145	180	222	222	300
Pitch circle with centring	p_4		80	86	90	120	142	178	216	262
	b_4	js8	52	52	52	65	78	98	125	155
	e_4		67	67	67	90	115	145	175	210
	f_4		12	12	12	12	22	23	23	23
	s_4	4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36
Input shaft	d_4	k6	14	14	14	19	24	28	38	42
	l_4		35	35	40	50	60	80	100	110
	l_5		4.5	4.5	4	4	6	7	8	8
	l_6		25	25	32	40	45	63	80	90
	d_5		M6	M6	M6	M6	M8	M10	M12	M16
	u_2		5	5	5	6	8	8	10	12
	t_2		16	16	16	21.5	27	31	41	45

Gearbox size	Gearbox a	Total length k							
05	35	365	365	397					
06	34	408	408	440					
07	42		482	507	535				
09	52			588	616	656	677		
11	66				692	732	753	753	
14	83					856	877	877	897

Dimensions in [mm]

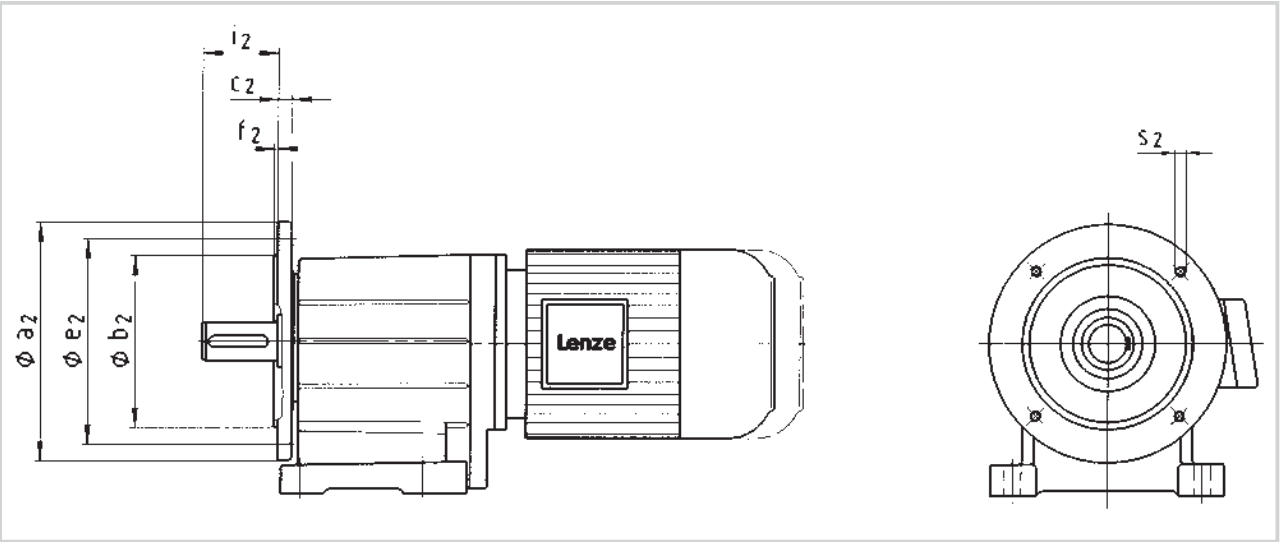
Fur further dimensions see Dimensions - Helical geared motors

Output design VAR



Gearbox size	a_1	b_1 h7	e_1	f_1	i_1	s_1 6 x 60°
04	72	48	61	8	51	M5x10
05	88	58	74	9	62	M6x12
06	109	70	90	10	74	M8x14
07	140	100	120	13	97	M10x8
09	174	120	145	15	120	M12x20
11	215	150	185	18	143	M16x26
14	265	195	230	22	187	M20x34

Output design VAL



Gearbox size	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4 x 90°
04	120 140	80 95	10	100 115	3	40	M6 M8
05	120 140 160	80 95 110	10	100 115 130	3 3 3.5	50	M6 M8 M8
06	160 200	110 130	12	130 165	3.5	60	M8 M10
07	200 250	130 180	14 15	165 215	3.5 4	80	M10 M12
09	250 300	180 230	16 18	215 265	4	100	M12
11	300 350	230 250	18 20	265 300	4 5	120	M12 M16
14	350 400	250 300	22 24	300 350	5	160	M16

Dimensions in [mm]

For further dimensions see Dimensions - Helical geared motors

Shaft-mounted helical gearboxes

(low-profile gearboxes)

G-motion const

Technical data

Selection tables

Dimensions

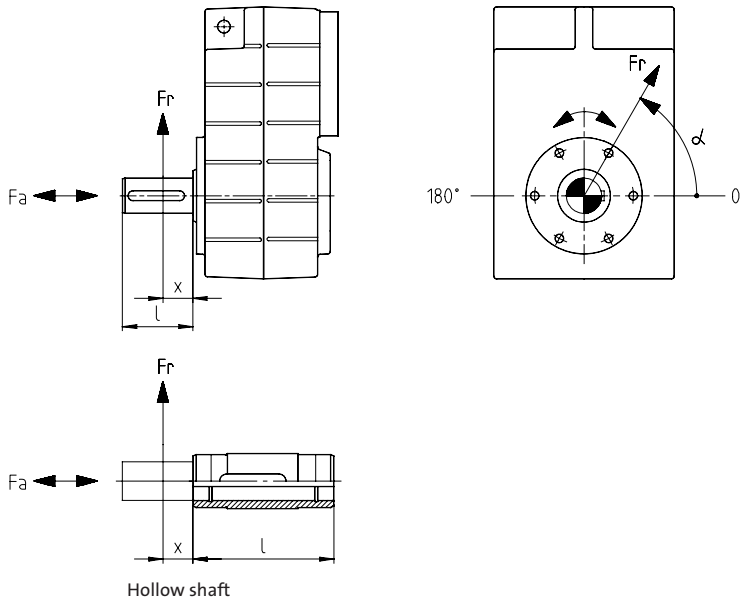
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

Permissible axial force

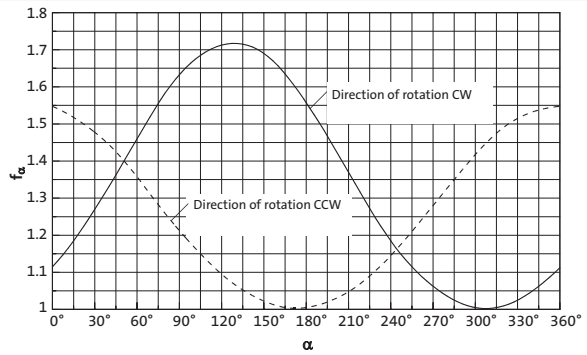
$F_{a_{perm}} = F_{a_{Tab}}$ at $F_r = 0$

Contact Lenze if F_r **and** $F_a \neq 0$

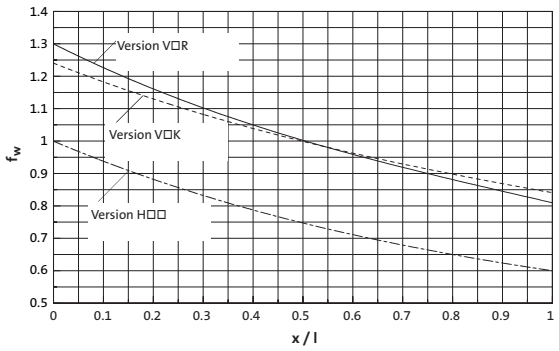


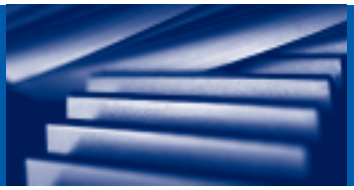
Hollow shaft

f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft





VCK

Solid shaft with flange
Application of force F_r: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GFL 04		GFL 05		GFL 06		GFL 07		GFL 09		GFL 11		GFL 14	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	3200	2200	4300	3100	6100	4300	6400	6100	7800	6100	12500	6800	18000	6000
250	3700	2600	5100	3900	7000	5500	7400	6500	9000	6500	14500	8500	20000	8000
160	4400	3200	5900	4800	7800	6500	8900	7000	10500	7000	17000	10500	23000	10000
100	4600	4200	6800	6400	9600	8500	10500	9500	14000	9500	21500	17000	27500	13000
63	4600	4400	7000	6600	10000	10000	12000	11500	15000	11500	26000	22000	32000	19000
40	4600	4400	7000	6600	10000	10000	13000	11500	15000	11500	30000	27000	38000	26000
25	4600	4400	7000	6600	10000	10000	14000	11500	15000	11500	30000	27000	43000	35000
≤ 16	4600	4400	7000	6600	10000	10000	14000	11500	15000	11500	30000	27000	43000	35000
$F_{r\,max}$	4600	–	7400	–	11000	–	16000	–	16000	–	32000	–	46000	–

V□R

Solid shaft without flange
Application of force F_r: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GFL 04		GFL 05		GFL 06		GFL 07		GFL 09*		GFL 11*		GFL 14	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	2300	2200	2400	2800	3200	4000	3200	3400	3800	3100	5500	4700	47000	25000
250	2700	2600	2700	3600	3600	5200	3600	4700	4400	4200	6300	6000	54000	27000
160	3200	3200	3200	4200	3900	6000	3900	6000	5500	5800	7300	7500	62000	29000
100	3600	4200	4000	5900	5100	8500	5100	8500	8000	10000	11200	14000	65000	32000
63	3600	5300	4800	6600	6500	10000	6500	12000	10000	13500	14500	19000	65000	35000
40	3600	5500	5800	6600	8400	10000	8400	14000	12000	17000	17400	25000	65000	35000
25	3600	5500	6200	6600	9000	10000	9000	14000	18000	21000	20500	27000	65000	35000
≤ 16	3600	5500	6200	6600	9000	10000	9000	14000	18000	21000	23000	27000	65000	35000
$F_{r\,max}$	3600	–	7000	–	11000	–	11000	–	22000	–	28000	–	65000	–

H□□

Hollow shaft
Application of force F_r: At hollow shaft end face (x = 0)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GFL 04		GFL 05		GFL 06		GFL 07		GFL 09		GFL 11		GFL 14	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	2800	2200	3000	2800	4300	4000	4500	3400	5000	3100	7300	4700	8000	4000
250	3200	2600	3400	3600	4700	5200	5100	4700	6000	4200	8700	6000	9000	5000
160	3800	3200	4100	4200	5000	6000	6400	6000	7200	5800	10000	7500	9500	6200
100	4600	4200	5000	5900	6600	8500	7900	8500	10500	10000	14200	14000	11500	7500
63	5500	5300	6000	6600	8500	10000	9300	12000	13000	13500	19000	19000	14000	11000
40	6300	5500	7100	6600	10800	10000	11500	14000	15000	17000	23000	25000	18000	17500
25	7000	5500	8000	6600	12000	10000	15000	14000	22000	21000	27000	27000	30000	31000
≤ 16	7000	5500	8000	6600	12000	10000	16000	14000	24000	21000	30000	27000	45000	35000
$F_{r\,max}$	7000	–	10000	–	15000	–	20000	–	30000	–	38000	–	56000	–

* A reinforced output shaft bearing is available on request for V□R versions.

Neither radial nor axial forces are permitted on hollow shafts with shrink disc (S□□).

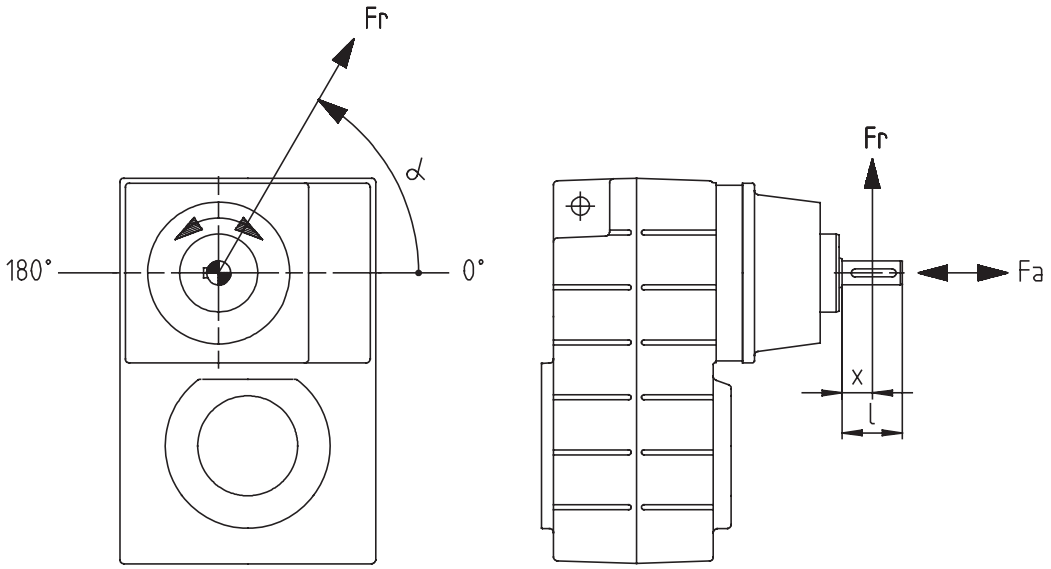
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

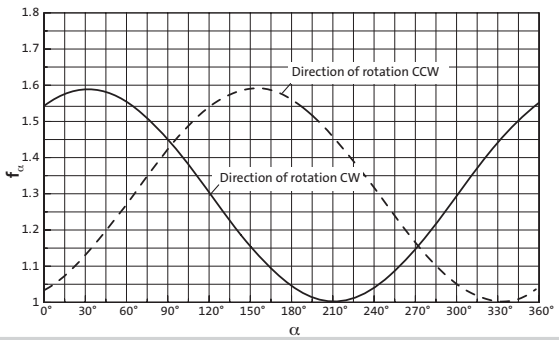
Permissible axial force

$F_{a_{perm}} = F_{a_{Tab}}$ at $F_r = 0$

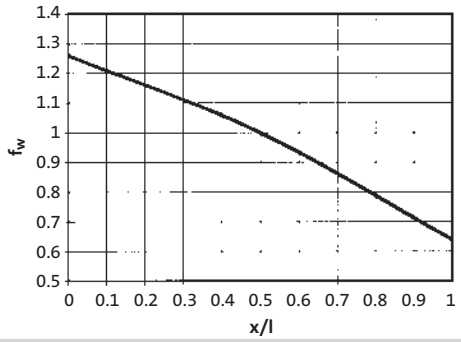
Contact Lenze if F_r **and** $F_a \neq 0$



f_α Effective direction factor at input shaft



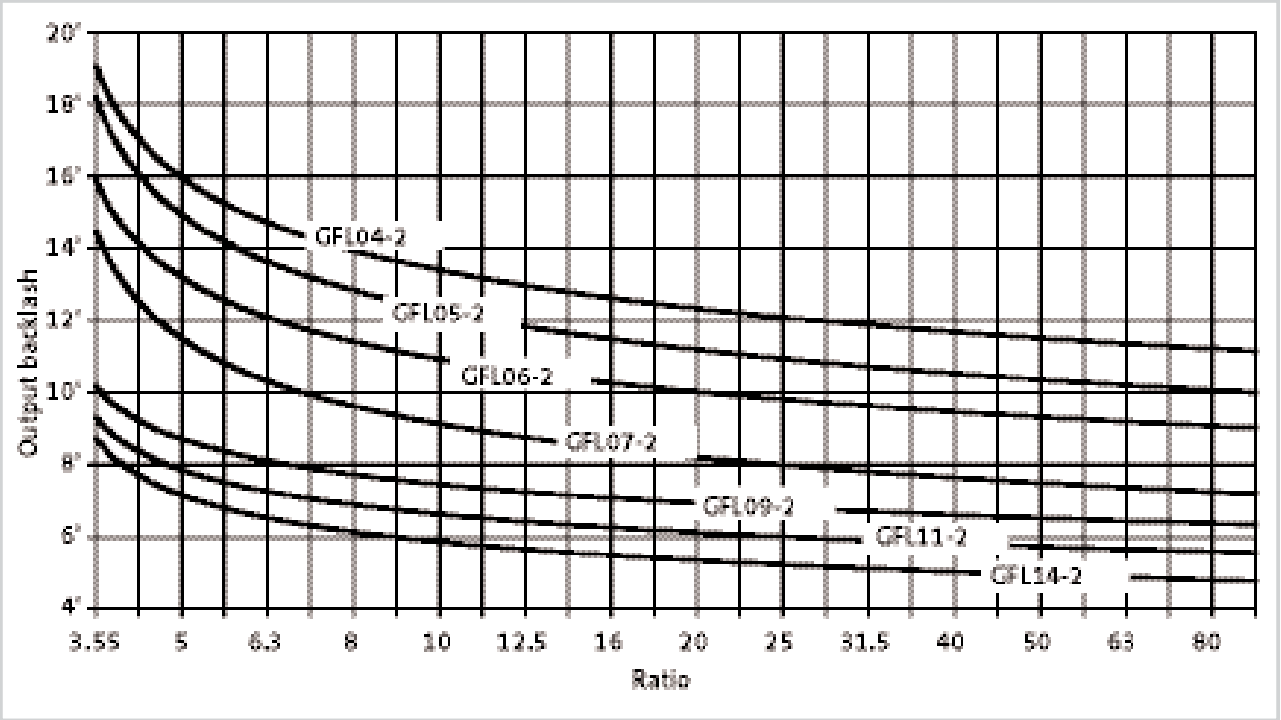
f_w Additional load factor at input shaft



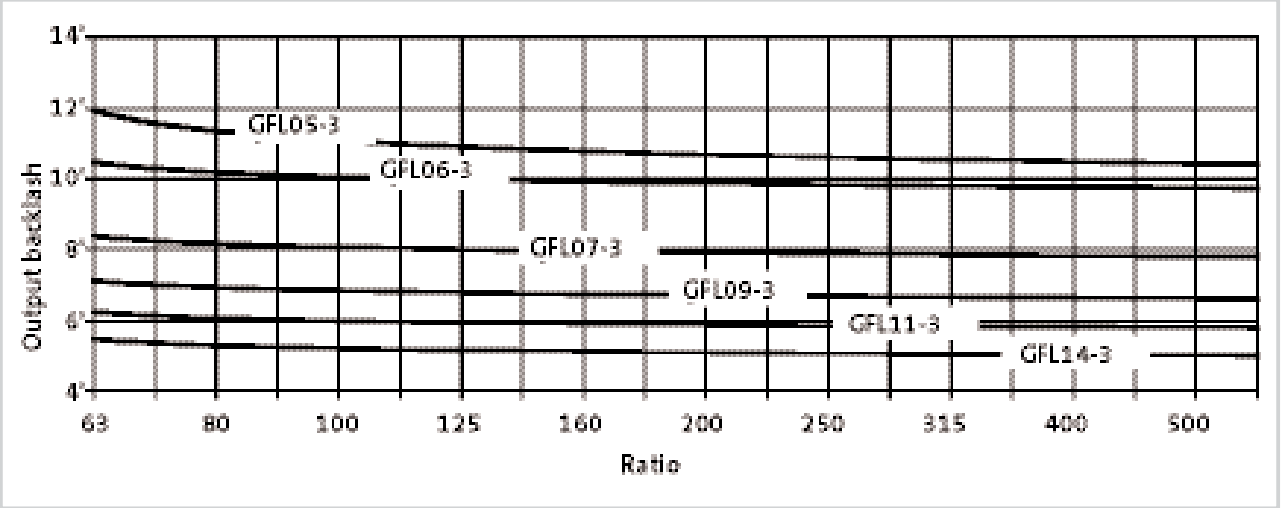
w Application of force F_r: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_1 [min^{-1}]	Drive size 1A 1B		1C		1D		1E		1F		1G		1H		1K	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
700	830	1200	1150	1400	1470	1500	2140	1600	3200	2800	4000	4500	5000	6000	8500	10000
1400	570	770	780	900	1000	740	1400	800	2200	1700	3200	2000	4000	2500	7000	5300
2800	440	530	590	620	770	470	940	460	1700	1100	2300	1600	3000	2000	5000	3500
$F_{r\,max}$	1850	–	1650	–	3000	–	4900	–	5600	–	8000	–	10000	–	12000	–

GFL □□-2

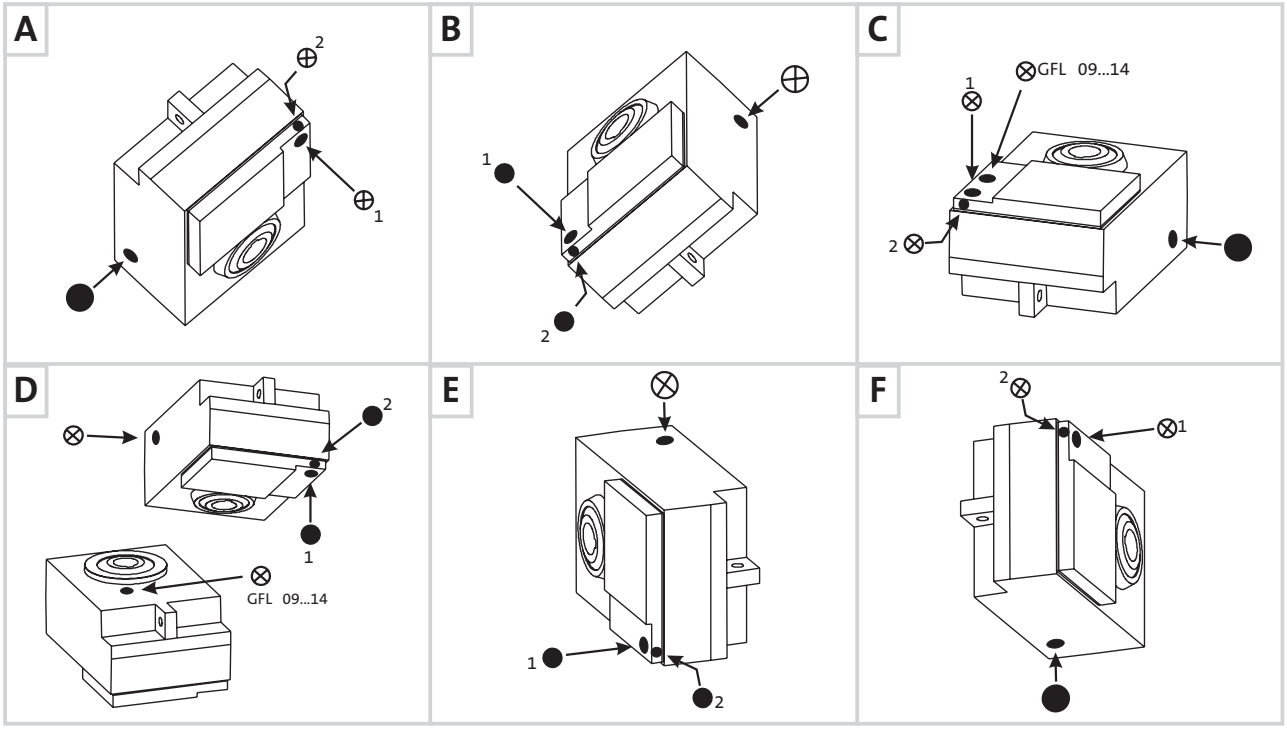

20'
18'
16'
14'
12'
10'
8'
6'
4'
Output backlash
GFL04-2
GFL05-2
GFL06-2
GFL07-2
GFL09-2
GFL11-2
GFL14-2
3.55
5
6.3
8
10
12.5
16
20
25
31.5
40
50
63
80
Ratio

GFL □□-3

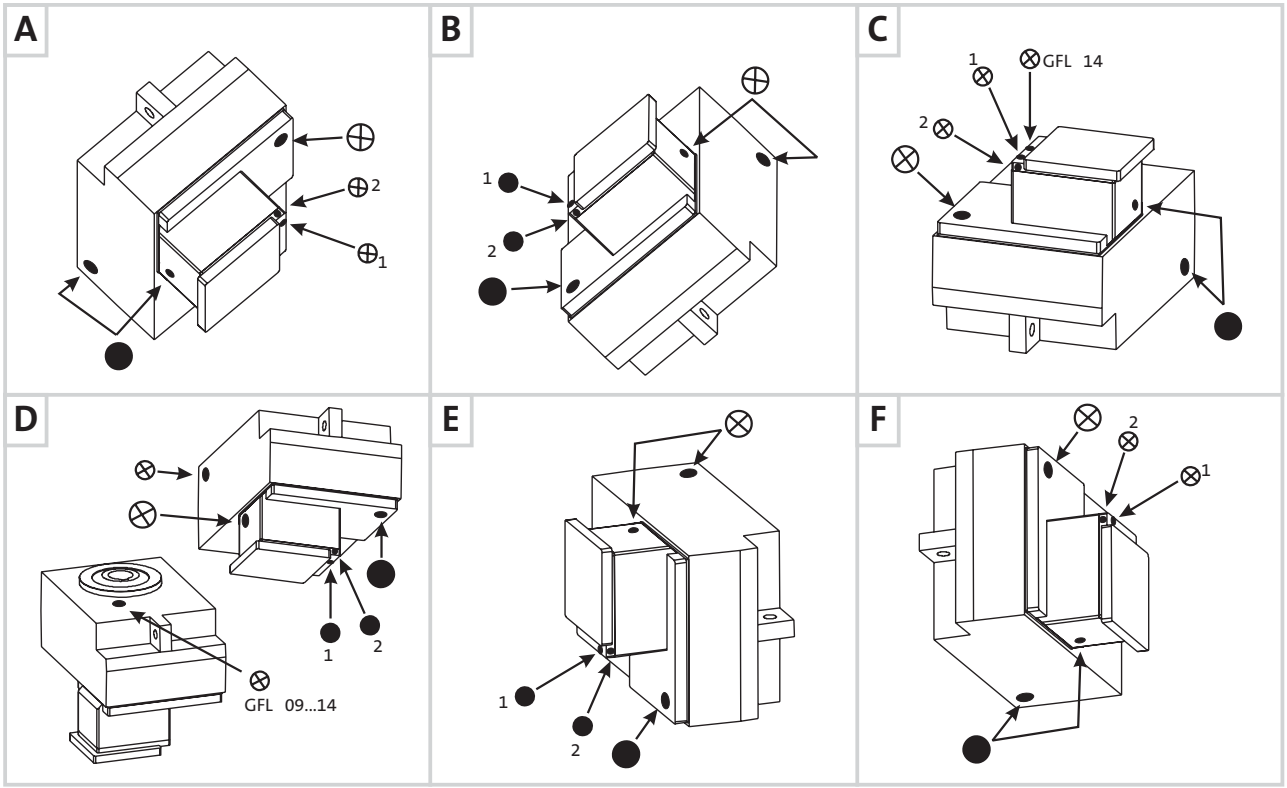

14'
12'
10'
8'
6'
4'
Output backlash
GFL05-3
GFL06-3
GFL07-3
GFL09-3
GFL11-3
GFL14-3
63
80
100
125
160
200
250
315
400
500
Ratio

Position of ventilation, oil filler plug and oil drain plug

Shaft-mounted helical gearbox (low-profile gearbox) GFL 05 ... 14-2



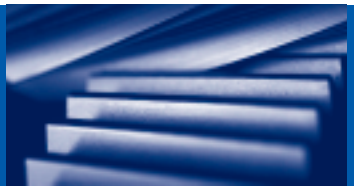
Shaft-mounted helical gearbox (low-profile gearbox) GFL 05 ... 14-3



(A ... F) Mounting position

⊗ Ventilation/oil filler plug
● Oil drain plug

Pos. 1 or 2 depending on version
(see table on page 4-7)



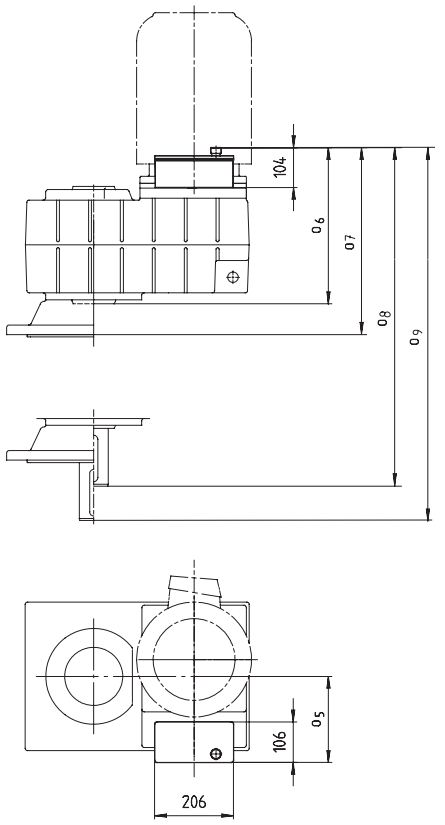
On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.
On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

Shaft-mounted helical gearboxes (low-profile gearboxes)

GFL	05	-2	M	□□□	090 100
			N	□□□	1D/2D 1E/2E/3E
	06	-2	M	□□□	112
			W	□□□	1F
	07	-2	M	□□□	160
			N	□□□	1H/3H
		-3	M	□□□	090 100
			N	□□□	1D/2D 1E/2E/3E
	09	-3	M	□□□	112
			W	□□□	1F

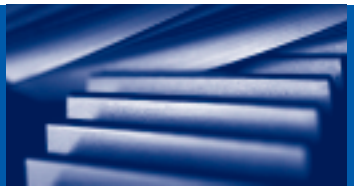
Gearbox with ventilation and reservoir for mounting position C

Shaft-mounted helical gearbox (low-profile gearbox) GFL



Shaft-mounted helical gearbox (low-profile gearbox) GFL□□ - 2 M		Motor frame size / Drive size			
		090 / 100	112	132 / 180	160 / 200 / 225
GFL□□ - 2 N		□D / □E / □F		□G / □H	□K
GFL□□ - 2 W		1E	1F / 1G		1H / 1K
09	ø5	166	188	209	224
	ø6	340	340	340	340
	ø7	400	400	400	400
	ø8	456	456	456	456
	ø9	516	516	516	516
11	ø5	156	178	202	216
	ø6	382	386	386	386
	ø7	442	446	446	446
	ø8	537	541	541	541
	ø9	597	601	601	601
14	ø5		183	213	213
	ø6		440	440	440
	ø7		500	500	500
	ø8		595	595	595
	ø9		655	655	655

Terminal box position 3 not permitted.



Shaft-mounted helical gearbox (low-profile gearbox) GFL □□-2

Gearbox size	Geared motors GFL□□-2M **HCR/HDR** with motor frame size														
	063	071	080	090	100	112		132	160		180		200	225	
						C22/-31	C32/-41		-22	-32	-22	-32	N32	N12	N22
04	11	13	18	25											
05	24	26	31	38	45										
06	38	40	45	52	59	71	77								
07			71	78	85	97	103	130	174	194					
09				124	131	143	149	177	221	241	320	330	416		
11					216	228	234	260	304	324	403	413	500	552	622
14						370	376	401	445	465	544	554	638	690	760

Gearbox size	Gearbox with mounting flange for IEC motors GFL□□-2N **HCR/HDR** with drive size													Gearbox with free input shaft GFL□□-2W **HCR/HDR** with drive size								
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	2H	3H	1K	2K	1A	1B	1C	1D	1E	1F	1G	1H	1K
04	9	10	13	16										8	9	10						
05		23	26	29	31										22	23	25					
06		37	40	43	45	47										37	40	43	51			
07			66	69	71	73	96	93	104		100						65	68	77	82		
09				115	118	119	143	140	151	155	147	171						114	123	129	144	
11					203	204	226	223	234	238	230	255	262						208	212	227	243
14							367	364	375	379	371	393	400							353	368	381

Weights in [kg] with oil capacity for mounting position A. All data is approximate
Observe extra weights on page 4-10!

Shaft-mounted helical gearbox (low-profile gearbox) GFL □□-3

Gearbox size	Geared motors GFL□□-3M **HCR/HDR** with motor frame size											
	063	071	080	090	100	112		132	160		180	
						C22/-31	C32/-41		-22	-32	-22	-32
05	25	27	32	39								
06	42	44	49	55								
07	72	74	79	86	93							
09	123	125	130	137	144	157	163					
11			223	230	237	250	256	283	327	347		
14				387	394	406	412	439	483	503	538	548

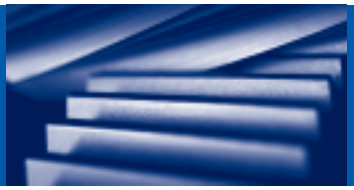
Gearbox size	Gearbox with mounting flange for IEC motors GFL□□-3N **HCR/HDR** with drive size											Gearbox with free input shaft GFL□□-3W **HCR/HDR** with drive size							
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	2H	3H	1A	1B	1C	1D	1E	1F	1G	1H
05	23	25	27	30								22	23	24					
06	40	41	44	47								39	40	41					
07		71	74	77	79								70	71	73				
09		122	125	128	131	132								122	125	128	137		
11			218	221	224	226	249	246	257	261	253				218	221	230	235	
14				378	380	381	405	402	413	417	409					377	385	391	406

4

Extra weights

Gearbox size	Solid shaft V□□	Hollow shaft with shrink disc S□□	Flange □□K	Foot □A□/□B□
04	0.6	0.6	2.5	1.0
05	1	0.8	4	1.5
06	2.5	1	7	2.5
07	5	1.5	11	4
09	8	3	16	7
11	16	5	24	14
14	33	11	33	23

Weights in [kg] with oil capacity for mounting position A. All data is approximate

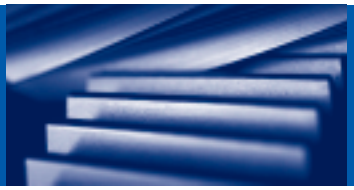


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.12 kW					**GFL □□ - 2M**	**4-84**
n1=1425	203	6	5.4	7.025	GFL04 - 2M□□□ 063C12	
	89	13	5.4	16.087	GFL04 - 2M□□□ 063C12	
	80	14	5.4	17.920	GFL04 - 2M□□□ 063C12	
	69	16	5.0	20.519	GFL04 - 2M□□□ 063C12	
	62	18	5.0	22.857	GFL04 - 2M□□□ 063C12	
	45	25	5.5	31.600	GFL04 - 2M□□□ 063C12	
	41	28	5.5	35.200	GFL04 - 2M□□□ 063C12	
	35	32	4.6	40.697	GFL04 - 2M□□□ 063C12	
	31	35	4.6	45.333	GFL04 - 2M□□□ 063C12	
	28	40	4.0	51.579	GFL04 - 2M□□□ 063C12	
	25	45	3.9	57.455	GFL04 - 2M□□□ 063C12	
	22	50	3.2	64.636	GFL04 - 2M□□□ 063C12	
	20	56	3.2	72.000	GFL04 - 2M□□□ 063C12	
	17	66	1.6	85.156	GFL04 - 2M□□□ 063C12	
	15	74	1.6	94.857	GFL04 - 2M□□□ 063C12	
					GFL □□ - 3M	**4-100**
	14	78	4.2	101.547	GFL05 - 3M□□□ 063C12	
	12	88	3.7	114.952	GFL05 - 3M□□□ 063C12	
	11	100	3.3	129.524	GFL05 - 3M□□□ 063C12	
	9.9	111	5.0	144.320	GFL06 - 3M□□□ 063C12	
	8.8	125	4.9	162.583	GFL06 - 3M□□□ 063C12	
	8.1	136	2.5	177.027	GFL05 - 3M□□□ 063C12	
	7.1	153	2.1	199.467	GFL05 - 3M□□□ 063C12	
	6.3	175	2.0	227.989	GFL05 - 3M□□□ 063C12	
	5.6 5.5	197 200	1.7 3.1	256.889 260.457	GFL05 - 3M□□□ 063C12 GFL06 - 3M□□□ 063C12	
	4.9 4.9	222 225	1.6 2.9	288.948 293.018	GFL05 - 3M□□□ 063C12 GFL06 - 3M□□□ 063C12	
	4.4 4.8	250 230	1.3 2.7	325.576 299.200	GFL05 - 3M□□□ 063C12 GFL06 - 3M□□□ 063C12	
	3.9 3.9	278 282	1.2 2.3	362.100 367.200	GFL05 - 3M□□□ 063C12 GFL06 - 3M□□□ 063C12	
	3.5 3.4	314 318	1.0 1.9	408.000 413.667	GFL05 - 3M□□□ 063C12 GFL06 - 3M□□□ 063C12	
	3.0	365	1.8	475.200	GFL06 - 3M□□□ 063C12	
	3.0 2.7	367 411	0.9 1.5	477.052 535.333	GFL05 - 3M□□□ 063C12 GFL06 - 3M□□□ 063C12	
	2.5	443	1.4	576.720	GFL06 - 3M□□□ 063C12	
	2.2	499	1.2	649.700	GFL06 - 3M□□□ 063C12	
	1.9	584	0.9	759.806	GFL06 - 3M□□□ 063C12	
	1.7	658	0.9	855.954	GFL06 - 3M□□□ 063C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GFL □□ - 2M**	**4-84**
n1=2760	393	4	5.7	7.025	GFL04 - 2M□□□ 063-11	
	172	10	5.7	16.087	GFL04 - 2M□□□ 063-11	
	154	11	5.7	17.920	GFL04 - 2M□□□ 063-11	
	135	12	5.3	20.519	GFL04 - 2M□□□ 063-11	
	121	14	5.3	22.857	GFL04 - 2M□□□ 063-11	
	68	25	5.5	40.697	GFL04 - 2M□□□ 063-11	
	61	27	5.5	45.333	GFL04 - 2M□□□ 063-11	
	54	31	4.8	51.579	GFL04 - 2M□□□ 063-11	
	48	35	4.6	57.455	GFL04 - 2M□□□ 063-11	
	43	39	3.9	64.636	GFL04 - 2M□□□ 063-11	
	38	44	4.1	72.000	GFL04 - 2M□□□ 063-11	
	32	52	2.0	85.156	GFL04 - 2M□□□ 063-11	
	29	57	2.0	94.857	GFL04 - 2M□□□ 063-11	
n1=1365	194	9	3.4	7.025	GFL04 - 2M□□□ 063C32	
	85	20	3.4	16.087	GFL04 - 2M□□□ 063C32	
	76	22	3.4	17.920	GFL04 - 2M□□□ 063C32	
	67	25	3.2	20.519	GFL04 - 2M□□□ 063C32	
	60	28	3.2	22.857	GFL04 - 2M□□□ 063C32	
	43	39	3.5	31.600	GFL04 - 2M□□□ 063C32	
	39	43	3.5	35.200	GFL04 - 2M□□□ 063C32	
	34	50	2.9	40.697	GFL04 - 2M□□□ 063C32	
	30	55	2.9	45.333	GFL04 - 2M□□□ 063C32	
	27	63	2.6	51.579	GFL04 - 2M□□□ 063C32	
	24	70	2.5	57.455	GFL04 - 2M□□□ 063C32	
	21	79	2.1	64.636	GFL04 - 2M□□□ 063C32	
	19	88	2.0	72.000	GFL04 - 2M□□□ 063C32	
	16	104	1.0	85.156	GFL04 - 2M□□□ 063C32	
	14	116	1.0	94.857	GFL04 - 2M□□□ 063C32	
n1=870	14	124	1.3	64.636	GFL04 - 2M□□□ 071-13	
	14	121	2.3	63.190	GFL05 - 2M□□□ 071-13	
	12	138	1.3	72.000	GFL04 - 2M□□□ 071-13	
	12	137	2.2	71.200	GFL05 - 2M□□□ 071-13	
	11	155	1.4	80.763	GFL05 - 2M□□□ 071-13	
	11	155	2.8	81.000	GFL06 - 2M□□□ 071-13	
	9.6	174	1.4	91.000	GFL05 - 2M□□□ 071-13	
	9.5	175	2.7	91.250	GFL06 - 2M□□□ 071-13	

Thermal power limit not considered (see page 2-4)

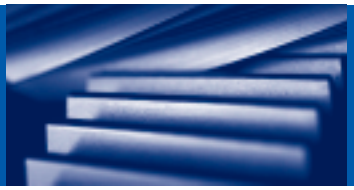


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GFL □□ - 3M**	4-100
n1=1365	13	122	2.7	101.547	GFL05 - 3M□□□ 063C32	
	12	138	2.4	114.952	GFL05 - 3M□□□ 063C32	
	12	140	2.9	116.571	GFL06 - 3M□□□ 063C32	
	11	156	2.1	129.524	GFL05 - 3M□□□ 063C32	
	10	158	3.2	131.323	GFL06 - 3M□□□ 063C32	
	9.5	174	3.2	144.320	GFL06 - 3M□□□ 063C32	
	8.4	196	3.1	162.583	GFL06 - 3M□□□ 063C32	
	7.7	213	1.6	177.027	GFL05 - 3M□□□ 063C32	
	7.6	216	2.8	179.520	GFL06 - 3M□□□ 063C32	
	6.8	240	1.4	199.467	GFL05 - 3M□□□ 063C32	
	6.8	243	2.5	202.237	GFL06 - 3M□□□ 063C32	
	6.0	274	1.3	227.989	GFL05 - 3M□□□ 063C32	
	5.9	278	2.3	231.200	GFL06 - 3M□□□ 063C32	
	5.3	309	1.1	256.889	GFL05 - 3M□□□ 063C32	
	5.2	313	2.0	260.457	GFL06 - 3M□□□ 063C32	
	4.7	348	1.0	288.948	GFL05 - 3M□□□ 063C32	
	4.7	353	1.9	293.018	GFL06 - 3M□□□ 063C32	
	4.2	392	0.8	325.576	GFL05 - 3M□□□ 063C32	
	4.6	360	1.7	299.200	GFL06 - 3M□□□ 063C32	
	3.7	442	1.5	367.200	GFL06 - 3M□□□ 063C32	
	3.3	498	1.2	413.667	GFL06 - 3M□□□ 063C32	
	2.9	572	1.1	475.200	GFL06 - 3M□□□ 063C32	
	2.6	644	1.0	535.333	GFL06 - 3M□□□ 063C32	
	2.4	694	0.9	576.720	GFL06 - 3M□□□ 063C32	
n1=870	2.4	693	0.9	367.200	GFL06 - 3M□□□ 071-13	
	2.2	751	1.7	397.533	GFL07 - 3M□□□ 071-13	
	2.0	812	1.6	430.222	GFL07 - 3M□□□ 071-13	
	1.7	986	1.3	522.133	GFL07 - 3M□□□ 071-13	
	1.7	972	2.8	514.881	GFL09 - 3M□□□ 071-13	
	1.6	1062	1.1	562.391	GFL07 - 3M□□□ 071-13	
	1.6	1047	2.0	554.470	GFL09 - 3M□□□ 071-13	
	1.4	1197	1.0	633.680	GFL07 - 3M□□□ 071-13	
	1.4	1180	1.9	624.879	GFL09 - 3M□□□ 071-13	
	1.2	1357	0.8	718.786	GFL07 - 3M□□□ 071-13	
	1.2	1323	1.6	700.875	GFL09 - 3M□□□ 071-13	
	1.1	1491	1.5	789.875	GFL09 - 3M□□□ 071-13	
0.25 kW					**GFL □□ - 2M**	4-84
n1=2760	393	6	4.1	7.025	GFL04 - 2M□□□ 063-31	
	172	14	4.1	16.087	GFL04 - 2M□□□ 063-31	
	154	15	4.1	17.920	GFL04 - 2M□□□ 063-31	
	135	17	3.8	20.519	GFL04 - 2M□□□ 063-31	
	121	19	3.8	22.857	GFL04 - 2M□□□ 063-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GFL □□ - 2M**	**4-84**
n1=2760	87	27	4.7	31.600	GFL04 - 2M□□□ 063-31	
	78	30	4.7	35.200	GFL04 - 2M□□□ 063-31	
	68	34	4.0	40.697	GFL04 - 2M□□□ 063-31	
	61	38	4.0	45.333	GFL04 - 2M□□□ 063-31	
	54	43	3.5	51.579	GFL04 - 2M□□□ 063-31	
	48	48	3.3	57.455	GFL04 - 2M□□□ 063-31	
	43	54	2.8	64.636	GFL04 - 2M□□□ 063-31	
	38	60	2.9	72.000	GFL04 - 2M□□□ 063-31	
	32	72	1.4	85.156	GFL04 - 2M□□□ 063-31	
	29	80	1.5	94.857	GFL04 - 2M□□□ 063-31	
n1=1370	374	6	4.5	3.659	GFL04 - 2M□□□ 063C42	
	273	9	4.5	5.018	GFL04 - 2M□□□ 063C42	
	235	10	4.5	5.833	GFL04 - 2M□□□ 063C42	
	214	11	4.5	6.400	GFL05 - 2M□□□ 063C42	
	195	12	5.2	7.025	GFL04 - 2M□□□ 063C42	
	164	14	4.5	8.379	GFL04 - 2M□□□ 063C42	
	147	16	4.5	9.333	GFL04 - 2M□□□ 063C42	
	134	17	5.2	10.238	GFL04 - 2M□□□ 063C42	
	119	19	4.5	11.491	GFL04 - 2M□□□ 063C42	
	107	22	4.5	12.800	GFL04 - 2M□□□ 063C42	
	93	25	5.2	14.706	GFL04 - 2M□□□ 063C42	
	86	27	4.5	15.904	GFL05 - 2M□□□ 063C42	
	77	30	4.5	17.920	GFL05 - 2M□□□ 063C42	
	67	35	4.8	20.519	GFL04 - 2M□□□ 063C42	
	60	39	4.3	22.857	GFL04 - 2M□□□ 063C42	
	55	43	4.3	25.136	GFL04 - 2M□□□ 063C42	
	49	47	3.5	28.000	GFL04 - 2M□□□ 063C42	
	43	53	3.5	31.600	GFL04 - 2M□□□ 063C42	
	39	60	2.9	35.200	GFL04 - 2M□□□ 063C42	
	34	69	2.7	40.697	GFL04 - 2M□□□ 063C42	
	30	77	2.2	45.333	GFL04 - 2M□□□ 063C42	
	27	87	2.2	51.579	GFL04 - 2M□□□ 063C42	
	24	97	1.8	57.455	GFL04 - 2M□□□ 063C42	
	23	99	3.2	58.667	GFL05 - 2M□□□ 063C42	
	21	109	1.2	64.636	GFL04 - 2M□□□ 063C42	
	22	107	2.6	63.190	GFL05 - 2M□□□ 063C42	
	21	108	3.2	64.080	GFL06 - 2M□□□ 063C42	
	19	122	1.2	72.000	GFL04 - 2M□□□ 063C42	
	19	120	2.5	71.200	GFL05 - 2M□□□ 063C42	
	19	122	3.2	72.189	GFL06 - 2M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

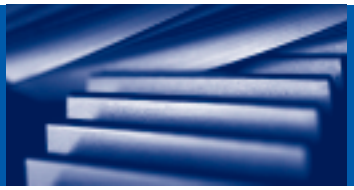


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GFL □□ - 2M**	**4-84**
n1=1370	17	137	1.4	80.763	GFL05 - 2M□□□ 063C42	
	17	137	2.6	81.000	GFL06 - 2M□□□ 063C42	
	15	154	1.4	91.000	GFL05 - 2M□□□ 063C42	
	15	154	2.6	91.250	GFL06 - 2M□□□ 063C42	
n1=920	14	163	1.0	64.636	GFL04 - 2M□□□ 071-33	
	15	159	1.8	63.190	GFL05 - 2M□□□ 071-33	
	14	161	2.7	64.080	GFL06 - 2M□□□ 071-33	
	13	181	1.0	72.000	GFL04 - 2M□□□ 071-33	
	13	179	1.7	71.200	GFL05 - 2M□□□ 071-33	
	13	182	2.7	72.189	GFL06 - 2M□□□ 071-33	
	11	203	1.1	80.763	GFL05 - 2M□□□ 071-33	
	11	204	2.1	81.000	GFL06 - 2M□□□ 071-33	
	10	229	1.0	91.000	GFL05 - 2M□□□ 071-33	
	10	230	2.1	91.250	GFL06 - 2M□□□ 071-33	
					GFL □□ - 3M	**4-100**
n1=1370	15	154	5.2	92.413	GFL07 - 3M□□□ 063C42	
	14	169	1.9	101.547	GFL05 - 3M□□□ 063C42	
	12	191	1.7	114.952	GFL05 - 3M□□□ 063C42	
	12	194	2.7	116.571	GFL06 - 3M□□□ 063C42	
	11	216	1.5	129.524	GFL05 - 3M□□□ 063C42	
	10	219	2.7	131.323	GFL06 - 3M□□□ 063C42	
	9.7	235	1.5	140.817	GFL05 - 3M□□□ 063C42	
	9.5	240	2.3	144.320	GFL06 - 3M□□□ 063C42	
	8.6	264	1.2	158.667	GFL05 - 3M□□□ 063C42	
	8.4	271	2.3	162.583	GFL06 - 3M□□□ 063C42	
	7.7	295	1.2	177.027	GFL05 - 3M□□□ 063C42	
	7.6	299	2.0	179.520	GFL06 - 3M□□□ 063C42	
	6.9	332	1.0	199.467	GFL05 - 3M□□□ 063C42	
	6.8	337	1.8	202.237	GFL06 - 3M□□□ 063C42	
	6.0	380	0.9	227.989	GFL05 - 3M□□□ 063C42	
	5.9	385	1.6	231.200	GFL06 - 3M□□□ 063C42	
	5.3	434	1.4	260.457	GFL06 - 3M□□□ 063C42	
	5.4	422	3.0	253.111	GFL07 - 3M□□□ 063C42	
	4.7	488	1.3	293.018	GFL06 - 3M□□□ 063C42	
	4.7	484	2.8	290.706	GFL07 - 3M□□□ 063C42	
	4.6	498	1.2	299.200	GFL06 - 3M□□□ 063C42	
	4.2	546	2.3	327.556	GFL07 - 3M□□□ 063C42	
	3.7	612	1.1	367.200	GFL06 - 3M□□□ 063C42	
	3.9	588	2.3	352.811	GFL07 - 3M□□□ 063C42	
	3.9	588	3.2	353.033	GFL09 - 3M□□□ 063C42	
	3.3	689	0.9	413.667	GFL06 - 3M□□□ 063C42	
	3.5	662	1.9	397.533	GFL07 - 3M□□□ 063C42	
	3.4	663	3.2	397.863	GFL09 - 3M□□□ 063C42	
	2.9	791	0.8	475.200	GFL06 - 3M□□□ 063C42	
	3.2	717	1.8	430.222	GFL07 - 3M□□□ 063C42	
	2.6	870	1.5	522.133	GFL07 - 3M□□□ 063C42	
	2.7	857	3.2	514.881	GFL09 - 3M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Shaft-mounted helical geared motor	Dimensions Page
0.25 kW					**GFL □□ - 3M**	4-100
n1=1370	2.4	937	1.2	562.391	GFL07 - 3M□□□ 063C42	
	2.5	923	2.3	554.470	GFL09 - 3M□□□ 063C42	
	2.2	1055	1.2	633.680	GFL07 - 3M□□□ 063C42	
	2.2	1041	2.2	624.879	GFL09 - 3M□□□ 063C42	
	1.9	1197	0.9	718.786	GFL07 - 3M□□□ 063C42	
	2.0	1167	1.8	700.875	GFL09 - 3M□□□ 063C42	
	1.7	1349	0.9	809.900	GFL07 - 3M□□□ 063C42	
	1.7	1315	1.7	789.875	GFL09 - 3M□□□ 063C42	
n1=920	1.6	1395	0.8	562.391	GFL07 - 3M□□□ 071-33	
	1.7	1375	1.5	554.470	GFL09 - 3M□□□ 071-33	
	1.5	1550	1.5	624.879	GFL09 - 3M□□□ 071-33	
	1.3	1738	1.2	700.875	GFL09 - 3M□□□ 071-33	
	1.2	1959	1.2	789.875	GFL09 - 3M□□□ 071-33	
0.37 kW					**GFL □□ - 2M**	4-84
n1=2840	138	25	6.0	20.519	GFL04 - 2M□□□ 071-11	
	124	28	4.9	22.857	GFL04 - 2M□□□ 071-11	
	113	30	5.5	25.136	GFL04 - 2M□□□ 071-11	
	101	34	4.6	28.000	GFL04 - 2M□□□ 071-11	
	90	38	4.5	31.600	GFL04 - 2M□□□ 071-11	
	81	43	3.7	35.200	GFL04 - 2M□□□ 071-11	
	70	49	3.5	40.697	GFL04 - 2M□□□ 071-11	
	63	55	2.9	45.333	GFL04 - 2M□□□ 071-11	
	55	62	2.8	51.579	GFL04 - 2M□□□ 071-11	
	49	69	2.3	57.455	GFL04 - 2M□□□ 071-11	
	44	78	1.9	64.636	GFL04 - 2M□□□ 071-11	
	39	87	2.0	72.000	GFL04 - 2M□□□ 071-11	
	35	98	2.2	80.763	GFL05 - 2M□□□ 071-11	
	31	110	2.2	91.000	GFL05 - 2M□□□ 071-11	
n1=1410	385	9	4.0	3.659	GFL04 - 2M□□□ 071C32	
	281	12	4.0	5.018	GFL04 - 2M□□□ 071C32	
	242	14	4.0	5.833	GFL04 - 2M□□□ 071C32	
	220	16	4.0	6.400	GFL05 - 2M□□□ 071C32	
	201	17	4.5	7.025	GFL04 - 2M□□□ 071C32	
	168	20	4.0	8.379	GFL04 - 2M□□□ 071C32	
	151	23	4.0	9.333	GFL04 - 2M□□□ 071C32	
	138	25	4.5	10.238	GFL04 - 2M□□□ 071C32	
	123	28	4.0	11.491	GFL04 - 2M□□□ 071C32	
	110	31	4.0	12.800	GFL04 - 2M□□□ 071C32	
	96	36	4.5	14.706	GFL04 - 2M□□□ 071C32	

Thermal power limit not considered (see page 2-4)

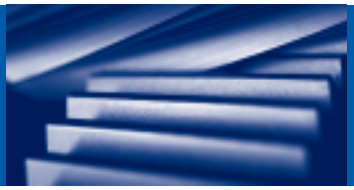


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GFL □□ - 2M**	4-84
n1=1410	89	39	4.0	15.904	GFL05 - 2M□□□ 071C32	
	79	44	3.8	17.920	GFL04 - 2M□□□ 071C32	
	69	50	3.7	20.519	GFL04 - 2M□□□ 071C32	
	62	56	3.0	22.857	GFL04 - 2M□□□ 071C32	
	56	61	3.0	25.136	GFL04 - 2M□□□ 071C32	
	50	68	2.5	28.000	GFL04 - 2M□□□ 071C32	
	45	77	2.4	31.600	GFL04 - 2M□□□ 071C32	
	40	86	2.0	35.200	GFL04 - 2M□□□ 071C32	
	35	99	1.9	40.697	GFL04 - 2M□□□ 071C32	
	35	98	3.2	40.233	GFL05 - 2M□□□ 071C32	
	31	110	1.6	45.333	GFL04 - 2M□□□ 071C32	
	31	110	2.9	45.333	GFL05 - 2M□□□ 071C32	
	27	125	1.5	51.579	GFL04 - 2M□□□ 071C32	
	27	127	2.4	52.067	GFL05 - 2M□□□ 071C32	
	27	128	3.2	52.800	GFL06 - 2M□□□ 071C32	
	25	140	1.2	57.455	GFL04 - 2M□□□ 071C32	
	24	143	2.3	58.667	GFL05 - 2M□□□ 071C32	
	24	145	3.2	59.481	GFL06 - 2M□□□ 071C32	
	22	157	1.0	64.636	GFL04 - 2M□□□ 071C32	
	22	154	1.8	63.190	GFL05 - 2M□□□ 071C32	
	22	156	2.8	64.080	GFL06 - 2M□□□ 071C32	
	20	175	1.0	72.000	GFL04 - 2M□□□ 071C32	
	20	173	1.8	71.200	GFL05 - 2M□□□ 071C32	
	20	176	2.8	72.189	GFL06 - 2M□□□ 071C32	
	18	196	1.1	80.763	GFL05 - 2M□□□ 071C32	
	17	197	2.2	81.000	GFL06 - 2M□□□ 071C32	
	16	221	1.1	91.000	GFL05 - 2M□□□ 071C32	
	16	222	2.1	91.250	GFL06 - 2M□□□ 071C32	
n1=900	15	224	1.4	58.667	GFL05 - 2M□□□ 080-13	
	15	227	2.7	59.481	GFL06 - 2M□□□ 080-13	
	14	241	1.2	63.190	GFL05 - 2M□□□ 080-13	
	14	244	2.4	64.080	GFL06 - 2M□□□ 080-13	
	13	271	1.1	71.200	GFL05 - 2M□□□ 080-13	
	13	275	2.2	72.189	GFL06 - 2M□□□ 080-13	
	11	309	1.4	81.000	GFL06 - 2M□□□ 080-13	
	11	304	2.6	79.875	GFL07 - 2M□□□ 080-13	
	9.9	348	1.4	91.250	GFL06 - 2M□□□ 080-13	
	10.0	343	2.6	90.000	GFL07 - 2M□□□ 080-13	
					GFL □□ - 3M	4-100
n1=1410	15	221	4.3	92.413	GFL07 - 3M□□□ 071C32	
	14	243	1.3	101.547	GFL05 - 3M□□□ 071C32	
	14	238	2.3	99.361	GFL06 - 3M□□□ 071C32	
	12	275	1.2	114.952	GFL05 - 3M□□□ 071C32	
	12	279	1.9	116.571	GFL06 - 3M□□□ 071C32	
	11	310	1.1	129.524	GFL05 - 3M□□□ 071C32	
	11	315	1.9	131.323	GFL06 - 3M□□□ 071C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GFL □□ - 3M**	4-100
n1=1410	10	337	1.0	140.817	GFL05 - 3M□□□ 071C32	
	9.8	346	1.6	144.320	GFL06 - 3M□□□ 071C32	
	9.6	353	3.2	147.347	GFL07 - 3M□□□ 071C32	
	8.9	380	0.9	158.667	GFL05 - 3M□□□ 071C32	
	8.7	389	1.6	162.583	GFL06 - 3M□□□ 071C32	
	8.5	398	3.1	166.025	GFL07 - 3M□□□ 071C32	
	8.0	424	0.8	177.027	GFL05 - 3M□□□ 071C32	
	7.9	430	1.4	179.520	GFL06 - 3M□□□ 071C32	
	7.7	439	2.8	183.285	GFL07 - 3M□□□ 071C32	
	7.0	484	1.3	202.237	GFL06 - 3M□□□ 071C32	
	6.8	495	2.5	206.519	GFL07 - 3M□□□ 071C32	
	6.1	554	1.1	231.200	GFL06 - 3M□□□ 071C32	
	6.3	538	2.5	224.636	GFL07 - 3M□□□ 071C32	
	5.4	624	1.0	260.457	GFL06 - 3M□□□ 071C32	
	5.6	606	2.1	253.111	GFL07 - 3M□□□ 071C32	
	4.8	702	0.9	293.018	GFL06 - 3M□□□ 071C32	
	4.9	696	2.0	290.706	GFL07 - 3M□□□ 071C32	
	4.9	697	3.2	290.889	GFL09 - 3M□□□ 071C32	
	4.7	717	0.9	299.200	GFL06 - 3M□□□ 071C32	
	4.3	784	1.6	327.556	GFL07 - 3M□□□ 071C32	
	4.3	785	3.2	327.827	GFL09 - 3M□□□ 071C32	
	4.0	845	1.6	352.811	GFL07 - 3M□□□ 071C32	
	4.0	845	2.8	353.033	GFL09 - 3M□□□ 071C32	
	3.6	952	1.3	397.533	GFL07 - 3M□□□ 071C32	
	3.5	953	2.8	397.863	GFL09 - 3M□□□ 071C32	
	3.3	1030	1.2	430.222	GFL07 - 3M□□□ 071C32	
	3.3	1016	2.7	424.247	GFL09 - 3M□□□ 071C32	
	2.7	1250	1.0	522.133	GFL07 - 3M□□□ 071C32	
	2.7	1233	2.2	514.881	GFL09 - 3M□□□ 071C32	
	2.5	1347	0.8	562.391	GFL07 - 3M□□□ 071C32	
	2.5	1328	1.6	554.470	GFL09 - 3M□□□ 071C32	
	2.2	1518	0.8	633.680	GFL07 - 3M□□□ 071C32	
	2.3	1496	1.5	624.879	GFL09 - 3M□□□ 071C32	
	2.0	1678	1.3	700.875	GFL09 - 3M□□□ 071C32	
	1.8	1892	1.2	789.875	GFL09 - 3M□□□ 071C32	
n1=900	1.8	1932	1.4	514.881	GFL09 - 3M□□□ 080-13	
	1.7	1959	3.0	522.133	GFL11 - 3M□□□ 080-13	
	1.6	2080	1.0	554.470	GFL09 - 3M□□□ 080-13	
	1.6	2110	2.5	562.391	GFL11 - 3M□□□ 080-13	
	1.4	2344	1.0	624.879	GFL09 - 3M□□□ 080-13	
	1.4	2377	2.5	633.680	GFL11 - 3M□□□ 080-13	
	1.3	2630	0.8	700.875	GFL09 - 3M□□□ 080-13	
	1.3	2667	2.0	710.888	GFL11 - 3M□□□ 080-13	
	1.1	3005	1.9	801.000	GFL11 - 3M□□□ 080-13	
0.55 kW					**GFL □□ - 2M**	4-84
n1=2840	776	7	4.3	3.659	GFL04 - 2M□□□ 071-31	
	566	9	4.3	5.018	GFL04 - 2M□□□ 071-31	

Thermal power limit not considered (see page 2-4)

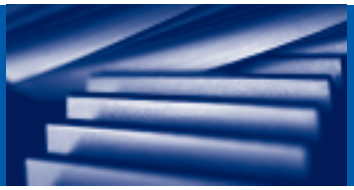


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GFL □□ - 2M**	**4-84**
n1=2840	487	11	4.3	5.833	GFL04 - 2M□□□ 071-31	
	444	12	4.3	6.400	GFL05 - 2M□□□ 071-31	
	404	13	5.0	7.025	GFL04 - 2M□□□ 071-31	
	339	15	4.3	8.379	GFL04 - 2M□□□ 071-31	
	304	17	4.3	9.333	GFL04 - 2M□□□ 071-31	
	277	18	5.0	10.238	GFL04 - 2M□□□ 071-31	
	247	21	4.3	11.491	GFL04 - 2M□□□ 071-31	
	222	23	4.3	12.800	GFL04 - 2M□□□ 071-31	
	193	26	5.0	14.706	GFL04 - 2M□□□ 071-31	
	179	29	4.3	15.904	GFL05 - 2M□□□ 071-31	
	159	32	4.2	17.920	GFL04 - 2M□□□ 071-31	
	138	37	4.0	20.519	GFL04 - 2M□□□ 071-31	
	124	41	3.3	22.857	GFL04 - 2M□□□ 071-31	
	113	45	3.7	25.136	GFL04 - 2M□□□ 071-31	
	101	50	3.1	28.000	GFL04 - 2M□□□ 071-31	
	90	57	3.0	31.600	GFL04 - 2M□□□ 071-31	
	81	63	2.5	35.200	GFL04 - 2M□□□ 071-31	
	70	73	2.4	40.697	GFL04 - 2M□□□ 071-31	
	63	81	1.9	45.333	GFL04 - 2M□□□ 071-31	
	55 55	93 93	1.9 3.0	51.579 52.067	GFL04 - 2M□□□ 071-31 GFL05 - 2M□□□ 071-31	
	49 48	103 105	1.6 2.8	57.455 58.667	GFL04 - 2M□□□ 071-31 GFL05 - 2M□□□ 071-31	
	44 45	116 113	1.3 2.3	64.636 63.190	GFL04 - 2M□□□ 071-31 GFL05 - 2M□□□ 071-31	
	39 40	129 128	1.4 2.4	72.000 71.200	GFL04 - 2M□□□ 071-31 GFL05 - 2M□□□ 071-31	
	35 35	145 145	1.5 3.0	80.763 81.000	GFL05 - 2M□□□ 071-31 GFL06 - 2M□□□ 071-31	
	31 31	163 164	1.4 2.9	91.000 91.250	GFL05 - 2M□□□ 071-31 GFL06 - 2M□□□ 071-31	
n1=1405	384	13	4.5	3.659	GFL04 - 2M□□□ 071C42	
	280	18	4.5	5.018	GFL04 - 2M□□□ 071C42	
	241	21	4.5	5.833	GFL04 - 2M□□□ 071C42	
	219	23	4.2	6.422	GFL04 - 2M□□□ 071C42	
	200	26	4.2	7.025	GFL04 - 2M□□□ 071C42	
	168	30	4.5	8.379	GFL04 - 2M□□□ 071C42	
	156	33	4.5	9.010	GFL05 - 2M□□□ 071C42	
	137	37	4.2	10.238	GFL04 - 2M□□□ 071C42	
	122	42	4.3	11.491	GFL04 - 2M□□□ 071C42	
	110	46	3.6	12.800	GFL04 - 2M□□□ 071C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Shaft-mounted helical geared motor	Dimensions Page
0.55 kW					**GFL □□ - 2M**	4-84
n1=1405	96	53	3.4	14.706	GFL04 - 2M□□□ 071C42	
	87	58	3.1	16.087	GFL04 - 2M□□□ 071C42	
	78	65	2.6	17.920	GFL04 - 2M□□□ 071C42	
	69	74	2.5	20.519	GFL04 - 2M□□□ 071C42	
	62	83	2.0	22.857	GFL04 - 2M□□□ 071C42	
	56	91	2.0	25.136	GFL04 - 2M□□□ 071C42	
	50	102	1.7	28.000	GFL04 - 2M□□□ 071C42	
	50	102	3.1	28.000	GFL05 - 2M□□□ 071C42	
	45	115	1.6	31.600	GFL04 - 2M□□□ 071C42	
	43	117	2.9	32.344	GFL05 - 2M□□□ 071C42	
	40	128	1.3	35.200	GFL04 - 2M□□□ 071C42	
	39	132	2.4	36.444	GFL05 - 2M□□□ 071C42	
	35	148	1.3	40.697	GFL04 - 2M□□□ 071C42	
	35	146	2.4	40.233	GFL05 - 2M□□□ 071C42	
	34	148	3.2	40.800	GFL06 - 2M□□□ 071C42	
	31	164	1.0	45.333	GFL04 - 2M□□□ 071C42	
	31	164	1.9	45.333	GFL05 - 2M□□□ 071C42	
	31	167	3.2	45.963	GFL06 - 2M□□□ 071C42	
	27	189	1.6	52.067	GFL05 - 2M□□□ 071C42	
	27	192	2.9	52.800	GFL06 - 2M□□□ 071C42	
	24	213	1.5	58.667	GFL05 - 2M□□□ 071C42	
	24	216	2.9	59.481	GFL06 - 2M□□□ 071C42	
	22	229	1.2	63.190	GFL05 - 2M□□□ 071C42	
	22	232	2.4	64.080	GFL06 - 2M□□□ 071C42	
	20	258	1.2	71.200	GFL05 - 2M□□□ 071C42	
	20	262	2.4	72.189	GFL06 - 2M□□□ 071C42	
	17	294	1.4	81.000	GFL06 - 2M□□□ 071C42	
	15	331	1.4	91.250	GFL06 - 2M□□□ 071C42	
n1=900	15	332	1.0	58.667	GFL05 - 2M□□□ 080-33	
	15	337	1.8	59.481	GFL06 - 2M□□□ 080-33	
	15	332	2.5	58.667	GFL07 - 2M□□□ 080-33	
	14	363	1.6	64.080	GFL06 - 2M□□□ 080-33	
	14	358	2.2	63.190	GFL07 - 2M□□□ 080-33	
	13	409	1.5	72.189	GFL06 - 2M□□□ 080-33	
	13	403	2.2	71.200	GFL07 - 2M□□□ 080-33	
	11	459	0.9	81.000	GFL06 - 2M□□□ 080-33	
	11	452	1.8	79.875	GFL07 - 2M□□□ 080-33	
	9.9	517	0.9	91.250	GFL06 - 2M□□□ 080-33	
	10.0	510	1.8	90.000	GFL07 - 2M□□□ 080-33	
					GFL □□ - 3M	4-100
n1=1405	15	330	2.9	92.413	GFL07 - 3M□□□ 071C42	
	14	363	0.9	101.547	GFL05 - 3M□□□ 071C42	
	14	355	1.5	99.361	GFL06 - 3M□□□ 071C42	
	14	372	2.9	104.127	GFL07 - 3M□□□ 071C42	
	12	411	0.8	114.952	GFL05 - 3M□□□ 071C42	
	12	416	1.3	116.571	GFL06 - 3M□□□ 071C42	
	12	404	2.6	113.206	GFL07 - 3M□□□ 071C42	

Thermal power limit not considered (see page 2-4)

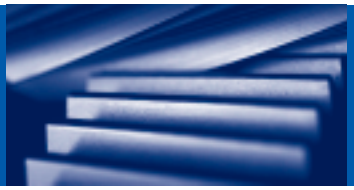


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GFL □□ - 3M**	4-100
n1=1405	11	469	1.3	131.323	GFL06 - 3M□□□ 071C42	
	11	456	2.6	127.556	GFL07 - 3M□□□ 071C42	
	9.7	516	1.1	144.320	GFL06 - 3M□□□ 071C42	
	9.5	526	2.2	147.347	GFL07 - 3M□□□ 071C42	
	8.6	581	1.1	162.583	GFL06 - 3M□□□ 071C42	
	8.5	593	2.1	166.025	GFL07 - 3M□□□ 071C42	
	7.8	641	0.9	179.520	GFL06 - 3M□□□ 071C42	
	7.7	655	1.9	183.285	GFL07 - 3M□□□ 071C42	
	7.6	661	3.2	185.111	GFL09 - 3M□□□ 071C42	
	7.0	723	0.8	202.237	GFL06 - 3M□□□ 071C42	
	6.8	738	1.7	206.519	GFL07 - 3M□□□ 071C42	
	6.7	745	3.2	208.617	GFL09 - 3M□□□ 071C42	
	6.3	803	1.7	224.636	GFL07 - 3M□□□ 071C42	
	6.3	803	3.0	224.778	GFL09 - 3M□□□ 071C42	
	5.6	904	1.4	253.111	GFL07 - 3M□□□ 071C42	
	5.6	905	3.0	253.321	GFL09 - 3M□□□ 071C42	
	4.8	1039	1.3	290.706	GFL07 - 3M□□□ 071C42	
	4.8	1039	2.5	290.889	GFL09 - 3M□□□ 071C42	
	4.3	1170	1.1	327.556	GFL07 - 3M□□□ 071C42	
	4.3	1171	2.5	327.827	GFL09 - 3M□□□ 071C42	
	4.0	1260	1.1	352.811	GFL07 - 3M□□□ 071C42	
	4.0	1261	2.2	353.033	GFL09 - 3M□□□ 071C42	
	3.5	1420	0.9	397.533	GFL07 - 3M□□□ 071C42	
	3.5	1421	2.2	397.863	GFL09 - 3M□□□ 071C42	
	3.3	1537	0.8	430.222	GFL07 - 3M□□□ 071C42	
	3.3	1516	1.8	424.247	GFL09 - 3M□□□ 071C42	
	2.7	1839	1.5	514.881	GFL09 - 3M□□□ 071C42	
	2.5	1981	1.1	554.470	GFL09 - 3M□□□ 071C42	
	2.3	2232	1.0	624.879	GFL09 - 3M□□□ 071C42	
	2.0	2504	0.8	700.875	GFL09 - 3M□□□ 071C42	
	1.8	2822	0.8	789.875	GFL09 - 3M□□□ 071C42	
n1=900	1.8	2872	0.9	514.881	GFL09 - 3M□□□ 080-33	
	1.7	2912	2.0	522.133	GFL11 - 3M□□□ 080-33	
	1.6	3137	1.7	562.391	GFL11 - 3M□□□ 080-33	
	1.4	3534	1.7	633.680	GFL11 - 3M□□□ 080-33	
	1.3	3965	1.3	710.888	GFL11 - 3M□□□ 080-33	
	1.1	4467	1.3	801.000	GFL11 - 3M□□□ 080-33	
0.75 kW					**GFL □□ - 2M**	4-84
n1=2850	444	16	5.8	6.422	GFL04 - 2M□□□ 080-11	
	406	17	5.3	7.025	GFL04 - 2M□□□ 080-11	
	305	23	5.9	9.333	GFL04 - 2M□□□ 080-11	
	278	25	5.2	10.238	GFL04 - 2M□□□ 080-11	
	248	28	5.2	11.491	GFL04 - 2M□□□ 080-11	
	223	31	4.3	12.800	GFL04 - 2M□□□ 080-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GFL □□ - 2M**	**4-84**
n1=2850	194	36	4.1	14.706	GFL04 - 2M□□□ 080-11	
	177	39	3.7	16.087	GFL04 - 2M□□□ 080-11	
	159	44	3.1	17.920	GFL04 - 2M□□□ 080-11	
	139	50	3.0	20.519	GFL04 - 2M□□□ 080-11	
	125	56	2.4	22.857	GFL04 - 2M□□□ 080-11	
	113	61	2.7	25.136	GFL04 - 2M□□□ 080-11	
	102	68	2.3	28.000	GFL04 - 2M□□□ 080-11	
	90	77	2.2	31.600	GFL04 - 2M□□□ 080-11	
	81	86	1.8	35.200	GFL04 - 2M□□□ 080-11	
	70 71	99 98	1.7 3.2	40.697 40.233	GFL04 - 2M□□□ 080-11 GFL05 - 2M□□□ 080-11	
	63 63	111 111	1.4 2.6	45.333 45.333	GFL04 - 2M□□□ 080-11 GFL05 - 2M□□□ 080-11	
	55	127	2.2	52.067	GFL05 - 2M□□□ 080-11	
	49	143	2.1	58.667	GFL05 - 2M□□□ 080-11	
	45	154	1.7	63.190	GFL05 - 2M□□□ 080-11	
	40	174	1.8	71.200	GFL05 - 2M□□□ 080-11	
	35	198	2.2	81.000	GFL06 - 2M□□□ 080-11	
	31	223	2.1	91.250	GFL06 - 2M□□□ 080-11	
n1=1410	385	18	4.2	3.659	GFL04 - 2M□□□ 080C32	
	281	25	4.2	5.018	GFL04 - 2M□□□ 080C32	
	242	29	4.2	5.833	GFL04 - 2M□□□ 080C32	
	220	32	3.6	6.422	GFL04 - 2M□□□ 080C32	
	201	35	3.3	7.025	GFL04 - 2M□□□ 080C32	
	168	41	4.2	8.379	GFL04 - 2M□□□ 080C32	
	151	46	3.6	9.333	GFL04 - 2M□□□ 080C32	
	138	51	3.2	10.238	GFL04 - 2M□□□ 080C32	
	123	57	3.2	11.491	GFL04 - 2M□□□ 080C32	
	110	63	2.6	12.800	GFL04 - 2M□□□ 080C32	
	96	73	2.5	14.706	GFL04 - 2M□□□ 080C32	
	88	79	2.3	16.087	GFL04 - 2M□□□ 080C32	
	79	88	1.9	17.920	GFL04 - 2M□□□ 080C32	
	69	101	1.8	20.519	GFL04 - 2M□□□ 080C32	
	62 62	113 113	1.5 2.8	22.857 22.857	GFL04 - 2M□□□ 080C32 GFL05 - 2M□□□ 080C32	
	56 57	124 123	1.5 2.8	25.136 24.850	GFL04 - 2M□□□ 080C32 GFL05 - 2M□□□ 080C32	
	50 50	138 138	1.2 2.3	28.000 28.000	GFL04 - 2M□□□ 080C32 GFL05 - 2M□□□ 080C32	

Thermal power limit not considered (see page 2-4)

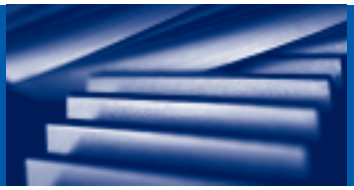


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GFL □□ - 2M**	4-84
n1=1410	45	156	1.2	31.600	GFL04 - 2M□□□ 080C32	
	44	159	2.2	32.344	GFL05 - 2M□□□ 080C32	
	40	174	1.0	35.200	GFL04 - 2M□□□ 080C32	
	39	180	1.8	36.444	GFL05 - 2M□□□ 080C32	
	35	201	0.9	40.697	GFL04 - 2M□□□ 080C32	
	35	198	1.7	40.233	GFL05 - 2M□□□ 080C32	
	35	201	2.9	40.800	GFL06 - 2M□□□ 080C32	
	31	223	1.4	45.333	GFL05 - 2M□□□ 080C32	
	31	227	2.7	45.963	GFL06 - 2M□□□ 080C32	
	27	257	1.2	52.067	GFL05 - 2M□□□ 080C32	
	27	260	2.5	52.800	GFL06 - 2M□□□ 080C32	
	27	257	2.9	52.067	GFL07 - 2M□□□ 080C32	
	24	289	1.1	58.667	GFL05 - 2M□□□ 080C32	
	24	293	2.1	59.481	GFL06 - 2M□□□ 080C32	
	24	289	2.9	58.667	GFL07 - 2M□□□ 080C32	
	22	311	0.9	63.190	GFL05 - 2M□□□ 080C32	
	22	316	1.8	64.080	GFL06 - 2M□□□ 080C32	
	22	311	2.5	63.190	GFL07 - 2M□□□ 080C32	
	20	351	0.9	71.200	GFL05 - 2M□□□ 080C32	
	20	356	1.7	72.189	GFL06 - 2M□□□ 080C32	
	20	351	2.5	71.200	GFL07 - 2M□□□ 080C32	
	17	399	1.1	81.000	GFL06 - 2M□□□ 080C32	
	18	394	2.0	79.875	GFL07 - 2M□□□ 080C32	
	16	450	1.1	91.250	GFL06 - 2M□□□ 080C32	
	16	444	2.0	90.000	GFL07 - 2M□□□ 080C32	
					GFL □□ - 3M	4-100
	15	449	2.1	92.413	GFL07 - 3M□□□ 080C32	
	14	482	1.1	99.361	GFL06 - 3M□□□ 080C32	
	14	506	2.1	104.127	GFL07 - 3M□□□ 080C32	
	12	566	0.9	116.571	GFL06 - 3M□□□ 080C32	
	13	550	1.9	113.206	GFL07 - 3M□□□ 080C32	
	11	638	0.9	131.323	GFL06 - 3M□□□ 080C32	
	11	619	1.9	127.556	GFL07 - 3M□□□ 080C32	
	9.6	715	1.6	147.347	GFL07 - 3M□□□ 080C32	
	9.5	722	2.8	148.815	GFL09 - 3M□□□ 080C32	
	8.5	806	1.5	166.025	GFL07 - 3M□□□ 080C32	
	8.4	814	2.8	167.712	GFL09 - 3M□□□ 080C32	
	7.7	890	1.4	183.285	GFL07 - 3M□□□ 080C32	
	7.6	899	2.5	185.111	GFL09 - 3M□□□ 080C32	
	6.8	1003	1.2	206.519	GFL07 - 3M□□□ 080C32	
	6.8	1013	2.5	208.617	GFL09 - 3M□□□ 080C32	
	6.3	1090	1.2	224.636	GFL07 - 3M□□□ 080C32	
	6.3	1091	2.2	224.778	GFL09 - 3M□□□ 080C32	
	5.6	1229	1.0	253.111	GFL07 - 3M□□□ 080C32	
	5.6	1230	2.2	253.321	GFL09 - 3M□□□ 080C32	
	4.9	1411	1.0	290.706	GFL07 - 3M□□□ 080C32	
	4.9	1412	1.9	290.889	GFL09 - 3M□□□ 080C32	
	4.3	1591	1.9	327.827	GFL09 - 3M□□□ 080C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GFL □□ - 3M**	4-100
n1=1410	4.0	1713	0.8	352.811	GFL07 - 3M□□□ 080C32	
	4.0	1714	1.6	353.033	GFL09 - 3M□□□ 080C32	
	3.9	1738	2.5	358.077	GFL11 - 3M□□□ 080C32	
	3.5	1931	1.6	397.863	GFL09 - 3M□□□ 080C32	
	3.5	1959	2.5	403.467	GFL11 - 3M□□□ 080C32	
	3.3	2059	1.3	424.247	GFL09 - 3M□□□ 080C32	
	3.3	2088	2.8	430.222	GFL11 - 3M□□□ 080C32	
	2.7	2499	1.1	514.881	GFL09 - 3M□□□ 080C32	
	2.7	2535	2.3	522.133	GFL11 - 3M□□□ 080C32	
	2.5	2730	1.9	562.391	GFL11 - 3M□□□ 080C32	
	2.2	3076	1.9	633.680	GFL11 - 3M□□□ 080C32	
	2.0	3451	1.5	710.888	GFL11 - 3M□□□ 080C32	
	1.8	3888	1.5	801.000	GFL11 - 3M□□□ 080C32	
1.1 kW					**GFL □□ - 2M**	4-84
n1=2810	768	13	4.6	3.659	GFL04 - 2M□□□ 080-31	
	560	18	4.6	5.018	GFL04 - 2M□□□ 080-31	
	482	21	4.6	5.833	GFL04 - 2M□□□ 080-31	
	438	23	3.9	6.422	GFL04 - 2M□□□ 080-31	
	400	26	3.6	7.025	GFL04 - 2M□□□ 080-31	
	335	30	4.6	8.379	GFL04 - 2M□□□ 080-31	
	301	34	4.0	9.333	GFL04 - 2M□□□ 080-31	
	275	37	3.5	10.238	GFL04 - 2M□□□ 080-31	
	245	42	3.5	11.491	GFL04 - 2M□□□ 080-31	
	220	46	2.9	12.800	GFL04 - 2M□□□ 080-31	
	191	53	2.8	14.706	GFL04 - 2M□□□ 080-31	
	175	58	2.5	16.087	GFL04 - 2M□□□ 080-31	
	157	65	2.1	17.920	GFL04 - 2M□□□ 080-31	
	137	74	2.0	20.519	GFL04 - 2M□□□ 080-31	
	123	83	1.6	22.857	GFL04 - 2M□□□ 080-31	
	123	83	3.1	22.857	GFL05 - 2M□□□ 080-31	
	112	91	1.9	25.136	GFL04 - 2M□□□ 080-31	
	100	102	1.5	28.000	GFL04 - 2M□□□ 080-31	
	100	102	2.9	28.000	GFL05 - 2M□□□ 080-31	
	89	115	1.5	31.600	GFL04 - 2M□□□ 080-31	
	87	117	2.7	32.344	GFL05 - 2M□□□ 080-31	
	80	128	1.2	35.200	GFL04 - 2M□□□ 080-31	
	77	132	2.2	36.444	GFL05 - 2M□□□ 080-31	
	69	148	1.2	40.697	GFL04 - 2M□□□ 080-31	
	70	146	2.2	40.233	GFL05 - 2M□□□ 080-31	
	62	164	1.0	45.333	GFL04 - 2M□□□ 080-31	
	62	164	1.8	45.333	GFL05 - 2M□□□ 080-31	
	54	189	1.5	52.067	GFL05 - 2M□□□ 080-31	
	53	192	3.2	52.800	GFL06 - 2M□□□ 080-31	

Thermal power limit not considered (see page 2-4)

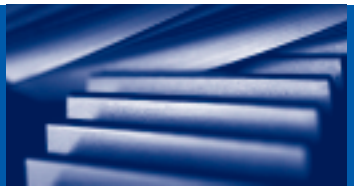


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GFL □□ - 2M**	**4-84**
n1=2810	48	213	1.4	58.667	GFL05 - 2M□□□ 080-31	
	47	216	2.6	59.481	GFL06 - 2M□□□ 080-31	
	45	229	1.1	63.190	GFL05 - 2M□□□ 080-31	
	44	232	2.3	64.080	GFL06 - 2M□□□ 080-31	
	45	229	3.2	63.190	GFL07 - 2M□□□ 080-31	
	40	258	1.2	71.200	GFL05 - 2M□□□ 080-31	
	39	262	2.4	72.189	GFL06 - 2M□□□ 080-31	
	35	294	1.5	81.000	GFL06 - 2M□□□ 080-31	
	35	290	2.7	79.875	GFL07 - 2M□□□ 080-31	
	31	331	1.4	91.250	GFL06 - 2M□□□ 080-31	
	31	326	2.7	90.000	GFL07 - 2M□□□ 080-31	
n1=1390	380	27	4.1	3.659	GFL04 - 2M□□□ 080C42	
	304	34	4.5	4.571	GFL05 - 2M□□□ 080C42	
	277	37	3.0	5.018	GFL04 - 2M□□□ 080C42	
	238	43	3.6	5.833	GFL04 - 2M□□□ 080C42	
	216	47	2.4	6.422	GFL04 - 2M□□□ 080C42	
	198	52	2.2	7.025	GFL04 - 2M□□□ 080C42	
	166	61	2.9	8.379	GFL04 - 2M□□□ 080C42	
	149	68	2.4	9.333	GFL04 - 2M□□□ 080C42	
	136	75	2.1	10.238	GFL04 - 2M□□□ 080C42	
	121	84	2.1	11.491	GFL04 - 2M□□□ 080C42	
	109	94	1.8	12.800	GFL04 - 2M□□□ 080C42	
	109	94	3.0	12.800	GFL05 - 2M□□□ 080C42	
	95	108	1.7	14.706	GFL04 - 2M□□□ 080C42	
	96	107	2.8	14.538	GFL05 - 2M□□□ 080C42	
	86	118	1.5	16.087	GFL04 - 2M□□□ 080C42	
	87	117	2.7	15.904	GFL05 - 2M□□□ 080C42	
	78	131	1.3	17.920	GFL04 - 2M□□□ 080C42	
	78	131	2.4	17.920	GFL05 - 2M□□□ 080C42	
	68	150	1.2	20.519	GFL04 - 2M□□□ 080C42	
	69	149	2.2	20.286	GFL05 - 2M□□□ 080C42	
	61	168	1.0	22.857	GFL04 - 2M□□□ 080C42	
	61	168	1.9	22.857	GFL05 - 2M□□□ 080C42	
	55	184	1.0	25.136	GFL04 - 2M□□□ 080C42	
	56	182	1.9	24.850	GFL05 - 2M□□□ 080C42	
	50	205	0.8	28.000	GFL04 - 2M□□□ 080C42	
	50	205	1.5	28.000	GFL05 - 2M□□□ 080C42	
	49	208	2.9	28.389	GFL06 - 2M□□□ 080C42	
	43	237	1.5	32.344	GFL05 - 2M□□□ 080C42	
	42	241	2.7	32.800	GFL06 - 2M□□□ 080C42	
	38	267	1.2	36.444	GFL05 - 2M□□□ 080C42	
	38	271	2.3	36.951	GFL06 - 2M□□□ 080C42	
	35	295	1.2	40.233	GFL05 - 2M□□□ 080C42	
	34	299	2.2	40.800	GFL06 - 2M□□□ 080C42	
	35	291	3.1	39.642	GFL07 - 2M□□□ 080C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GFL □□ - 2M**	**4-84**
n1=1390	31	332	1.0	45.333	GFL05 - 2M□□□ 080C42	
	30	337	1.8	45.963	GFL06 - 2M□□□ 080C42	
	31	328	3.1	44.667	GFL07 - 2M□□□ 080C42	
	26	387	1.7	52.800	GFL06 - 2M□□□ 080C42	
	27	382	2.9	52.067	GFL07 - 2M□□□ 080C42	
	23	436	1.4	59.481	GFL06 - 2M□□□ 080C42	
	24	430	2.9	58.667	GFL07 - 2M□□□ 080C42	
	22	470	1.2	64.080	GFL06 - 2M□□□ 080C42	
	22	463	2.3	63.190	GFL07 - 2M□□□ 080C42	
	19	529	1.2	72.189	GFL06 - 2M□□□ 080C42	
	20	522	2.3	71.200	GFL07 - 2M□□□ 080C42	
	17	586	1.4	79.875	GFL07 - 2M□□□ 080C42	
	15	660	1.4	90.000	GFL07 - 2M□□□ 080C42	
					GFL □□ - 3M	**4-100**
	15	667	1.4	92.413	GFL07 - 3M□□□ 080C42	
	15	674	2.5	93.333	GFL09 - 3M□□□ 080C42	
	13	752	1.4	104.127	GFL07 - 3M□□□ 080C42	
	13	760	2.5	105.185	GFL09 - 3M□□□ 080C42	
	12	818	1.3	113.206	GFL07 - 3M□□□ 080C42	
	12	826	2.2	114.333	GFL09 - 3M□□□ 080C42	
	11	921	1.3	127.556	GFL07 - 3M□□□ 080C42	
	11	931	2.2	128.852	GFL09 - 3M□□□ 080C42	
	9.4	1064	1.1	147.347	GFL07 - 3M□□□ 080C42	
	9.3	1075	1.9	148.815	GFL09 - 3M□□□ 080C42	
	8.4	1199	1.0	166.025	GFL07 - 3M□□□ 080C42	
	8.3	1211	1.9	167.712	GFL09 - 3M□□□ 080C42	
	7.6	1324	0.9	183.285	GFL07 - 3M□□□ 080C42	
	7.5	1337	1.7	185.111	GFL09 - 3M□□□ 080C42	
	7.6	1320	3.1	182.792	GFL11 - 3M□□□ 080C42	
	6.7	1492	0.8	206.519	GFL07 - 3M□□□ 080C42	
	6.7	1507	1.7	208.617	GFL09 - 3M□□□ 080C42	
	6.8	1488	3.1	205.963	GFL11 - 3M□□□ 080C42	
	6.2	1622	0.8	224.636	GFL07 - 3M□□□ 080C42	
	6.2	1623	1.5	224.778	GFL09 - 3M□□□ 080C42	
	6.2	1622	2.8	224.636	GFL11 - 3M□□□ 080C42	
	5.5	1830	1.5	253.321	GFL09 - 3M□□□ 080C42	
	5.5	1828	2.8	253.111	GFL11 - 3M□□□ 080C42	
	4.8	2101	1.3	290.889	GFL09 - 3M□□□ 080C42	
	5.2	1930	2.6	267.259	GFL11 - 3M□□□ 080C42	
	4.2	2368	1.3	327.827	GFL09 - 3M□□□ 080C42	
	4.2	2366	2.3	327.556	GFL11 - 3M□□□ 080C42	
	3.9	2550	1.1	353.033	GFL09 - 3M□□□ 080C42	
	3.9	2586	2.0	358.077	GFL11 - 3M□□□ 080C42	
	3.5	2873	1.1	397.863	GFL09 - 3M□□□ 080C42	
	3.5	2914	2.0	403.467	GFL11 - 3M□□□ 080C42	
	3.3	3064	0.9	424.247	GFL09 - 3M□□□ 080C42	
	3.2	3107	1.9	430.222	GFL11 - 3M□□□ 080C42	
	2.7	3771	1.6	522.133	GFL11 - 3M□□□ 080C42	

Thermal power limit not considered (see page 2-4)



P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GFL □□ - 3M**	**4-100**
n1=1390	2.5	4062	1.3	562.391	GFL11 - 3M□□□ 080C42	
	2.2	4576	1.3	633.680	GFL11 - 3M□□□ 080C42	
	2.0	5134	1.0	710.888	GFL11 - 3M□□□ 080C42	
	1.7	5785	1.0	801.000	GFL11 - 3M□□□ 080C42	
1.5 kW					**GFL □□ - 2M**	**4-84**
n1=2840	776	18	4.9	3.659	* GFL04 - 2M□□□ 090-11	
	566	25	3.7	5.018	* GFL04 - 2M□□□ 090-11	
	487	29	4.3	5.833	* GFL04 - 2M□□□ 090-11	
	442	31	2.9	6.422	* GFL04 - 2M□□□ 090-11	
	404	34	2.7	7.025	* GFL04 - 2M□□□ 090-11	
	339	41	3.5	8.379	* GFL04 - 2M□□□ 090-11	
	304	46	2.9	9.333	* GFL04 - 2M□□□ 090-11	
	277	50	2.6	10.238	* GFL04 - 2M□□□ 090-11	
	247	56	2.6	11.491	* GFL04 - 2M□□□ 090-11	
	222	63	2.1	12.800	* GFL04 - 2M□□□ 090-11	
	193	72	2.0	14.706	* GFL04 - 2M□□□ 090-11	
	177 179	79 78	1.9 3.2	16.087 15.904	* GFL04 - 2M□□□ 090-11 GFL05 - 2M□□□ 090-11	
	159 159	88 88	1.5 2.9	17.920 17.920	* GFL04 - 2M□□□ 090-11 GFL05 - 2M□□□ 090-11	
	138 140	100 99	1.5 2.7	20.519 20.286	* GFL04 - 2M□□□ 090-11 GFL05 - 2M□□□ 090-11	
	124 124	112 112	1.2 2.3	22.857 22.857	* GFL04 - 2M□□□ 090-11 GFL05 - 2M□□□ 090-11	
	113 114	123 122	1.4 2.6	25.136 24.850	* GFL04 - 2M□□□ 090-11 GFL05 - 2M□□□ 090-11	
	101 101	137 137	1.1 2.1	28.000 28.000	* GFL04 - 2M□□□ 090-11 GFL05 - 2M□□□ 090-11	
	88	158	2.0	32.344	GFL05 - 2M□□□ 090-11	
	78 77	178 181	1.6 3.1	36.444 36.951	GFL05 - 2M□□□ 090-11 GFL06 - 2M□□□ 090-11	
	71 70	197 200	1.6 3.0	40.233 40.800	GFL05 - 2M□□□ 090-11 GFL06 - 2M□□□ 090-11	
	63 62	222 225	1.3 2.5	45.333 45.963	GFL05 - 2M□□□ 090-11 GFL06 - 2M□□□ 090-11	
	54	258	2.3	52.800	GFL06 - 2M□□□ 090-11	
	48	291	1.9	59.481	GFL06 - 2M□□□ 090-11	
	44	314	1.7	64.080	GFL06 - 2M□□□ 090-11	
	39	353	1.7	72.189	GFL06 - 2M□□□ 090-11	
	36	391	2.2	79.875	GFL07 - 2M□□□ 090-11	
	32	440	2.1	90.000	GFL07 - 2M□□□ 090-11	

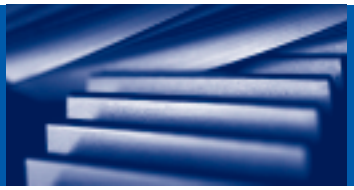
Thermal power limit not considered (see page 2-4)

* not possible with hollow shaft (H□□)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GFL □□ - 2M**	**4-84**
n1=1390	380	37	3.0	3.659	* GFL04 - 2M□□□ 090C32	
	304	46	3.7	4.571	GFL05 - 2M□□□ 090C32	
	277	50	2.2	5.018	* GFL04 - 2M□□□ 090C32	
	238	58	2.6	5.833	* GFL04 - 2M□□□ 090C32	
	216	64	1.8	6.422	* GFL04 - 2M□□□ 090C32	
	217	64	2.7	6.400	GFL05 - 2M□□□ 090C32	
	198	70	1.6	7.025	* GFL04 - 2M□□□ 090C32	
	166	84	2.1	8.379	* GFL04 - 2M□□□ 090C32	
	149	93	1.8	9.333	* GFL04 - 2M□□□ 090C32	
	154	90	2.9	9.010	GFL05 - 2M□□□ 090C32	
	136	102	1.6	10.238	* GFL04 - 2M□□□ 090C32	
	140	99	2.8	9.946	GFL05 - 2M□□□ 090C32	
	121	115	1.6	11.491	* GFL04 - 2M□□□ 090C32	
	122	114	2.5	11.360	GFL05 - 2M□□□ 090C32	
	109	128	1.3	12.800	* GFL04 - 2M□□□ 090C32	
	109	128	2.2	12.800	GFL05 - 2M□□□ 090C32	
	95	147	1.2	14.706	* GFL04 - 2M□□□ 090C32	
	96	145	2.1	14.538	GFL05 - 2M□□□ 090C32	
	86	161	1.1	16.087	* GFL04 - 2M□□□ 090C32	
	87	159	1.9	15.904	GFL05 - 2M□□□ 090C32	
	78	179	0.9	17.920	* GFL04 - 2M□□□ 090C32	
	78	179	1.7	17.920	GFL05 - 2M□□□ 090C32	
	68	205	0.9	20.519	* GFL04 - 2M□□□ 090C32	
	69	203	1.6	20.286	GFL05 - 2M□□□ 090C32	
	68	206	3.1	20.571	GFL06 - 2M□□□ 090C32	
	61	229	1.4	22.857	GFL05 - 2M□□□ 090C32	
	60	232	2.6	23.175	GFL06 - 2M□□□ 090C32	
	56	249	1.4	24.850	GFL05 - 2M□□□ 090C32	
	55	252	2.6	25.200	GFL06 - 2M□□□ 090C32	
	50	280	1.1	28.000	GFL05 - 2M□□□ 090C32	
	49	284	2.1	28.389	GFL06 - 2M□□□ 090C32	
	43	323	1.1	32.344	GFL05 - 2M□□□ 090C32	
	42	328	2.0	32.800	GFL06 - 2M□□□ 090C32	
	38	364	0.9	36.444	GFL05 - 2M□□□ 090C32	
	38	369	1.7	36.951	GFL06 - 2M□□□ 090C32	
	35	402	0.9	40.233	GFL05 - 2M□□□ 090C32	
	34	408	1.6	40.800	GFL06 - 2M□□□ 090C32	
	35	396	2.8	39.642	GFL07 - 2M□□□ 090C32	
	30	460	1.3	45.963	GFL06 - 2M□□□ 090C32	
	31	447	2.8	44.667	GFL07 - 2M□□□ 090C32	
	26	528	1.2	52.800	GFL06 - 2M□□□ 090C32	
	27	521	2.4	52.067	GFL07 - 2M□□□ 090C32	
	27	513	2.8	51.333	GFL09 - 2M□□□ 090C32	
	23	595	1.0	59.481	GFL06 - 2M□□□ 090C32	
	24	587	2.2	58.667	GFL07 - 2M□□□ 090C32	
	24	578	2.8	57.852	GFL09 - 2M□□□ 090C32	
	22	641	0.9	64.080	GFL06 - 2M□□□ 090C32	
	22	632	2.0	63.190	GFL07 - 2M□□□ 090C32	
	22	623	2.5	62.300	GFL09 - 2M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

* not possible with hollow shaft (H□□)



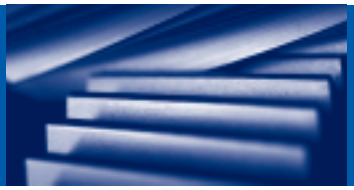
P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GFL □□ - 2M**	**4-84**
n1=1390	19	722	0.9	72.189	GFL06 - 2M□□□ 090C32	
	20	712	1.8	71.200	GFL07 - 2M□□□ 090C32	
	20	702	2.5	70.211	GFL09 - 2M□□□ 090C32	
	17	799	1.1	79.875	GFL07 - 2M□□□ 090C32	
	18	787	1.9	78.750	GFL09 - 2M□□□ 090C32	
	15	900	1.0	90.000	GFL07 - 2M□□□ 090C32	
	16	887	1.9	88.750	GFL09 - 2M□□□ 090C32	
					GFL □□ - 3M	**4-100**
	15	910	1.1	92.413	GFL07 - 3M□□□ 090C32	
	15	919	1.8	93.333	GFL09 - 3M□□□ 090C32	
	13	1026	1.1	104.127	GFL07 - 3M□□□ 090C32	
	13	1036	1.8	105.185	GFL09 - 3M□□□ 090C32	
	12	1115	0.9	113.206	GFL07 - 3M□□□ 090C32	
	12	1126	1.6	114.333	GFL09 - 3M□□□ 090C32	
	11	1256	0.9	127.556	GFL07 - 3M□□□ 090C32	
	11	1269	1.6	128.852	GFL09 - 3M□□□ 090C32	
	9.3	1466	1.4	148.815	GFL09 - 3M□□□ 090C32	
	9.3	1469	2.7	149.144	GFL11 - 3M□□□ 090C32	
	8.3	1652	1.4	167.712	GFL09 - 3M□□□ 090C32	
	8.3	1655	2.7	168.049	GFL11 - 3M□□□ 090C32	
	7.5	1823	1.2	185.111	GFL09 - 3M□□□ 090C32	
	7.6	1800	2.4	182.792	GFL11 - 3M□□□ 090C32	
	6.7	2055	1.2	208.617	GFL09 - 3M□□□ 090C32	
	6.8	2028	2.4	205.963	GFL11 - 3M□□□ 090C32	
	6.9	1990	2.8	202.074	GFL14 - 3M□□□ 090C32	
	6.2	2214	1.1	224.778	GFL09 - 3M□□□ 090C32	
	6.2	2212	2.0	224.636	GFL11 - 3M□□□ 090C32	
	5.5	2495	1.1	253.321	GFL09 - 3M□□□ 090C32	
	5.5	2493	2.0	253.111	GFL11 - 3M□□□ 090C32	
	4.8	2865	0.9	290.889	GFL09 - 3M□□□ 090C32	
	5.2	2632	1.9	267.259	GFL11 - 3M□□□ 090C32	
	4.2	3229	0.9	327.827	GFL09 - 3M□□□ 090C32	
	4.2	3226	1.7	327.556	GFL11 - 3M□□□ 090C32	
	3.9	3477	0.8	353.033	GFL09 - 3M□□□ 090C32	
	3.9	3526	1.5	358.077	GFL11 - 3M□□□ 090C32	
	3.9	3475	2.5	352.811	GFL14 - 3M□□□ 090C32	
	3.5	3918	0.8	397.863	GFL09 - 3M□□□ 090C32	
	3.5	3973	1.5	403.467	GFL11 - 3M□□□ 090C32	
	3.5	3915	2.5	397.533	GFL14 - 3M□□□ 090C32	
	3.2	4237	1.4	430.222	GFL11 - 3M□□□ 090C32	
	3.2	4237	2.5	430.222	GFL14 - 3M□□□ 090C32	
	2.7	5142	1.2	522.133	GFL11 - 3M□□□ 090C32	
	2.7	5142	2.1	522.133	GFL14 - 3M□□□ 090C32	
	2.5	5539	1.0	562.391	GFL11 - 3M□□□ 090C32	
	2.5	5539	1.6	562.391	GFL14 - 3M□□□ 090C32	
	2.2	6241	0.9	633.680	GFL11 - 3M□□□ 090C32	
	2.2	6241	1.6	633.680	GFL14 - 3M□□□ 090C32	
	2.0	7001	1.3	710.888	GFL14 - 3M□□□ 090C32	
	1.7	7888	1.2	801.000	GFL14 - 3M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GFL □□ - 2M**	**4-84**
n1=2840	776	26	3.4	3.659	* GFL04 - 2M□□□ 090-31	
	621	33	4.2	4.571	GFL05 - 2M□□□ 090-31	
	566	36	2.5	5.018	* GFL04 - 2M□□□ 090-31	
	487	42	3.0	5.833	* GFL04 - 2M□□□ 090-31	
	442	46	2.0	6.422	* GFL04 - 2M□□□ 090-31	
	444	46	3.0	6.400	GFL05 - 2M□□□ 090-31	
	404	50	1.8	7.025	* GFL04 - 2M□□□ 090-31	
	339	60	2.4	8.379	* GFL04 - 2M□□□ 090-31	
	304	67	2.0	9.333	* GFL04 - 2M□□□ 090-31	
	277	74	1.8	10.238	* GFL04 - 2M□□□ 090-31	
	286	71	3.1	9.946	GFL05 - 2M□□□ 090-31	
	247	83	1.8	11.491	* GFL04 - 2M□□□ 090-31	
	250	82	2.8	11.360	GFL05 - 2M□□□ 090-31	
	222	92	1.5	12.800	* GFL04 - 2M□□□ 090-31	
	222	92	2.5	12.800	GFL05 - 2M□□□ 090-31	
	193	106	1.4	14.706	* GFL04 - 2M□□□ 090-31	
	195	104	2.3	14.538	GFL05 - 2M□□□ 090-31	
	177	116	1.3	16.087	* GFL04 - 2M□□□ 090-31	
	179	114	2.2	15.904	GFL05 - 2M□□□ 090-31	
	159	129	1.1	17.920	* GFL04 - 2M□□□ 090-31	
	159	129	2.0	17.920	GFL05 - 2M□□□ 090-31	
	138	147	1.0	20.519	* GFL04 - 2M□□□ 090-31	
	140	146	1.8	20.286	GFL05 - 2M□□□ 090-31	
	124	164	0.8	22.857	* GFL04 - 2M□□□ 090-31	
	124	164	1.5	22.857	GFL05 - 2M□□□ 090-31	
	123	166	2.9	23.175	GFL06 - 2M□□□ 090-31	
	113	180	0.9	25.136	* GFL04 - 2M□□□ 090-31	
	114	178	1.8	24.850	GFL05 - 2M□□□ 090-31	
	101	201	1.4	28.000	GFL05 - 2M□□□ 090-31	
	100	204	2.7	28.389	GFL06 - 2M□□□ 090-31	
	88	232	1.4	32.344	GFL05 - 2M□□□ 090-31	
	87	235	2.5	32.800	GFL06 - 2M□□□ 090-31	
	78	262	1.1	36.444	GFL05 - 2M□□□ 090-31	
	77	265	2.1	36.951	GFL06 - 2M□□□ 090-31	
	71	289	1.1	40.233	GFL05 - 2M□□□ 090-31	
	70	293	2.1	40.800	GFL06 - 2M□□□ 090-31	
	63	325	0.9	45.333	GFL05 - 2M□□□ 090-31	
	62	330	1.7	45.963	GFL06 - 2M□□□ 090-31	
	54	379	1.6	52.800	GFL06 - 2M□□□ 090-31	
	55	374	3.0	52.067	GFL07 - 2M□□□ 090-31	
	48	427	1.3	59.481	GFL06 - 2M□□□ 090-31	
	48	421	2.8	58.667	GFL07 - 2M□□□ 090-31	
	44	460	1.2	64.080	GFL06 - 2M□□□ 090-31	
	45	454	2.5	63.190	GFL07 - 2M□□□ 090-31	
	46	447	3.2	62.300	GFL09 - 2M□□□ 090-31	
	39	518	1.2	72.189	GFL06 - 2M□□□ 090-31	
	40	511	2.5	71.200	GFL07 - 2M□□□ 090-31	

Thermal power limit not considered (see page 2-4)

* not possible with hollow shaft (H□□)

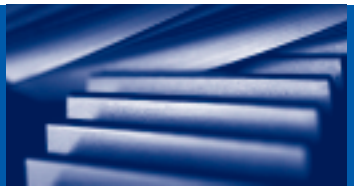


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GFL □□ - 2M**	**4-84**
n1=2840	36	573	1.5	79.875	GFL07 - 2M□□□ 090-31	
	36	565	2.7	78.750	GFL09 - 2M□□□ 090-31	
	32	646	1.4	90.000	GFL07 - 2M□□□ 090-31	
	32	637	2.7	88.750	GFL09 - 2M□□□ 090-31	
n1=1440	432	47	3.5	3.333	GFL05 - 2M□□□ 100C12	
	315	65	2.6	4.571	GFL05 - 2M□□□ 100C12	
	281	73	3.1	5.133	GFL05 - 2M□□□ 100C12	
	254	80	2.9	5.667	GFL05 - 2M□□□ 100C12	
	225	91	1.9	6.400	GFL05 - 2M□□□ 100C12	
	205	100	2.5	7.040	GFL05 - 2M□□□ 100C12	
	185	110	2.3	7.771	GFL05 - 2M□□□ 100C12	
	160	128	2.1	9.010	GFL05 - 2M□□□ 100C12	
	145	141	2.0	9.946	GFL05 - 2M□□□ 100C12	
	143	143	3.2	10.092	GFL06 - 2M□□□ 100C12	
	127	161	1.7	11.360	GFL05 - 2M□□□ 100C12	
	113	181	1.6	12.800	GFL05 - 2M□□□ 100C12	
	111	184	3.2	12.978	GFL06 - 2M□□□ 100C12	
	99	206	1.5	14.538	GFL05 - 2M□□□ 100C12	
	98	209	3.1	14.743	GFL06 - 2M□□□ 100C12	
	91	225	1.4	15.904	GFL05 - 2M□□□ 100C12	
	89	228	2.8	16.128	GFL06 - 2M□□□ 100C12	
	80	254	1.2	17.920	GFL05 - 2M□□□ 100C12	
	79	257	2.3	18.169	GFL06 - 2M□□□ 100C12	
	71	287	1.2	20.286	GFL05 - 2M□□□ 100C12	
	70	291	2.2	20.571	GFL06 - 2M□□□ 100C12	
	63	324	1.0	22.857	GFL05 - 2M□□□ 100C12	
	62	328	1.8	23.175	GFL06 - 2M□□□ 100C12	
	58	352	1.0	24.850	GFL05 - 2M□□□ 100C12	
	57	357	1.8	25.200	GFL06 - 2M□□□ 100C12	
	51	402	1.5	28.389	GFL06 - 2M□□□ 100C12	
	51	396	3.1	28.000	GFL07 - 2M□□□ 100C12	
	44	464	1.4	32.800	GFL06 - 2M□□□ 100C12	
	45	458	3.0	32.344	GFL07 - 2M□□□ 100C12	
	39	523	1.2	36.951	GFL06 - 2M□□□ 100C12	
	40	516	2.4	36.444	GFL07 - 2M□□□ 100C12	
	35	578	1.1	40.800	GFL06 - 2M□□□ 100C12	
	36	561	2.5	39.642	GFL07 - 2M□□□ 100C12	
	31	651	0.9	45.963	GFL06 - 2M□□□ 100C12	
	32	632	2.0	44.667	GFL07 - 2M□□□ 100C12	
	28	737	1.8	52.067	GFL07 - 2M□□□ 100C12	
	28	727	2.8	51.333	GFL09 - 2M□□□ 100C12	
	25	830	1.5	58.667	GFL07 - 2M□□□ 100C12	
	25	819	2.8	57.852	GFL09 - 2M□□□ 100C12	
	23	894	1.4	63.190	GFL07 - 2M□□□ 100C12	
	23	882	2.3	62.300	GFL09 - 2M□□□ 100C12	
	23	894	2.9	63.190	GFL11 - 2M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GFL □□ - 2M**	**4-84**
n1=1440	20	1008	1.3	71.200	GFL07 - 2M□□□ 100C12	
	21	994	2.3	70.211	GFL09 - 2M□□□ 100C12	
	20	1008	2.9	71.200	GFL11 - 2M□□□ 100C12	
	18	1115	1.5	78.750	GFL09 - 2M□□□ 100C12	
	18	1131	2.3	79.875	GFL11 - 2M□□□ 100C12	
	16	1256	1.4	88.750	GFL09 - 2M□□□ 100C12	
	16	1274	2.3	90.000	GFL11 - 2M□□□ 100C12	
					GFL □□ - 3M	**4-100**
	15	1301	1.3	93.333	GFL09 - 3M□□□ 100C12	
	15	1304	2.5	93.540	GFL11 - 3M□□□ 100C12	
	14	1467	1.3	105.185	GFL09 - 3M□□□ 100C12	
	14	1470	2.5	105.397	GFL11 - 3M□□□ 100C12	
	13	1594	1.2	114.333	GFL09 - 3M□□□ 100C12	
	13	1598	2.2	114.586	GFL11 - 3M□□□ 100C12	
	11	1797	1.2	128.852	GFL09 - 3M□□□ 100C12	
	11	1800	2.2	129.111	GFL11 - 3M□□□ 100C12	
	9.7	2075	1.0	148.815	GFL09 - 3M□□□ 100C12	
	9.7	2079	1.9	149.144	GFL11 - 3M□□□ 100C12	
	8.6	2338	1.0	167.712	GFL09 - 3M□□□ 100C12	
	8.6	2343	1.9	168.049	GFL11 - 3M□□□ 100C12	
	7.8	2581	0.9	185.111	GFL09 - 3M□□□ 100C12	
	7.9	2549	1.7	182.792	GFL11 - 3M□□□ 100C12	
	6.9	2909	0.9	208.617	GFL09 - 3M□□□ 100C12	
	7.0	2872	1.7	205.963	GFL11 - 3M□□□ 100C12	
	7.1	2817	2.8	202.074	GFL14 - 3M□□□ 100C12	
	6.4	3132	1.4	224.636	GFL11 - 3M□□□ 100C12	
	6.4	3132	2.8	224.636	GFL14 - 3M□□□ 100C12	
	5.7	3529	1.4	253.111	GFL11 - 3M□□□ 100C12	
	5.7	3529	2.8	253.111	GFL14 - 3M□□□ 100C12	
	5.4	3726	1.4	267.259	GFL11 - 3M□□□ 100C12	
	5.3	3817	2.6	273.778	GFL14 - 3M□□□ 100C12	
	4.4	4567	1.2	327.556	GFL11 - 3M□□□ 100C12	
	4.3	4635	2.3	332.444	GFL14 - 3M□□□ 100C12	
	4.0	4993	1.1	358.077	GFL11 - 3M□□□ 100C12	
	4.1	4919	2.1	352.811	GFL14 - 3M□□□ 100C12	
	3.6	5625	1.1	403.467	GFL11 - 3M□□□ 100C12	
	3.6	5543	2.1	397.533	GFL14 - 3M□□□ 100C12	
	3.4	5998	1.0	430.222	GFL11 - 3M□□□ 100C12	
	3.4	5998	1.8	430.222	GFL14 - 3M□□□ 100C12	
	2.8	7280	0.8	522.133	GFL11 - 3M□□□ 100C12	
	2.8	7280	1.5	522.133	GFL14 - 3M□□□ 100C12	
	2.6	7841	1.2	562.391	GFL14 - 3M□□□ 100C12	
	2.3	8835	1.1	633.680	GFL14 - 3M□□□ 100C12	
	2.0	9912	0.9	710.888	GFL14 - 3M□□□ 100C12	
	1.8	11168	0.9	801.000	GFL14 - 3M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

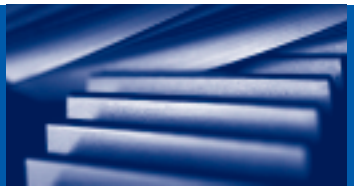


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GFL □□ - 2M**	**4-84**
n1=2850	855	33	4.1	3.333	GFL05 - 2M□□□ 100-31	
	623	45	3.1	4.571	GFL05 - 2M□□□ 100-31	
	555	50	3.6	5.133	GFL05 - 2M□□□ 100-31	
	503	55	3.4	5.667	GFL05 - 2M□□□ 100-31	
	445	62	2.2	6.400	GFL05 - 2M□□□ 100-31	
	405	69	2.9	7.040	GFL05 - 2M□□□ 100-31	
	367	76	2.8	7.771	GFL05 - 2M□□□ 100-31	
	316	88	2.4	9.010	GFL05 - 2M□□□ 100-31	
	287	97	2.3	9.946	GFL05 - 2M□□□ 100-31	
	251	111	2.0	11.360	GFL05 - 2M□□□ 100-31	
	223	125	1.8	12.800	GFL05 - 2M□□□ 100-31	
	196	142	1.7	14.538	GFL05 - 2M□□□ 100-31	
	179	155	1.6	15.904	GFL05 - 2M□□□ 100-31	
	159	175	1.4	17.920	GFL05 - 2M□□□ 100-31	
	157	177	2.7	18.169	GFL06 - 2M□□□ 100-31	
	141	198	1.4	20.286	GFL05 - 2M□□□ 100-31	
	139	201	2.6	20.571	GFL06 - 2M□□□ 100-31	
	125	223	1.1	22.857	GFL05 - 2M□□□ 100-31	
	123	226	2.2	23.175	GFL06 - 2M□□□ 100-31	
	115	242	1.3	24.850	GFL05 - 2M□□□ 100-31	
	113	246	2.4	25.200	GFL06 - 2M□□□ 100-31	
	102	273	1.1	28.000	GFL05 - 2M□□□ 100-31	
	100	277	2.0	28.389	GFL06 - 2M□□□ 100-31	
	87	320	1.8	32.800	GFL06 - 2M□□□ 100-31	
	77	360	1.6	36.951	GFL06 - 2M□□□ 100-31	
	78	355	3.2	36.444	GFL07 - 2M□□□ 100-31	
	70	398	1.5	40.800	GFL06 - 2M□□□ 100-31	
	62	448	1.3	45.963	GFL06 - 2M□□□ 100-31	
	64	436	2.6	44.667	GFL07 - 2M□□□ 100-31	
	55	508	2.4	52.067	GFL07 - 2M□□□ 100-31	
	49	572	2.0	58.667	GFL07 - 2M□□□ 100-31	
	45	616	1.8	63.190	GFL07 - 2M□□□ 100-31	
	46	608	3.1	62.300	GFL09 - 2M□□□ 100-31	
	40	694	1.8	71.200	GFL07 - 2M□□□ 100-31	
	36	768	2.1	78.750	GFL09 - 2M□□□ 100-31	
	32	866	2.1	88.750	GFL09 - 2M□□□ 100-31	
n1=1430	429	65	2.6	3.333	GFL05 - 2M□□□ 100C32	
	313	89	1.9	4.571	GFL05 - 2M□□□ 100C32	
	279	100	2.2	5.133	GFL05 - 2M□□□ 100C32	
	252	110	2.1	5.667	GFL05 - 2M□□□ 100C32	
	223	124	1.4	6.400	GFL05 - 2M□□□ 100C32	
	222	125	2.8	6.450	GFL06 - 2M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GFL □□ - 2M**	**4-84**
n1=1430	203	137	1.8	7.040	GFL05 - 2M□□□ 100C32	
	200	139	3.1	7.147	GFL06 - 2M□□□ 100C32	
	184	151	1.7	7.771	GFL05 - 2M□□□ 100C32	
	159	175	1.5	9.010	GFL05 - 2M□□□ 100C32	
	151	184	3.2	9.463	GFL06 - 2M□□□ 100C32	
	144	193	1.4	9.946	GFL05 - 2M□□□ 100C32	
	142	196	2.3	10.092	GFL06 - 2M□□□ 100C32	
	126	221	1.3	11.360	GFL05 - 2M□□□ 100C32	
	124	224	2.8	11.520	GFL06 - 2M□□□ 100C32	
	112	249	1.1	12.800	GFL05 - 2M□□□ 100C32	
	110	252	2.3	12.978	GFL06 - 2M□□□ 100C32	
	98	283	1.1	14.538	GFL05 - 2M□□□ 100C32	
	97	287	2.2	14.743	GFL06 - 2M□□□ 100C32	
	90	309	1.0	15.904	GFL05 - 2M□□□ 100C32	
	89	314	2.1	16.128	GFL06 - 2M□□□ 100C32	
	80	348	0.9	17.920	GFL05 - 2M□□□ 100C32	
	79	353	1.7	18.169	GFL06 - 2M□□□ 100C32	
	71	394	0.8	20.286	GFL05 - 2M□□□ 100C32	
	70	400	1.6	20.571	GFL06 - 2M□□□ 100C32	
	71	394	3.2	20.286	GFL07 - 2M□□□ 100C32	
	62	450	1.3	23.175	GFL06 - 2M□□□ 100C32	
	63	444	2.8	22.857	GFL07 - 2M□□□ 100C32	
	57	490	1.3	25.200	GFL06 - 2M□□□ 100C32	
	58	483	2.8	24.850	GFL07 - 2M□□□ 100C32	
	50	552	1.1	28.389	GFL06 - 2M□□□ 100C32	
	51	544	2.3	28.000	GFL07 - 2M□□□ 100C32	
	44	638	1.0	32.800	GFL06 - 2M□□□ 100C32	
	44	629	2.2	32.344	GFL07 - 2M□□□ 100C32	
	44	635	2.9	32.667	GFL09 - 2M□□□ 100C32	
	39	718	0.9	36.951	GFL06 - 2M□□□ 100C32	
	39	708	1.8	36.444	GFL07 - 2M□□□ 100C32	
	39	716	2.9	36.815	GFL09 - 2M□□□ 100C32	
	35	793	0.8	40.800	GFL06 - 2M□□□ 100C32	
	36	771	1.8	39.642	GFL07 - 2M□□□ 100C32	
	36	771	2.5	39.667	GFL09 - 2M□□□ 100C32	
	32	868	1.4	44.667	GFL07 - 2M□□□ 100C32	
	32	869	2.5	44.704	GFL09 - 2M□□□ 100C32	
	28	1012	1.3	52.067	GFL07 - 2M□□□ 100C32	
	28	998	2.0	51.333	GFL09 - 2M□□□ 100C32	
	28	1012	2.5	52.067	GFL11 - 2M□□□ 100C32	
	24	1140	1.1	58.667	GFL07 - 2M□□□ 100C32	
	25	1125	2.0	57.852	GFL09 - 2M□□□ 100C32	
	24	1140	2.5	58.667	GFL11 - 2M□□□ 100C32	
	23	1228	1.0	63.190	GFL07 - 2M□□□ 100C32	
	23	1211	1.7	62.300	GFL09 - 2M□□□ 100C32	
	23	1228	2.1	63.190	GFL11 - 2M□□□ 100C32	
	20	1384	0.9	71.200	GFL07 - 2M□□□ 100C32	
	20	1365	1.7	70.211	GFL09 - 2M□□□ 100C32	
	20	1384	2.1	71.200	GFL11 - 2M□□□ 100C32	
	18	1531	1.1	78.750	GFL09 - 2M□□□ 100C32	
	18	1553	1.7	79.875	GFL11 - 2M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

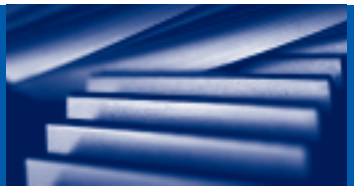


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GFL □□ - 2M**	4-84
n1=1430	16	1725	1.0	88.750	GFL09 - 2M□□□ 100C32	
	16	1749	1.7	90.000	GFL11 - 2M□□□ 100C32	
					GFL □□ - 3M	4-100
	15	1787	0.9	93.333	GFL09 - 3M□□□ 100C32	
	15	1791	1.8	93.540	GFL11 - 3M□□□ 100C32	
	14	2014	0.9	105.185	GFL09 - 3M□□□ 100C32	
	14	2018	1.8	105.397	GFL11 - 3M□□□ 100C32	
	14	2008	2.9	104.889	GFL14 - 3M□□□ 100C32	
	13	2189	0.8	114.333	GFL09 - 3M□□□ 100C32	
	13	2194	1.6	114.586	GFL11 - 3M□□□ 100C32	
	13	2185	2.9	114.126	GFL14 - 3M□□□ 100C32	
	11	2467	0.8	128.852	GFL09 - 3M□□□ 100C32	
	11	2472	1.6	129.111	GFL11 - 3M□□□ 100C32	
	11	2462	2.9	128.593	GFL14 - 3M□□□ 100C32	
	9.6	2855	1.4	149.144	GFL11 - 3M□□□ 100C32	
	8.5	3217	1.4	168.049	GFL11 - 3M□□□ 100C32	
	9.2	2990	2.5	156.148	GFL14 - 3M□□□ 100C32	
	7.8	3500	1.2	182.792	GFL11 - 3M□□□ 100C32	
	8.4	3256	2.6	170.074	GFL14 - 3M□□□ 100C32	
	6.9	3943	1.2	205.963	GFL11 - 3M□□□ 100C32	
	7.1	3869	2.0	202.074	GFL14 - 3M□□□ 100C32	
	6.4	4301	1.1	224.636	GFL11 - 3M□□□ 100C32	
	6.4	4301	2.0	224.636	GFL14 - 3M□□□ 100C32	
	5.7	4846	1.1	253.111	GFL11 - 3M□□□ 100C32	
	5.7	4846	2.0	253.111	GFL14 - 3M□□□ 100C32	
	5.4	5117	1.0	267.259	GFL11 - 3M□□□ 100C32	
	5.2	5242	1.9	273.778	GFL14 - 3M□□□ 100C32	
	4.4	6271	0.9	327.556	GFL11 - 3M□□□ 100C32	
	4.3	6365	1.7	332.444	GFL14 - 3M□□□ 100C32	
	4.1	6755	1.5	352.811	GFL14 - 3M□□□ 100C32	
	3.6	7611	1.5	397.533	GFL14 - 3M□□□ 100C32	
	3.3	8237	1.3	430.222	GFL14 - 3M□□□ 100C32	
	2.7	9997	1.1	522.133	GFL14 - 3M□□□ 100C32	
	2.5	10767	0.8	562.391	GFL14 - 3M□□□ 100C32	
	2.3	12132	0.8	633.680	GFL14 - 3M□□□ 100C32	
4 kW					**GFL □□ - 2M**	4-84
n1=2830	849	44	3.1	3.333	GFL05 - 2M□□□ 100-41	
	619	60	2.3	4.571	GFL05 - 2M□□□ 100-41	
	551	67	2.7	5.133	GFL05 - 2M□□□ 100-41	
	499	74	2.5	5.667	GFL05 - 2M□□□ 100-41	
	442	84	1.7	6.400	GFL05 - 2M□□□ 100-41	
	402	92	2.2	7.040	GFL05 - 2M□□□ 100-41	
	364	102	2.1	7.771	GFL05 - 2M□□□ 100-41	
	314	118	1.8	9.010	GFL05 - 2M□□□ 100-41	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GFL □□ - 2M**	**4-84**
n1=2830	285	130	1.7	9.946	GFL05 - 2M□□□ 100-41	
	280	132	2.8	10.092	GFL06 - 2M□□□ 100-41	
	249	149	1.5	11.360	GFL05 - 2M□□□ 100-41	
	221	168	1.4	12.800	GFL05 - 2M□□□ 100-41	
	218	170	2.8	12.978	GFL06 - 2M□□□ 100-41	
	195	190	1.3	14.538	GFL05 - 2M□□□ 100-41	
	192	193	2.7	14.743	GFL06 - 2M□□□ 100-41	
	178	208	1.2	15.904	GFL05 - 2M□□□ 100-41	
	176	211	2.5	16.128	GFL06 - 2M□□□ 100-41	
	158	235	1.1	17.920	GFL05 - 2M□□□ 100-41	
	156	238	2.0	18.169	GFL06 - 2M□□□ 100-41	
	140	266	1.0	20.286	GFL05 - 2M□□□ 100-41	
	138	269	1.9	20.571	GFL06 - 2M□□□ 100-41	
	124	299	0.8	22.857	GFL05 - 2M□□□ 100-41	
	122	304	1.6	23.175	GFL06 - 2M□□□ 100-41	
	114	325	1.0	24.850	GFL05 - 2M□□□ 100-41	
	112	330	1.8	25.200	GFL06 - 2M□□□ 100-41	
	100	372	1.5	28.389	GFL06 - 2M□□□ 100-41	
	101	367	3.1	28.000	GFL07 - 2M□□□ 100-41	
	86	430	1.4	32.800	GFL06 - 2M□□□ 100-41	
	88	424	3.0	32.344	GFL07 - 2M□□□ 100-41	
	77	484	1.2	36.951	GFL06 - 2M□□□ 100-41	
	78	477	2.4	36.444	GFL07 - 2M□□□ 100-41	
	69	534	1.1	40.800	GFL06 - 2M□□□ 100-41	
	71	519	2.4	39.642	GFL07 - 2M□□□ 100-41	
	62	602	0.9	45.963	GFL06 - 2M□□□ 100-41	
	63	585	2.0	44.667	GFL07 - 2M□□□ 100-41	
	54	682	1.8	52.067	GFL07 - 2M□□□ 100-41	
	55	672	2.7	51.333	GFL09 - 2M□□□ 100-41	
	48	768	1.5	58.667	GFL07 - 2M□□□ 100-41	
	49	758	2.7	57.852	GFL09 - 2M□□□ 100-41	
	45	828	1.4	63.190	GFL07 - 2M□□□ 100-41	
	45	816	2.3	62.300	GFL09 - 2M□□□ 100-41	
	45	828	2.9	63.190	GFL11 - 2M□□□ 100-41	
	40	932	1.4	71.200	GFL07 - 2M□□□ 100-41	
	40	919	2.5	70.211	GFL09 - 2M□□□ 100-41	
	40	932	3.1	71.200	GFL11 - 2M□□□ 100-41	
	36	1031	1.6	78.750	GFL09 - 2M□□□ 100-41	
	35	1046	2.5	79.875	GFL11 - 2M□□□ 100-41	
	32	1162	1.5	88.750	GFL09 - 2M□□□ 100-41	
	31	1179	2.5	90.000	GFL11 - 2M□□□ 100-41	
n1=1450	395	94	3.4	3.675	GFL06 - 2M□□□ 112C22	
	312	119	4.2	4.643	GFL07 - 2M□□□ 112C22	
	278	133	3.2	5.211	GFL06 - 2M□□□ 112C22	
	252	147	3.0	5.750	GFL06 - 2M□□□ 112C22	
	225	165	2.1	6.450	GFL06 - 2M□□□ 112C22	

Thermal power limit not considered (see page 2-4)

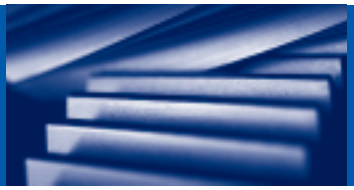


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GFL □□ - 2M**	4-84
n1=1450	203	183	2.4	7.147	GFL06 - 2M□□□ 112C22	
	173	215	2.8	8.400	GFL06 - 2M□□□ 112C22	
	153	242	2.4	9.463	GFL06 - 2M□□□ 112C22	
	144	258	1.8	10.092	GFL06 - 2M□□□ 112C22	
	126	294	2.1	11.520	GFL06 - 2M□□□ 112C22	
	112	332	1.8	12.978	GFL06 - 2M□□□ 112C22	
	98	377	1.7	14.743	GFL06 - 2M□□□ 112C22	
	102	363	3.2	14.200	GFL07 - 2M□□□ 112C22	
	90	412	1.6	16.128	GFL06 - 2M□□□ 112C22	
	91	407	2.9	15.904	GFL07 - 2M□□□ 112C22	
	80	464	1.3	18.169	GFL06 - 2M□□□ 112C22	
	81	458	2.6	17.920	GFL07 - 2M□□□ 112C22	
	71	526	1.2	20.571	GFL06 - 2M□□□ 112C22	
	72	519	2.4	20.286	GFL07 - 2M□□□ 112C22	
	63	592	1.0	23.175	GFL06 - 2M□□□ 112C22	
	63	584	2.1	22.857	GFL07 - 2M□□□ 112C22	
	58	644	1.0	25.200	GFL06 - 2M□□□ 112C22	
	58	635	2.1	24.850	GFL07 - 2M□□□ 112C22	
	51	726	0.8	28.389	GFL06 - 2M□□□ 112C22	
	52	716	1.7	28.000	GFL07 - 2M□□□ 112C22	
	45	827	1.7	32.344	GFL07 - 2M□□□ 112C22	
	44	835	2.6	32.667	GFL09 - 2M□□□ 112C22	
	44	837	3.2	32.739	GFL11 - 2M□□□ 112C22	
	40	932	1.3	36.444	GFL07 - 2M□□□ 112C22	
	39	941	2.6	36.815	GFL09 - 2M□□□ 112C22	
	39	943	3.2	36.889	GFL11 - 2M□□□ 112C22	
	37	1013	1.4	39.642	GFL07 - 2M□□□ 112C22	
	37	1014	2.2	39.667	GFL09 - 2M□□□ 112C22	
	36	1028	2.7	40.233	GFL11 - 2M□□□ 112C22	
	33	1142	1.1	44.667	GFL07 - 2M□□□ 112C22	
	32	1143	2.2	44.704	GFL09 - 2M□□□ 112C22	
	32	1159	2.7	45.333	GFL11 - 2M□□□ 112C22	
	28	1312	1.7	51.333	GFL09 - 2M□□□ 112C22	
	28	1331	2.2	52.067	GFL11 - 2M□□□ 112C22	
	28	1331	2.7	52.067	GFL14 - 2M□□□ 112C22	
	25	1479	1.7	57.852	GFL09 - 2M□□□ 112C22	
	25	1499	2.2	58.667	GFL11 - 2M□□□ 112C22	
	25	1499	2.7	58.667	GFL14 - 2M□□□ 112C22	
	23	1592	1.5	62.300	GFL09 - 2M□□□ 112C22	
	23	1615	1.8	63.190	GFL11 - 2M□□□ 112C22	
	23	1615	2.3	63.190	GFL14 - 2M□□□ 112C22	
	21	1795	1.4	70.211	GFL09 - 2M□□□ 112C22	
	20	1820	1.8	71.200	GFL11 - 2M□□□ 112C22	
	20	1820	2.3	71.200	GFL14 - 2M□□□ 112C22	
	18	2042	1.5	79.875	GFL11 - 2M□□□ 112C22	
	18	2042	1.8	79.875	GFL14 - 2M□□□ 112C22	
	16	2300	1.5	90.000	GFL11 - 2M□□□ 112C22	
	16	2300	1.8	90.000	GFL14 - 2M□□□ 112C22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GFL □□ - 3M**	**4-100**
n1=1450	16	2355	1.4	93.540	GFL11 - 3M□□□ 112C22	
	14	2653	1.4	105.397	GFL11 - 3M□□□ 112C22	
	14	2641	2.6	104.889	GFL14 - 3M□□□ 112C22	
	13	2885	1.2	114.586	GFL11 - 3M□□□ 112C22	
	13	2873	2.3	114.126	GFL14 - 3M□□□ 112C22	
	11	3250	1.2	129.111	GFL11 - 3M□□□ 112C22	
	11	3237	2.3	128.593	GFL14 - 3M□□□ 112C22	
	9.7	3755	1.0	149.144	GFL11 - 3M□□□ 112C22	
	11	3446	2.1	136.889	GFL14 - 3M□□□ 112C22	
	8.6	4231	1.0	168.049	GFL11 - 3M□□□ 112C22	
	9.3	3931	2.1	156.148	GFL14 - 3M□□□ 112C22	
	7.9	4602	0.9	182.792	GFL11 - 3M□□□ 112C22	
	8.5	4282	2.0	170.074	GFL14 - 3M□□□ 112C22	
	7.0	5185	0.9	205.963	GFL11 - 3M□□□ 112C22	
	7.2	5087	1.7	202.074	GFL14 - 3M□□□ 112C22	
	6.5	5655	1.5	224.636	GFL14 - 3M□□□ 112C22	
	5.7	6372	1.5	253.111	GFL14 - 3M□□□ 112C22	
	5.3	6892	1.4	273.778	GFL14 - 3M□□□ 112C22	
	4.4	8369	1.3	332.444	GFL14 - 3M□□□ 112C22	
	4.1	8882	1.2	352.811	GFL14 - 3M□□□ 112C22	
	3.7	10008	1.2	397.533	GFL14 - 3M□□□ 112C22	
	3.4	10831	1.0	430.222	GFL14 - 3M□□□ 112C22	
	2.8	13145	0.8	522.133	GFL14 - 3M□□□ 112C22	
5.5 kW					**GFL □□ - 2M**	**4-84**
n1=2890	786	65	4.0	3.675	GFL06 - 2M□□□ 112-31	
	623	82	4.9	4.643	GFL07 - 2M□□□ 112-31	
	555	92	3.7	5.211	GFL06 - 2M□□□ 112-31	
	503	101	3.5	5.750	GFL06 - 2M□□□ 112-31	
	448	114	2.5	6.450	GFL06 - 2M□□□ 112-31	
	404	126	2.8	7.147	GFL06 - 2M□□□ 112-31	
	344	148	3.3	8.400	GFL06 - 2M□□□ 112-31	
	305	167	2.8	9.463	GFL06 - 2M□□□ 112-31	
	286	178	2.1	10.092	GFL06 - 2M□□□ 112-31	
	251	203	2.5	11.520	GFL06 - 2M□□□ 112-31	
	223	229	2.1	12.978	GFL06 - 2M□□□ 112-31	
	196	260	2.0	14.743	GFL06 - 2M□□□ 112-31	
	179	284	1.8	16.128	GFL06 - 2M□□□ 112-31	
	159	320	1.5	18.169	GFL06 - 2M□□□ 112-31	
	161	316	3.0	17.920	GFL07 - 2M□□□ 112-31	
	141	363	1.4	20.571	GFL06 - 2M□□□ 112-31	
	143	358	2.8	20.286	GFL07 - 2M□□□ 112-31	
	125	409	1.2	23.175	GFL06 - 2M□□□ 112-31	
	126	403	2.5	22.857	GFL07 - 2M□□□ 112-31	

Thermal power limit not considered (see page 2-4)

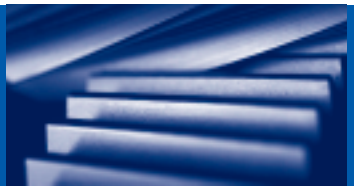


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GFL □□ - 2M**	**4-84**
n1=2890	115	444	1.3	25.200	GFL06 - 2M□□□ 112-31	
	116	438	2.8	24.850	GFL07 - 2M□□□ 112-31	
	102	501	1.1	28.389	GFL06 - 2M□□□ 112-31	
	103	494	2.3	28.000	GFL07 - 2M□□□ 112-31	
	89	570	2.2	32.344	GFL07 - 2M□□□ 112-31	
	79	643	1.8	36.444	GFL07 - 2M□□□ 112-31	
	73	699	1.8	39.642	GFL07 - 2M□□□ 112-31	
	73	699	2.9	39.667	GFL09 - 2M□□□ 112-31	
	65	788	1.5	44.667	GFL07 - 2M□□□ 112-31	
	65	788	2.9	44.704	GFL09 - 2M□□□ 112-31	
	56	905	2.3	51.333	GFL09 - 2M□□□ 112-31	
	56	918	2.9	52.067	GFL11 - 2M□□□ 112-31	
	50	1020	2.3	57.852	GFL09 - 2M□□□ 112-31	
	49	1034	2.9	58.667	GFL11 - 2M□□□ 112-31	
	46	1099	1.9	62.300	GFL09 - 2M□□□ 112-31	
	46	1114	2.4	63.190	GFL11 - 2M□□□ 112-31	
	46	1114	3.0	63.190	GFL14 - 2M□□□ 112-31	
	41	1238	2.0	70.211	GFL09 - 2M□□□ 112-31	
	41	1255	2.6	71.200	GFL11 - 2M□□□ 112-31	
	36	1408	2.1	79.875	GFL11 - 2M□□□ 112-31	
	36	1408	2.6	79.875	GFL14 - 2M□□□ 112-31	
	32	1587	2.1	90.000	GFL11 - 2M□□□ 112-31	
	32	1587	2.6	90.000	GFL14 - 2M□□□ 112-31	
n1=1445	393	130	2.5	3.675	GFL06 - 2M□□□ 112C32	
	431	118	3.0	3.350	GFL07 - 2M□□□ 112C32	
	311	164	3.0	4.643	GFL07 - 2M□□□ 112C32	
	277	184	2.3	5.211	GFL06 - 2M□□□ 112C32	
	280	182	3.0	5.159	GFL07 - 2M□□□ 112C32	
	251	203	2.2	5.750	GFL06 - 2M□□□ 112C32	
	254	201	3.0	5.695	GFL07 - 2M□□□ 112C32	
	224	228	1.5	6.450	GFL06 - 2M□□□ 112C32	
	226	226	2.5	6.400	GFL07 - 2M□□□ 112C32	
	202	252	1.7	7.147	GFL06 - 2M□□□ 112C32	
	202	252	3.0	7.150	GFL07 - 2M□□□ 112C32	
	172	296	2.0	8.400	GFL06 - 2M□□□ 112C32	
	174	294	3.0	8.324	GFL07 - 2M□□□ 112C32	
	153	334	1.7	9.463	GFL06 - 2M□□□ 112C32	
	154	331	3.0	9.379	GFL07 - 2M□□□ 112C32	
	143	356	1.3	10.092	GFL06 - 2M□□□ 112C32	
	149	343	2.7	9.714	GFL07 - 2M□□□ 112C32	
	125	406	1.6	11.520	GFL06 - 2M□□□ 112C32	
	125	407	2.7	11.538	GFL07 - 2M□□□ 112C32	
	129	394	3.1	11.167	GFL09 - 2M□□□ 112C32	
	111	458	1.3	12.978	GFL06 - 2M□□□ 112C32	
	111	458	2.4	13.000	GFL07 - 2M□□□ 112C32	
	98	520	1.2	14.743	GFL06 - 2M□□□ 112C32	
	102	501	2.3	14.200	GFL07 - 2M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Shaft-mounted helical geared motor	Dimensions Page
5.5 kW					**GFL □□ - 2M**	4-84
n1=1445	90	569	1.1	16.128	GFL06 - 2M□□□ 112C32	
	91	561	2.1	15.904	GFL07 - 2M□□□ 112C32	
	89	576	3.1	16.333	GFL09 - 2M□□□ 112C32	
	80	641	0.9	18.169	GFL06 - 2M□□□ 112C32	
	81	632	1.9	17.920	GFL07 - 2M□□□ 112C32	
	79	649	3.1	18.407	GFL09 - 2M□□□ 112C32	
	70	725	0.9	20.571	GFL06 - 2M□□□ 112C32	
	71	715	1.8	20.286	GFL07 - 2M□□□ 112C32	
	74	694	2.8	19.667	GFL09 - 2M□□□ 112C32	
	63	806	1.5	22.857	GFL07 - 2M□□□ 112C32	
	65	782	2.8	22.164	GFL09 - 2M□□□ 112C32	
	58	876	1.5	24.850	GFL07 - 2M□□□ 112C32	
	60	850	2.4	24.111	GFL09 - 2M□□□ 112C32	
	52	987	1.3	28.000	GFL07 - 2M□□□ 112C32	
	53	958	2.4	27.173	GFL09 - 2M□□□ 112C32	
	45	1141	1.2	32.344	GFL07 - 2M□□□ 112C32	
	44	1152	1.9	32.667	GFL09 - 2M□□□ 112C32	
	44	1155	2.4	32.739	GFL11 - 2M□□□ 112C32	
	40	1285	1.0	36.444	GFL07 - 2M□□□ 112C32	
	39	1298	1.9	36.815	GFL09 - 2M□□□ 112C32	
	39	1301	2.4	36.889	GFL11 - 2M□□□ 112C32	
	37	1398	1.0	39.642	GFL07 - 2M□□□ 112C32	
	36	1399	1.6	39.667	GFL09 - 2M□□□ 112C32	
	36	1419	2.0	40.233	GFL11 - 2M□□□ 112C32	
	32	1577	1.6	44.704	GFL09 - 2M□□□ 112C32	
	32	1599	2.0	45.333	GFL11 - 2M□□□ 112C32	
	28	1810	1.3	51.333	GFL09 - 2M□□□ 112C32	
	28	1836	1.6	52.067	GFL11 - 2M□□□ 112C32	
	28	1836	2.0	52.067	GFL14 - 2M□□□ 112C32	
	25	2040	1.3	57.852	GFL09 - 2M□□□ 112C32	
	25	2069	1.6	58.667	GFL11 - 2M□□□ 112C32	
	25	2069	2.0	58.667	GFL14 - 2M□□□ 112C32	
	23	2197	1.1	62.300	GFL09 - 2M□□□ 112C32	
	23	2228	1.3	63.190	GFL11 - 2M□□□ 112C32	
	23	2228	1.6	63.190	GFL14 - 2M□□□ 112C32	
	21	2476	1.0	70.211	GFL09 - 2M□□□ 112C32	
	20	2511	1.3	71.200	GFL11 - 2M□□□ 112C32	
	20	2511	1.6	71.200	GFL14 - 2M□□□ 112C32	
	18	2817	1.1	79.875	GFL11 - 2M□□□ 112C32	
	18	2817	1.3	79.875	GFL14 - 2M□□□ 112C32	
	16	3174	1.1	90.000	GFL11 - 2M□□□ 112C32	
	16	3174	1.3	90.000	GFL14 - 2M□□□ 112C32	
					GFL □□ - 3M	4-100
	15	3249	1.0	93.540	GFL11 - 3M□□□ 112C32	
	14	3661	1.0	105.397	GFL11 - 3M□□□ 112C32	
	14	3643	1.9	104.889	GFL14 - 3M□□□ 112C32	
	13	3980	0.9	114.586	GFL11 - 3M□□□ 112C32	
	13	3964	1.7	114.126	GFL14 - 3M□□□ 112C32	
	11	4485	0.9	129.111	GFL11 - 3M□□□ 112C32	
	11	4467	1.7	128.593	GFL14 - 3M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

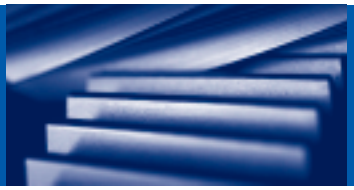


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GFL □□ - 3M**	**4-100**
n1=1445	11	4755	1.5	136.889	GFL14 - 3M□□□ 112C32	
	9.3	5424	1.5	156.148	GFL14 - 3M□□□ 112C32	
	8.5	5908	1.4	170.074	GFL14 - 3M□□□ 112C32	
	7.2	7019	1.3	202.074	GFL14 - 3M□□□ 112C32	
	6.4	7803	1.1	224.636	GFL14 - 3M□□□ 112C32	
	5.7	8792	1.1	253.111	GFL14 - 3M□□□ 112C32	
	5.3	9510	1.0	273.778	GFL14 - 3M□□□ 112C32	
	4.4	11548	0.9	332.444	GFL14 - 3M□□□ 112C32	
	4.1	12255	0.8	352.811	GFL14 - 3M□□□ 112C32	
	3.6	13809	0.8	397.533	GFL14 - 3M□□□ 112C32	
7.5 kW					**GFL □□ - 2M**	**4-84**
n1=2900	789	88	2.9	3.675	GFL06 - 2M□□□ 112-41	
	625	111	3.6	4.643	GFL07 - 2M□□□ 112-41	
	557	125	2.7	5.211	GFL06 - 2M□□□ 112-41	
	504	138	2.6	5.750	GFL06 - 2M□□□ 112-41	
	450 453	155 153	1.8 2.9	6.450 6.400	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	406	171	2.0	7.147	GFL06 - 2M□□□ 112-41	
	345	201	2.4	8.400	GFL06 - 2M□□□ 112-41	
	307	227	2.1	9.463	GFL06 - 2M□□□ 112-41	
	287 299	242 233	1.5 3.1	10.092 9.714	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	252 251	276 277	1.8 3.1	11.520 11.538	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	224 223	311 312	1.5 2.8	12.978 13.000	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	197 204	353 340	1.5 2.7	14.743 14.200	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	180 182	386 381	1.3 2.5	16.128 15.904	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	160 162	435 429	1.1 2.2	18.169 17.920	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	141 143	493 486	1.1 2.1	20.571 20.286	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	125 127	555 548	0.9 1.8	23.175 22.857	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41	
	115 117 120	604 595 578	1.0 2.0 3.2	25.200 24.850 24.111	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41 GFL09 - 2M□□□ 112-41	
	102 104 107	680 671 651	0.8 1.7 3.2	28.389 28.000 27.173	GFL06 - 2M□□□ 112-41 GFL07 - 2M□□□ 112-41 GFL09 - 2M□□□ 112-41	
	90 89 89	775 783 785	1.6 2.5 3.2	32.344 32.667 32.739	GFL07 - 2M□□□ 112-41 GFL09 - 2M□□□ 112-41 GFL11 - 2M□□□ 112-41	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GFL □□ - 2M**	**4-84**
n1=2900	80	873	1.3	36.444	GFL07 - 2M□□□ 112-41	
	79	882	2.5	36.815	GFL09 - 2M□□□ 112-41	
	79	884	3.2	36.889	GFL11 - 2M□□□ 112-41	
	73	950	1.3	39.642	GFL07 - 2M□□□ 112-41	
	73	951	2.1	39.667	GFL09 - 2M□□□ 112-41	
	72	964	2.6	40.233	GFL11 - 2M□□□ 112-41	
	65	1070	1.1	44.667	GFL07 - 2M□□□ 112-41	
	65	1071	2.1	44.704	GFL09 - 2M□□□ 112-41	
	64	1086	2.6	45.333	GFL11 - 2M□□□ 112-41	
	57	1230	1.7	51.333	GFL09 - 2M□□□ 112-41	
	56	1248	2.1	52.067	GFL11 - 2M□□□ 112-41	
	56	1248	2.6	52.067	GFL14 - 2M□□□ 112-41	
	50	1386	1.7	57.852	GFL09 - 2M□□□ 112-41	
	49	1406	2.1	58.667	GFL11 - 2M□□□ 112-41	
	49	1406	2.6	58.667	GFL14 - 2M□□□ 112-41	
	47	1493	1.4	62.300	GFL09 - 2M□□□ 112-41	
	46	1514	1.8	63.190	GFL11 - 2M□□□ 112-41	
	46	1514	2.2	63.190	GFL14 - 2M□□□ 112-41	
	41	1682	1.5	70.211	GFL09 - 2M□□□ 112-41	
	41	1706	1.9	71.200	GFL11 - 2M□□□ 112-41	
	41	1706	2.4	71.200	GFL14 - 2M□□□ 112-41	
	36	1914	1.6	79.875	GFL11 - 2M□□□ 112-41	
	36	1914	1.9	79.875	GFL14 - 2M□□□ 112-41	
	32	2157	1.6	90.000	GFL11 - 2M□□□ 112-41	
	32	2157	1.9	90.000	GFL14 - 2M□□□ 112-41	
n1=1455	434	160	4.0	3.350	GFL07 - 2M□□□ 132C22	
	313	222	2.9	4.643	GFL07 - 2M□□□ 132C22	
	282	246	3.4	5.159	GFL07 - 2M□□□ 132C22	
	256	272	3.4	5.695	GFL07 - 2M□□□ 132C22	
	227	306	2.2	6.400	GFL07 - 2M□□□ 132C22	
	204	342	2.7	7.150	GFL07 - 2M□□□ 132C22	
	175	398	2.5	8.324	GFL07 - 2M□□□ 132C22	
	155	448	2.2	9.379	GFL07 - 2M□□□ 132C22	
	150	464	2.1	9.714	GFL07 - 2M□□□ 132C22	
	126	551	2.0	11.538	GFL07 - 2M□□□ 132C22	
	112	621	1.8	13.000	GFL07 - 2M□□□ 132C22	
	103	678	1.7	14.200	GFL07 - 2M□□□ 132C22	
	92	760	1.6	15.904	GFL07 - 2M□□□ 132C22	
	89	780	3.2	16.333	GFL09 - 2M□□□ 132C22	
	81	856	1.4	17.920	GFL07 - 2M□□□ 132C22	
	79	879	2.8	18.407	GFL09 - 2M□□□ 132C22	
	72	969	1.3	20.286	GFL07 - 2M□□□ 132C22	
	74	939	2.7	19.667	GFL09 - 2M□□□ 132C22	
	64	1092	1.1	22.857	GFL07 - 2M□□□ 132C22	
	66	1059	2.5	22.164	GFL09 - 2M□□□ 132C22	
	59	1187	1.1	24.850	GFL07 - 2M□□□ 132C22	
	60	1152	2.4	24.111	GFL09 - 2M□□□ 132C22	

Thermal power limit not considered (see page 2-4)

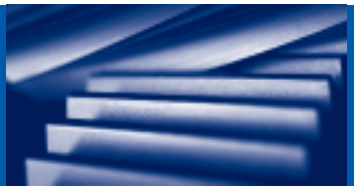


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GFL □□ - 2M**	4-84
n1=1455	52	1337	0.9	28.000	GFL07 - 2M□□□ 132C22	
	54	1298	2.1	27.173	GFL09 - 2M□□□ 132C22	
	52	1337	3.2	28.000	GFL11 - 2M□□□ 132C22	
	45	1560	1.9	32.667	GFL09 - 2M□□□ 132C22	
	44	1564	2.9	32.739	GFL11 - 2M□□□ 132C22	
	40	1758	1.7	36.815	GFL09 - 2M□□□ 132C22	
	39	1762	2.6	36.889	GFL11 - 2M□□□ 132C22	
	37	1894	1.6	39.667	GFL09 - 2M□□□ 132C22	
	36	1921	2.5	40.233	GFL11 - 2M□□□ 132C22	
	33	2135	1.4	44.704	GFL09 - 2M□□□ 132C22	
	32	2165	2.3	45.333	GFL11 - 2M□□□ 132C22	
	28	2487	2.1	52.067	GFL11 - 2M□□□ 132C22	
	28	2487	3.1	52.067	GFL14 - 2M□□□ 132C22	
	25	2802	1.9	58.667	GFL11 - 2M□□□ 132C22	
	25	2802	3.1	58.667	GFL14 - 2M□□□ 132C22	
	23	3018	1.8	63.190	GFL11 - 2M□□□ 132C22	
	23	3018	2.6	63.190	GFL14 - 2M□□□ 132C22	
	20	3400	1.6	71.200	GFL11 - 2M□□□ 132C22	
	20	3400	2.6	71.200	GFL14 - 2M□□□ 132C22	
	18	3815	1.8	79.875	GFL14 - 2M□□□ 132C22	
	16	4298	1.8	90.000	GFL14 - 2M□□□ 132C22	
					GFL □□ - 3M	4-100
	14	4934	1.4	104.889	GFL14 - 3M□□□ 132C22	
	13	5369	1.3	114.126	GFL14 - 3M□□□ 132C22	
	11	6049	1.3	128.593	GFL14 - 3M□□□ 132C22	
	11	6439	1.1	136.889	GFL14 - 3M□□□ 132C22	
	9.3	7345	1.1	156.148	GFL14 - 3M□□□ 132C22	
	8.6	8001	1.1	170.074	GFL14 - 3M□□□ 132C22	
	6.5	10567	0.8	224.636	GFL14 - 3M□□□ 132C22	
	5.8	11907	0.8	253.111	GFL14 - 3M□□□ 132C22	
9.2 kW					**GFL □□ - 2M**	4-84
n1=2925	873	98	5.2	3.350	GFL07 - 2M□□□ 132-21	
	630	135	3.9	4.643	GFL07 - 2M□□□ 132-21	
	567	150	4.5	5.159	GFL07 - 2M□□□ 132-21	
	514	166	4.4	5.695	GFL07 - 2M□□□ 132-21	
	457	187	2.8	6.400	GFL07 - 2M□□□ 132-21	
	409	208	3.5	7.150	GFL07 - 2M□□□ 132-21	
	351	243	3.3	8.324	GFL07 - 2M□□□ 132-21	
	312	273	2.9	9.379	GFL07 - 2M□□□ 132-21	
	301	283	2.7	9.714	GFL07 - 2M□□□ 132-21	
	254	336	2.6	11.538	GFL07 - 2M□□□ 132-21	
	225	379	2.3	13.000	GFL07 - 2M□□□ 132-21	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
9.2 kW					**GFL □□ - 2M**	**4-84**
n1=2925	206	414	2.2	14.200	GFL07 - 2M□□□ 132-21	
	184	464	2.0	15.904	GFL07 - 2M□□□ 132-21	
	163	522	1.8	17.920	GFL07 - 2M□□□ 132-21	
	144	591	1.7	20.286	GFL07 - 2M□□□ 132-21	
	128 132	666 646	1.5 3.2	22.857 22.164	GFL07 - 2M□□□ 132-21 GFL09 - 2M□□□ 132-21	
	118	724	1.7	24.850	GFL07 - 2M□□□ 132-21	
	105 108	816 792	1.4 3.2	28.000 27.173	GFL07 - 2M□□□ 132-21 GFL09 - 2M□□□ 132-21	
	90	952	2.9	32.667	GFL09 - 2M□□□ 132-21	
	80	1073	2.6	36.815	GFL09 - 2M□□□ 132-21	
	74	1156	2.4	39.667	GFL09 - 2M□□□ 132-21	
	65	1303	2.1	44.704	GFL09 - 2M□□□ 132-21	
	56	1517	3.1	52.067	GFL11 - 2M□□□ 132-21	
	50	1710	2.8	58.667	GFL11 - 2M□□□ 132-21	
	46	1841	2.7	63.190	GFL11 - 2M□□□ 132-21	
	41	2075	2.7	71.200	GFL11 - 2M□□□ 132-21	
	37	2328	3.0	79.875	GFL14 - 2M□□□ 132-21	
	33	2623	3.0	90.000	GFL14 - 2M□□□ 132-21	
n1=1450	433	197	3.2	3.350	GFL07 - 2M□□□ 132C32	
	312	273	2.4	4.643	GFL07 - 2M□□□ 132C32	
	281	303	2.8	5.159	GFL07 - 2M□□□ 132C32	
	255	335	2.7	5.695	GFL07 - 2M□□□ 132C32	
	227	376	1.8	6.400	GFL07 - 2M□□□ 132C32	
	203	420	2.2	7.150	GFL07 - 2M□□□ 132C32	
	174	489	2.0	8.324	GFL07 - 2M□□□ 132C32	
	155	551	1.8	9.379	GFL07 - 2M□□□ 132C32	
	149	571	1.7	9.714	GFL07 - 2M□□□ 132C32	
	126	678	1.6	11.538	GFL07 - 2M□□□ 132C32	
	112 118	764 723	1.4 3.1	13.000 12.307	GFL07 - 2M□□□ 132C32 GFL09 - 2M□□□ 132C32	
	102 101	835 843	1.4 2.8	14.200 14.333	GFL07 - 2M□□□ 132C32 GFL09 - 2M□□□ 132C32	
	91 89	935 960	1.3 2.6	15.904 16.333	GFL07 - 2M□□□ 132C32 GFL09 - 2M□□□ 132C32	
	81 79	1053 1082	1.1 2.3	17.920 18.407	GFL07 - 2M□□□ 132C32 GFL09 - 2M□□□ 132C32	
	72 74	1193 1156	1.1 2.2	20.286 19.667	GFL07 - 2M□□□ 132C32 GFL09 - 2M□□□ 132C32	
	63 65 63	1344 1303 1344	0.9 2.0 3.0	22.857 22.164 22.857	GFL07 - 2M□□□ 132C32 GFL09 - 2M□□□ 132C32 GFL11 - 2M□□□ 132C32	

Thermal power limit not considered (see page 2-4)

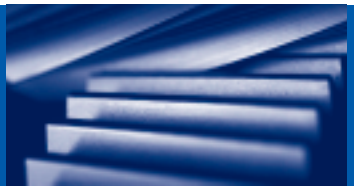


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
9.2 kW					**GFL □□ - 2M**	4-84
n1=1450	58	1461	0.9	24.850	GFL07 - 2M□□□ 132C32	
	60	1417	1.9	24.111	GFL09 - 2M□□□ 132C32	
	58	1461	2.9	24.850	GFL11 - 2M□□□ 132C32	
	53	1597	1.7	27.173	GFL09 - 2M□□□ 132C32	
	52	1646	2.6	28.000	GFL11 - 2M□□□ 132C32	
	44	1920	1.6	32.667	GFL09 - 2M□□□ 132C32	
	44	1925	2.4	32.739	GFL11 - 2M□□□ 132C32	
	39	2164	1.4	36.815	GFL09 - 2M□□□ 132C32	
	39	2169	2.1	36.889	GFL11 - 2M□□□ 132C32	
	37	2332	1.3	39.667	GFL09 - 2M□□□ 132C32	
	36	2365	2.1	40.233	GFL11 - 2M□□□ 132C32	
	37	2330	3.1	39.642	GFL14 - 2M□□□ 132C32	
	32	2628	1.2	44.704	GFL09 - 2M□□□ 132C32	
	32	2665	1.8	45.333	GFL11 - 2M□□□ 132C32	
	33	2626	3.1	44.667	GFL14 - 2M□□□ 132C32	
	28	3061	1.7	52.067	GFL11 - 2M□□□ 132C32	
	28	3061	2.5	52.067	GFL14 - 2M□□□ 132C32	
	25	3449	1.5	58.667	GFL11 - 2M□□□ 132C32	
	25	3449	2.5	58.667	GFL14 - 2M□□□ 132C32	
	23	3715	1.5	63.190	GFL11 - 2M□□□ 132C32	
	23	3715	2.1	63.190	GFL14 - 2M□□□ 132C32	
	20	4186	1.3	71.200	GFL11 - 2M□□□ 132C32	
	20	4186	2.1	71.200	GFL14 - 2M□□□ 132C32	
	18	4695	1.5	79.875	GFL14 - 2M□□□ 132C32	
	16	5291	1.5	90.000	GFL14 - 2M□□□ 132C32	
					GFL □□ - 3M	4-100
	14	6073	1.1	104.889	GFL14 - 3M□□□ 132C32	
	13	6608	1.0	114.126	GFL14 - 3M□□□ 132C32	
	11	7446	1.0	128.593	GFL14 - 3M□□□ 132C32	
	11	7926	0.9	136.889	GFL14 - 3M□□□ 132C32	
	9.3	9041	0.9	156.148	GFL14 - 3M□□□ 132C32	
	8.5	9848	0.9	170.074	GFL14 - 3M□□□ 132C32	
11 kW					**GFL □□ - 2M**	4-84
n1=1460	436	234	2.7	3.350	GFL07 - 2M□□□ 160-22	
	315	324	2.0	4.643	GFL07 - 2M□□□ 160-22	
	283	360	2.4	5.159	GFL07 - 2M□□□ 160-22	
	256	398	2.3	5.695	GFL07 - 2M□□□ 160-22	
	228	447	1.5	6.400	GFL07 - 2M□□□ 160-22	
	204	499	1.8	7.150	GFL07 - 2M□□□ 160-22	
	175	581	1.7	8.324	GFL07 - 2M□□□ 160-22	
	156	655	1.5	9.379	GFL07 - 2M□□□ 160-22	
	150	678	1.4	9.714	GFL07 - 2M□□□ 160-22	
	127	805	1.3	11.538	GFL07 - 2M□□□ 160-22	
	131	780	3.0	11.167	GFL09 - 2M□□□ 160-22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Shaft-mounted helical geared motor	Dimensions Page
11 kW					**GFL □□ - 2M**	4-84
n1=1460	112	908	1.2	13.000	GFL07 - 2M□□□ 160-22	
	119	859	2.6	12.307	GFL09 - 2M□□□ 160-22	
	103	991	1.2	14.200	GFL07 - 2M□□□ 160-22	
	102	1001	2.4	14.333	GFL09 - 2M□□□ 160-22	
	92	1110	1.1	15.904	GFL07 - 2M□□□ 160-22	
	89	1140	2.2	16.333	GFL09 - 2M□□□ 160-22	
	82	1251	1.0	17.920	GFL07 - 2M□□□ 160-22	
	79	1285	1.9	18.407	GFL09 - 2M□□□ 160-22	
	82	1251	3.0	17.920	GFL11 - 2M□□□ 160-22	
	74	1373	1.9	19.667	GFL09 - 2M□□□ 160-22	
	72	1416	2.9	20.286	GFL11 - 2M□□□ 160-22	
	66	1547	1.7	22.164	GFL09 - 2M□□□ 160-22	
	64	1596	2.5	22.857	GFL11 - 2M□□□ 160-22	
	61	1683	1.6	24.111	GFL09 - 2M□□□ 160-22	
	59	1735	2.5	24.850	GFL11 - 2M□□□ 160-22	
	54	1897	1.5	27.173	GFL09 - 2M□□□ 160-22	
	52	1955	2.2	28.000	GFL11 - 2M□□□ 160-22	
	45	2285	2.0	32.739	GFL11 - 2M□□□ 160-22	
	40	2575	1.8	36.889	GFL11 - 2M□□□ 160-22	
	36	2809	1.7	40.233	GFL11 - 2M□□□ 160-22	
	32	3165	1.5	45.333	GFL11 - 2M□□□ 160-22	
	28	3635	2.8	52.067	GFL14 - 2M□□□ 160-22	
	25	4095	2.8	58.667	GFL14 - 2M□□□ 160-22	
	23	4411	2.3	63.190	GFL14 - 2M□□□ 160-22	
	21	4970	2.1	71.200	GFL14 - 2M□□□ 160-22	
					GFL □□ - 3M	4-100
	19	5323	1.1	77.418	GFL14 - 3M□□□ 160-22	
	17	5847	1.1	85.037	GFL14 - 3M□□□ 160-22	
15 kW					**GFL □□ - 2M**	4-84
n1=1460	436	319	2.0	3.350	GFL07 - 2M□□□ 160-32	
	315	442	1.5	4.643	GFL07 - 2M□□□ 160-32	
	283	491	1.7	5.159	GFL07 - 2M□□□ 160-32	
	256	542	1.7	5.695	GFL07 - 2M□□□ 160-32	
	228	609	1.1	6.400	GFL07 - 2M□□□ 160-32	
	204	681	1.3	7.150	GFL07 - 2M□□□ 160-32	
	213	653	3.2	6.864	GFL09 - 2M□□□ 160-32	
	175	792	1.3	8.324	GFL07 - 2M□□□ 160-32	
	196	711	3.0	7.466	GFL09 - 2M□□□ 160-32	
	156	893	1.1	9.379	GFL07 - 2M□□□ 160-32	
	162	858	2.6	9.010	GFL09 - 2M□□□ 160-32	
	150	925	1.0	9.714	GFL07 - 2M□□□ 160-32	
	149	933	2.5	9.799	GFL09 - 2M□□□ 160-32	
	127	1098	1.0	11.538	GFL07 - 2M□□□ 160-32	
	131	1063	2.2	11.167	GFL09 - 2M□□□ 160-32	
	112	1237	0.9	13.000	GFL07 - 2M□□□ 160-32	
	119	1171	1.9	12.307	GFL09 - 2M□□□ 160-32	
	117	1188	2.9	12.480	GFL11 - 2M□□□ 160-32	

Thermal power limit not considered (see page 2-4)

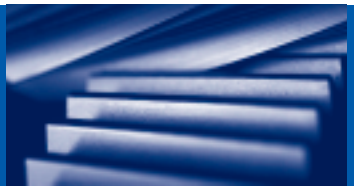


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
15 kW					**GFL □□ - 2M**	4-84
n1=1460	103	1352	0.8	14.200	GFL07 - 2M□□□ 160-32	
	102	1364	1.7	14.333	GFL09 - 2M□□□ 160-32	
	100	1384	2.7	14.538	GFL11 - 2M□□□ 160-32	
	89	1555	1.6	16.333	GFL09 - 2M□□□ 160-32	
	92	1514	2.5	15.904	GFL11 - 2M□□□ 160-32	
	79	1752	1.4	18.407	GFL09 - 2M□□□ 160-32	
	82	1706	2.2	17.920	GFL11 - 2M□□□ 160-32	
	74	1872	1.4	19.667	GFL09 - 2M□□□ 160-32	
	72	1931	2.1	20.286	GFL11 - 2M□□□ 160-32	
	66	2110	1.2	22.164	GFL09 - 2M□□□ 160-32	
	64	2176	1.9	22.857	GFL11 - 2M□□□ 160-32	
	61	2295	1.2	24.111	GFL09 - 2M□□□ 160-32	
	59	2365	1.8	24.850	GFL11 - 2M□□□ 160-32	
	54	2587	1.1	27.173	GFL09 - 2M□□□ 160-32	
	52	2665	1.6	28.000	GFL11 - 2M□□□ 160-32	
	45	3116	1.5	32.739	GFL11 - 2M□□□ 160-32	
	45	3079	3.0	32.344	GFL14 - 2M□□□ 160-32	
	40	3511	1.3	36.889	GFL11 - 2M□□□ 160-32	
	40	3469	3.0	36.444	GFL14 - 2M□□□ 160-32	
	36	3830	1.3	40.233	GFL11 - 2M□□□ 160-32	
	37	3773	2.6	39.642	GFL14 - 2M□□□ 160-32	
	32	4315	1.1	45.333	GFL11 - 2M□□□ 160-32	
	33	4252	2.6	44.667	GFL14 - 2M□□□ 160-32	
	28	4956	2.0	52.067	GFL14 - 2M□□□ 160-32	
	25	5584	2.0	58.667	GFL14 - 2M□□□ 160-32	
	23	6015	1.7	63.190	GFL14 - 2M□□□ 160-32	
	21	6777	1.6	71.200	GFL14 - 2M□□□ 160-32	
					GFL □□ - 3M	4-100
	19	7259	0.8	77.418	GFL14 - 3M□□□ 160-32	
18.5 kW					**GFL □□ - 2M**	4-84
n1=1470	214	800	2.6	6.864	GFL09 - 2M□□□ 180-22	
	197	871	2.5	7.466	GFL09 - 2M□□□ 180-22	
	163	1051	2.1	9.010	GFL09 - 2M□□□ 180-22	
	150	1143	2.0	9.799	GFL09 - 2M□□□ 180-22	
	132	1302	1.8	11.167	GFL09 - 2M□□□ 180-22	
	137	1250	3.1	10.720	GFL11 - 2M□□□ 180-22	
	119	1435	1.5	12.307	GFL09 - 2M□□□ 180-22	
	118	1455	2.4	12.480	GFL11 - 2M□□□ 180-22	
	103	1671	1.4	14.333	GFL09 - 2M□□□ 180-22	
	101	1695	2.2	14.538	GFL11 - 2M□□□ 180-22	
	90	1905	1.3	16.333	GFL09 - 2M□□□ 180-22	
	92	1854	2.0	15.904	GFL11 - 2M□□□ 180-22	
	80	2146	1.2	18.407	GFL09 - 2M□□□ 180-22	
	82	2090	1.8	17.920	GFL11 - 2M□□□ 180-22	
	75	2293	1.1	19.667	GFL09 - 2M□□□ 180-22	
	73	2365	1.7	20.286	GFL11 - 2M□□□ 180-22	
	66	2584	1.0	22.164	GFL09 - 2M□□□ 180-22	
	64	2665	1.5	22.857	GFL11 - 2M□□□ 180-22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
18.5 kW					**GFL □□ - 2M**	4-84
n1=1470	61	2811	1.0	24.111	GFL09 - 2M□□□ 180-22	
	59	2898	1.5	24.850	GFL11 - 2M□□□ 180-22	
	60	2852	3.1	24.456	GFL14 - 2M□□□ 180-22	
	54	3168	0.9	27.173	GFL09 - 2M□□□ 180-22	
	53	3265	1.3	28.000	GFL11 - 2M□□□ 180-22	
	53	3213	3.1	27.556	GFL14 - 2M□□□ 180-22	
	45	3817	1.2	32.739	GFL11 - 2M□□□ 180-22	
	45	3771	2.5	32.344	GFL14 - 2M□□□ 180-22	
	40	4301	1.1	36.889	GFL11 - 2M□□□ 180-22	
	40	4249	2.5	36.444	GFL14 - 2M□□□ 180-22	
	37	4691	1.0	40.233	GFL11 - 2M□□□ 180-22	
	37	4622	2.1	39.642	GFL14 - 2M□□□ 180-22	
	32	5286	0.9	45.333	GFL11 - 2M□□□ 180-22	
	33	5208	2.1	44.667	GFL14 - 2M□□□ 180-22	
	28	6071	1.7	52.067	GFL14 - 2M□□□ 180-22	
	25	6841	1.7	58.667	GFL14 - 2M□□□ 180-22	
	23	7368	1.3	63.190	GFL14 - 2M□□□ 180-22	
	21	8302	1.3	71.200	GFL14 - 2M□□□ 180-22	
22 kW					**GFL □□ - 2M**	4-84
n1=1465	213	955	2.2	6.864	GFL09 - 2M□□□ 180-32	
	213	955	3.1	6.864	GFL11 - 2M□□□ 180-32	
	196	1039	2.1	7.466	GFL09 - 2M□□□ 180-32	
	196	1039	3.1	7.466	GFL11 - 2M□□□ 180-32	
	163	1254	1.8	9.010	GFL09 - 2M□□□ 180-32	
	163	1254	2.9	9.010	GFL11 - 2M□□□ 180-32	
	167	1224	3.2	8.800	GFL14 - 2M□□□ 180-32	
	150	1363	1.7	9.799	GFL09 - 2M□□□ 180-32	
	150	1363	2.8	9.799	GFL11 - 2M□□□ 180-32	
	153	1332	3.2	9.571	GFL14 - 2M□□□ 180-32	
	131	1554	1.5	11.167	GFL09 - 2M□□□ 180-32	
	137	1492	2.6	10.720	GFL11 - 2M□□□ 180-32	
	119	1712	1.3	12.307	GFL09 - 2M□□□ 180-32	
	117	1736	2.0	12.480	GFL11 - 2M□□□ 180-32	
	102	1994	1.2	14.333	GFL09 - 2M□□□ 180-32	
	101	2023	1.8	14.538	GFL11 - 2M□□□ 180-32	
	103	1976	3.2	14.200	GFL14 - 2M□□□ 180-32	
	90	2273	1.1	16.333	GFL09 - 2M□□□ 180-32	
	92	2213	1.7	15.904	GFL11 - 2M□□□ 180-32	
	94	2173	3.1	15.620	GFL14 - 2M□□□ 180-32	
	80	2561	1.0	18.407	GFL09 - 2M□□□ 180-32	
	82	2493	1.5	17.920	GFL11 - 2M□□□ 180-32	
	83	2449	3.1	17.600	GFL14 - 2M□□□ 180-32	
	75	2736	0.9	19.667	GFL09 - 2M□□□ 180-32	
	72	2822	1.4	20.286	GFL11 - 2M□□□ 180-32	
	73	2775	2.9	19.948	GFL14 - 2M□□□ 180-32	
	66	3084	0.8	22.164	GFL09 - 2M□□□ 180-32	
	64	3180	1.3	22.857	GFL11 - 2M□□□ 180-32	
	65	3127	2.9	22.476	GFL14 - 2M□□□ 180-32	
	61	3355	0.8	24.111	GFL09 - 2M□□□ 180-32	
	59	3457	1.2	24.850	GFL11 - 2M□□□ 180-32	
	60	3403	2.6	24.456	GFL14 - 2M□□□ 180-32	
	52	3896	1.1	28.000	GFL11 - 2M□□□ 180-32	
	53	3834	2.6	27.556	GFL14 - 2M□□□ 180-32	

Thermal power limit not considered (see page 2-4)

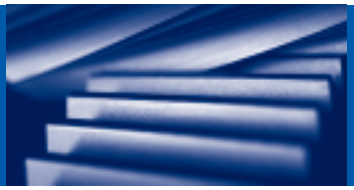


P_1	50 Hz			i	Shaft-mounted helical geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
22 kW					**GFL □□ - 2M**	4-84
n1=1465	45	4555	1.0	32.739	GFL11 - 2M□□□ 180-32	
	45	4500	2.1	32.344	GFL14 - 2M□□□ 180-32	
	40	5132	0.9	36.889	GFL11 - 2M□□□ 180-32	
	40	5071	2.1	36.444	GFL14 - 2M□□□ 180-32	
	36	5598	0.9	40.233	GFL11 - 2M□□□ 180-32	
	37	5515	1.8	39.642	GFL14 - 2M□□□ 180-32	
	33	6215	1.8	44.667	GFL14 - 2M□□□ 180-32	
	28	7244	1.4	52.067	GFL14 - 2M□□□ 180-32	
	25	8162	1.4	58.667	GFL14 - 2M□□□ 180-32	
	23	8792	1.1	63.190	GFL14 - 2M□□□ 180-32	
	21	9906	1.1	71.200	GFL14 - 2M□□□ 180-32	
30 kW					**GFL □□ - 2M**	4-84
n1=1465	213	1302	1.6	6.864	GFL09 - 2M□□□ 200N32	
	213	1302	2.0	6.864	GFL11 - 2M□□□ 200N32	
	205	1357	2.0	7.150	GFL14 - 2M□□□ 200N32	
	196	1416	1.5	7.466	GFL09 - 2M□□□ 200N32	
	196	1416	2.0	7.466	GFL11 - 2M□□□ 200N32	
	188	1476	2.0	7.777	GFL14 - 2M□□□ 200N32	
	163	1709	1.3	9.010	GFL09 - 2M□□□ 200N32	
	163	1709	2.0	9.010	GFL11 - 2M□□□ 200N32	
	167	1670	2.0	8.800	GFL14 - 2M□□□ 200N32	
	150	1859	1.2	9.799	GFL09 - 2M□□□ 200N32	
	150	1859	2.0	9.799	GFL11 - 2M□□□ 200N32	
	153	1816	2.0	9.571	GFL14 - 2M□□□ 200N32	
	137	2034	1.9	10.720	GFL11 - 2M□□□ 200N32	
	127	2189	2.0	11.538	GFL14 - 2M□□□ 200N32	
	119	2335	1.0	12.307	GFL09 - 2M□□□ 200N32	
	117	2368	1.5	12.480	GFL11 - 2M□□□ 200N32	
	113	2466	2.0	13.000	GFL14 - 2M□□□ 200N32	
	102	2719	0.9	14.333	GFL09 - 2M□□□ 200N32	
	101	2758	1.3	14.538	GFL11 - 2M□□□ 200N32	
	103	2694	2.0	14.200	GFL14 - 2M□□□ 200N32	
	92	3017	1.3	15.904	GFL11 - 2M□□□ 200N32	
	94	2964	2.0	15.620	GFL14 - 2M□□□ 200N32	
	82	3400	1.1	17.920	GFL11 - 2M□□□ 200N32	
	83	3339	2.0	17.600	GFL14 - 2M□□□ 200N32	
	72	3849	1.1	20.286	GFL11 - 2M□□□ 200N32	
	73	3785	2.0	19.948	GFL14 - 2M□□□ 200N32	
	64	4337	0.9	22.857	GFL11 - 2M□□□ 200N32	
	65	4264	2.0	22.476	GFL14 - 2M□□□ 200N32	
	59	4715	0.9	24.850	GFL11 - 2M□□□ 200N32	
	60	4640	2.0	24.456	GFL14 - 2M□□□ 200N32	
	52	5312	0.8	28.000	GFL11 - 2M□□□ 200N32	
	53	5228	2.0	27.556	GFL14 - 2M□□□ 200N32	
	45	6137	1.7	32.344	GFL14 - 2M□□□ 200N32	
	40	6915	1.6	36.444	GFL14 - 2M□□□ 200N32	
37 kW					**GFL □□ - 2M**	4-84
n1=1470	214	1601	1.6	6.864	GFL11 - 2M□□□ 225N12	
	206	1667	1.6	7.150	GFL14 - 2M□□□ 225N12	
	197	1741	1.6	7.466	GFL11 - 2M□□□ 225N12	
	189	1814	1.6	7.777	GFL14 - 2M□□□ 225N12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Shaft-mounted helical geared motor	Dimensions Page
37 kW					**GFL □□ - 2M**	4-84
n1=1470	163	2101	1.6	9.010	GFL11 - 2M□□□ 225N12	
	167	2052	1.6	8.800	GFL14 - 2M□□□ 225N12	
	150	2285	1.6	9.799	GFL11 - 2M□□□ 225N12	
	154	2232	1.6	9.571	GFL14 - 2M□□□ 225N12	
	137	2500	1.5	10.720	GFL11 - 2M□□□ 225N12	
	127	2691	1.6	11.538	GFL14 - 2M□□□ 225N12	
	118	2910	1.2	12.480	GFL11 - 2M□□□ 225N12	
	113	3032	1.6	13.000	GFL14 - 2M□□□ 225N12	
	101	3390	1.1	14.538	GFL11 - 2M□□□ 225N12	
	104	3311	1.6	14.200	GFL14 - 2M□□□ 225N12	
	92	3709	1.0	15.904	GFL11 - 2M□□□ 225N12	
	94	3643	1.6	15.620	GFL14 - 2M□□□ 225N12	
	82	4179	0.9	17.920	GFL11 - 2M□□□ 225N12	
	84	4104	1.6	17.600	GFL14 - 2M□□□ 225N12	
	73	4731	0.9	20.286	GFL11 - 2M□□□ 225N12	
	74	4652	1.6	19.948	GFL14 - 2M□□□ 225N12	
	65	5241	1.6	22.476	GFL14 - 2M□□□ 225N12	
	60	5703	1.6	24.456	GFL14 - 2M□□□ 225N12	
	53	6426	1.6	27.556	GFL14 - 2M□□□ 225N12	
	45	7543	1.4	32.344	GFL14 - 2M□□□ 225N12	
	40	8499	1.3	36.444	GFL14 - 2M□□□ 225N12	
45 kW					**GFL □□ - 2M**	4-84
n1=1470	214	1947	1.3	6.864	GFL11 - 2M□□□ 225N22	
	206	2028	1.3	7.150	GFL14 - 2M□□□ 225N22	
	197	2117	1.3	7.466	GFL11 - 2M□□□ 225N22	
	189	2206	1.3	7.777	GFL14 - 2M□□□ 225N22	
	163	2555	1.3	9.010	GFL11 - 2M□□□ 225N22	
	167	2496	1.3	8.800	GFL14 - 2M□□□ 225N22	
	150	2779	1.3	9.799	GFL11 - 2M□□□ 225N22	
	154	2715	1.3	9.571	GFL14 - 2M□□□ 225N22	
	137	3040	1.3	10.720	GFL11 - 2M□□□ 225N22	
	127	3272	1.3	11.538	GFL14 - 2M□□□ 225N22	
	118	3540	1.0	12.480	GFL11 - 2M□□□ 225N22	
	113	3687	1.3	13.000	GFL14 - 2M□□□ 225N22	
	101	4123	0.9	14.538	GFL11 - 2M□□□ 225N22	
	104	4027	1.3	14.200	GFL14 - 2M□□□ 225N22	
	92	4511	0.8	15.904	GFL11 - 2M□□□ 225N22	
	94	4430	1.3	15.620	GFL14 - 2M□□□ 225N22	
	84	4992	1.3	17.600	GFL14 - 2M□□□ 225N22	
	74	5658	1.3	19.948	GFL14 - 2M□□□ 225N22	
	65	6375	1.3	22.476	GFL14 - 2M□□□ 225N22	
	60	6936	1.3	24.456	GFL14 - 2M□□□ 225N22	
	53	7815	1.3	27.556	GFL14 - 2M□□□ 225N22	
	45	9174	1.1	32.344	GFL14 - 2M□□□ 225N22	
	40	10336	1.1	36.444	GFL14 - 2M□□□ 225N22	

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 190$ Nm

GFL 04 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D***	**1A**	**□B**	**□C**	**□D***	**1A**	**□B**	**□C**	**□D***
i	P_{1perm} [kW] M_{2perm} [Nm]												
3.659	P_1 M_2		2.23 27	3.04 37	3.75 45		1.37 33	1.87 45	2.31 56		0.73 35	1.25 60	1.54 75
5.018	P_1 M_2		2.23 37	3.04 50	3.75 62		1.37 46	1.87 62	2.31 77		0.73 48	1.25 83	1.54 102
5.833	P_1 M_2		2.23 43	3.04 59	3.75 72		1.37 53	1.87 72	2.31 89		0.73 56	1.25 96	1.54 119
6.422	P_1 M_2		2.23 47	3.04 65	3.75 80		1.37 58	1.87 79	2.31 98		0.78 66	1.21 103	1.32 112
7.025	P_1 M_2	1.03 24	2.23 52	3.04 71	3.75 87	0.64 30	1.37 64	1.87 87	2.31 107	0.32 30	0.74 69	1.15 107	1.21 113
8.379	P_1 M_2		2.23 62	3.04 84	3.75 104		1.37 76	1.87 104	2.31 128		0.73 81	1.25 138	1.54 171
9.333	P_1 M_2		2.23 69	3.04 94	3.75 116		1.37 85	1.87 115	2.31 143		0.73 90	1.25 154	1.34 165
10.238	P_1 M_2		2.23 76	3.04 103	3.75 127		1.37 93	1.87 127	2.31 156		0.78 105	1.18 159	1.18 159
11.491	P_1 M_2		2.23 85	3.04 115	3.75 143		1.37 105	1.87 142	2.31 176		0.73 110	1.19 181	1.19 181
12.800	P_1 M_2		2.23 95	3.04 129	3.18 135		1.37 116	1.87 158	1.96 166		0.73 123	0.98 166	0.98 166
14.706	P_1 M_2		2.23 109	3.04 148	3.04 148		1.37 134	1.87 182	1.87 182		0.78 151	0.94 182	0.94 182
16.087	P_1 M_2	1.03 55	2.23 119	2.78 148	2.78 148	0.64 68	1.37 146	1.71 182	1.71 182	0.32 68	0.74 158	0.86 182	0.86 182
17.920	P_1 M_2	1.03 61	2.23 132	2.29 136	2.29 136	0.64 75	1.37 163	1.41 167	1.41 167	0.32 75	0.70 167	0.70 167	0.70 167
20.519	P_1 M_2	0.96 65	2.03 138	2.19 149	2.19 149	0.59 80	1.25 170	1.35 183	1.35 183	0.30 80	0.63 170	0.67 183	0.67 183
22.857	P_1 M_2	0.96 72	1.79 136	1.79 136	1.79 136	0.59 89	1.10 167	1.10 167	1.10 167	0.30 89	0.55 167	0.55 167	0.55 167
25.136	P_1 M_2		1.98 165	2.03 169	2.03 169		1.08 179	1.10 183	1.10 183		0.54 179	0.55 183	0.55 183
28.000	P_1 M_2		1.67 155	1.67 155	1.67 155		0.91 168	0.91 168	0.91 168		0.45 168	0.45 168	0.45 168
31.600	P_1 M_2	1.19 125	1.63 171	1.63 171		0.65 135	0.89 185	0.89 185		0.32 135	0.44 185	0.44 185	
35.200	P_1 M_2	1.19 139	1.35 157	1.35 157		0.65 151	0.73 170	0.73 170		0.32 151	0.37 170	0.37 170	
40.697	P_1 M_2	1.00 134	1.28 173	1.28 173		0.54 146	0.69 187	0.69 187		0.27 146	0.35 187	0.35 187	
45.333	P_1 M_2	1.00 150	1.06 159	1.06 159		0.54 162	0.57 172	0.57 172		0.27 162	0.29 172	0.29 172	
51.579	P_1 M_2	0.87 149	1.03 175			0.47 162	0.56 190			0.24 162	0.28 190		

Thermal power limit not considered (see page 2-4)

* not possible with hollow shaft (H□□)

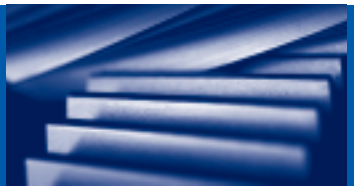
$M_{2\,perm} \leq 190$ Nm

GFL 04 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
57.455	P_1 M_2	0.84 161	0.84 161			0.46 174	0.46 174			0.23 174	0.23 174		
64.636	P_1 M_2	0.71 151	0.71 151			0.38 164	0.38 164			0.19 164	0.19 164		
72.000	P_1 M_2	0.74 177	0.74 177			0.37 177	0.37 177			0.19 177	0.19 177		
85.156	P_1 M_2	0.37 103				0.18 103				0.09 103			
94.857	P_1 M_2	0.37 116				0.19 116				0.09 116			
57.455	P_1 M_2	0.84 161	0.84 161			0.46 174	0.46 174			0.23 174	0.23 174		
64.636	P_1 M_2	0.71 151	0.71 151			0.38 164	0.38 164			0.19 164	0.19 164		
72.000	P_1 M_2	0.74 177	0.74 177			0.37 177	0.37 177			0.19 177	0.19 177		
85.156	P_1 M_2	0.37 103				0.18 103				0.09 103			
94.857	P_1 M_2	0.37 116				0.19 116				0.09 116			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 345$ Nm

GFL 05 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71 63	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
3.333	P_1 M_2			3.75 41	9.22 102			2.31 51	5.68 125			1.54 68	2.84 125
4.571	P_1 M_2			3.75 57	9.14 138			2.31 70	5.62 170			1.54 93	2.81 170
5.133	P_1 M_2			3.75 64	9.22 157			2.31 78	5.68 193			1.54 105	2.84 193
5.667	P_1 M_2			3.75 70	9.22 173			2.31 87	5.68 213			1.54 115	2.84 213
6.400	P_1 M_2	2.23 47	3.04 64	3.75 79	6.64 141	1.37 58	1.87 79	2.31 98	4.09 173	0.73 62	1.25 106	1.54 130	2.04 173
7.040	P_1 M_2			3.75 87	8.65 201			2.31 108	5.32 248			1.54 143	2.66 248
7.771	P_1 M_2			3.75 96	8.16 210			2.31 119	5.02 258			1.54 158	2.51 258
9.010	P_1 M_2		3.04 91	3.75 112	7.23 216		1.87 111	2.31 138	4.45 265		1.25 149	1.54 184	2.23 265
9.946	P_1 M_2		3.04 100	3.75 123	6.78 223		1.87 123	2.31 152	4.17 275		1.25 164	1.54 203	2.09 275
11.360	P_1 M_2			3.75 141	6.02 226			2.31 174	3.70 278			1.54 231	1.85 278
12.800	P_1 M_2			3.75 159	5.46 231			2.31 196	3.36 285			1.54 261	1.68 285
14.538	P_1 M_2		3.04 146	3.75 180	5.09 245		1.87 180	2.31 222	3.13 301		1.25 240	1.54 296	1.57 301
15.904	P_1 M_2	2.23 117	3.04 160	3.75 197	4.78 252	1.37 145	1.87 197	2.31 243	2.94 310	0.73 153	1.25 262	1.47 310	1.47 310
17.920	P_1 M_2	2.23 132	3.04 180	3.75 222	4.27 253	1.37 163	1.87 222	2.31 274	2.63 312	0.73 172	1.25 296	1.32 312	1.32 312
20.286	P_1 M_2	2.23 150	3.04 204	3.75 252	4.03 270	1.37 185	1.87 251	2.31 310	2.48 333	0.77 207	1.20 323	1.24 333	1.24 333
22.857	P_1 M_2	2.23 169	3.04 230	3.36 254	3.36 254	1.37 208	1.87 283	2.07 313	2.07 313	0.77 234	1.04 313	1.04 313	1.04 313
24.850	P_1 M_2		3.45 284	3.86 317	3.86 317		1.87 307	2.09 344	2.09 344		1.03 340	1.05 344	1.05 344
28.000	P_1 M_2		3.13 290	3.13 290	3.13 290		1.69 314	1.69 314	1.69 314		0.85 314	0.85 314	0.85 314
32.344	P_1 M_2	1.97 211	2.97 318	2.97 318		1.07 228	1.61 345	1.61 345		0.53 228	0.81 345	0.81 345	
36.444	P_1 M_2	1.97 237	2.42 292	2.42 292		1.07 257	1.31 316	1.31 316		0.53 257	0.66 316	0.66 316	
40.233	P_1 M_2	1.65 219	2.39 318	2.39 318		0.89 238	1.30 345	1.30 345		0.45 238	0.65 345	0.65 345	
45.333	P_1 M_2	1.65 247	1.96 294	1.96 294		0.89 268	1.06 319	1.06 319		0.45 268	0.53 319	0.53 319	

Thermal power limit not considered (see page 2-4)

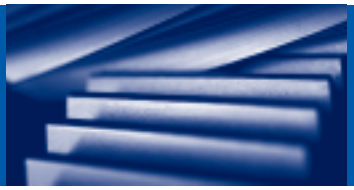
$M_{2\,perm} \leq 345$ Nm

GFL 05 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71 63	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
52.067	P_1 M_2	1.32 228	1.66 286			0.72 247	0.90 309			0.36 247	0.45 309		
58.667	P_1 M_2	1.32 256	1.53 297			0.72 278	0.83 322			0.36 278	0.42 322		
63.190	P_1 M_2	1.10 231	1.25 260			0.60 250	0.68 282			0.30 250	0.34 282		
71.200	P_1 M_2	1.20 282	1.30 305			0.60 282	0.65 305			0.30 282	0.32 305		
80.763	P_1 M_2	0.81 217				0.41 217				0.20 217			
91.000	P_1 M_2	0.79 236				0.39 236				0.20 236			

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 345$ Nm

GFL 05 - 3 N

Dimensions page 4-124

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**1A**	**□B**	**□C**	**1A**	**□B**	**□C**	**1A**	**□B**	**□C**
i	P_{1perm} [kW] M_{2perm} [Nm]									
61.653	P_1 M_2	0.95 191	0.95 191	0.95 191	0.52 207	0.52 207	0.52 207	0.26 207	0.26 207	0.26 207
78.639	P_1 M_2	0.88 225	0.88 225	0.88 225	0.44 225	0.44 225	0.44 225	0.22 225	0.22 225	0.22 225
90.123	P_1 M_2	1.03 303	1.03 303	1.03 303	0.52 303	0.52 303	0.52 303	0.26 303	0.26 303	0.26 303
101.547	P_1 M_2	0.99 328	0.99 328	0.99 328	0.50 328	0.50 328	0.50 328	0.25 328	0.25 328	0.25 328
114.952	P_1 M_2	0.88 329	0.88 329	0.88 329	0.44 329	0.44 329	0.44 329	0.22 329	0.22 329	0.22 329
129.524	P_1 M_2	0.78 328	0.78 328	0.78 328	0.39 328	0.39 328	0.39 328	0.19 328	0.19 328	0.19 328
140.817	P_1 M_2		0.75 345	0.75 345		0.38 345	0.38 345		0.19 345	0.19 345
158.667	P_1 M_2		0.63 328	0.63 328		0.32 328	0.32 328		0.16 328	0.16 328
177.027	P_1 M_2	0.60 345	0.60 345	0.60 345	0.30 345	0.30 345	0.30 345	0.15 345	0.15 345	0.15 345
199.467	P_1 M_2	0.50 328	0.50 328	0.50 328	0.25 328	0.25 328	0.25 328	0.13 328	0.13 328	0.13 328
227.989	P_1 M_2	0.46 345	0.46 345	0.46 345	0.23 345	0.23 345	0.23 345	0.12 345	0.12 345	0.12 345
256.889	P_1 M_2	0.39 328	0.39 328	0.39 328	0.20 328	0.20 328	0.20 328	0.10 328	0.10 328	0.10 328
288.948	P_1 M_2	0.37 345	0.37 345		0.18 345	0.18 345		0.09 345	0.09 345	
325.576	P_1 M_2	0.31 328	0.31 328		0.16 328	0.16 328		0.08 328	0.08 328	
362.100	P_1 M_2	0.29 345	0.29 345		0.15 345	0.15 345		0.07 345	0.07 345	
408.000	P_1 M_2	0.25 328	0.25 328		0.12 328	0.12 328		0.06 328	0.06 328	
477.052	P_1 M_2	0.22 345			0.11 345			0.06 345		
537.524	P_1 M_2	0.19 328			0.09 328			0.05 328		

Thermal power limit not considered (see page 2-4)

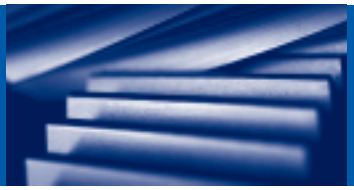
$M_{2\,perm} \leq 657$ Nm

GFL 06 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
3.675	P_1 M_2				10.7 130	10.7 130				6.60 160	6.60 160				4.40 214	4.40 214
5.211	P_1 M_2				10.7 185	10.7 185				6.60 228	6.60 228				4.40 303	4.40 303
5.750	P_1 M_2				10.7 204	10.7 204				6.60 251	6.60 251				4.40 335	4.40 335
6.450	P_1 M_2			3.75 80	10.7 229	10.7 229			2.31 99	6.60 282	6.60 282			1.54 131	4.01 342	4.12 352
7.147	P_1 M_2				10.7 253	10.7 253				6.60 312	6.60 312				4.40 416	4.40 416
8.400	P_1 M_2				10.7 298	10.7 298				6.60 367	6.60 367				4.40 489	4.40 489
9.463	P_1 M_2				10.7 336	10.7 336				6.60 413	6.60 413				4.40 551	4.40 551
10.092	P_1 M_2			3.75 125	10.7 358	10.7 358			2.31 154	6.60 441	6.60 441			1.54 206	3.44 459	3.44 459
11.520	P_1 M_2				10.7 408	10.7 408				6.60 503	6.60 503				4.14 632	4.14 632
12.978	P_1 M_2				10.7 460	10.7 460				6.60 567	6.60 567				3.44 592	3.44 592
14.743	P_1 M_2			3.75 183	10.7 520	10.7 520			2.31 225	6.57 641	6.57 641			1.54 300	3.28 641	3.28 641
16.128	P_1 M_2			3.75 200	9.78 522	9.78 522			2.31 246	6.02 643	6.02 643			1.54 329	3.01 643	3.01 643
18.169	P_1 M_2			3.75 225	8.10 487	8.10 487			2.31 278	4.99 600	4.99 600			1.54 370	2.49 600	2.49 600
20.571	P_1 M_2		3.04 207	3.75 255	7.70 524	7.70 524		1.87 254	2.31 314	4.74 645	4.74 645		1.25 339	1.54 419	2.37 645	2.37 645
23.175	P_1 M_2		3.04 233	3.75 288	6.40 490	6.40 490		1.87 287	2.31 354	3.94 604	3.94 604		1.25 382	1.54 472	1.97 604	1.97 604
25.200	P_1 M_2			4.26 355	7.20 600	7.20 600			2.31 385	3.90 651	3.90 651			1.54 513	1.95 651	1.95 651
28.389	P_1 M_2			4.26 400	5.96 560	5.96 560			2.31 434	3.23 607	3.23 607			1.54 578	1.62 607	1.62 607
32.800	P_1 M_2		3.45 374	4.26 463	5.45 591			1.87 406	2.31 501	2.95 641			1.02 444	1.36 591	1.48 641	
36.951	P_1 M_2		3.45 422	4.26 521	4.61 564			1.87 457	2.31 565	2.50 611			1.02 500	1.25 611	1.25 611	
40.800	P_1 M_2		3.16 426	4.20 567	4.49 606			1.71 462	2.27 614	2.43 657			0.86 462	1.14 614	1.22 657	
45.963	P_1 M_2		3.16 480	3.72 565	3.72 565			1.71 520	2.01 613	2.01 613			0.86 520	1.01 613	1.01 613	
52.800	P_1 M_2	1.63 284	2.53 443	3.37 589			0.88 308	1.37 480	1.83 638			0.44 308	0.69 480	0.91 638		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 657$ Nm

GFL 06 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
59.482	P_1 M_2	1.63 320	2.53 499	2.88 567			0.88 347	1.37 540	1.56 615			0.44 347	0.69 540	0.78 615		
64.080	P_1 M_2	1.36 288	2.11 448	2.51 531			0.74 312	1.15 486	1.36 576			0.37 312	0.57 486	0.68 576		
72.189	P_1 M_2	1.47 352	2.29 547	2.58 616			0.74 352	1.15 547	1.29 616			0.37 352	0.57 547	0.65 616		
81.000	P_1 M_2	1.18 316	1.62 435				0.59 316	0.81 435				0.30 316	0.41 435			
91.250	P_1 M_2	1.18 356	1.58 476				0.59 356	0.79 476				0.30 356	0.39 476			

Thermal power limit not considered (see page 2-4)

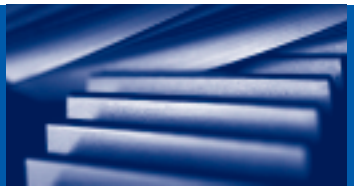
$M_{2\,perm} \leq 657$ Nm

GFL 06 - 3 N

Dimensions page 4-124

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
66.213	P_1 M_2	1.18 255	2.30 496	2.30 496	2.30 496	0.59 255	1.15 496	1.15 496	1.15 496	0.30 255	0.58 496	0.58 496	0.58 496
72.000	P_1 M_2	1.18 277	2.12 496	2.12 496	2.12 496	0.59 277	1.06 496	1.06 496	1.06 496	0.30 277	0.53 496	0.53 496	0.53 496
81.111	P_1 M_2	1.18 312	1.88 496	1.88 496	1.88 496	0.59 312	0.94 496	0.94 496	0.94 496	0.30 312	0.47 496	0.47 496	0.47 496
88.200	P_1 M_2		1.70 488	1.70 488	1.70 488		0.85 488	0.85 488	0.85 488		0.42 488	0.42 488	0.42 488
99.361	P_1 M_2		1.70 550	1.70 550	1.70 550		0.85 550	0.85 550	0.85 550		0.42 550	0.42 550	0.42 550
116.571	P_1 M_2	1.08 411	1.39 528	1.39 528		0.54 411	0.70 528	0.70 528		0.27 411	0.35 528	0.35 528	
131.323	P_1 M_2	1.18 505	1.39 595	1.39 595	1.39 595	0.59 505	0.70 595	0.70 595	0.70 595	0.30 505	0.35 595	0.35 595	0.35 595
144.320	P_1 M_2	1.19 560	1.19 560	1.19 560		0.60 560	0.60 560	0.60 560		0.30 560	0.30 560	0.30 560	
162.583	P_1 M_2	1.16 613	1.16 613	1.16 613		0.58 613	0.58 613	0.58 613		0.29 613	0.29 613	0.29 613	
179.520	P_1 M_2	1.03 605	1.03 605	1.03 605		0.52 605	0.52 605	0.52 605		0.26 605	0.26 605	0.26 605	
202.237	P_1 M_2	0.93 611	0.93 611	0.93 611		0.46 611	0.46 611	0.46 611		0.23 611	0.23 611	0.23 611	
231.200	P_1 M_2	0.84 634	0.84 634	0.84 634		0.42 634	0.42 634	0.42 634		0.21 634	0.21 634	0.21 634	
260.457	P_1 M_2	0.72 613	0.72 613	0.72 613		0.36 613	0.36 613	0.36 613		0.18 613	0.18 613	0.18 613	
293.018	P_1 M_2	0.69 657	0.69 657			0.34 657	0.34 657			0.17 657	0.17 657		
299.200	P_1 M_2	0.63 613	0.63 613	0.63 613		0.31 613	0.31 613	0.31 613		0.16 613	0.16 613	0.16 613	
367.200	P_1 M_2	0.55 657	0.55 657			0.27 657	0.27 657			0.14 657	0.14 657		
413.667	P_1 M_2	0.46 614	0.46 614			0.23 614	0.23 614			0.11 614	0.11 614		
475.200	P_1 M_2	0.42 657	0.42 657			0.21 657	0.21 657			0.11 657	0.11 657		
535.333	P_1 M_2	0.35 613	0.35 613			0.18 613	0.18 613			0.09 613	0.09 613		
576.720	P_1 M_2	0.33 614	0.33 614			0.16 614	0.16 614			0.08 614	0.08 614		
649.700	P_1 M_2	0.29 615	0.29 615			0.15 615	0.15 615			0.07 615	0.07 615		
759.806	P_1 M_2	0.21 524				0.11 524				0.05 524			
855.954	P_1 M_2	0.20 563				0.10 563				0.05 563			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 1337$ Nm

GFL 07 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		☐C	☐D	☐E	☐F	☐G	☐H	☐C	☐D	☐E	☐F	☐G	☐H	☐C	☐D	☐E	☐F	☐G	☐H
i	P_{1perm} [kW] M_{2perm} [Nm]																		
3.350	P_1 M_2				10.7 119	28.6 317	46.9 519				6.60 146	17.6 390	28.8 639				4.40 195	11.2 495	14.4 639
4.643	P_1 M_2				10.7 165	28.6 439	34.5 530				6.60 203	17.6 541	21.3 653				4.40 270	10.6 653	10.6 653
5.159	P_1 M_2				10.7 183	28.6 488	40.4 690				6.60 225	17.6 601	24.9 850				4.40 300	11.2 762	12.4 850
5.695	P_1 M_2				10.7 202	28.6 538	39.4 742				6.60 249	17.6 663	24.3 914				4.40 332	11.2 841	12.1 914
6.400	P_1 M_2			10.7 227	10.7 227	25.4 538	25.4 538			6.60 279	6.60 279	15.6 662	15.6 662			4.40 373	4.40 373	7.82 662	7.82 662
7.150	P_1 M_2				10.7 254	28.6 676	31.5 746				6.60 312	17.6 832	19.4 918				4.40 416	9.70 918	9.70 918
8.324	P_1 M_2				10.7 295	28.6 787	29.3 807				6.60 363	17.6 969	18.0 993				4.40 485	9.01 993	9.01 993
9.379	P_1 M_2				10.7 333	26.2 812	26.2 812				6.60 410	16.1 999	16.1 999				4.40 546	8.05 999	8.05 999
9.714	P_1 M_2			10.7 344	10.7 344	24.5 787	24.5 787			6.60 424	6.60 424	15.1 969	15.1 969			4.40 566	4.40 566	7.53 969	7.53 969
11.538	P_1 M_2				10.7 409	23.0 877	23.0 877				6.60 504	14.2 1080	14.2 1080				4.40 672	7.07 1080	7.07 1080
13.000	P_1 M_2				10.7 461	20.6 884	20.6 884				6.60 568	12.7 1089	12.7 1089				4.40 757	6.33 1089	6.33 1089
14.200	P_1 M_2			10.7 504	10.7 504	19.8 929	19.8 929			6.60 620	6.60 620	12.2 1143	12.2 1143			4.40 827	4.40 827	6.08 1143	6.08 1143
15.904	P_1 M_2			10.7 564	10.7 564	18.2 957	18.2 957			6.60 694	6.60 694	11.2 1179	11.2 1179			4.40 926	4.40 926	5.60 1179	5.60 1179
17.920	P_1 M_2			10.7 635	10.7 635	16.3 966	16.3 966			6.60 782	6.60 782	10.0 1189	10.0 1189			4.40 1043	4.40 1043	5.01 1189	5.01 1189
20.286	P_1 M_2		3.75 252	10.7 719	10.7 719	15.3 1025			2.31 310	6.60 886	6.60 886	9.40 1262			1.54 413	3.97 1065	4.15 1115	4.70 1262	
22.857	P_1 M_2		3.75 284	10.7 810	10.7 810	13.3 1007			2.31 349	6.60 998	6.60 998	8.20 1240			1.54 466	3.97 1200	4.10 1240	4.10 1240	
24.850	P_1 M_2			12.2 1001	12.2 1001	15.0 1234				6.60 1085	6.60 1085	8.13 1337				3.41 1123	3.58 1178	4.06 1337	
28.000	P_1 M_2			12.2 1128	12.2 1128	12.4 1146				6.60 1222	6.60 1222	6.70 1242				3.35 1242	3.35 1242	3.35 1242	
32.344	P_1 M_2		4.26 456	10.1 1084	10.6 1137				2.31 494	5.49 1175	5.75 1232				1.54 659	2.75 1175	2.88 1232		
36.444	P_1 M_2		4.26 514	9.55 1152	9.55 1152				2.31 557	5.17 1248	5.17 1248				1.54 743	2.59 1248	2.59 1248		
39.642	P_1 M_2		4.26 559	8.68 1139	9.09 1192				2.31 606	4.70 1234	4.92 1292				1.43 751	2.35 1234	2.46 1292		
44.667	P_1 M_2		4.26 630	7.85 1161	7.85 1161				2.31 683	4.26 1258	4.26 1258				1.43 846	2.13 1258	2.13 1258		

Thermal power limit not considered (see page 2-4)

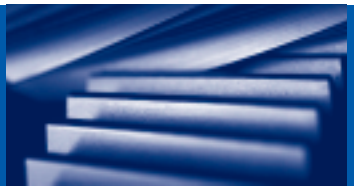
$M_{2\,perm} \leq 1337$ Nm

GFL 07 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
52.067	P_1 M_2	3.11 536	4.14 713	6.80 1172				1.69 580	2.24 773	3.69 1270				0.84 580	1.12 773	1.84 1270			
58.667	P_1 M_2	3.11 604	4.14 804	6.04 1172				1.69 654	2.24 871	3.27 1270				0.84 654	1.12 871	1.64 1270			
63.190	P_1 M_2	2.60 543	3.46 722	5.47 1145				1.41 588	1.87 783	2.97 1240				0.70 588	0.94 783	1.48 1240			
71.200	P_1 M_2	2.81 663	3.74 882	5.43 1280				1.41 663	1.87 882	2.72 1280				0.70 663	0.94 882	1.36 1280			
79.875	P_1 M_2	2.26 596	3.00 794					1.13 596	1.50 794					0.56 596	0.75 794				
90.000	P_1 M_2	2.26 672	3.00 894					1.13 672	1.50 894					0.56 672	0.75 894				

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 1378$ Nm

GFL 07 - 3 N

Dimensions page 4-124

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
65.306	P_1 M_2	2.75 585	3.74 796	4.15 883	4.15 883	1.37 585	1.87 796	2.07 883	2.07 883	0.77 658	1.04 883	1.04 883	1.04 883
72.452	P_1 M_2	2.75 649	3.68 869	3.68 869	3.68 869	1.37 649	1.84 869	1.84 869	1.84 869	0.73 686	0.92 869	0.92 869	0.92 869
81.636	P_1 M_2	2.75 731	3.68 979	3.68 979	3.68 979	1.37 731	1.84 979	1.84 979	1.84 979	0.73 773	0.92 979	0.92 979	0.92 979
92.413	P_1 M_2	2.75 828	3.19 961	3.19 961	3.19 961	1.37 828	1.60 961	1.60 961	1.60 961	0.77 931	0.80 961	0.80 961	0.80 961
104.127	P_1 M_2	2.75 933	3.19 1082	3.19 1082	3.19 1082	1.37 933	1.60 1082	1.60 1082	1.60 1082	0.77 1049	0.80 1082	0.80 1082	0.80 1082
113.206	P_1 M_2		2.82 1040	2.82 1040	2.82 1040		1.41 1040	1.41 1040	1.41 1040		0.70 1040	0.70 1040	0.70 1040
127.556	P_1 M_2		2.82 1171	2.82 1171	2.82 1171		1.41 1171	1.41 1171	1.41 1171		0.70 1171	0.70 1171	0.70 1171
147.347	P_1 M_2	2.13 1025	2.37 1140	2.37 1140		1.07 1025	1.19 1140	1.19 1140		0.53 1025	0.59 1140	0.59 1140	
166.025	P_1 M_2	2.13 1155	2.31 1248	2.31 1248		1.07 1155	1.15 1248	1.15 1248		0.53 1155	0.58 1248	0.58 1248	
183.285	P_1 M_2	1.78 1066	2.07 1236	2.07 1236		0.89 1066	1.03 1236	1.03 1236		0.45 1066	0.52 1236	0.52 1236	
206.519	P_1 M_2	1.78 1201	1.85 1248	1.85 1248		0.89 1201	0.93 1248	0.93 1248		0.45 1201	0.46 1248	0.46 1248	
224.636	P_1 M_2	1.78 1306	1.83 1343	1.83 1343		0.89 1306	0.92 1343	0.92 1343		0.45 1306	0.46 1343	0.46 1343	
253.111	P_1 M_2	1.53 1258	1.53 1258	1.53 1258		0.76 1258	0.76 1258	0.76 1258		0.38 1258	0.38 1258	0.38 1258	
290.706	P_1 M_2	1.43 1357	1.45 1378			0.72 1357	0.73 1378			0.36 1357	0.36 1378		
327.556	P_1 M_2	1.18 1258	1.18 1258			0.59 1258	0.59 1258			0.30 1258	0.30 1258		
352.811	P_1 M_2	1.20 1374	1.20 1378			0.60 1374	0.60 1378			0.30 1374	0.30 1378		
397.533	P_1 M_2	0.97 1258	0.97 1258			0.49 1258	0.49 1258			0.24 1258	0.24 1258		
430.222	P_1 M_2	0.91 1270	0.91 1270			0.45 1270	0.45 1270			0.23 1270	0.23 1270		
522.133	P_1 M_2	0.75 1270	0.75 1270			0.37 1270	0.37 1270			0.19 1270	0.19 1270		
562.391	P_1 M_2	0.62 1128	0.62 1128			0.31 1128	0.31 1128			0.15 1128	0.15 1128		
633.680	P_1 M_2	0.59 1220	0.59 1220			0.30 1220	0.30 1220			0.15 1220	0.15 1220		
718.786	P_1 M_2	0.48 1128				0.24 1128				0.12 1128			
809.900	P_1 M_2	0.46 1220				0.23 1220				0.12 1220			

Thermal power limit not considered (see page 2-4)

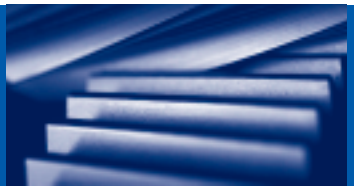
$M_{2\,perm} \leq 3107$ Nm

GFL 09 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
6.864	P_1				28.6	74.7	74.7				17.6	46.0	46.0				11.7	23.0	23.0
	M_2				649	1697	1697				799	2089	2089				1066	2089	2089
7.466	P_1				28.6	70.9	70.9				17.6	43.6	43.6				11.7	21.8	21.8
	M_2				706	1751	1751				869	2156	2156				1159	2156	2156
9.010	P_1			10.7	28.6	60.8	60.8			6.60	17.6	37.4	37.4			4.40	11.7	18.7	18.7
	M_2			319	852	1811	1811			393	1049	2230	2230			524	1399	2230	2230
9.799	P_1			10.7	28.6	57.9	57.9			6.60	17.6	35.6	35.6			4.40	11.7	17.8	17.8
	M_2			347	927	1876	1876			428	1141	2310	2310			570	1521	2310	2310
11.167	P_1			10.7	28.6	50.6				6.60	17.6	31.2				4.40	11.7	15.6	
	M_2			396	1056	1870				488	1300	2303				650	1733	2303	
12.307	P_1				28.6	44.3	44.3				17.6	27.3	27.3				11.7	13.7	13.7
	M_2				1164	1806	1806				1433	2223	2223				1910	2223	2223
14.333	P_1			10.7	28.6	40.7	40.7			6.60	17.6	25.0	25.0			4.40	11.7	12.5	12.5
	M_2			508	1355	1928	1928			626	1669	2374	2374			834	2225	2374	2374
16.333	P_1			10.7	28.6	37.0				6.60	17.6	22.8				4.40	11.4	11.4	
	M_2			579	1544	1998				713	1902	2461				951	2461	2461	
18.407	P_1			10.7	28.6	33.1				6.60	17.6	20.4				4.40	10.2	10.2	
	M_2			653	1741	2014				804	2143	2479				1072	2479	2479	
19.667	P_1		10.7	10.7	28.6	32.0			6.60	6.60	17.6	19.7			4.40	4.40	9.85	9.85	
	M_2		697	697	1860	2082			859	859	2290	2563			1145	1145	2563	2563	
22.164	P_1		10.7	10.7	28.6	28.9			6.60	6.60	17.6	17.8			4.40	4.40	8.90	8.90	
	M_2		786	786	2096	2121			968	968	2580	2612			1290	1290	2612	2612	
24.111	P_1			12.2	31.5	31.5				6.60	17.1	17.1				4.40	8.53	8.53	
	M_2			971	2512	2512				1053	2722	2722				1404	2722	2722	
27.173	P_1			12.2	28.4	28.4				6.60	15.4	15.4				4.40	7.69	7.69	
	M_2			1095	2553	2553				1186	2767	2767				1582	2767	2767	
32.667	P_1		12.2	12.2	25.5				6.60	6.60	13.8				3.53	3.75	6.91		
	M_2		1316	1316	2759				1426	1426	2990				1526	1620	2990		
36.815	P_1		12.2	12.2	22.9				6.60	6.60	12.4				3.53	3.75	6.19		
	M_2		1483	1483	2784				1607	1607	3018				1720	1826	3018		
39.667	P_1		11.2	11.9	21.8				6.06	6.42	11.8				3.03	3.21	5.92		
	M_2		1467	1556	2867				1590	1686	3107				1590	1686	3107		
44.704	P_1		11.2	11.9	18.9				6.06	6.42	10.2				3.03	3.21	5.12		
	M_2		1654	1754	2793				1792	1901	3027				1792	1901	3027		
51.333	P_1	4.26	8.98	9.52				2.31	4.86	5.16				1.44	2.43	2.58			
	M_2	724	1525	1616				784	1653	1752				981	1653	1752			
57.852	P_1	4.26	8.98	9.52				2.31	4.86	5.16				1.44	2.43	2.58			
	M_2	816	1719	1822				884	1862	1974				1105	1862	1974			
62.300	P_1	4.26	7.50	7.94				2.31	4.06	4.30				1.21	2.03	2.15			
	M_2	878	1546	1637				952	1675	1774				994	1675	1774			
70.211	P_1	4.62	8.12	8.61				2.31	4.06	4.30				1.21	2.03	2.15			
	M_2	1073	1888	1999				1073	1888	1999				1121	1888	1999			
78.750	P_1	3.87	6.26					1.93	3.13					0.97	1.57				
	M_2	1008	1631					1008	1631					1008	1631				
88.750	P_1	3.87	6.07					1.93	3.03					0.97	1.52				
	M_2	1136	1781					1136	1781					1136	1781				

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 3170$ Nm

GFL 09 - 3 N

Dimensions page 4-124

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
63.326	P_1 M_2		3.45 712	4.26 880	6.75 1393	6.75 1393		1.87 772	2.31 953	3.66 1510	3.66 1510		1.25 1029	1.54 1271	1.83 1510	1.83 1510
73.173	P_1 M_2			4.62 1101	6.36 1517	6.36 1517			2.31 1101	3.18 1517	3.18 1517			1.54 1469	1.59 1517	1.59 1517
82.465	P_1 M_2			4.62 1241	6.36 1710	6.36 1710			2.31 1241	3.18 1710	3.18 1710			1.54 1655	1.59 1710	1.59 1710
93.333	P_1 M_2		3.74 1137	4.62 1405	5.56 1692	5.56 1692		1.87 1137	2.31 1405	2.78 1692	2.78 1692		1.25 1516	1.39 1692	1.39 1692	1.39 1692
105.185	P_1 M_2		3.74 1282	4.62 1583	5.56 1907	5.56 1907		1.87 1282	2.31 1583	2.78 1907	2.78 1907		1.25 1709	1.39 1907	1.39 1907	1.39 1907
114.333	P_1 M_2			4.62 1721	4.96 1847	4.96 1847			2.31 1721	2.48 1847	2.48 1847			1.24 1847	1.24 1847	1.24 1847
128.852	P_1 M_2			4.62 1939	4.96 2082	4.96 2082			2.31 1939	2.48 2082	2.48 2082			1.24 2082	1.24 2082	1.24 2082
148.815	P_1 M_2		3.74 1813	4.23 2053	4.23 2053			1.87 1813	2.12 2053	2.12 2053			1.02 1984	1.06 2053	1.06 2053	
167.712	P_1 M_2		3.74 2044	4.23 2314	4.23 2314			1.87 2044	2.12 2314	2.12 2314			1.02 2236	1.06 2314	1.06 2314	
185.111	P_1 M_2		3.42 2064	3.70 2231	3.70 2231			1.71 2064	1.85 2231	1.85 2231			0.86 2064	0.93 2231	0.93 2231	
208.617	P_1 M_2		3.42 2326	3.70 2515	3.70 2515			1.71 2326	1.85 2515	1.85 2515			0.86 2326	0.93 2515	0.93 2515	
224.778	P_1 M_2		3.29 2407	3.29 2407	3.29 2407			1.64 2407	1.64 2407	1.64 2407			0.82 2407	0.82 2407	0.82 2407	
253.321	P_1 M_2		3.29 2712	3.29 2712	3.29 2712			1.64 2712	1.64 2712	1.64 2712			0.82 2712	0.82 2712	0.82 2712	
290.889	P_1 M_2	1.76 1671	2.75 2603	2.79 2640			0.88 1671	1.37 2603	1.39 2640			0.44 1671	0.69 2603	0.70 2640		
327.827	P_1 M_2	1.76 1883	2.75 2934	2.79 2975			0.88 1883	1.37 2934	1.39 2975			0.44 1883	0.69 2934	0.70 2975		
353.033	P_1 M_2	1.47 1694	2.29 2636	2.45 2813			0.74 1694	1.15 2636	1.22 2813			0.37 1694	0.57 2636	0.61 2813		
397.863	P_1 M_2	1.47 1909	2.29 2971	2.45 3170			0.74 1909	1.15 2971	1.22 3170			0.37 1909	0.57 2971	0.61 3170		
424.247	P_1 M_2	1.76 2437	1.97 2724	1.97 2724			0.88 2437	0.99 2724	0.99 2724			0.44 2437	0.49 2724	0.49 2724		
514.881	P_1 M_2	1.47 2470	1.62 2724	1.62 2724			0.74 2470	0.81 2724	0.81 2724			0.37 2470	0.41 2724	0.41 2724		
554.470	P_1 M_2	1.17 2113	1.17 2113	1.17 2113			0.58 2113	0.58 2113	0.58 2113			0.29 2113	0.29 2113	0.29 2113		
624.879	P_1 M_2	1.12 2273	1.12 2273	1.12 2273			0.56 2273	0.56 2273	0.56 2273			0.28 2273	0.28 2273	0.28 2273		
700.875	P_1 M_2	0.93 2113	0.93 2113				0.46 2113	0.46 2113				0.23 2113	0.23 2113			
789.875	P_1 M_2	0.88 2273	0.88 2273				0.44 2273	0.44 2273				0.22 2273	0.22 2273			

Thermal power limit not considered (see page 2-4)

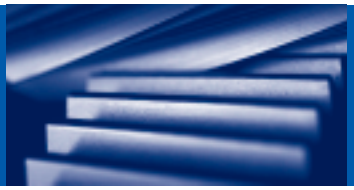
$M_{2\,perm} \leq 4882$ Nm

GFL 11 - 2 N

Dimensions page 3-116

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2																
Drive size		□E	□F	□G	□H	□K	□E	□F	□G	□H	□K	□E	□F	□G	□H	□K
i	P_{1perm} [kW] M_{2perm} [Nm]															
6.864	P_1				80.4	93.8				49.5	57.7				32.5	37.0
	M_2				1825	2130				2248	2622				2951	3364
7.466	P_1				80.4	93.8				49.5	57.7				32.5	35.8
	M_2				1985	2316				2445	2852				3210	3533
9.010	P_1				80.4	93.8				49.5	57.7				27.9	31.3
	M_2				2396	2795				2950	3442				3323	3736
9.799	P_1				80.4	93.8				49.5	57.7				27.9	29.0
	M_2				2606	3040				3209	3744				3615	3767
10.720	P_1			28.6	80.4	87.4			17.6	49.5	53.8			11.7	26.4	26.9
	M_2			1014	2851	3101			1248	3510	3818			1664	3745	3818
12.480	P_1				68.2	68.2				42.0	42.0				21.0	21.0
	M_2				2815	2815				3466	3466				3466	3466
14.538	P_1				62.8	62.8				38.6	38.6				19.3	19.3
	M_2				3020	3020				3718	3718				3718	3718
15.904	P_1			28.6	58.6	58.6			17.6	36.1	36.1			11.7	18.1	18.1
	M_2			1504	3086	3086			1852	3800	3800			2469	3800	3800
17.920	P_1			28.6	51.9	51.9			17.6	32.0	32.0			11.7	16.0	16.0
	M_2			1694	3077	3077			2086	3789	3789			2782	3789	3789
20.286	P_1		10.7	28.6	48.9	48.9		6.60	17.6	30.1	30.1		4.40	11.7	15.1	15.1
	M_2		719	1918	3285	3285		886	2362	4045	4045		1181	3149	4045	4045
22.857	P_1		10.7	28.6	43.4	43.4		6.60	17.6	26.7	26.7		4.40	11.7	13.3	13.3
	M_2		810	2161	3279	3279		998	2661	4037	4037		1331	3548	4037	4037
24.850	P_1			32.5	47.9	47.9			17.6	26.0	26.0			11.1	13.0	13.0
	M_2			2670	3938	3938			2893	4268	4268			3655	4268	4268
28.000	P_1			32.5	42.5	42.5			17.6	23.0	23.0			11.1	11.5	11.5
	M_2			3008	3934	3934			3260	4263	4263			4118	4263	4263
32.739	P_1		12.2	32.5	39.2			6.60	17.6	21.2			4.40	8.94	10.6	
	M_2		1319	3517	4247			1429	3812	4603			1906	3872	4603	
36.889	P_1		12.2	32.5	34.8			6.60	17.6	18.8			4.40	8.94	9.42	
	M_2		1486	3963	4245			1611	4295	4601			2147	4363	4601	
40.233	P_1		12.2	27.6	33.8			6.60	15.0	18.3			3.92	7.48	9.17	
	M_2		1621	3674	4505			1757	3982	4882			2087	3982	4882	
45.333	P_1		12.2	27.6	30.0			6.60	15.0	16.3			3.92	7.48	8.13	
	M_2		1826	4140	4504			1979	4486	4881			2352	4486	4881	
52.067	P_1	10.9	11.6	22.2			5.91	6.30	12.0			2.95	3.15	6.00		
	M_2	1878	2003	3817			2035	2170	4137			2035	2170	4137		
58.667	P_1	10.9	11.6	22.2			5.91	6.30	12.0			2.95	3.15	6.00		
	M_2	2116	2256	4301			2293	2445	4661			2293	2445	4661		
63.190	P_1	9.10	9.71	18.5			4.93	5.26	10.0			2.47	2.63	5.01		
	M_2	1904	2029	3868			2063	2199	4192			2063	2199	4192		
71.200	P_1	9.87	10.5	20.1			4.93	5.26	10.0			2.47	2.63	5.01		
	M_2	2325	2478	4723			2325	2478	4723			2325	2478	4723		
79.875	P_1	7.92	8.43				3.96	4.22				1.98	2.11			
	M_2	2092	2229				2092	2229				2092	2229			
90.000	P_1	7.92	8.43				3.96	4.22				1.98	2.11			
	M_2	2358	2511				2358	2511				2358	2511			

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 5952$ Nm

GFL 11 - 3 N

Dimensions page 4-124

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160/180 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160/180 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160/180 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
65.306	P_1 M_2		4.62 983	13.2 2809	13.2 2809	13.6 2891			2.31 983	6.60 2809	6.60 2809	6.79 2891			1.54 1311	3.40 2891	3.40 2891	3.40 2891	
73.335	P_1 M_2			12.0 2875	12.0 2875	12.0 2875	12.0 2875			6.01 2875	6.01 2875	6.01 2875	6.01 2875			3.01 2875	3.01 2875	3.01 2875	3.01 2875
82.631	P_1 M_2			12.0 3240	12.0 3240	12.0 3240	12.0 3240			6.01 3240	6.01 3240	6.01 3240	6.01 3240			3.01 3240	3.01 3240	3.01 3240	3.01 3240
93.540	P_1 M_2		4.62 1408	10.5 3206	10.5 3206	10.5 3206			2.31 1408	5.26 3206	5.26 3206	5.26 3206			1.54 1877	2.63 3206	2.63 3206	2.63 3206	
105.397	P_1 M_2		4.62 1586	10.5 3613	10.5 3613	10.5 3613			2.31 1586	5.26 3613	5.26 3613	5.26 3613			1.54 2115	2.63 3613	2.63 3613	2.63 3613	
114.586	P_1 M_2			9.37 3501	9.37 3501	9.37 3501				4.69 3501	4.69 3501	4.69 3501				2.34 3501	2.34 3501	2.34 3501	
129.111	P_1 M_2			9.37 3945	9.37 3945	9.37 3945				4.69 3945	4.69 3945	4.69 3945				2.34 3945	2.34 3945	2.34 3945	
149.144	P_1 M_2		4.62 2245	8.01 3894	8.01 3894				2.31 2245	4.01 3894	4.01 3894				1.54 2993	2.00 3894	2.00 3894		
168.049	P_1 M_2		4.62 2529	8.01 4387	8.01 4387				2.31 2529	4.01 4387	4.01 4387				1.54 3373	2.00 4387	2.00 4387		
182.792	P_1 M_2		4.62 2751	7.10 4232	7.10 4232				2.31 2751	3.55 4232	3.55 4232				1.43 3410	1.78 4232	1.78 4232		
205.963	P_1 M_2		4.62 3100	7.10 4769	7.10 4769				2.31 3100	3.55 4769	3.55 4769				1.43 3842	1.78 4769	1.78 4769		
224.636	P_1 M_2		4.62 3381	6.18 4523	6.18 4523				2.31 3381	3.09 4523	3.09 4523				1.43 4191	1.54 4523	1.54 4523		
253.111	P_1 M_2		4.62 3810	6.18 5097	6.18 5097				2.31 3810	3.09 5097	3.09 5097				1.43 4722	1.54 5097	1.54 5097		
267.259	P_1 M_2		4.62 4023	5.86 5106	5.86 5106				2.31 4023	2.93 5106	2.93 5106				1.47 5106	1.47 5106	1.47 5106		
327.556	P_1 M_2		4.62 4930	5.17 5523	5.17 5523				2.31 4930	2.59 5523	2.59 5523				1.29 5523	1.29 5523	1.29 5523		
358.077	P_1 M_2	2.81 3283	3.74 4370	4.53 5283				1.41 3283	1.87 4370	2.26 5283				0.70 3283	0.94 4370	1.13 5283			
403.467	P_1 M_2	2.81 3699	3.74 4924	4.53 5952				1.41 3699	1.87 4924	2.26 5952				0.70 3699	0.94 4924	1.13 5952			
430.222	P_1 M_2	3.37 4725	4.24 5942	4.24 5942				1.69 4725	2.12 5942	2.12 5942				0.84 4725	1.06 5942	1.06 5942			
522.133	P_1 M_2	2.81 4787	3.49 5942	3.49 5942				1.41 4787	1.75 5942	1.75 5942				0.70 4787	0.87 5942	0.87 5942			
562.391	P_1 M_2	2.81 5156	2.90 5319	2.90 5319				1.41 5156	1.45 5319	1.45 5319				0.70 5156	0.73 5319	0.73 5319			
633.680	P_1 M_2	2.81 5810	2.83 5844	2.83 5844				1.41 5810	1.42 5844	1.42 5844				0.70 5810	0.71 5844	0.71 5844			
710.888	P_1 M_2	2.26 5227	2.30 5319					1.13 5227	1.15 5319					0.56 5227	0.57 5319				
801.000	P_1 M_2	2.24 5844	2.24 5844					1.12 5844	1.12 5844					0.56 5844	0.56 5844				

Thermal power limit not considered (see page 2-4)

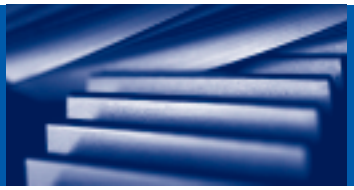
$M_{2\,perm} \leq 11344$ Nm

GFL 14 - 2 N

Dimensions page 4-116

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2										
Drive size		□G	□H	□K	□G	□H	□K	□G	□H	□K
i	P_{1perm} [kW] M_{2perm} [Nm]									
7.150	P_1			93.8			57.7			38.5
	M_2			2218			2731			3642
7.777	P_1			93.8			57.7			38.5
	M_2			2413			2971			3961
8.800	P_1		80.4	93.8		49.5	57.7		33.0	38.5
	M_2		2340	2730		2882	3362		3842	4482
9.571	P_1		80.4	93.8		49.5	57.7		33.0	38.5
	M_2		2545	2970		3134	3657		4179	4875
11.538	P_1			93.8			57.7			38.5
	M_2			3580			4408			5877
13.000	P_1			93.8			57.7			38.5
	M_2			4033			4966			6622
14.200	P_1		80.4	93.8		49.5	57.7		33.0	38.5
	M_2		3776	4406		4650	5425		6200	7233
15.620	P_1		80.4	93.8		49.5	57.7		31.9	38.5
	M_2		4154	4846		5115	5967		6588	7956
17.600	P_1		80.4	93.8		49.5	57.7		31.9	38.5
	M_2		4681	5461		5763	6724		7423	8965
19.948	P_1		80.4	93.8		49.5	57.7		27.1	34.7
	M_2		5305	6189		6532	7621		7143	9152
22.476	P_1		80.4	93.8		49.5	57.7		27.1	33.3
	M_2		5977	6974		7360	8586		8049	9896
24.456	P_1		86.3	106.5		46.8	57.7		23.4	29.9
	M_2		6982	8621		7567	9343		7567	9681
27.556	P_1		86.3	106.1		46.8	57.5		23.4	28.7
	M_2		7867	9671		8526	10480		8526	10480
32.344	P_1	32.5	69.3	88.5	17.6	37.5	48.0	10.8	18.8	24.0
	M_2	3475	7416	9475	3766	8037	10268	4616	8037	10268
36.444	P_1	32.5	69.3	86.8	17.6	37.5	47.0	10.8	18.8	23.5
	M_2	3915	8356	10468	4243	9056	11344	5201	9056	11344
39.642	P_1	32.5	59.2		17.6	32.1		9.26	16.1	
	M_2	4259	7769		4615	8419		4858	8419	
44.667	P_1	32.5	59.2		17.6	32.1		9.26	16.1	
	M_2	4799	8754		5200	9486		5473	9486	
52.067	P_1	26.8	46.8		14.5	25.3		7.26	12.7	
	M_2	4618	8055		5005	8729		5005	8729	
58.667	P_1	26.8	46.8		14.5	25.3		7.26	12.7	
	M_2	5203	9076		5639	9836		5639	9836	
63.190	P_1	22.4	39.3		12.1	21.3		6.07	10.6	
	M_2	4683	8209		5075	8896		5075	8896	
71.200	P_1	24.3	42.5		12.1	21.3		6.07	10.6	
	M_2	5718	10024		5718	10024		5718	10024	
79.875	P_1	19.5			9.74			4.87		
	M_2	5148			5148			5148		
90.000	P_1	19.5			9.74			4.87		
	M_2	5801			5801			5801		

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 11150$ Nm

GFL 14 - 3 N

Dimensions page 3-124

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132
For the geometrical assignment of servo/DC motors see section 2																
Drive size		□D	□E	□F	□G	□H	□D	□E	□F	□G	□H	□D	□E	□F	□G	□H
i	P_{1perm} [kW] M_{2perm} [Nm]															
64.296	P_1 M_2			12.2 2551	24.7 5176	24.7 5176			6.60 2765	13.4 5609	13.4 5609			4.40 3687	6.69 5609	6.69 5609
68.708	P_1 M_2		13.2 2955	13.2 2955	24.2 5416	24.2 5416		6.60 2955	6.60 2955	12.1 5416	12.1 5416		4.40 3940	4.40 3940	6.05 5416	6.05 5416
77.418	P_1 M_2		13.2 3329	13.2 3329	24.2 6102	24.2 6102		6.60 3329	6.60 3329	12.1 6102	12.1 6102		4.40 4439	4.40 4439	6.05 6102	6.05 6102
85.037	P_1 M_2			13.2 3657	22.6 6276	22.6 6276			6.60 3657	11.3 6276	11.3 6276			4.40 4876	5.66 6276	5.66 6276
104.889	P_1 M_2		13.2 4511	13.2 4511	20.2 6888			6.60 4511	6.60 4511	10.1 6888			3.53 4827	3.75 5123	5.04 6888	
114.126	P_1 M_2		13.2 4908	13.2 4908	18.1 6719			6.60 4908	6.60 4908	9.03 6719			3.53 5252	3.75 5574	4.52 6719	
128.593	P_1 M_2		13.2 5530	13.2 5530	18.1 7571			6.60 5530	6.60 5530	9.03 7571			3.53 5917	3.75 6281	4.52 7571	
136.889	P_1 M_2			13.2 5887	16.5 7359	16.5 7359			6.60 5887	8.25 7359	8.25 7359			4.12 7359	4.12 7359	4.12 7359
156.148	P_1 M_2		12.1 6166	12.9 6539	16.2 8227			6.06 6166	6.42 6539	8.08 8227			3.03 6166	3.21 6539	4.04 8227	
170.074	P_1 M_2		13.2 7314	13.2 7314	15.2 8408			6.60 7314	6.60 7314	7.58 8408			3.53 7826	3.75 8307	3.79 8408	
202.074	P_1 M_2	4.62 3042	9.73 6408	10.3 6792			2.31 3042	4.86 6408	5.16 6792			1.44 3802	2.43 6408	2.58 6792		
224.636	P_1 M_2		11.9 8739	11.9 8739	11.9 8739			5.97 8739	5.97 8739	5.97 8739			2.98 8739	2.98 8739	2.98 8739	
253.111	P_1 M_2		11.9 9846	11.9 9846	11.9 9846			5.97 9846	5.97 9846	5.97 9846			2.98 9846	2.98 9846	2.98 9846	
273.778	P_1 M_2		10.9 9753	10.9 9753	10.9 9753			5.46 9753	5.46 9753	5.46 9753			2.73 9753	2.73 9753	2.73 9753	
332.444	P_1 M_2		9.74 10550	9.74 10550	9.74 10550			4.87 10550	4.87 10550	4.87 10550			2.43 10550	2.43 10550	2.43 10550	
352.811	P_1 M_2	4.62 5310	8.12 9343	8.61 9896			2.31 5310	4.06 9343	4.30 9896			1.21 5546	2.03 9343	2.15 9896		
397.533	P_1 M_2	4.62 5984	8.12 10527	8.61 11150			2.31 5984	4.06 10527	4.30 11150			1.21 6250	2.03 10527	2.15 11150		
430.222	P_1 M_2	4.62 6476	7.53 10560	7.53 10560			2.31 6476	3.77 10560	3.77 10560			1.44 8096	1.88 10560	1.88 10560		
522.133	P_1 M_2	4.62 7859	6.21 10560	6.21 10560			2.31 7859	3.10 10560	3.10 10560			1.21 8208	1.55 10560	1.55 10560		
562.391	P_1 M_2	4.62 8465	4.93 9036	4.93 9036			2.31 8465	2.47 9036	2.47 9036			1.21 8841	1.23 9036	1.23 9036		
633.680	P_1 M_2	4.62 9538	4.75 9811	4.75 9811			2.31 9538	2.38 9811	2.38 9811			1.19 9811	1.19 9811	1.19 9811		
710.888	P_1 M_2	3.87 8961	3.90 9036				1.93 8961	1.95 9036				0.97 8961	0.98 9036			
801.000	P_1 M_2	3.76 9811	3.76 9811				1.88 9811	1.88 9811				0.94 9811	0.94 9811			

Thermal power limit not considered (see page 2-4)

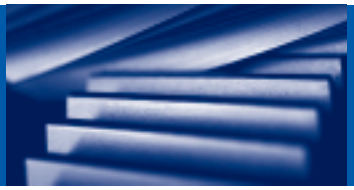
M_2 ≤ 190 Nm

GFL 04 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
3.659	P_1 M_2		2.36 29	3.88 47		1.45 35	2.39 58		0.73 35	1.20 58
5.018	P_1 M_2		2.36 39	3.88 64		1.45 48	2.39 79		0.73 48	1.20 79
5.833	P_1 M_2		2.36 46	3.88 75		1.45 56	2.39 92		0.73 56	1.20 92
6.422	P_1 M_2		2.71 58	3.27 69		1.67 71	2.01 86		0.83 71	1.01 86
7.026	P_1 M_2		2.68 62	3.12 73		1.65 77	1.92 89		0.83 77	0.96 89
8.379	P_1 M_2		2.36 65	3.88 108		1.45 81	2.39 133		0.73 81	1.20 133
9.333	P_1 M_2		2.36 73	3.88 120		1.45 90	2.39 148		0.73 90	1.20 148
10.238	P_1 M_2		2.71 92	3.27 111		1.67 113	2.01 136		0.83 113	1.01 136
11.491	P_1 M_2		2.36 90	3.87 147		1.45 110	2.38 181		0.73 110	1.19 181
12.800	P_1 M_2		2.36 100	3.18 135		1.45 123	1.96 166		0.73 123	0.98 166
14.706	P_1 M_2		2.71 132	3.04 148		1.67 162	1.87 182		0.83 162	0.94 182
16.087	P_1 M_2		2.68 143	2.78 148		1.65 176	1.71 182		0.83 176	0.86 182
17.920	P_1 M_2		2.29 136	2.29 136		1.41 167	1.41 167		0.70 167	0.70 167
20.520	P_1 M_2		2.19 149	2.19 149		1.35 183	1.35 183		0.67 183	0.67 183
22.857	P_1 M_2		1.79 136	1.79 136		1.10 167	1.10 167		0.55 167	0.55 167
25.136	P_1 M_2		1.79 149	1.79 149		1.10 183	1.10 183		0.55 183	0.55 183
28.000	P_1 M_2		1.47 136	1.47 136		0.91 168	0.91 168		0.45 168	0.45 168
31.600	P_1 M_2	1.05 110	1.44 150	1.44 150	0.65 135	0.89 185	0.89 185	0.32 135	0.44 185	0.44 185
35.200	P_1 M_2	1.05 122	1.19 138	1.19 138	0.65 151	0.73 170	0.73 170	0.32 151	0.37 170	0.37 170
40.697	P_1 M_2	0.88 118	1.13 152	1.13 152	0.54 146	0.69 187	0.69 187	0.27 146	0.35 187	0.35 187
45.333	P_1 M_2	0.88 132	0.93 140	0.93 140	0.54 162	0.57 172	0.57 172	0.27 162	0.29 172	0.29 172
51.579	P_1 M_2	0.77 131	0.90 154		0.47 162	0.56 190		0.24 162	0.28 190	
57.455	P_1 M_2	0.74 141	0.74 141		0.46 174	0.46 174		0.23 174	0.23 174	
64.636	P_1 M_2	0.62 133	0.62 133		0.38 164	0.38 164		0.19 164	0.19 164	
72.000	P_1 M_2	0.60 144	0.60 144		0.37 177	0.37 177		0.19 177	0.19 177	
85.156	P_1 M_2	0.30 84			0.18 103			0.09 103		
94.857	P_1 M_2	0.30 95			0.19 116			0.09 116		

Thermal power limit not considered (see page 2-4)



M_2 ≤ 345 Nm

GFL 05 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
3.333	P_1 M_2			7.41 82			4.56 101			2.28 101
4.571	P_1 M_2			7.41 112			4.56 138			2.28 138
5.133	P_1 M_2			7.41 126			4.56 155			2.28 155
5.667	P_1 M_2			7.41 139			4.56 171			2.28 171
6.400	P_1 M_2	2.36 50	3.86 82	6.02 127	1.45 62	2.38 101	3.70 157	0.73 62	1.19 101	1.85 157
7.040	P_1 M_2			7.41 173			4.56 213			2.28 213
7.771	P_1 M_2			7.41 191			4.56 235			2.28 235
9.010	P_1 M_2		4.04 120	6.28 187		2.49 148	3.87 231		1.24 148	1.93 231
9.946	P_1 M_2		4.04 133	6.28 207		2.49 164	3.87 254		1.24 164	1.93 254
11.360	P_1 M_2			6.02 226			3.70 278			1.85 278
12.800	P_1 M_2			5.46 231			3.36 285			1.68 285
14.538	P_1 M_2		4.04 194	5.09 245		2.49 239	3.13 301		1.24 239	1.57 301
15.904	P_1 M_2	2.36 124	3.86 203	4.78 252	1.45 153	2.38 250	2.94 310	0.73 153	1.19 250	1.47 310
17.920	P_1 M_2	2.36 140	3.86 229	4.27 253	1.45 172	2.38 282	2.63 312	0.73 172	1.19 282	1.32 312
20.286	P_1 M_2	2.31 155	3.26 219	4.03 270	1.42 191	2.01 269	2.48 333	0.71 191	1.00 269	1.24 333
22.857	P_1 M_2	2.31 175	3.26 246	3.36 254	1.42 215	2.01 303	2.07 313	0.71 215	1.00 303	1.04 313
24.850	P_1 M_2		2.80 230	3.40 279		1.72 284	2.09 344		0.86 284	1.05 344
28.000	P_1 M_2		2.75 255	2.75 255		1.69 314	1.69 314		0.85 314	0.85 314
32.344	P_1 M_2	1.61 172	2.25 241	2.62 280	0.99 212	1.38 296	1.61 345	0.50 212	0.69 296	0.81 345
36.444	P_1 M_2	1.61 194	2.13 257	2.13 257	0.99 239	1.31 316	1.31 316	0.50 239	0.66 316	0.66 316
40.233	P_1 M_2	1.35 180	1.88 250	2.11 280	0.83 221	1.16 308	1.30 345	0.42 221	0.58 308	0.65 345
45.333	P_1 M_2	1.35 203	1.73 259	1.73 259	0.83 249	1.06 319	1.06 319	0.42 249	0.53 319	0.53 319
52.067	P_1 M_2	1.09 187	1.46 251		0.67 231	0.90 309		0.34 231	0.45 309	
58.667	P_1 M_2	1.09 211	1.35 262		0.67 260	0.83 322		0.34 260	0.42 322	

Thermal power limit not considered (see page 2-4)

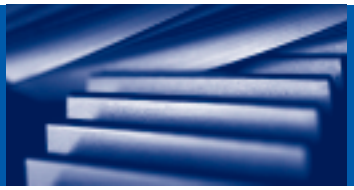
M_2 ≤ 345 Nm

GFL 05 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
63.190	P_1 M_2	0.91 190	1.10 229		0.56 234	0.68 282		0.28 234	0.34 282	
71.200	P_1 M_2	0.91 214	1.05 248		0.56 264	0.65 305		0.28 264	0.32 305	
80.763	P_1 M_2	0.66 177			0.41 217			0.20 217		
91.000	P_1 M_2	0.64 192			0.39 236			0.20 236		

Thermal power limit not considered (see page 2-4)



M_2 ≤ 345 Nm

GFL 05 - 3 W

Dimensions page 4-133

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
61.653	P_1 M_2	0.84 168	0.84 168	0.84 168	0.52 207	0.52 207	0.52 207	0.26 207	0.26 207	0.26 207
78.639	P_1 M_2	0.71 183	0.71 183	0.71 183	0.44 225	0.44 225	0.44 225	0.22 225	0.22 225	0.22 225
90.123	P_1 M_2	0.84 246	0.84 246	0.84 246	0.52 303	0.52 303	0.52 303	0.26 303	0.26 303	0.26 303
101.547	P_1 M_2	0.81 266	0.81 266	0.81 266	0.50 328	0.50 328	0.50 328	0.25 328	0.25 328	0.25 328
114.952	P_1 M_2	0.71 267	0.71 267	0.71 267	0.44 329	0.44 329	0.44 329	0.22 329	0.22 329	0.22 329
129.524	P_1 M_2	0.63 266	0.63 266	0.63 266	0.39 328	0.39 328	0.39 328	0.19 328	0.19 328	0.19 328
140.817	P_1 M_2		0.61 280	0.61 280		0.38 345	0.38 345		0.19 345	0.19 345
158.667	P_1 M_2		0.52 266	0.52 266		0.32 328	0.32 328		0.16 328	0.16 328
177.027	P_1 M_2	0.49 280	0.49 280	0.49 280	0.30 345	0.30 345	0.30 345	0.15 345	0.15 345	0.15 345
199.467	P_1 M_2	0.41 266	0.41 266	0.41 266	0.25 328	0.25 328	0.25 328	0.13 328	0.13 328	0.13 328
227.989	P_1 M_2	0.38 280	0.38 280	0.38 280	0.23 345	0.23 345	0.23 345	0.12 345	0.12 345	0.12 345
256.889	P_1 M_2	0.32 266	0.32 266	0.32 266	0.20 328	0.20 328	0.20 328	0.10 328	0.10 328	0.10 328
288.948	P_1 M_2	0.30 280	0.30 280		0.18 345	0.18 345		0.09 345	0.09 345	
325.576	P_1 M_2	0.25 266	0.25 266		0.16 328	0.16 328		0.08 328	0.08 328	
362.100	P_1 M_2	0.24 280	0.24 280		0.15 345	0.15 345		0.07 345	0.07 345	
408.000	P_1 M_2	0.20 266	0.20 266		0.12 328	0.12 328		0.06 328	0.06 328	
477.052	P_1 M_2	0.18 280			0.11 345			0.06 345		
537.524	P_1 M_2	0.15 266			0.09 328			0.05 328		

Thermal power limit not considered (see page 2-4)

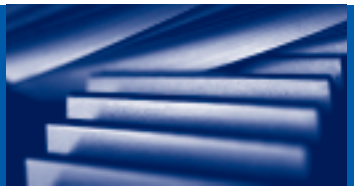
M_2 ≤ 657 Nm

GFL 06 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
3.675	P_1 M_2			14.3 174	21.7 263			8.82 214	13.3 324			4.41 214	6.67 324
5.211	P_1 M_2			14.3 247	19.9 344			8.82 304	12.3 423			4.41 304	6.14 423
5.750	P_1 M_2			14.3 273	18.9 359			8.82 336	11.6 442			4.41 336	5.80 442
6.450	P_1 M_2		7.56 161	12.2 260	13.4 286		4.66 199	7.50 320	8.24 352		2.33 199	3.75 320	4.12 352
7.147	P_1 M_2			14.3 339	14.9 352			8.82 417	9.16 433			4.41 417	4.58 433
8.400	P_1 M_2			14.3 398	17.6 490			8.82 490	10.9 604			4.41 490	5.43 604
9.463	P_1 M_2			14.3 449	15.1 472			8.82 552	9.28 581			4.41 552	4.64 581
10.092	P_1 M_2		7.56 253	11.2 373	11.2 373		4.66 311	6.87 459	6.87 459		2.33 311	3.44 459	3.44 459
11.520	P_1 M_2			13.5 513	13.5 513			8.29 632	8.29 632			4.14 632	4.14 632
12.978	P_1 M_2			11.2 480	11.2 480			6.89 592	6.89 592			3.44 592	3.44 592
14.743	P_1 M_2		7.56 369	10.7 520	10.7 520		4.66 454	6.57 641	6.57 641		2.33 454	3.28 641	3.28 641
16.128	P_1 M_2		7.27 388	9.78 522	9.78 522		4.48 478	6.02 643	6.02 643		2.24 478	3.01 643	3.01 643
18.169	P_1 M_2		7.27 437	8.10 487	8.10 487		4.48 538	4.99 600	4.99 600		2.24 538	2.49 600	2.49 600
20.571	P_1 M_2	4.01 273	6.18 421	7.70 524	7.70 524	2.47 336	3.80 518	4.74 645	4.74 645	1.23 336	1.90 518	2.37 645	2.37 645
23.175	P_1 M_2	4.01 307	6.18 474	6.40 490	6.40 490	2.47 379	3.80 583	3.94 604	3.94 604	1.23 379	1.90 583	1.97 604	1.97 604
25.200	P_1 M_2		5.34 446	6.34 528	6.34 528		3.29 549	3.90 651	3.90 651		1.65 549	1.95 651	1.95 651
28.389	P_1 M_2		5.25 493	5.25 493	5.25 493		3.23 607	3.23 607	3.23 607		1.62 607	1.62 607	1.62 607
32.800	P_1 M_2	2.77 301	4.31 468	4.80 520		1.71 370	2.65 576	2.95 641		0.85 370	1.33 576	1.48 641	
36.951	P_1 M_2	2.77 339	4.06 496	4.06 496		1.71 417	2.50 611	2.50 611		0.85 417	1.25 611	1.25 611	
40.800	P_1 M_2	2.32 313	3.62 488	3.95 533		1.43 385	2.23 601	2.43 657		0.71 385	1.11 601	1.22 657	
45.963	P_1 M_2	2.32 352	3.27 497	3.27 497		1.43 434	2.01 613	2.01 613		0.71 434	1.01 613	1.01 613	
52.800	P_1 M_2	1.79 312	2.91 509			1.10 385	1.79 627			0.55 385	0.90 627		
59.482	P_1 M_2	1.79 352	2.54 499			1.10 433	1.56 615			0.55 433	0.78 615		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 657$ Nm

GFL 06 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]]												
64.080	P_1 M_2	1.55 329	2.21 468			0.96 405	1.36 576			0.48 405	0.68 576		
72.189	P_1 M_2	1.55 370	2.09 500			0.96 456	1.29 616			0.48 456	0.65 616		
81.000	P_1 M_2	1.24 333				0.77 410				0.38 410			
91.250	P_1 M_2	1.24 375				0.77 462				0.38 462			

Thermal power limit not considered (see page 2-4)

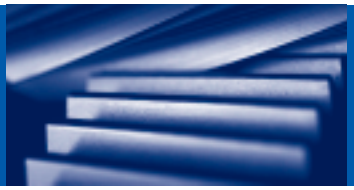
M_2 ≤ 657 Nm

GFL 06 - 3 W

Dimensions page 4-133

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
66.213	P_1 M_2	0.96 207	1.87 403	1.87 403	0.59 255	1.15 496	1.15 496	0.30 255	0.58 496	0.58 496
72.000	P_1 M_2	0.96 225	1.72 403	1.72 403	0.59 277	1.06 496	1.06 496	0.30 277	0.53 496	0.53 496
81.111	P_1 M_2	0.96 253	1.53 403	1.53 403	0.59 312	0.94 496	0.94 496	0.30 312	0.47 496	0.47 496
88.200	P_1 M_2		1.38 396	1.38 396		0.85 488	0.85 488		0.42 488	0.42 488
99.361	P_1 M_2		1.38 446	1.38 446		0.85 550	0.85 550		0.42 550	0.42 550
116.571	P_1 M_2	0.88 334	1.13 429	1.13 429	0.54 411	0.70 528	0.70 528	0.27 411	0.35 528	0.35 528
131.323	P_1 M_2	0.96 410	1.13 483	1.13 483	0.59 505	0.70 595	0.70 595	0.30 505	0.35 595	0.35 595
144.320	P_1 M_2	0.97 455	0.97 455	0.97 455	0.60 560	0.60 560	0.60 560	0.30 560	0.30 560	0.30 560
162.583	P_1 M_2	0.94 497	0.94 497	0.94 497	0.58 613	0.58 613	0.58 613	0.29 613	0.29 613	0.29 613
179.520	P_1 M_2	0.84 492	0.84 492	0.84 492	0.52 605	0.52 605	0.52 605	0.26 605	0.26 605	0.26 605
202.237	P_1 M_2	0.75 496	0.75 496	0.75 496	0.46 611	0.46 611	0.46 611	0.23 611	0.23 611	0.23 611
231.200	P_1 M_2	0.68 515	0.68 515	0.68 515	0.42 634	0.42 634	0.42 634	0.21 634	0.21 634	0.21 634
260.457	P_1 M_2	0.59 497	0.59 497	0.59 497	0.36 613	0.36 613	0.36 613	0.18 613	0.18 613	0.18 613
293.018	P_1 M_2	0.56 533	0.56 533		0.34 657	0.34 657		0.17 657	0.17 657	
299.200	P_1 M_2	0.51 497	0.51 497	0.51 497	0.31 613	0.31 613	0.31 613	0.16 613	0.16 613	0.16 613
367.200	P_1 M_2	0.45 533	0.45 533		0.27 657	0.27 657		0.14 657	0.14 657	
413.667	P_1 M_2	0.37 498	0.37 498		0.23 614	0.23 614		0.11 614	0.11 614	
475.200	P_1 M_2	0.34 533	0.34 533		0.21 657	0.21 657		0.11 657	0.11 657	
535.333	P_1 M_2	0.29 497	0.29 497		0.18 613	0.18 613		0.09 613	0.09 613	
576.720	P_1 M_2	0.27 498	0.27 498		0.16 614	0.16 614		0.08 614	0.08 614	
649.700	P_1 M_2	0.24 499	0.24 499		0.15 615	0.15 615		0.07 615	0.07 615	
759.806	P_1 M_2	0.17 425			0.11 524			0.05 524		
855.954	P_1 M_2	0.16 457			0.10 563			0.05 563		

Thermal power limit not considered (see page 2-4)



M_2 ≤ 1378 Nm

GFL 07 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
3.350	P_1 M_2			26.2 290	43.4 481			16.1 358	26.7 593			8.07 358	13.4 593
4.643	P_1 M_2			26.2 403	34.5 530			16.1 496	21.3 653			8.07 496	10.6 653
5.159	P_1 M_2			26.2 447	40.4 690			16.1 551	24.9 850			8.07 551	12.4 850
5.695	P_1 M_2			26.2 494	39.4 742			16.1 608	24.3 914			8.07 608	12.1 914
6.400	P_1 M_2		14.2 300	21.4 454	25.4 538		8.73 370	13.2 559	15.6 662		4.37 370	6.60 559	7.82 662
7.150	P_1 M_2			26.2 620	31.5 746			16.1 763	19.4 918			8.07 763	9.70 918
8.324	P_1 M_2			26.2 722	29.3 807			16.1 889	18.0 993			8.07 889	9.01 993
9.379	P_1 M_2			26.2 812	26.2 812			16.1 999	16.1 999			8.05 999	8.05 999
9.714	P_1 M_2		15.3 490	23.0 740	24.5 787		9.39 604	14.2 911	15.1 969		4.69 604	7.09 911	7.53 969
11.538	P_1 M_2			23.0 877	23.0 877			14.2 1080	14.2 1080			7.07 1080	7.07 1080
13.000	P_1 M_2			20.6 884	20.6 884			12.7 1089	12.7 1089			6.33 1089	6.33 1089
14.200	P_1 M_2		15.3 717	19.8 929	19.8 929		9.39 882	12.2 1143	12.2 1143		4.69 882	6.08 1143	6.08 1143
15.904	P_1 M_2		14.2 747	18.2 957	18.2 957		8.73 919	11.2 1179	11.2 1179		4.37 919	5.60 1179	5.60 1179
17.920	P_1 M_2		14.2 841	16.3 966	16.3 966		8.73 1036	10.0 1189	10.0 1189		4.37 1036	5.01 1189	5.01 1189
20.286	P_1 M_2	7.37 495	12.0 804	15.3 1025	15.3 1025	4.54 609	7.38 990	9.40 1262	9.40 1262	2.27 609	3.69 990	4.70 1262	4.70 1262
22.857	P_1 M_2	7.37 558	12.0 906	13.3 1007	13.3 1007	4.54 687	7.38 1116	8.20 1240	8.20 1240	2.27 687	3.69 1116	4.10 1240	4.10 1240
24.850	P_1 M_2		10.3 848	13.2 1086	13.2 1086		6.35 1044	8.13 1337	8.13 1337		3.18 1044	4.06 1337	4.06 1337
28.000	P_1 M_2		10.3 956	10.9 1009	10.9 1009		6.35 1177	6.70 1242	6.70 1242		3.18 1177	3.35 1242	3.35 1242
32.344	P_1 M_2	5.17 553	8.35 894	10.4 1113		3.18 681	5.14 1100	6.40 1370		1.59 681	2.57 1100	3.20 1370	
36.444	P_1 M_2	5.17 623	8.35 1007	8.40 1014		3.18 768	5.14 1240	5.17 1248		1.59 768	2.57 1240	2.59 1248	
39.642	P_1 M_2	4.46 584	7.10 932	8.53 1119		2.74 720	4.37 1147	5.25 1378		1.37 720	2.19 1147	2.63 1378	
44.667	P_1 M_2	4.46 659	6.91 1022	6.91 1022		2.74 811	4.26 1258	4.26 1258		1.37 811	2.13 1258	2.13 1258	
52.067	P_1 M_2	3.51 604	5.60 965			2.16 744	3.45 1188			1.08 744	1.72 1188		
58.667	P_1 M_2	3.51 681	5.31 1031			2.16 838	3.27 1270			1.08 838	1.64 1270		

Thermal power limit not considered (see page 2-4)

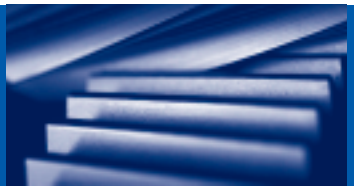
$M_{2\,perm} \leq 1378$ Nm

GFL 07 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
63.190	P_1 M_2	2.94 614	4.71 984			1.81 756	2.90 1211			0.90 756	1.45 1211		
71.200	P_1 M_2	2.94 692	4.41 1040			1.81 852	2.72 1280			0.90 852	1.36 1280		
79.875	P_1 M_2	2.36 624				1.45 768				0.73 768			
90.000	P_1 M_2	2.36 703				1.45 865				0.73 865			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 1378$ Nm

GFL 07 - 3 W

Dimensions page 4-133

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
65.306	P_1 M_2	2.31 492	3.26 693	3.37 717	1.42 605	2.01 854	2.07 883	0.71 605	1.00 854	1.04 883
72.452	P_1 M_2	2.36 557	2.99 706	2.99 706	1.45 686	1.84 869	1.84 869	0.73 686	0.92 869	0.92 869
81.636	P_1 M_2	2.36 628	2.99 795	2.99 795	1.45 773	1.84 979	1.84 979	0.73 773	0.92 979	0.92 979
92.413	P_1 M_2	2.31 696	2.59 780	2.59 780	1.42 857	1.60 961	1.60 961	0.71 857	0.80 961	0.80 961
104.127	P_1 M_2	2.31 784	2.59 879	2.59 879	1.42 965	1.60 1082	1.60 1082	0.71 965	0.80 1082	0.80 1082
113.206	P_1 M_2		2.29 844	2.29 844		1.41 1040	1.41 1040		0.70 1040	0.70 1040
127.556	P_1 M_2		2.29 951	2.29 951		1.41 1171	1.41 1171		0.70 1171	0.70 1171
147.347	P_1 M_2	1.61 773	1.93 926	1.93 926	0.99 951	1.19 1140	1.19 1140	0.50 951	0.59 1140	0.59 1140
166.025	P_1 M_2	1.61 871	1.87 1014	1.87 1014	0.99 1072	1.15 1248	1.15 1248	0.50 1072	0.58 1248	0.58 1248
183.285	P_1 M_2	1.35 806	1.68 1003	1.68 1003	0.83 993	1.03 1236	1.03 1236	0.42 993	0.52 1236	0.52 1236
206.519	P_1 M_2	1.35 909	1.51 1014	1.51 1014	0.83 1119	0.93 1248	0.93 1248	0.42 1119	0.46 1248	0.46 1248
224.636	P_1 M_2	1.35 988	1.49 1091	1.49 1091	0.83 1217	0.92 1343	0.92 1343	0.42 1217	0.46 1343	0.46 1343
253.111	P_1 M_2	1.24 1022	1.24 1022	1.24 1022	0.76 1258	0.76 1258	0.76 1258	0.38 1258	0.38 1258	0.38 1258
290.706	P_1 M_2	1.09 1030	1.18 1119		0.67 1268	0.73 1378		0.34 1268	0.36 1378	
327.556	P_1 M_2	0.96 1022	0.96 1022		0.59 1258	0.59 1258		0.30 1258	0.30 1258	
352.811	P_1 M_2	0.91 1045	0.97 1119		0.56 1287	0.60 1378		0.28 1287	0.30 1378	
397.533	P_1 M_2	0.79 1022	0.79 1022		0.49 1258	0.49 1258		0.24 1258	0.24 1258	
430.222	P_1 M_2	0.74 1031	0.74 1031		0.45 1270	0.45 1270		0.23 1270	0.23 1270	
522.133	P_1 M_2	0.61 1031	0.61 1031		0.37 1270	0.37 1270		0.19 1270	0.19 1270	
562.391	P_1 M_2	0.50 916	0.50 916		0.31 1128	0.31 1128		0.15 1128	0.15 1128	
633.680	P_1 M_2	0.48 991	0.48 991		0.30 1220	0.30 1220		0.15 1220	0.15 1220	
718.786	P_1 M_2	0.39 916			0.24 1128			0.12 1128		
809.900	P_1 M_2	0.38 991			0.23 1220			0.12 1220		

Thermal power limit not considered (see page 2-4)

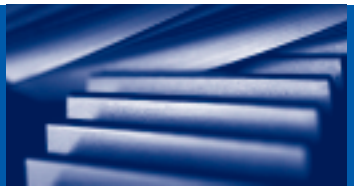
$M_{2\,perm} \leq 3107$ Nm

GFL 09 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
6.864	P_1 M_2			54.6 1241	74.7 1697			33.6 1528	46.0 2089			16.8 1528	23.0 2089
7.466	P_1 M_2			54.6 1350	70.9 1751			33.6 1662	43.6 2156			16.8 1662	21.8 2156
9.010	P_1 M_2		28.4 846	46.3 1379	60.8 1811		17.5 1041	28.5 1698	37.4 2230		8.73 1041	14.2 1698	18.7 2230
9.799	P_1 M_2		28.4 920	46.3 1500	57.9 1876		17.5 1133	28.5 1847	35.6 2310		8.73 1133	14.2 1847	17.8 2310
11.167	P_1 M_2		25.6 946	42.5 1569	50.6 1870		15.8 1165	26.1 1932	31.2 2303		7.88 1165	13.1 1932	15.6 2303
12.307	P_1 M_2			44.3 1806	44.3 1806			27.3 2223	27.3 2223			13.7 2223	13.7 2223
14.333	P_1 M_2		28.4 1345	40.7 1928	40.7 1928		17.5 1657	25.0 2374	25.0 2374		8.73 1657	12.5 2374	12.5 2374
16.333	P_1 M_2		25.6 1384	37.0 1998	37.0 1998		15.8 1704	22.8 2461	22.8 2461		7.88 1704	11.4 2461	11.4 2461
18.407	P_1 M_2		25.6 1559	33.1 2014	33.1 2014		15.8 1920	20.4 2479	20.4 2479		7.88 1920	10.2 2479	10.2 2479
19.667	P_1 M_2	14.9 969	22.5 1464	32.0 2082	32.0 2082	9.16 1193	13.9 1803	19.7 2563	19.7 2563	4.58 1193	6.93 1803	9.85 2563	9.85 2563
22.164	P_1 M_2	14.9 1092	22.5 1650	28.9 2121	28.9 2121	9.16 1344	13.9 2031	17.8 2612	17.8 2612	4.58 1344	6.93 2031	8.90 2612	8.90 2612
24.111	P_1 M_2		19.4 1545	27.7 2211	27.7 2211		11.9 1902	17.1 2722	17.1 2722		5.96 1902	8.53 2722	8.53 2722
27.173	P_1 M_2		19.4 1741	25.0 2247	25.0 2247		11.9 2143	15.4 2767	15.4 2767		5.96 2143	7.69 2767	7.69 2767
32.667	P_1 M_2	10.1 1092	15.2 1640	22.5 2428		6.22 1344	9.34 2020	13.8 2990		3.11 1344	4.67 2020	6.91 2990	
36.815	P_1 M_2	10.1 1230	15.2 1848	20.1 2451		6.22 1515	9.34 2276	12.4 3018		3.11 1515	4.67 2276	6.19 3018	
39.667	P_1 M_2	8.64 1134	13.0 1708	19.2 2523		5.32 1396	8.01 2103	11.8 3107		2.66 1396	4.01 2103	5.92 3107	
44.704	P_1 M_2	8.64 1278	13.0 1925	16.6 2458		5.32 1573	8.01 2370	10.2 3027		2.66 1573	4.01 2370	5.12 3027	
51.333	P_1 M_2	6.94 1178	10.4 1774			4.27 1451	6.43 2184			2.14 1451	3.21 2184		
57.852	P_1 M_2	6.94 1328	10.4 1999			4.27 1635	6.43 2461			2.14 1635	3.21 2461		
62.300	P_1 M_2	5.83 1201	8.72 1797			3.59 1479	5.37 2213			1.79 1479	2.68 2213		
70.211	P_1 M_2	5.83 1354	8.72 2025			3.59 1667	5.37 2494			1.79 1667	2.68 2494		
78.750	P_1 M_2	4.70 1225				2.89 1508				1.45 1508			
88.750	P_1 M_2	4.70 1380				2.89 1700				1.45 1700			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 3170$ Nm

GFL 09 - 3 W

Dimensions page 4-133

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
63.326	P_1 M_2	4.01 827	5.94 1226	5.94 1226	5.94 1226	2.47 1019	3.66 1510	3.66 1510	3.66 1510	1.23 1019	1.83 1510	1.83 1510	1.83 1510
73.173	P_1 M_2		5.17 1232	5.17 1232	5.17 1232		3.18 1517	3.18 1517	3.18 1517		1.59 1517	1.59 1517	1.59 1517
82.465	P_1 M_2		5.17 1389	5.17 1389	5.17 1389		3.18 1710	3.18 1710	3.18 1710		1.59 1710	1.59 1710	1.59 1710
93.333	P_1 M_2	4.01 1219	4.52 1374	4.52 1374	4.52 1374	2.47 1502	2.78 1692	2.78 1692	2.78 1692	1.23 1502	1.39 1692	1.39 1692	1.39 1692
105.185	P_1 M_2	4.01 1374	4.52 1549	4.52 1549	4.52 1549	2.47 1692	2.78 1907	2.78 1907	2.78 1907	1.23 1692	1.39 1907	1.39 1907	1.39 1907
114.333	P_1 M_2		4.03 1500	4.03 1500	4.03 1500		2.48 1847	2.48 1847	2.48 1847		1.24 1847	1.24 1847	1.24 1847
128.852	P_1 M_2		4.03 1691	4.03 1691	4.03 1691		2.48 2082	2.48 2082	2.48 2082		1.24 2082	1.24 2082	1.24 2082
148.815	P_1 M_2	2.77 1343	3.44 1667	3.44 1667		1.71 1654	2.12 2053	2.12 2053		0.85 1654	1.06 2053	1.06 2053	
167.712	P_1 M_2	2.77 1514	3.44 1879	3.44 1879		1.71 1864	2.12 2314	2.12 2314		0.85 1864	1.06 2314	1.06 2314	
185.111	P_1 M_2	2.32 1397	3.00 1812	3.00 1812		1.43 1720	1.85 2231	1.85 2231		0.71 1720	0.93 2231	0.93 2231	
208.617	P_1 M_2	2.32 1575	3.00 2042	3.00 2042		1.43 1939	1.85 2515	1.85 2515		0.71 1939	0.93 2515	0.93 2515	
224.778	P_1 M_2	2.32 1696	2.67 1955	2.67 1955		1.43 2089	1.64 2407	1.64 2407		0.71 2089	0.82 2407	0.82 2407	
253.321	P_1 M_2	2.32 1912	2.67 2203	2.67 2203		1.43 2354	1.64 2712	1.64 2712		0.71 2354	0.82 2712	0.82 2712	
290.889	P_1 M_2	1.79 1695	2.26 2144			1.10 2087	1.39 2640			0.55 2087	0.70 2640		
327.827	P_1 M_2	1.79 1910	2.26 2417			1.10 2352	1.39 2975			0.55 2352	0.70 2975		
353.033	P_1 M_2	1.55 1785	1.99 2285			0.96 2197	1.22 2813			0.48 2197	0.61 2813		
397.863	P_1 M_2	1.55 2011	1.99 2575			0.96 2476	1.22 3170			0.48 2476	0.61 3170		
424.247	P_1 M_2	1.60 2212	1.60 2212			0.99 2724	0.99 2724			0.49 2724	0.49 2724		
514.881	P_1 M_2	1.32 2212	1.32 2212			0.81 2724	0.81 2724			0.41 2724	0.41 2724		
554.470	P_1 M_2	0.95 1716	0.95 1716			0.58 2113	0.58 2113			0.29 2113	0.29 2113		
624.879	P_1 M_2	0.91 1846	0.91 1846			0.56 2273	0.56 2273			0.28 2273	0.28 2273		
700.875	P_1 M_2	0.75 1716				0.46 2113				0.23 2113			
789.875	P_1 M_2	0.72 1846				0.44 2273				0.22 2273			

Thermal power limit not considered (see page 2-4)

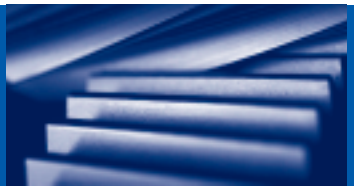
$M_{2\,perm} \leq 5159$ Nm

GFL 11 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1F	1G	1H	1K	1F	1G	1H	1K	1F	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]												
6.864	P_1 M_2			105.5 2397	120.3 2732			65.0 2951	74.1 3364			32.5 2951	37.0 3364
7.466	P_1 M_2			105.5 2607	116.1 2869			65.0 3210	71.5 3533			32.5 3210	35.8 3533
9.010	P_1 M_2			93.5 2787	101.8 3034			57.6 3432	62.7 3736			28.8 3432	31.3 3736
9.799	P_1 M_2			93.5 3032	94.4 3060			57.6 3733	58.1 3767			28.8 3733	29.0 3767
10.720	P_1 M_2		53.6 1900	87.4 3101	87.4 3101		33.0 2339	53.8 3818	53.8 3818		16.5 2339	26.9 3818	26.9 3818
12.480	P_1 M_2			68.2 2815	68.2 2815			42.0 3466	42.0 3466			21.0 3466	21.0 3466
14.538	P_1 M_2			62.8 3020	62.8 3020			38.6 3718	38.6 3718			19.3 3718	19.3 3718
15.904	P_1 M_2		53.6 2818	58.6 3086	58.6 3086		33.0 3470	36.1 3800	36.1 3800		16.5 3470	18.1 3800	18.1 3800
17.920	P_1 M_2		51.9 3077	51.9 3077	51.9 3077		32.0 3789	32.0 3789	32.0 3789		16.0 3789	16.0 3789	16.0 3789
20.286	P_1 M_2	27.3 1832	45.3 3044	48.9 3285	48.9 3285	16.8 2255	27.9 3747	30.1 4045	30.1 4045	8.40 2255	14.0 3747	15.1 4045	15.1 4045
22.857	P_1 M_2	27.3 2064	43.4 3279	43.4 3279	43.4 3279	16.8 2541	26.7 4037	26.7 4037	26.7 4037	8.40 2541	13.3 4037	13.3 4037	13.3 4037
24.850	P_1 M_2		39.1 3213	42.2 3466	42.2 3466		24.1 3956	26.0 4268	26.0 4268		12.0 3956	13.0 4268	13.0 4268
28.000	P_1 M_2		37.4 3462	37.4 3462	37.4 3462		23.0 4263	23.0 4263	23.0 4263		11.5 4263	11.5 4263	11.5 4263
32.739	P_1 M_2	19.0 2057	31.5 3413	34.5 3738		11.7 2533	19.4 4202	21.2 4603		5.85 2533	9.70 4202	10.6 4603	
36.889	P_1 M_2	19.0 2318	30.6 3737	30.6 3737		11.7 2854	18.8 4601	18.8 4601		5.85 2854	9.42 4601	9.42 4601	
40.233	P_1 M_2	15.9 2113	26.4 3517	29.8 3965		9.77 2602	16.3 4330	18.3 4882		4.89 2602	8.13 4330	9.17 4882	
45.333	P_1 M_2	15.9 2381	26.4 3963	26.4 3964		9.77 2932	16.3 4879	16.3 4881		4.89 2932	8.13 4879	8.13 4881	
52.067	P_1 M_2	12.8 2197	21.2 3658			7.85 2705	13.1 4504			3.93 2705	6.54 4504		
58.667	P_1 M_2	12.8 2476	21.2 4121			7.85 3048	13.1 5074			3.93 3048	6.54 5074		
63.190	P_1 M_2	10.7 2226	17.8 3719			6.55 2741	11.0 4579			3.28 2741	5.47 4579		
71.200	P_1 M_2	10.7 2508	17.8 4190			6.55 3089	11.0 5159			3.28 3089	5.47 5159		
79.875	P_1 M_2	8.54 2257				5.26 2779				2.63 2779			
90.000	P_1 M_2	8.54 2543				5.26 3131				2.63 3131			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 5952$ Nm

GFL 11 - 3 W

Dimensions page 4-133

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
65.306	P_1 M_2	7.37 1569	11.0 2348	11.0 2348	11.0 2348	4.54 1932	6.79 2891	6.79 2891	6.79 2891	2.27 1932	3.40 2891	3.40 2891	3.40 2891
73.335	P_1 M_2		9.77 2335	9.77 2335	9.77 2335		6.01 2875	6.01 2875	6.01 2875		3.01 2875	3.01 2875	3.01 2875
82.631	P_1 M_2		9.77 2631	9.77 2631	9.77 2631		6.01 3240	6.01 3240	6.01 3240		3.01 3240	3.01 3240	3.01 3240
93.540	P_1 M_2	7.37 2248	8.54 2604	8.54 2604	8.54 2604	4.54 2768	5.26 3206	5.26 3206	5.26 3206	2.27 2768	2.63 3206	2.63 3206	2.63 3206
105.397	P_1 M_2	7.37 2533	8.54 2934	8.54 2934	8.54 2934	4.54 3118	5.26 3613	5.26 3613	5.26 3613	2.27 3118	2.63 3613	2.63 3613	2.63 3613
114.586	P_1 M_2		7.61 2843	7.61 2843	7.61 2843		4.69 3501	4.69 3501	4.69 3501		2.34 3501	2.34 3501	2.34 3501
129.111	P_1 M_2		7.61 3204	7.61 3204	7.61 3204		4.69 3945	4.69 3945	4.69 3945		2.34 3945	2.34 3945	2.34 3945
149.144	P_1 M_2	5.17 2513	6.51 3162	6.51 3162		3.18 3094	4.01 3894	4.01 3894		1.59 3094	2.00 3894	2.00 3894	
168.049	P_1 M_2	5.17 2832	6.51 3563	6.51 3563		3.18 3487	4.01 4387	4.01 4387		1.59 3487	2.00 4387	2.00 4387	
182.792	P_1 M_2	4.46 2655	5.77 3437	5.77 3437		2.74 3268	3.55 4232	3.55 4232		1.37 3268	1.78 4232	1.78 4232	
205.963	P_1 M_2	4.46 2991	5.77 3873	5.77 3873		2.74 3683	3.55 4769	3.55 4769		1.37 3683	1.78 4769	1.78 4769	
224.636	P_1 M_2	4.46 3262	5.02 3674	5.02 3674		2.74 4017	3.09 4523	3.09 4523		1.37 4017	1.54 4523	1.54 4523	
253.111	P_1 M_2	4.46 3676	5.02 4139	5.02 4139		2.74 4526	3.09 5097	3.09 5097		1.37 4526	1.54 5097	1.54 5097	
267.259	P_1 M_2	4.76 4147	4.76 4147	4.76 4147		2.93 5106	2.93 5106	2.93 5106		1.47 5106	1.47 5106	1.47 5106	
327.556	P_1 M_2	4.20 4485	4.20 4485	4.20 4485		2.59 5523	2.59 5523	2.59 5523		1.29 5523	1.29 5523	1.29 5523	
358.077	P_1 M_2	2.94 3426	3.68 4290			1.81 4219	2.26 5283			0.90 4219	1.13 5283		
403.467	P_1 M_2	2.94 3861	3.68 4834			1.81 4753	2.26 5952			0.90 4753	1.13 5952		
430.222	P_1 M_2	3.44 4826	3.44 4826			2.12 5942	2.12 5942			1.06 5942	1.06 5942		
522.133	P_1 M_2	2.84 4826	2.84 4826			1.75 5942	1.75 5942			0.87 5942	0.87 5942		
562.391	P_1 M_2	2.36 4320	2.36 4320			1.45 5319	1.45 5319			0.73 5319	0.73 5319		
633.680	P_1 M_2	2.30 4746	2.30 4746			1.42 5844	1.42 5844			0.71 5844	0.71 5844		
710.888	P1 M_2	1.86 4320				1.15 5319				0.57 5319			
801.000	P_1 M_2	1.82 4746				1.12 5844				0.56 5844			

Thermal power limit not considered (see page 2-4)

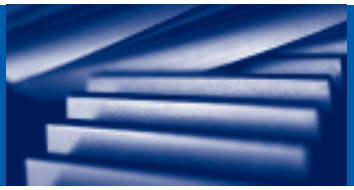
$M_{2\,perm} \leq 11344$ Nm

GFL 14 - 2 W

Dimensions page 4-132

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1G	1H	1K	1G	1H	1K	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]									
7.150	P_1 M_2			187.3 4432			115.3 5458			57.7 5458
7.777	P_1 M_2			187.3 4821			115.3 5936			57.7 5936
8.800	P_1 M_2		107.8 3139	179.3 5222		66.4 3865	110.4 6430		33.2 3865	55.2 6430
9.571	P_1 M_2		107.8 3414	179.3 5680		66.4 4204	110.4 6993		33.2 4204	55.2 6993
11.538	P_1 M_2			176.0 6718			108.3 8272			54.2 8272
13.000	P_1 M_2			159.6 6868			98.3 8456			49.1 8456
14.200	P_1 M_2		107.8 5065	152.7 7173		66.4 6236	94.0 8832		33.2 6236	47.0 8832
15.620	P_1 M_2		105.5 5454	142.9 7387		65.0 6715	88.0 9095		32.5 6715	44.0 9095
17.600	P_1 M_2		105.5 6145	129.0 7511		65.0 7566	79.4 9248		32.5 7566	39.7 9248
19.948	P_1 M_2		91.0 6009	120.7 7969		56.0 7399	74.3 9812		28.0 7399	37.2 9812
22.476	P_1 M_2		91.0 6771	108.1 8037		56.0 8337	66.5 9896		28.0 8337	33.3 9896
24.456	P_1 M_2		78.6 6359	104.2 8436		48.4 7830	64.2 10387		24.2 7830	32.1 10387
27.556	P_1 M_2		78.6 7165	93.3 8511		48.4 8823	57.5 10480		24.2 8823	28.7 10480
32.344	P_1 M_2	38.1 4073	63.0 6739	84.7 9063	23.4 5015	38.8 8297	52.1 11159	11.7 5015	19.4 8297	26.1 11159
36.444	P_1 M_2	38.1 4589	63.0 7593	76.4 9213	23.4 5650	38.8 9349	47.0 11344	11.7 5650	19.4 9349	23.5 11344
39.642	P_1 M_2	32.6 4270	53.8 7063		20.0 5258	33.2 8696		10.0 5258	16.6 8696	
44.667	P_1 M_2	32.6 4811	53.8 7958		20.0 5924	33.2 9798		10.0 5924	16.6 9798	
52.067	P_1 M_2	25.7 4420	42.4 7303		15.8 5443	26.1 8992		7.90 5443	13.1 8992	
58.667	P_1 M_2	25.7 4981	42.4 8229		15.8 6133	26.1 10132		7.90 6133	13.1 10132	
63.190	P_1 M_2	21.5 4497	35.6 7434		13.2 5537	21.9 9153		6.62 5537	10.9 9153	
71.200	P_1 M_2	21.5 5067	35.6 8376		13.2 6239	21.9 10314		6.62 6239	10.9 10314	
79.875	P_1 M_2	17.3 4577			10.7 5636			5.33 5636		
90.000	P_1 M_2	17.3 5157			10.7 6350			5.33 6350		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 11615$ Nm

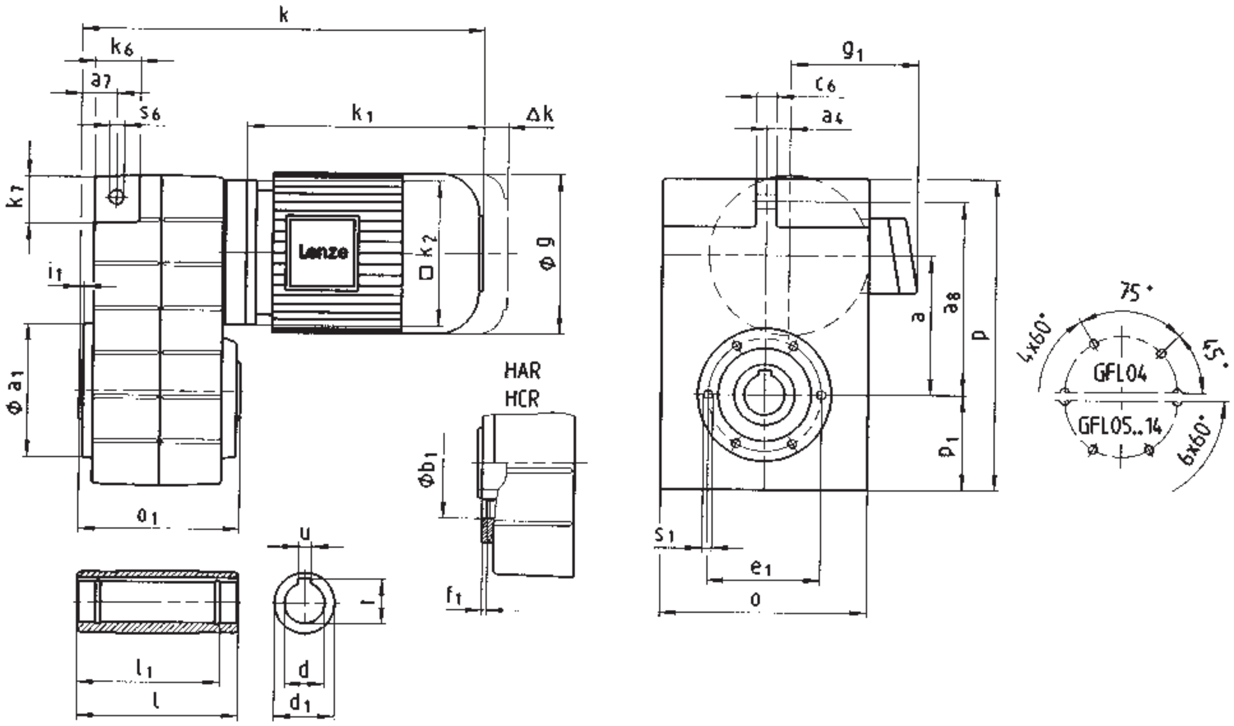
GFL 14 - 3 W

Dimensions page 4-133

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
64.296	P_1 M_2		21.7 4556	21.7 4556	21.7 4556		13.4 5609	13.4 5609	13.4 5609		6.69 5609	6.69 5609	6.69 5609
68.708	P_1 M_2	14.9 3333	19.6 4399	19.6 4399	19.6 4399	9.16 4104	12.1 5416	12.1 5416	12.1 5416	4.58 4104	6.05 5416	6.05 5416	6.05 5416
77.418	P_1 M_2	14.9 3756	19.6 4956	19.6 4956	19.6 4956	9.16 4624	12.1 6102	12.1 6102	12.1 6102	4.58 4624	6.05 6102	6.05 6102	6.05 6102
85.037	P_1 M_2		18.4 5097	18.4 5097	18.4 5097		11.3 6276	11.3 6276	11.3 6276		5.66 6276	5.66 6276	5.66 6276
104.889	P_1 M_2	10.1 3453	15.2 5188	16.4 5594		6.22 4251	9.34 6387	10.1 6888		3.11 4251	4.67 6387	5.04 6888	
114.126	P_1 M_2	10.1 3757	14.7 5457	14.7 5457		6.22 4626	9.03 6719	9.03 6719		3.11 4626	4.52 6719	4.52 6719	
128.593	P_1 M_2	10.1 4233	14.7 6149	14.7 6149		6.22 5212	9.03 7571	9.03 7571		3.11 5212	4.52 7571	4.52 7571	
136.889	P_1 M_2		13.4 5976	13.4 5976	13.4 5976		8.25 7359	8.25 7359	8.25 7359		4.12 7359	4.12 7359	4.12 7359
156.148	P_1 M_2	8.64 4396	13.0 6623	13.1 6682		5.32 5412	8.01 8155	8.08 8227		2.66 5412	4.01 8155	4.04 8227	
170.074	P_1 M_2	10.1 5598	12.3 6828	12.3 6828		6.22 6893	7.58 8408	7.58 8408		3.11 6893	3.79 8408	3.79 8408	
202.074	P_1 M_2	6.94 4569	10.4 6878			4.27 5625	6.43 8468			2.14 5625	3.21 8468		
224.636	P_1 M_2	8.64 6324	9.69 7097	9.69 7097		5.32 7786	5.97 8739	5.97 8739		2.66 7786	2.98 8739	2.98 8739	
253.111	P_1 M_2	8.64 7125	9.69 7997	9.69 7997		5.32 8773	5.97 9846	5.97 9846		2.66 8773	2.98 9846	2.98 9846	
273.778	P_1 M_2	8.88 7921	8.88 7921	8.88 7921		5.46 9753	5.46 9753	5.46 9753		2.73 9753	2.73 9753	2.73 9753	
332.444	P_1 M_2	7.91 8568	7.91 8568	7.91 8568		4.87 10550	4.87 10550	4.87 10550		2.43 10550	2.43 10550	2.43 10550	
352.811	P_1 M_2	5.83 6701	7.34 8437			3.59 8251	4.52 10389			1.79 8251	2.26 10389		
397.533	P_1 M_2	5.83 7550	7.28 9433			3.59 9296	4.48 11615			1.79 9296	2.24 11615		
430.222	P_1 M_2	6.12 8576	6.12 8576			3.77 10560	3.77 10560			1.88 10560	1.88 10560		
522.133	P_1 M_2	5.04 8576	5.04 8576			3.10 10560	3.10 10560			1.55 10560	1.55 10560		
562.391	P_1 M_2	4.00 7339	4.00 7339			2.47 9036	2.47 9036			1.23 9036	1.23 9036		
633.680	P_1 M_2	3.86 7968	3.86 7968			2.38 9811	2.38 9811			1.19 9811	1.19 9811		
710.888	P_1 M_2	3.17 7339				1.95 9036				0.98 9036			
801.000	P_1 M_2	3.05 7968				1.88 9811				0.94 9811			

Thermal power limit not considered (see page 2-4)

GFL ☐☐ - 2 M H☐R


k
k6
a7
s6
k1
Δk
g1
c6
a4
k7
Lenze
☐ k2
Φ g
i1
a
a8
p
75°
4x60°
45°
GFL04
GFL05..14
6x60°
Φ a1
HAR
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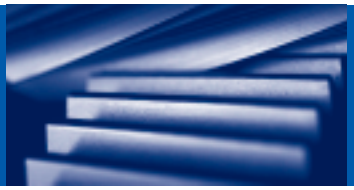


Geared motor **GFL □□ - 2 M H□R**			Motor frame size									
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

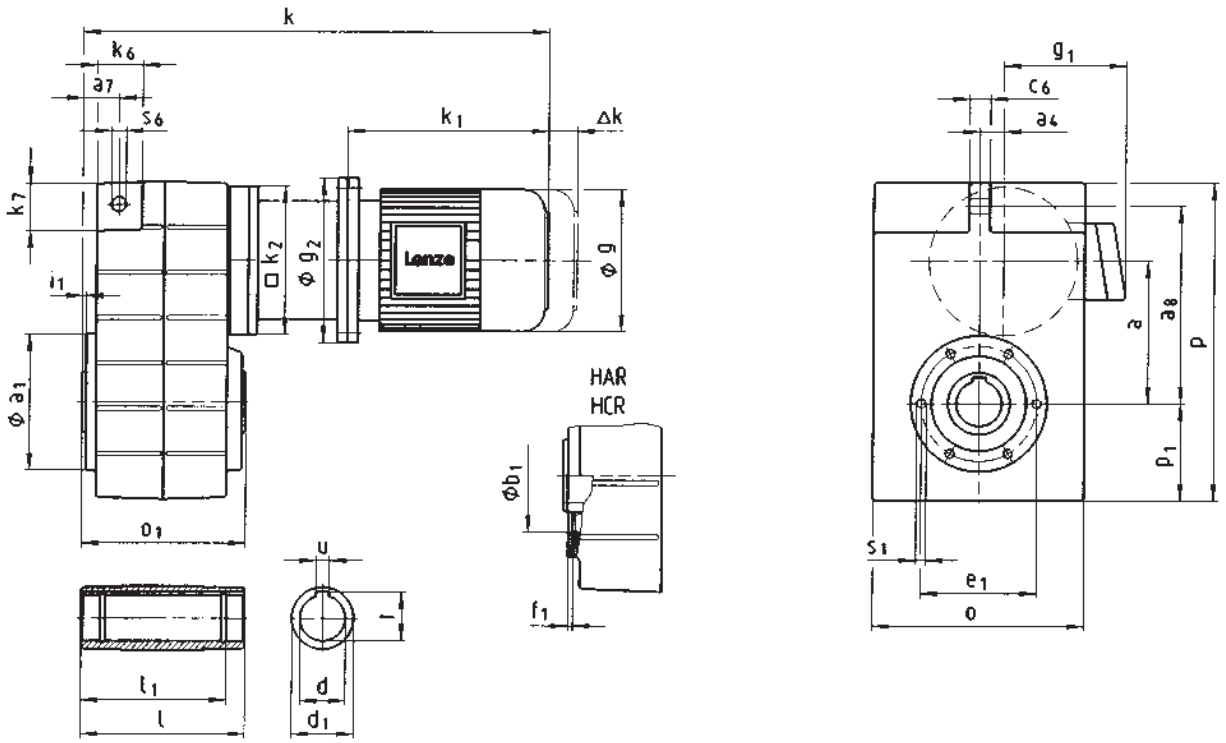
Gearbox size	Gearbox						Total length										
	o*	o_1	p*	p_1	a	a_4	k										
04	148	115	214	69	90.5	12.5	312	332	354								
05	165	140	252	78	112.5	18.5	334	353	376	437	470						
06	206	160	315	98	140	22	347	366	389	450	483	499	543				
07	256	200	386	118	173	29			422	483	516	532	576	625	701	745	
09	318	240	486	149	220	37.5				517	550	566	610	659	735	779	852
11	395	290	600	181	276.5	50					591	607	651	700	776	820	893
14	490	350	740	228	339	65						652	696	745	821	865	938

Gearbox size	Hollow shaft						Pitch circle						Torque plate					
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	l_1	s_1	a_7	a_8	c_6	s_6	k_6	k_7
04	25 30	115	45	100	8 8	28.3 33.3	110	75	90	3	2.5	M6x12	22.5	128	14	12.5	32	35
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	29	155	16	14	35	38
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	35	195	20	14	46	46
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	44	240	25	18	56	56
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	50	300	32	22	70	70
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	65	375	40	26	84	90
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	80	455	50	32	100	114

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 2 M H□R


k
k6
a7
s6
k1
Δk
k7
i1
□ k2
ϕ g2
ϕ g
Lenze
ϕ a1
HAR
HCR
ϕb1
f1
o1
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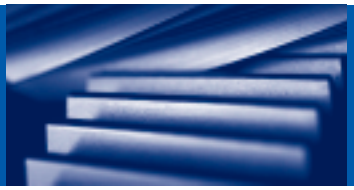
g1
c6
a4
a
a8
p
p1
s1
e1
o



Geared motor **GFL □□ - 2 M H□R**			Motor frame size **200N32**	**225N12 225N22**
Motor	**g**		388	433
	g_1	Without option	291	319
		Brake motor	309	327
	g_2		400	450
	k_1		661	693
	k_2		300	300
	Δk	Brake	175	200
		Separate fan	387	388
		Separate fan + brake	507	518

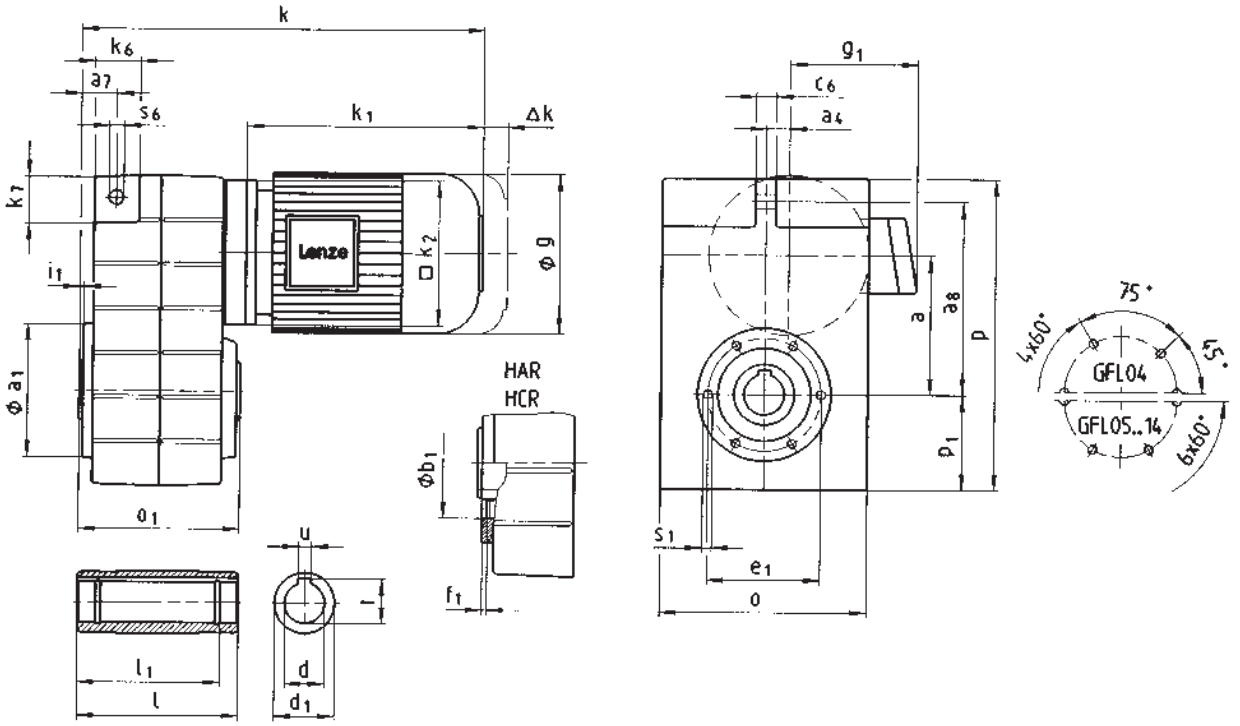
Gearbox size	Gearbox						Total length	
	o*	**o_1**	**p***	**p_1**	**a**	**a_4**	**k**	
09	318	240	486	149	220	37.5	1164	
11	395	290	600	181	276.5	50	1205	1267
14	490	350	740	228	339	65	1250	1312

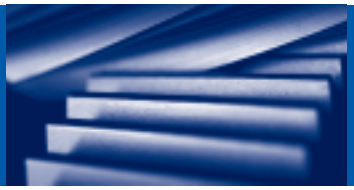
Gearbox size	Hollow shaft						Pitch circle						Torque plate					
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**l_1**	**s_1**	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	50	300	32	22	70	70
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	65	375	40	26	84	90
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	80	455	50	32	100	114

Dimensions in [mm]

* Observe dimension k_2

GFL □□ - 2 M H□R


k
k6
a7
s6
k1
Δk
k7
i1
Lenze
□ k2
ϕ g
ϕ a1
HAR
HCR
ϕb1
f1
l1
l
u
t
d
d1
g1
c6
a4
a
a8
p
p1
s1
e1
o
75°
4x60°
45°
GFL04
GFL05..14
6x60°



Geared motor **GFL □□ - 2 M H□R**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

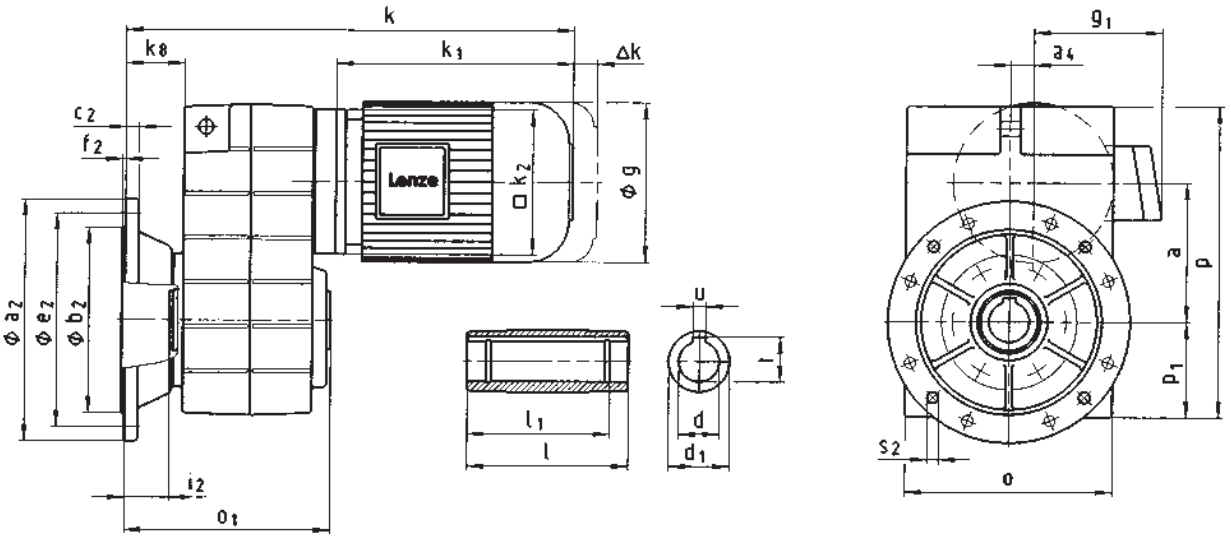
Gearbox size	Gearbox						Total length								
	o*	o_1	p*	p_1	a	a_4	k								
04	148	115	214	69	90.5	12.5	292	303	305	354					
05	165	140	252	78	112.5	18.5			327	376	403	441	471		
06	206	160	315	98	140	22			340	389	416	454	484	503	
07	256	200	386	118	173	29				422	449	487	517	536	630
09	318	240	486	149	220	37.5					483	521	551	570	664
11	395	290	600	181	276.5	50						562	592	611	705
14	490	350	740	228	339	65								656	750

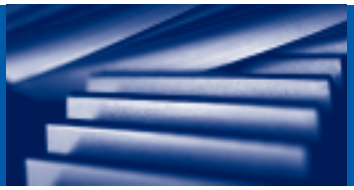
Gearbox size	Hollow shaft						Pitch circle						Torque plate					
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_7	a_8	c_6	s_6	k_6	k_7
04	25 30	115	45	100	8 8	28.3 33.3	110	75	90	3	2.5	M6x12	22.5	128	14	12.5	32	35
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	29	155	16	14	35	38
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	35	195	20	14	46	46
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	44	240	25	18	56	56
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	50	300	32	22	70	70
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	65	375	40	26	84	90
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	80	455	50	32	100	114

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 2 M HCK


k
k8
k1
Δk
c2
f2
Lenze
□k2
ϕ g
ϕ a2
ϕ e2
ϕ b2
u
t
l1
l
d
d1
i2
01
g1
a4
a
p
p1
s2
o



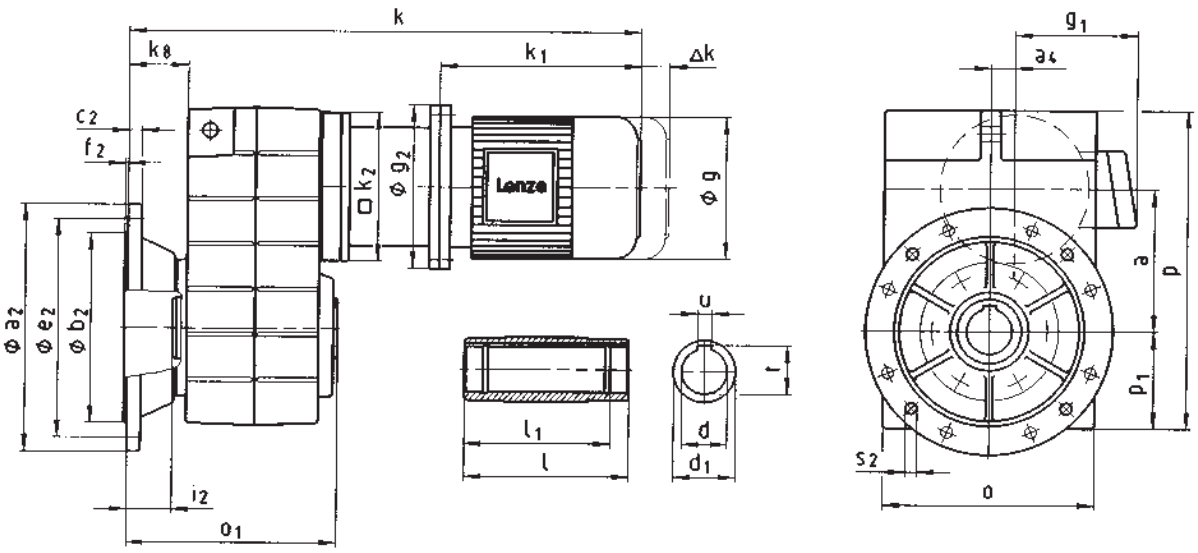
Geared motor			Motor frame size									
GFL □□ - 2 M HCK			**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**	**180-22 180-32**
Motor	**g**		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox							Total length									
	o*	**o_1**	**p***	**p_1**	**a**	**a_4**	**k_8**	**k**									
04	148	148	214	69	90.5	12.5	41	345	365	387							
05	165	173	252	78	112.5	18.5	46	367	386	409	470	503					
06	206	201	315	98	140	22	55	388	407	430	491	524	540	584			
07	256	255	386	118	173	29	72			477	538	571	587	631	680	756	800
09	318	300	486	149	220	37.5	77				577	610	626	670	719	795	839	912
11	395	350	600	181	276.5	50	85					651	667	711	760	836	880	953
14	490	410	740	228	339	65	89						712	756	805	881	925	998

Gearbox size	Hollow shaft						Output flange						
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



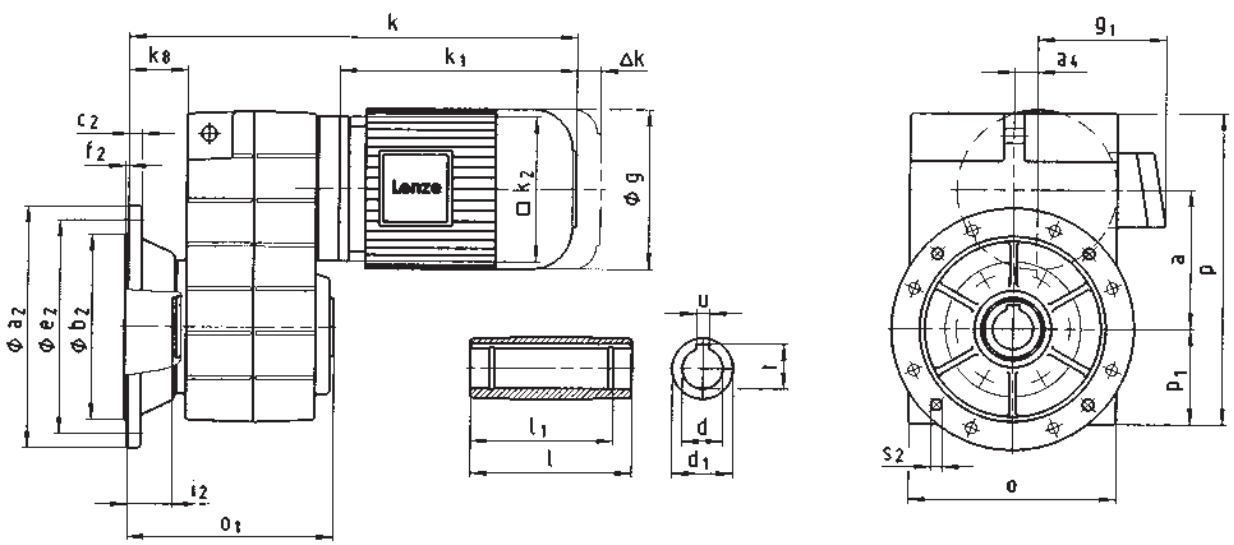
Geared motor **GFL□□ - 2 M HCK**		Motor frame size **200N32**	**225N12** **225N22**
Motor	g	388	433
	g_1 Without option	291	319
	Brake motor	309	327
	g_2	400	450
	k_1	661	693
	k_2	300	300
	Δk Brake	175	200
	Separate fan	387	388
	Separate fan + brake	507	518

Gearbox size	Gearbox							Total length
	o*	o_1	p*	p_1	a	a_4	k_8	k
09	318	300	486	149	220	37.5	77	1224
11	395	350	600	181	276.5	50	85	1265 / 1327
14	490	410	740	228	339	65	89	1310 / 1372

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2

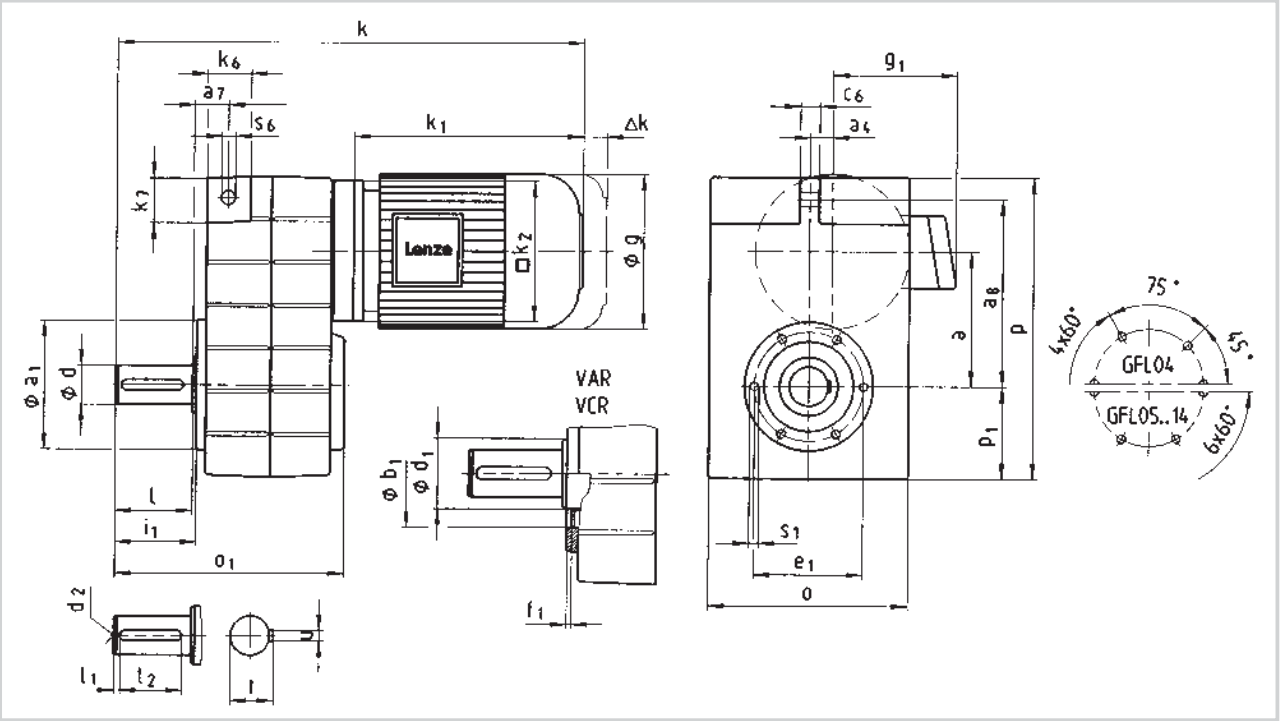


Geared motor **GFL □□ - 2 M HCK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox							Total length								
	o*	o_1	p*	p_1	a	a_4	k_8	k								
04	148	148	214	69	90.5	12.5	41	325	336	338	387					
05	165	173	252	78	112.5	18.5	46			360	409	436	474	504		
06	206	201	315	98	140	22	55			381	430	457	495	525	544	
07	256	255	386	118	173	29	72				477	504	542	572	591	685
09	318	300	486	149	220	37.5	77					543	581	611	630	724
11	395	350	600	181	276.5	50	85						622	652	671	765
14	490	410	740	228	339	65	89								716	810

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm] * Observe dimension k_2 ** For additional attachments see section 8



Geared motor			Motor frame size										
GFL □□ - 2 M V□R			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk**	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

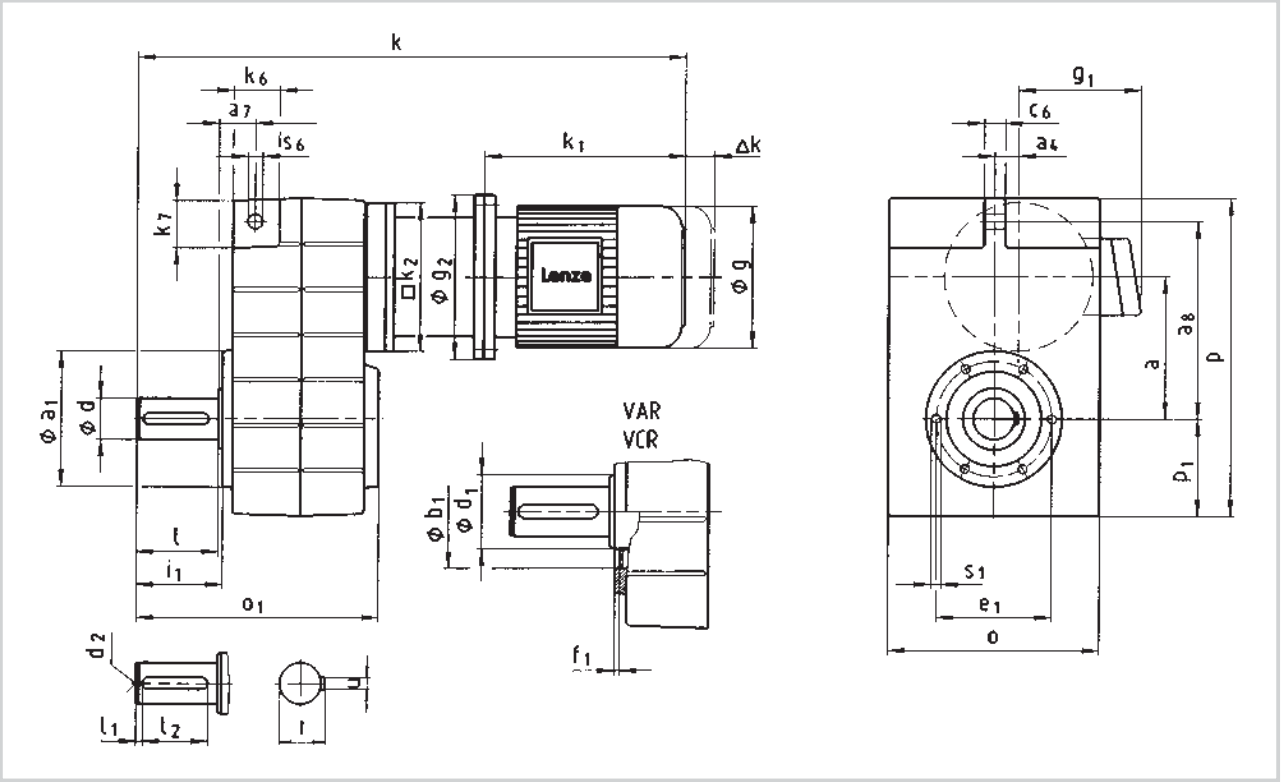
Gearbox size	Gearbox						Total length										
	o*	o_1	p*	p_1	a	a_4	k										
04	148	163	214	69	90.5	12.5	362	382	404	465							
05	165	197	252	78	112.5	18.5	394	413	436	497	530						
06	206	236	315	98	140	22	427	446	469	530	563	579	623				
07	256	296	386	118	173	29			522	583	616	632	676	725	801	845	
09	318	356	486	149	220	37.5				637	670	686	730	779	855	899	972
11	395	445	600	181	276.5	50					751	767	811	860	936	980	1053
14	490	544	740	228	339	65						852	896	945	1021	1065	1138

Gearbox size	Solid shaft								Pitch circle						Torque plate					
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_7	a_8	c_6	s_6	k_6	k_7
04	25	50	45	4	40	M10	8	28	110	75	90	3	52.5	M6x12	22.5	128	14	12.5	32	35
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	29	155	16	14	35	38
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	35	195	20	14	46	46
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	44	240	25	18	56	56
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	50	300	32	22	70	70
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	65	375	40	26	84	90
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	80	455	50	32	100	114

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GFL □□ - 2 M V□R**			Motor frame size **200N32**	 **225N12 225N22**
Motor	g		388	433
	g_1	Without option	291	319
		Brake motor	309	327
	g_2		400	450
	k_1		661	693
	k_2		300	300
	Δk	Brake	175	200
		Separate fan	387	388
		Separate fan + brake	507	518

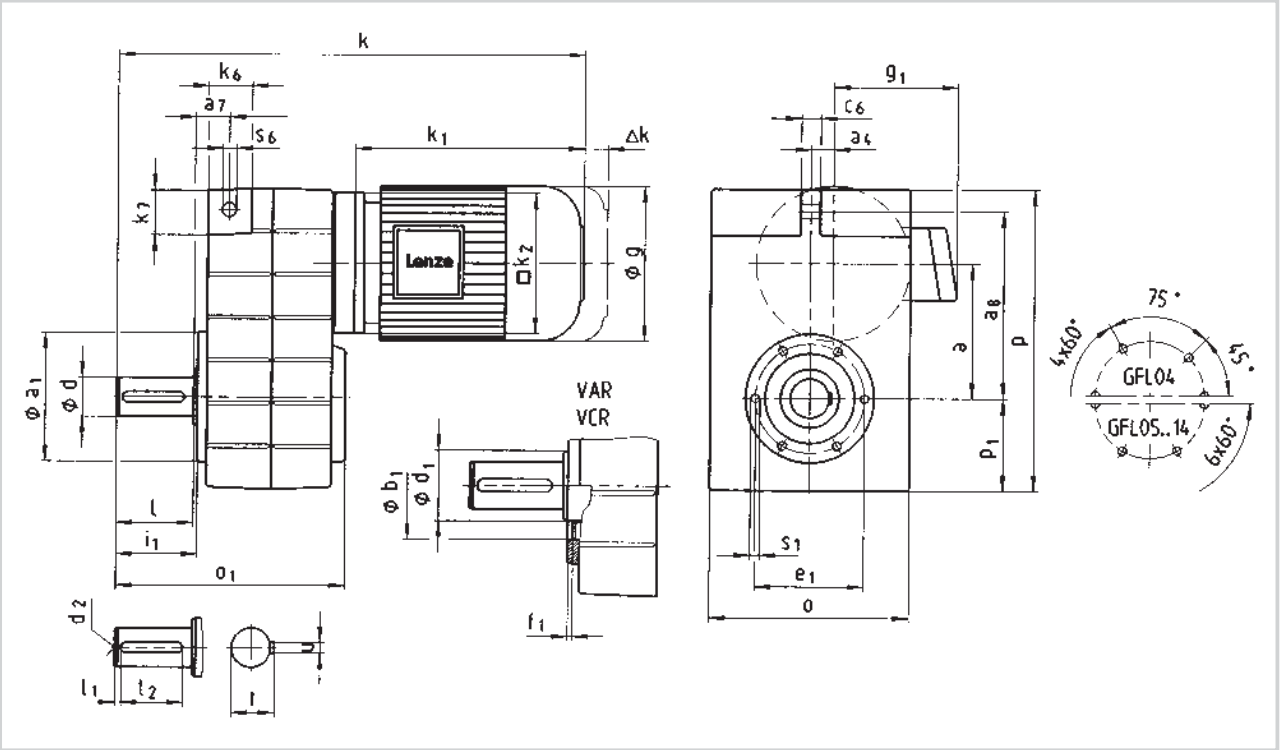
Gearbox size	Gearbox						Total length	
	o*	o_1	p*	p_1	a	a_4	k	
09	318	356	486	149	220	37.5	1284	
11	395	445	600	181	276.5	50	1365	1427
14	490	544	740	228	339	65	1450	1512

Gearbox size	Solid shaft								Pitch circle						Torque plate					
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_7	a_8	c_6	s_6	k_6	k_7
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	50	300	32	22	70	70
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	65	375	40	26	84	90
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	80	455	50	32	100	114

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2



Geared motor **GFL □□ - 2 M V□R**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk**	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

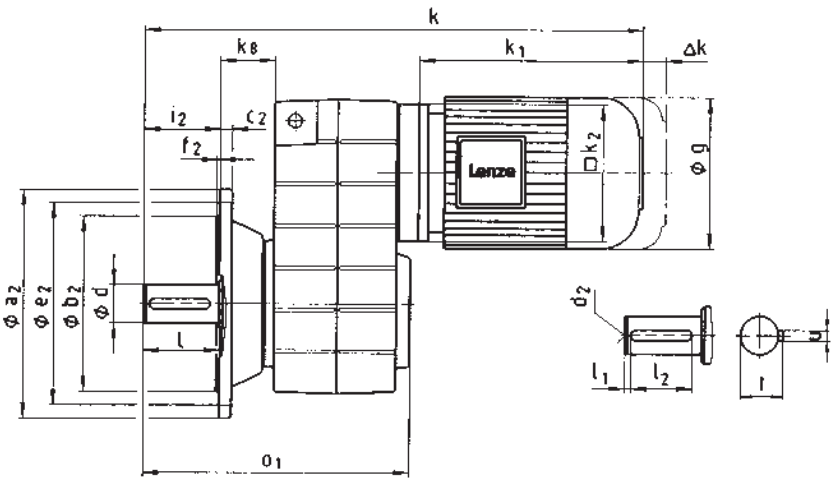
Gearbox size	Gearbox						Total length								
	o*	o_1	p*	p_1	a	a_4	k								
04	148	163	214	69	90.5	12.5	342	353	355	404	432				
05	165	197	252	78	112.5	18.5			387	436	463	501	531		
06	206	236	315	98	140	22			420	469	496	534	564	583	
07	256	296	386	118	173	29				522	549	587	617	636	730
09	318	356	486	149	220	37.5					603	641	671	690	784
11	395	445	600	181	276.5	50						722	752	771	865
14	490	544	740	228	339	65								856	950

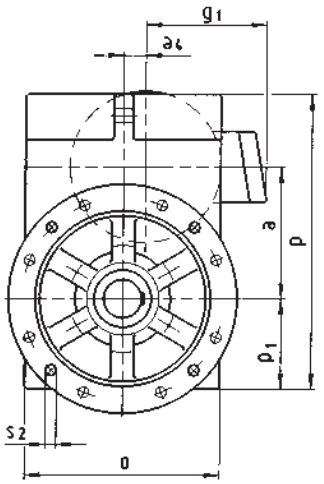
Gearbox size	Solid shaft								Pitch circle						Torque plate					
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 j7	e_1	f_1	l_1	s_1	a_7	a_8	c_6	s_6	k_6	k_7
04	25	50	45	4	40	M10	8	28	110	75	90	3	52.5	M6x12	22.5	128	14	12.5	32	35
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	29	155	16	14	35	38
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	35	195	20	14	46	46
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	44	240	25	18	56	56
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	50	300	32	22	70	70
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	65	375	40	26	84	90
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	80	455	50	32	100	114

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8





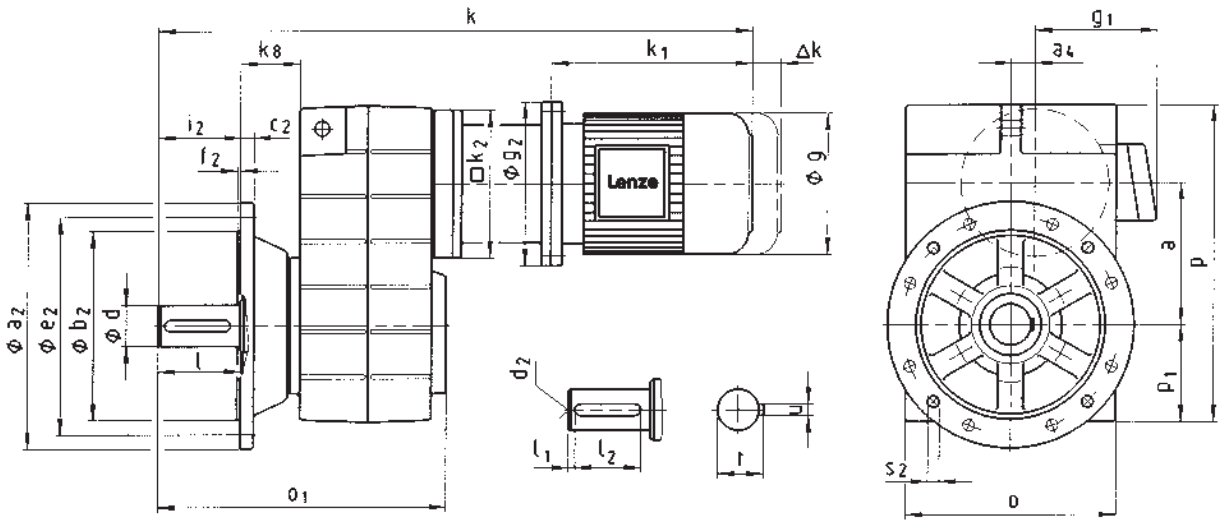
Geared motor			Motor frame size										
GFL □□ - 2 M VCK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox							Total length									
	o*	o_1	p*	p_1	a	a_4	k_8	k									
04	148	196	214	69	90.5	12.5	41	395	415	437	498						
05	165	230	252	78	112.5	18.5	46	427	446	469	530	563					
06	206	277	315	98	140	22	55	468	487	510	571	604	620	664			
07	256	351	386	118	173	29	72			577	638	671	687	731	780	856	900
09	318	416	486	149	220	37.5	77				697	730	746	790	839	915	959	1032
11	395	505	600	181	276.5	50	85					811	827	871	920	996	1040	1113
14	490	604	740	228	339	65	89						912	956	1005	1081	1125	1198

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm] d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GFL □□ - 2 M VCK**		Motor frame size **200N32**	 **225N12 225N22**
Motor	**g**	388	433
	g_1 Without option	291	319
	Brake motor	309	327
	g_2	400	450
	k_1	661	693
	k_2	300	300
	Δk Brake	175	200
	Separate fan	387	388
	Separate fan + brake	507	518

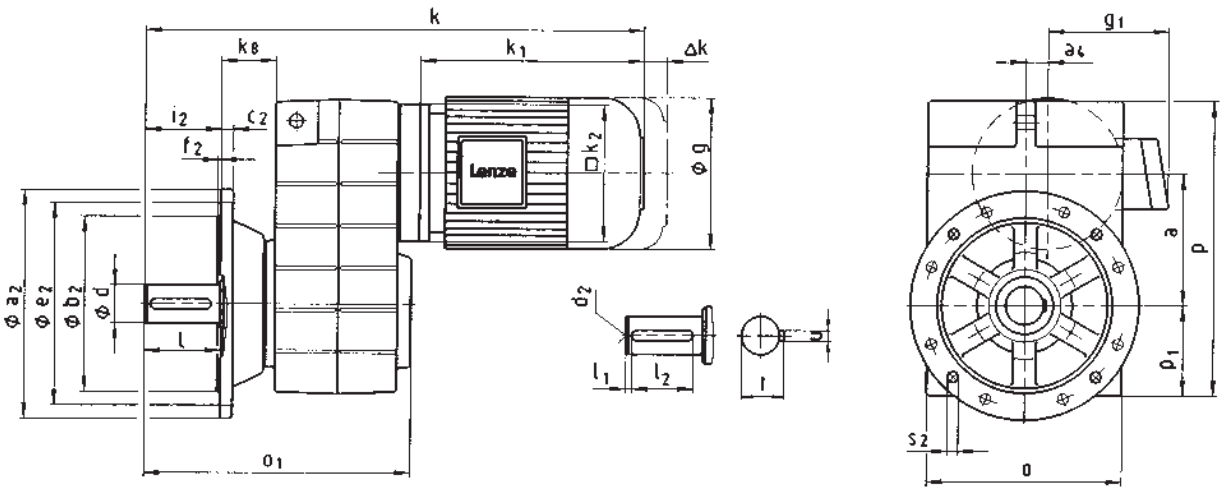
Gearbox size	Gearbox							Total length	
	o*	**o_1**	**p***	**p_1**	**a**	**a_4**	**k_8**	**k**	
09	318	416	486	149	220	37.5	77	1344	
11	395	505	600	181	276.5	50	85	1425	1487
14	490	604	740	228	339	65	89	1510	1572

Gearbox size	Solid shaft							Output flange						
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2



Geared motor **GFL □□ - 2 M VCK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox							Total length								
	o^*	o_1	p^*	p_1	a	a_4	k_8	k								
04	148	196	214	69	90.5	12.5	41	375	386	388	437	465				
05	165	230	252	78	112.5	18.5	46			420	469	496	534	564		
06	206	277	315	98	140	22	55			461	510	537	575	605	624	
07	256	351	386	118	173	29	72				577	604	642	672	691	785
09	318	416	486	149	220	37.5	77					663	701	731	750	844
11	395	505	600	181	276.5	50	85						782	812	831	925
14	490	604	740	228	339	65	89								916	1010

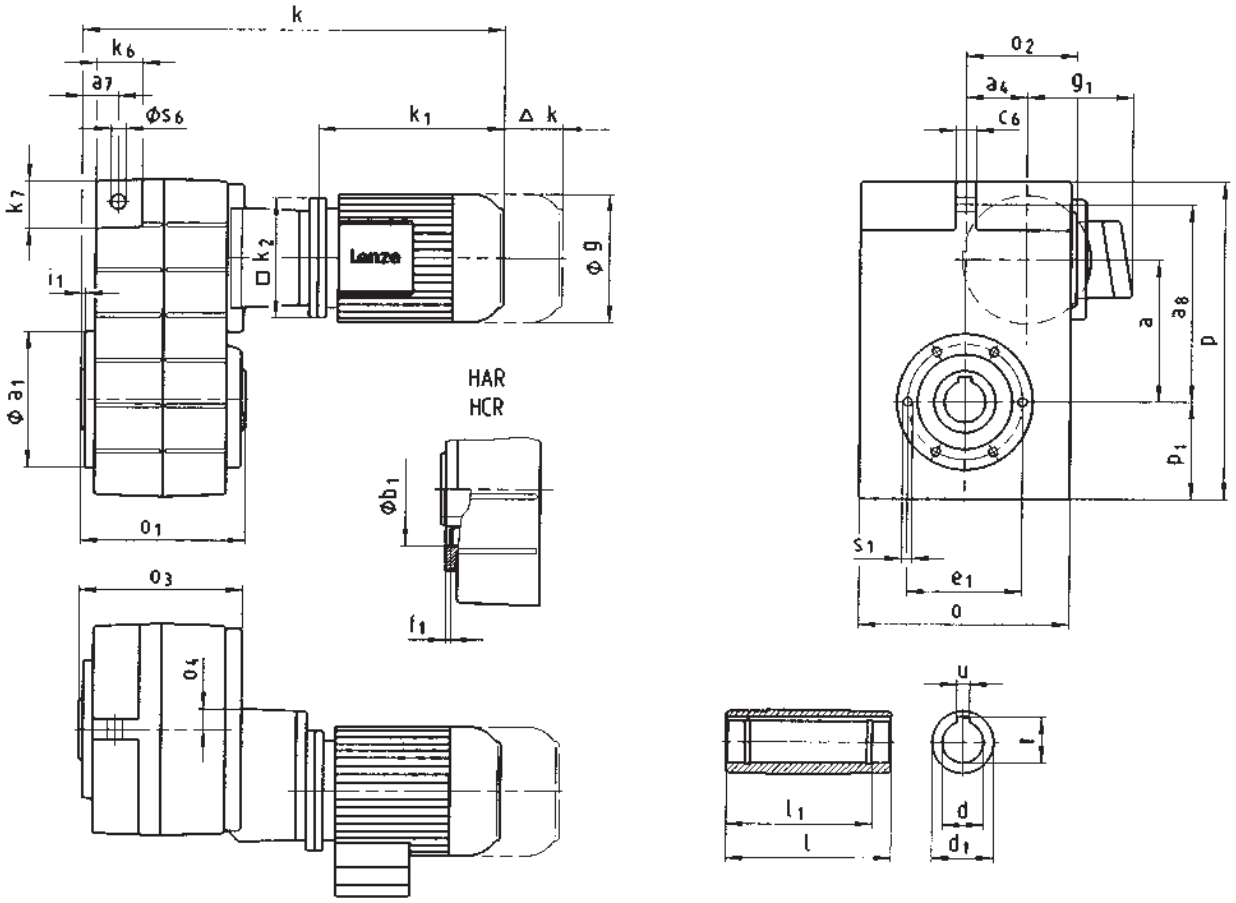
Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M H□R


k
k6
a7
ΦS6
k1
Δ k
k7
□ k2
Φ g
i1
Φ a1
HAR
HCR
Φb1
f1
o1
o3
o4
o2
a4
g1
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a8
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t
l1
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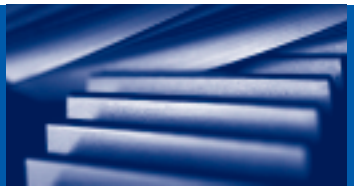
d1



Geared motor **GFL □□ - 3 M H□R**			Motor frame size									
			063C12 063C32 063C42	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**	**180-22 180-32**
Motor	**g**		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

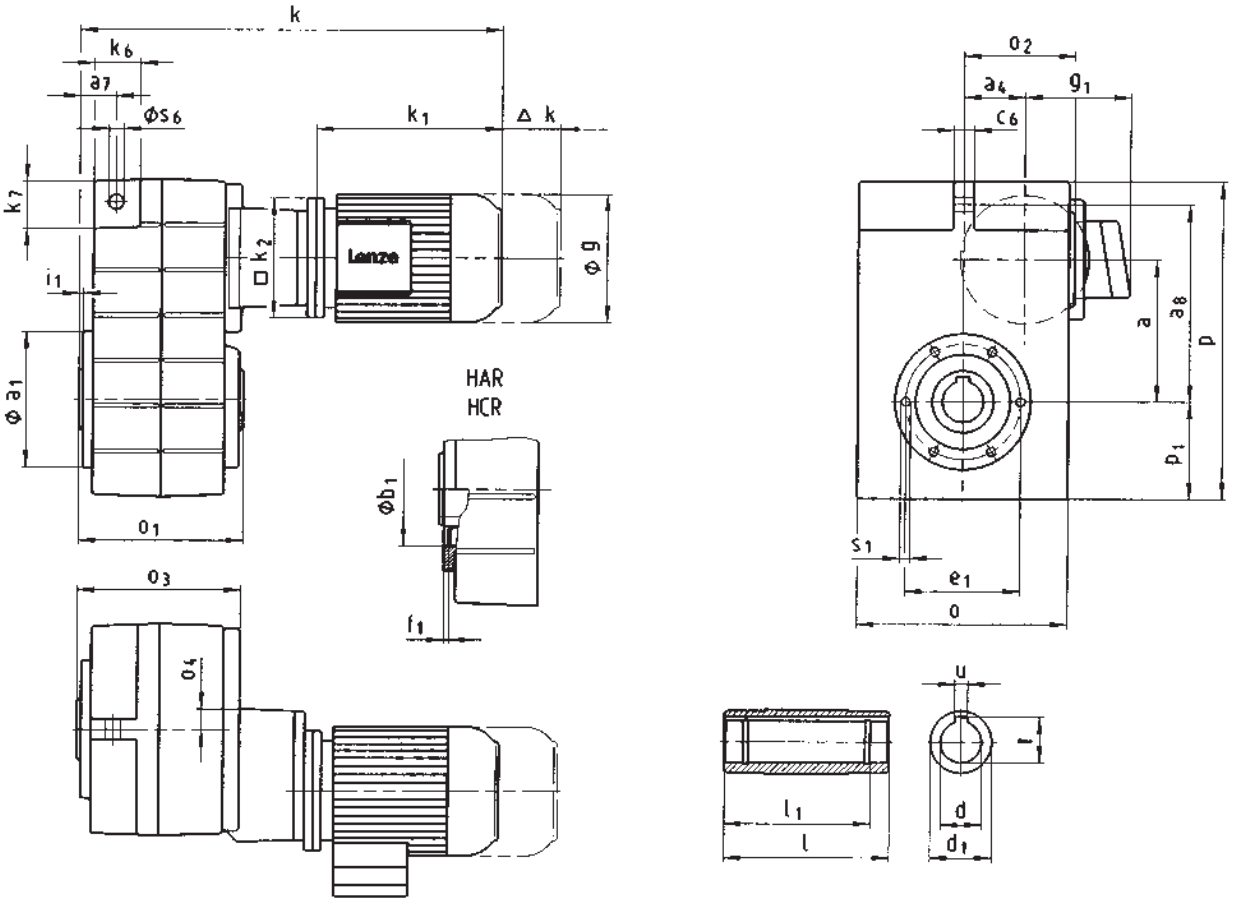
Gearbox size	Gearbox									Total length									
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k**									
05	165	140	107	141	23	252	78	112.5	54.5	410	430	452	513						
06	206	160	111	160	20	315	98	140	58	440	460	482	543						
07	256	200	135	199	24	386	118	173	74	484	504	526	587	621					
09	318	240	170	238	27	486	149	220	93.5	536	556	578	639	673	689	733			
11	395	290	216	285	34	600	181	276.5	120			638	699	733	749	793	841	918	962
14	490	350	271	340	38	740	228	339	154				778	812	828	872	920	997	1041	1113

Gearbox size	Hollow shaft						Pitch circle						Torque plate					
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	29	155	16	14	35	38
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	35	195	20	14	46	46
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	44	240	25	18	56	56
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	50	300	32	22	70	70
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	65	375	40	26	84	90
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	80	455	50	32	100	114

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M H□R


k
k6
a7
ΦS6
k1
Δ k
k7
□k2
Lenze
Φ g
i1
Φ a1
HAR
HCR
Φb1
f1
o1
o3
o4
o2
a4
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a8
p
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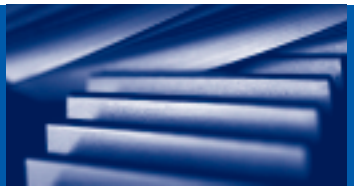


Geared motor **GFL □□ - 3 M H□R**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

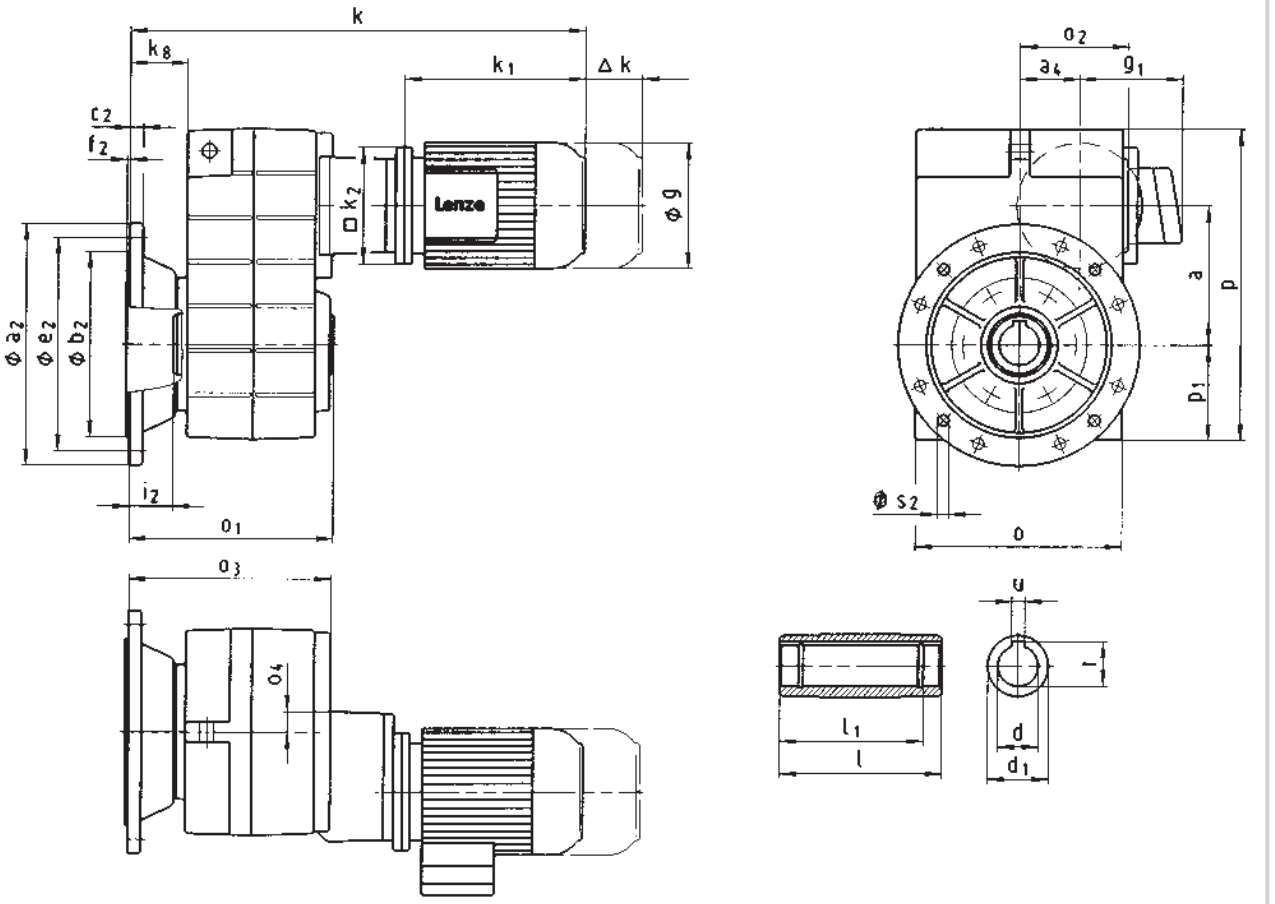
Gearbox size	Gearbox									Total length								
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k**								
05	165	140	107	141	23	252	78	112.5	54.5	390	401	403	452	480				
06	206	160	111	160	20	315	98	140	58	420	431	433	482	510				
07	256	200	135	199	24	386	118	173	74			477	526	554	592	622		
09	318	240	170	238	27	486	149	220	93.5			529	578	606	644	674	692	
11	395	290	216	285	34	600	181	276.5	120				638	666	704	734	752	847
14	490	350	271	340	38	740	228	339	154					745	783	813	831	926

Gearbox size	Hollow shaft						Pitch circle						Torque plate					
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	29	155	16	14	35	38
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	35	195	20	14	46	46
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	44	240	25	18	56	56
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	50	300	32	22	70	70
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	65	375	40	26	84	90
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	80	455	50	32	100	114

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M HCK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k8
k1
Δ k
c2
f2
□ k2
ø g
ø a2
ø e2
ø b2
i2
o1
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t
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l
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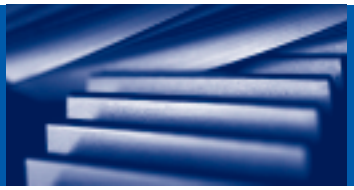
d1



Geared motor			Motor frame size									
GFL □□ - 3 M HCK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

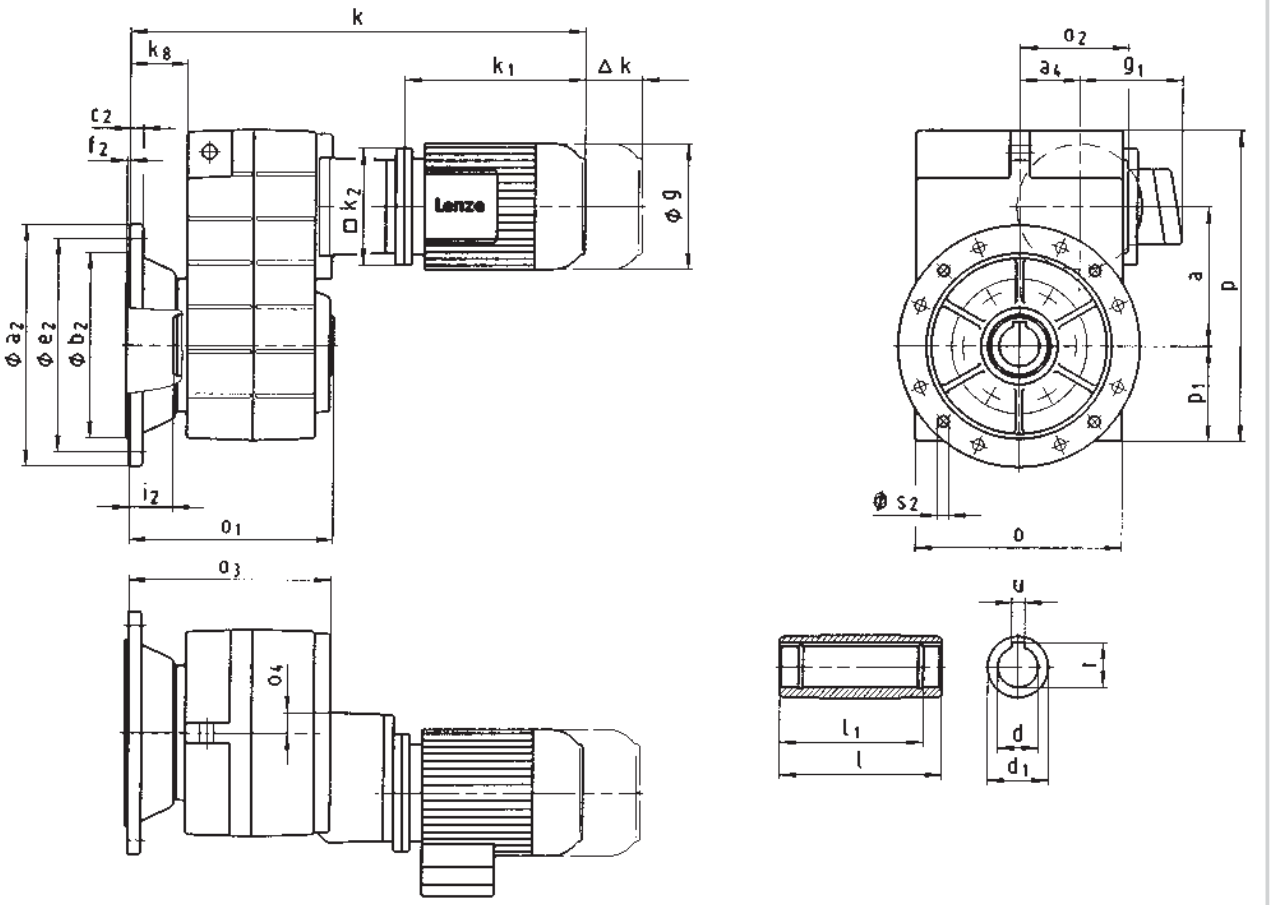
Gearbox size	Gearbox										Total length									
	o*	o_1	o_2	o_3	o_4	p*	p_1	a	a_4	k_8	k									
05	165	173	107	174	23	252	78	113	54.5	46	443	463	485	546						
06	206	201	111	201	20	315	98	140	58	55	481	501	523	584						
07	256	255	135	254	24	386	118	173	74	72	539	559	581	642	676					
09	318	300	170	298	27	486	149	220	93.5	77	596	616	638	699	733	749	793			
11	395	350	216	345	34	600	181	277	120	85			698	759	793	809	853	901	978	1022
14	490	410	271	400	38	740	228	339	154	89				838	872	888	932	980	1057	1101	1173

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M HCK


k
k8
k1
Δ k
c2
f2
□ k2
ϕ g
ϕ a2
ϕ e2
ϕ b2
i2
o1
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t
l1
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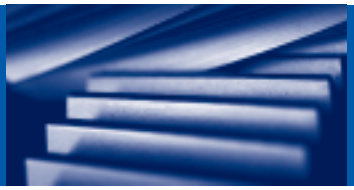


Geared motor **GFL □□ - 3 M HCK**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

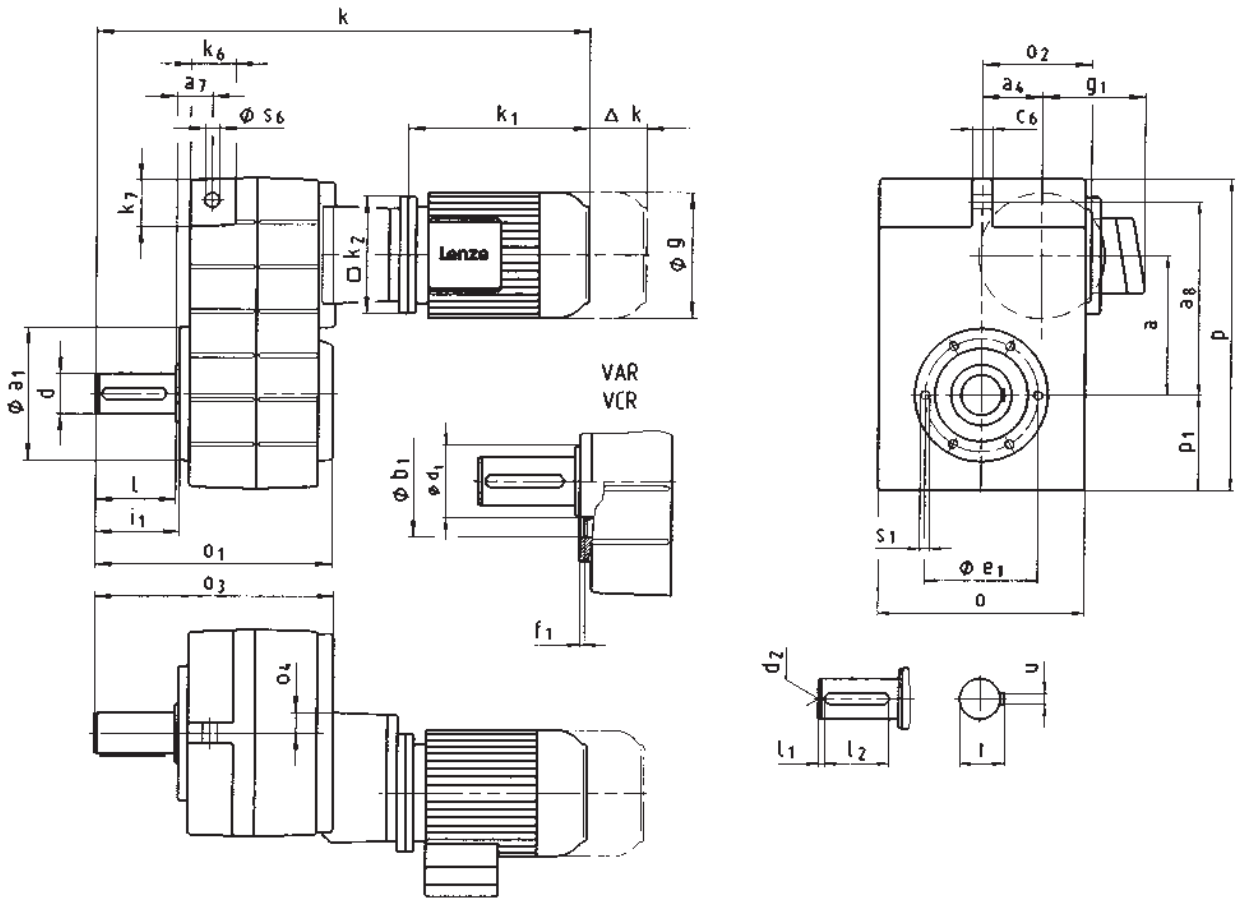
Gearbox size	Gearbox										Total length								
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k_8**	**k**								
05	165	173	107	174	23	252	78	113	54.5	46	423	434	436	485	513				
06	206	201	111	201	20	315	98	140	58	55	461	472	474	523	551				
07	256	255	135	254	24	386	118	173	74	72			532	581	609	647	677		
09	318	300	170	298	27	486	149	220	93.5	77			589	638	666	704	734	752	
11	395	350	216	345	34	600	181	277	120	85				698	726	764	794	812	907
14	490	410	271	400	38	740	228	339	154	89					805	843	873	891	986

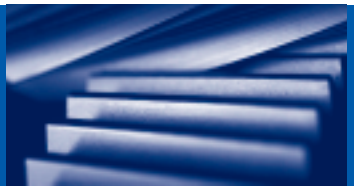
Gearbox size	Hollow shaft						Output flange						
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M V□R


k
k6
a7
Ø s6
k1
Δ k
k7
□ k2
Ø g
Lenze
Ø a1
d
l
i1
o1
o3
o4
VAR
VCR
Ø b1
Ø d1
f1
o2
a4
g1
c6
a
a8
p
p1
s1
Ø e1
o
d2
l1
l2
u
t



Geared motor **GFL □□ - 3 M V□R**			Motor frame size									
			063C12 063C32 063C42	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**	**180-22 180-32**
Motor	**g**		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox									Total length									
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k**									
05	165	197	107	201	23	252	78	112.5	54.5	470	490	512	573						
06	206	236	111	240	20	315	98	140	58	520	540	562	623						
07	256	296	135	299	24	386	118	173	74	584	604	626	687	721					
09	318	356	170	358	27	486	149	220	93.5	656	676	698	759	793	809	853			
11	395	445	216	445	34	600	181	276.5	120			798	859	893	909	953	1001	1078	1122
14	490	544	271	540	38	740	228	339	154				978	1012	1028	1072	1120	1197	1241	1313

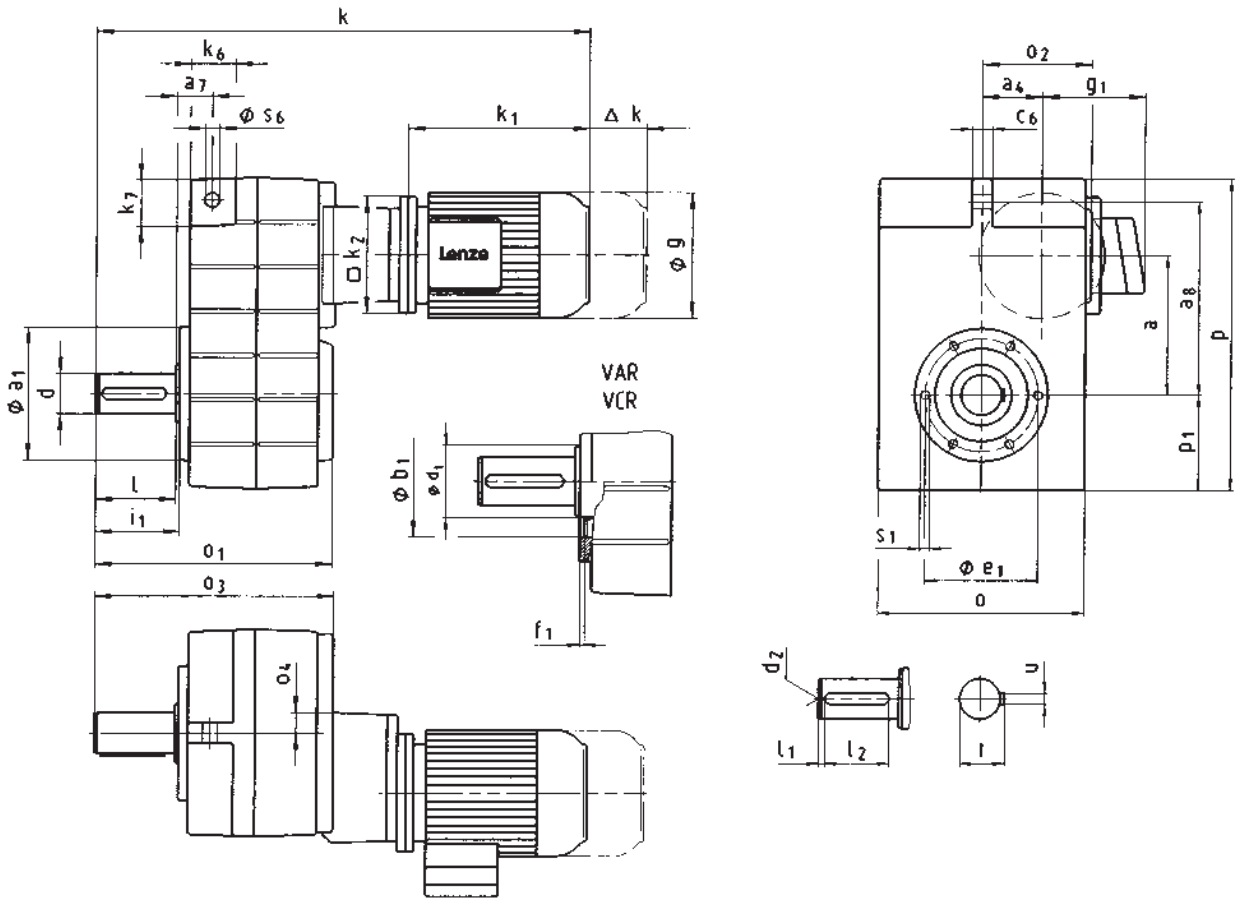
Gearbox size	Solid shaft								Pitch circle						Torque plate					
	d	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	29	155	16	14	35	38
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	35	195	20	14	46	46
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	44	240	25	18	56	56
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	50	300	32	22	70	70
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	65	375	40	26	84	90
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	80	455	50	32	100	114

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M V□R


k
k6
a7
Ø s6
k1
Δ k
k7
□ k2
Lenze
Ø g
Ø a1
d
l
i1
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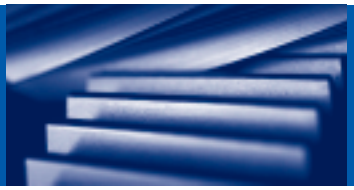
o3
o4
VAR
VCR
Ø b1
Ø d1
f1
o2
a4
g1
c6
a
a8
p
p1
s1
Ø e1
o
d2
l1
l2
u
t



Geared motor **GFL □□ - 3 M V□R**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox									Total length								
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k**								
05	165	197	107	201	23	252	78	112.5	54.5	450	461	463	512	540				
06	206	236	111	240	20	315	98	140	58	500	511	513	562	590				
07	256	296	135	299	24	386	118	173	74			577	626	654	692	722		
09	318	356	170	358	27	486	149	220	93.5			649	698	726	764	794	812	
11	395	445	216	445	34	600	181	276.5	120				798	826	864	894	912	1007
14	490	544	271	540	38	740	228	339	154					945	983	1013	1031	1126

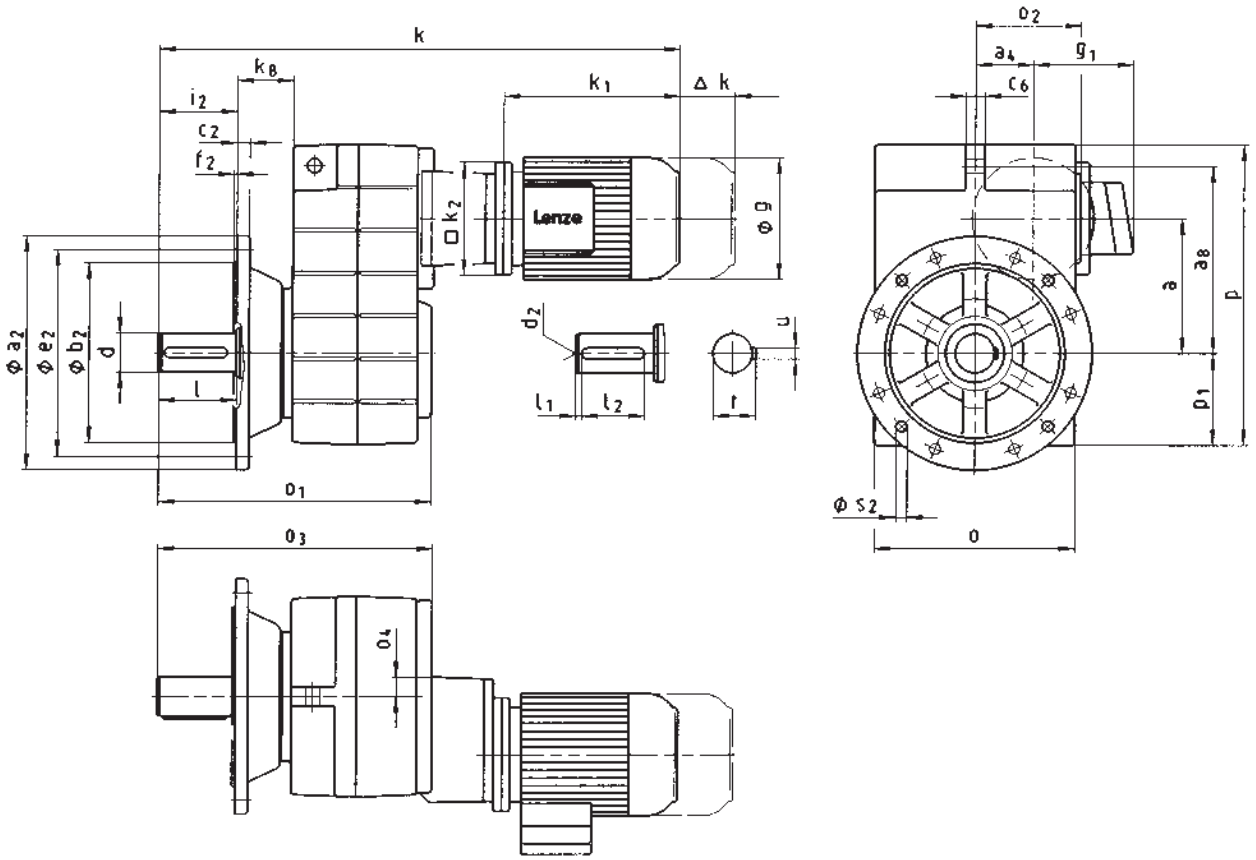
Gearbox size	Solid shaft								Pitch circle						Torque plate					
	d	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** h7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	29	155	16	14	35	38
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	35	195	20	14	46	46
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	44	240	25	18	56	56
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	50	300	32	22	70	70
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	65	375	40	26	84	90
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	80	455	50	32	100	114

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M VCK


k
k8
i2
c2
f2
k1
Δ k
□k2
Φ g
Lenze
Φ a2
Φ e2
Φ b2
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d2
l1
l2
t
u
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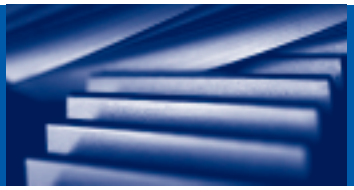
a4
g1
c6
a
a8
p
p1
Φ s2
o
o3
o4



Geared motor			Motor frame size									
GFL □□ - 3 M VCK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox										Total length									
	o*	o_1	o_2	o_3	o_4	p*	p_1	a	a_4	k_8	k									
05	165	230	107	234	23	252	78	112.5	54.5	46	503	523	545	606						
06	206	277	111	281	20	315	98	140	58	55	561	581	603	664						
07	256	351	135	354	24	386	118	173	74	72	639	659	681	742	776					
09	318	416	170	418	27	486	149	220	93.5	77	716	736	758	819	853	869	913			
11	395	505	216	505	34	600	181	276.5	120	85			858	919	953	969	1013	1061	1138	1182
14	490	604	271	600	38	740	228	339	154	89				1038	1072	1088	1132	1180	1257	1301	1373

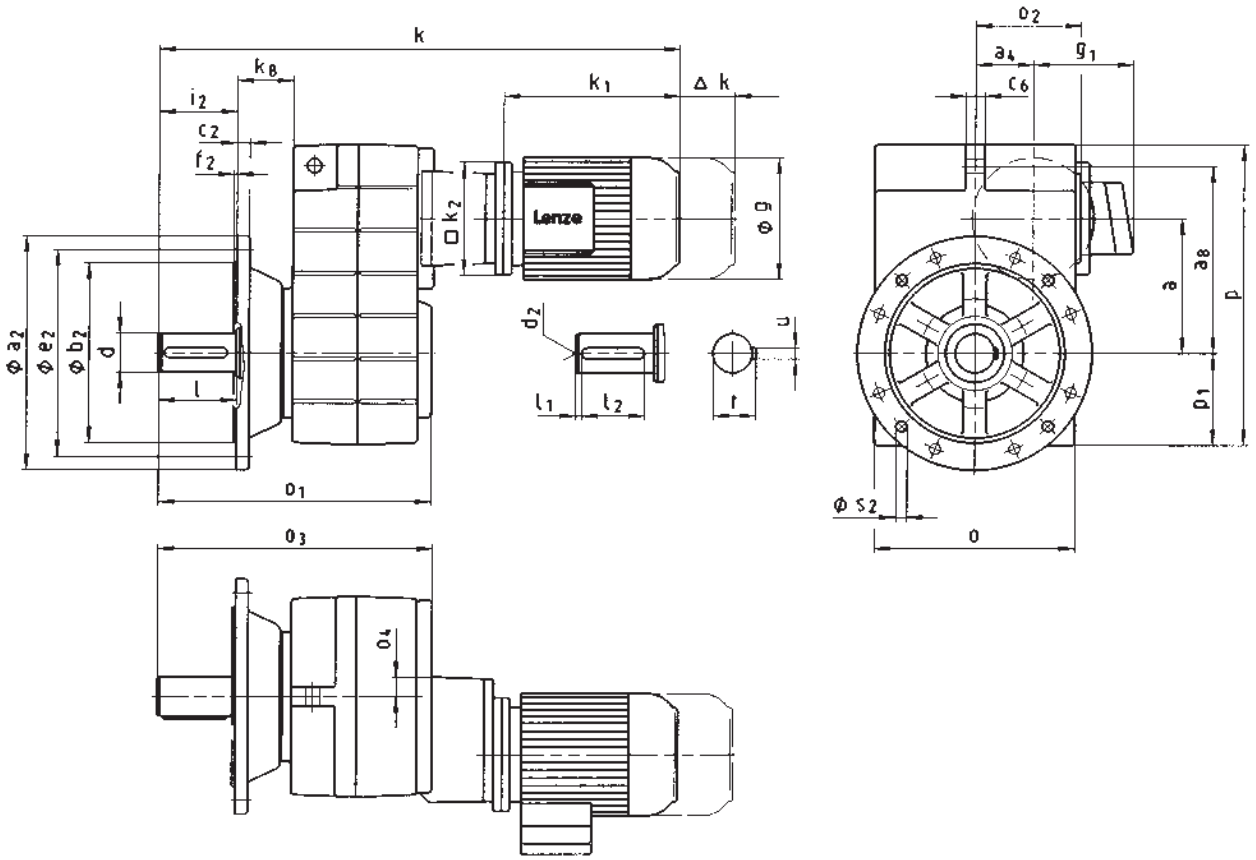
Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 3 M VCK


k
k1
Δ k
kB
i2
c2
f2
□k2
Φ g
Lenze
Φ a2
Φ e2
Φ b2
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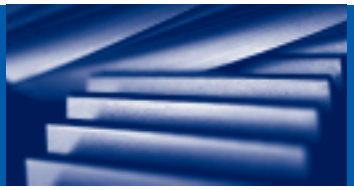
l
d2
l1
l2
t
u
o1
o3
o4
o2
a4
g1
c6
a
a8
p
p1
Φ s2
o



Geared motor **GFL □□ - 3 M VCK**			Motor frame size								
			063-11	63-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox										Total length								
	o*	o_1	o_2	o_3	o_4	p*	p_1	a	a_4	k_8	k								
05	165	230	107	234	23	252	78	112.5	54.5	46	483	494	496	545	573				
06	206	277	111	281	20	315	98	140	58	55	541	552	554	603	631				
07	256	351	135	354	24	386	118	173	74	72			632	681	709	747	777		
09	318	416	170	418	27	486	149	220	93.5	77			709	758	786	824	854	872	
11	395	505	216	505	34	600	181	276.5	120	85				858	886	924	954	972	1067
14	490	604	271	600	38	740	228	339	154	89					1005	1043	1073	1091	1186

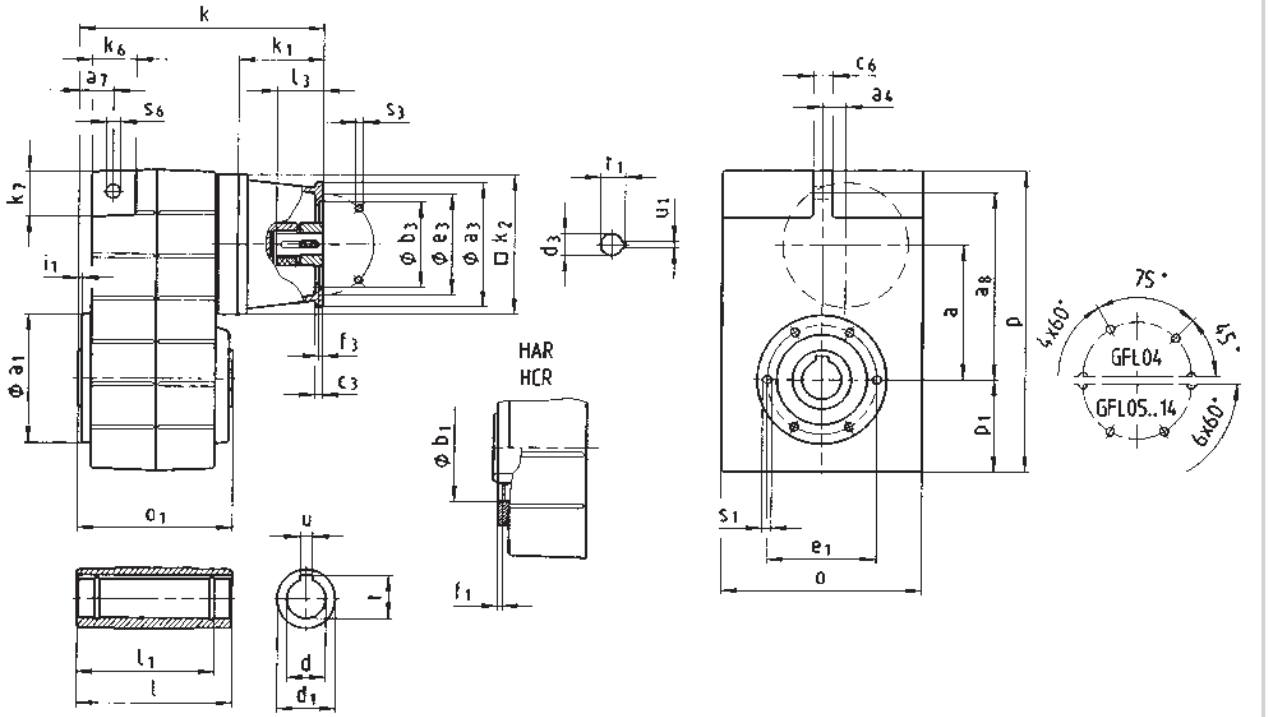
Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8

GFL □□ - 2 N H□R


k
k6
k1
a7
l3
s6
s3
k2
i1
ϕ a1
ϕ b3
ϕ e3
ϕ a3
□ k2
f3
c3
r1
u1
d3
HAR
HCR
ϕ b1
f1
o1
u
l1
l
d
d1
c6
a4
a
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p1
s1
e1
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45°
GFL04
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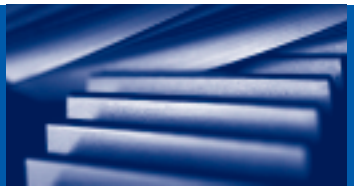
6x60°



Gearbox			Drive size																				
GFL □□ - 2 N H□R corresponds to IEC motor			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200	225
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2	120	145	120	145				180		180			180		265			300			300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
		s_3 8 x																						17.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

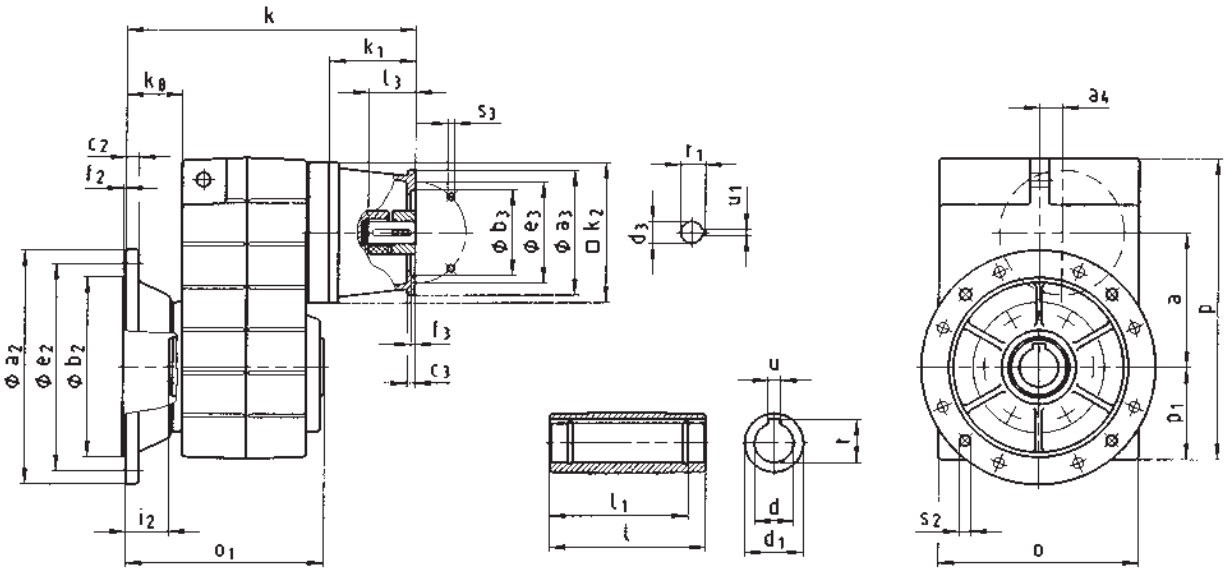
Gearbox size	Gearbox						Total length																	
	o*	o_1	p*	p_1	a	a_4	k																	
04	148	115	214	69	90.5	12.5	200	207	200	221														
05	165	140	252	78	112.5	18.5		228		242		276		271										
06	206	160	315	98	140	22		241		255		289		284		313								
07	256	200	386	118	173	29				288		322		317		346		401	381	401	444		414	
09	318	240	486	149	220	37.5						356		351		380		435	415	435	478	478	448	503
11	395	290	600	181	276.5	50								392		421		476	456	476	519	519	489	544
14	490	350	740	228	339	65												521	501	521	564	564	534	589

Gearbox size	Hollow shaft						Pitch circle						Torque plate					
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_7	a_8	c_6	s_6	k_6	k_7
04	25 30	115	45	100	8 8	28.3 33.3	110	75	90	3	2.5	M6x12	22.5	128	14	12.5	32	35
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	29	155	16	14	35	38
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	35	195	20	14	46	46
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	44	240	25	18	56	56
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	50	300	32	22	70	70
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	65	375	40	26	84	90
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	80	455	50	32	100	114

Dimensions in [mm]

* Observe dimension k_2

GFL □□ - 2 N HCK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k1
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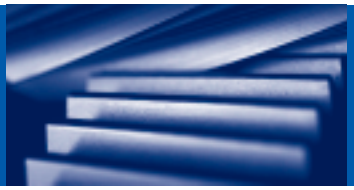
s3
k0
c2
f2
Φ b3
Φ e3
Φ a3
□ k2
r1
u1
d3
Φ a2
Φ e2
Φ b2
f3
c3
u
t
l1
l
d
d1
i2
o1
a4
a
p
p1
s2
o



Gearbox			Drive size																				
GFL □□ - 2 N HCK corresponds to IEC motor			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200	225
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2	120	145	120	145				180		180			180		265			300			300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
		s_3 8 x																						17.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

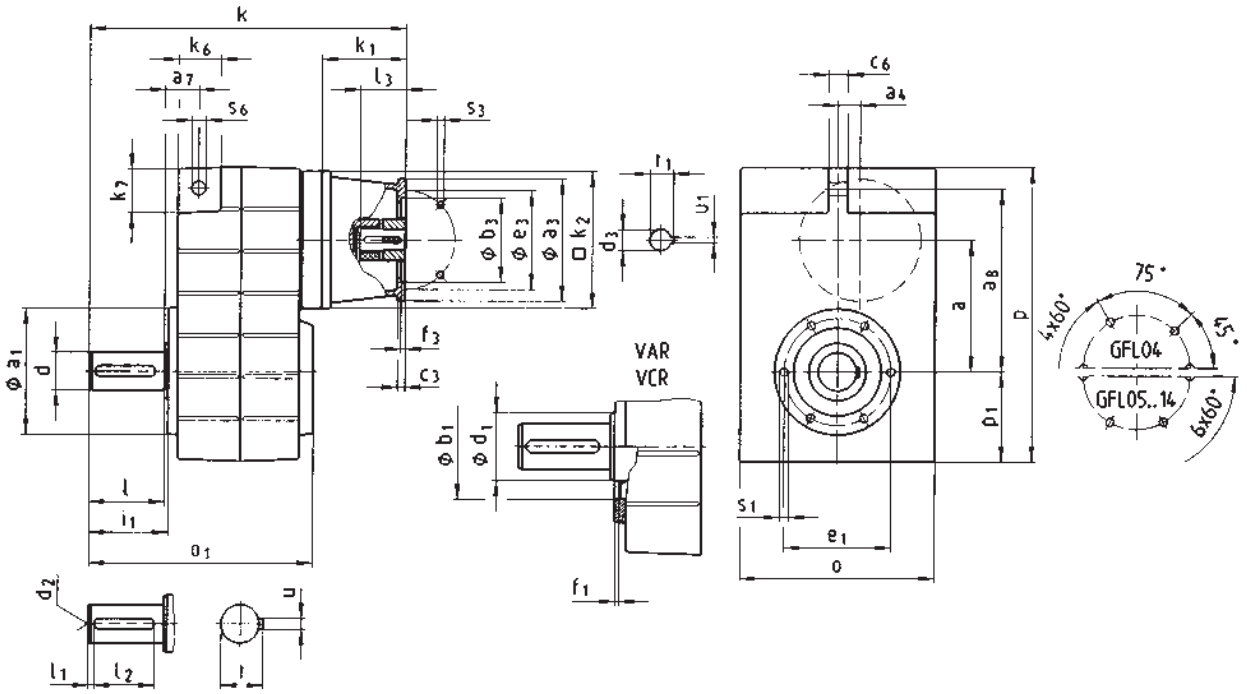
Gearbox size	Gearbox							Total length																
	o*	o_1	p*	p_1	a	a_4	k_8	k																
04	148	148	214	69	90.5	12.5	41	233	240	233	254													
05	165	173	252	78	112.5	18.5	46		261		275		309		304									
06	206	201	315	98	140	22	55		282		296		330		325		354							
07	256	255	386	118	173	29	72				343		377		372		401	456	436	456	499		469	
09	318	300	486	149	220	37.5	77						416		411		440	495	475	495	538	538	508	563
11	395	350	600	181	276.5	50	85								452		481	536	516	536	579	579	549	604
14	490	410	740	228	339	65	89											581	561	581	624	624	594	649

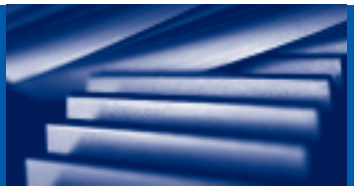
Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2

GFL □□ - 2 N V□R


k
k6
k1
a7
l3
s6
s3
k2
t1
u1
ϕ b3
ϕ e3
ϕ a3
□ k2
d3
f3
c3
ϕ a1
d
VAR
VCR
ϕ b1
ϕ d1
l
l1
o1
f1
c6
a4
a
a8
p
p1
75°
4x60°
45°
GFL04
GFL05..14
6x60°
s1
e1
o
d2
u
l1
l2
t



Gearbox				Drive size																				
GFL □□ - 2 N V□R corresponds to IEC motor				**1A** 63	**1B** 71	**2B** 63	**1C** 80	**2C**	**3C** 71	**4C** 71	**1D** 90	**2D** 80	**1E** 100 112	**2E** 90	**3E** 80	**1F** 100 112	**2F** 90	**1G** 132	**2G** 100 112	**3G**	**1H** 160	**2H** 180	**3H** 132	**1K** 200	**2K** 225
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2		120	145	120	145				180		180			180		265			300			300	
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
			8 x																					17.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3	min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
			max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

Gearbox size	Gearbox						Total length																	
	o*	**o_1**	**p***	**p_1**	**a**	**a_4**	**k**																	
04	148	163	214	69	90.5	12.5	250	257	250	271			305											
05	165	197	252	78	112.5	18.5		288		302			336		331									
06	206	236	315	98	140	22		321		335			369		364		393							
07	256	296	386	118	173	29				388			422		417		446	501	481	501	544		514	
09	318	356	486	149	220	37.5							476		471		500	555	535	555	598	598	568	623
11	395	445	600	181	276.5	50									552		581	636	616	636	679	679	649	704
14	490	544	740	228	339	65												721	701	721	764	764	734	789

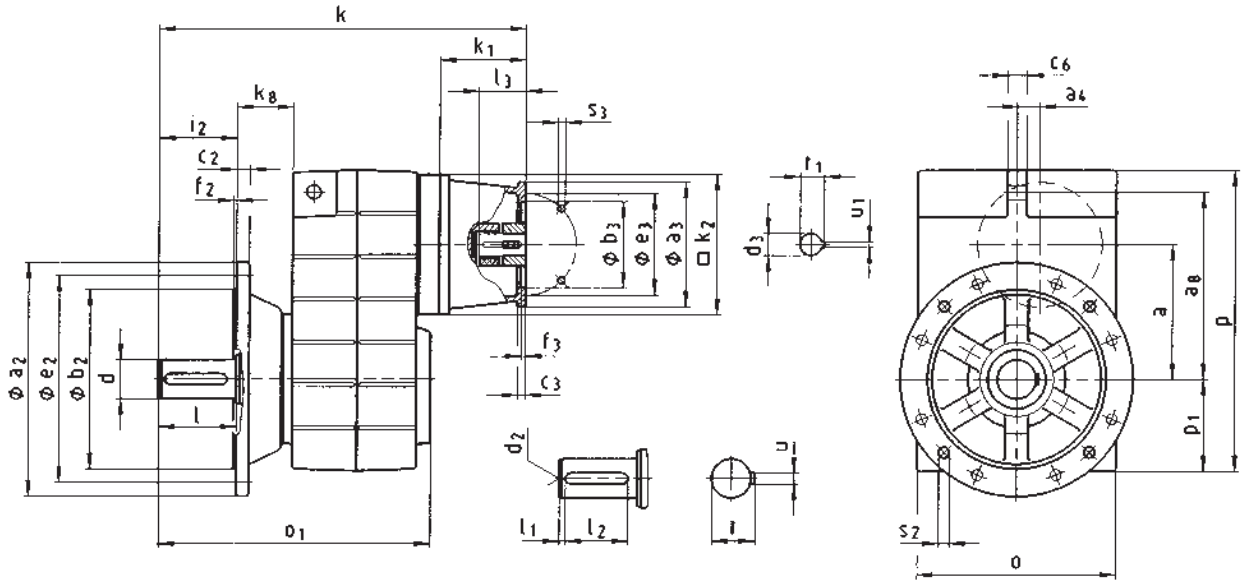
Gearbox size	Solid shaft								Pitch circle						Torque plate					
	d	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1**	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
04	25	50	45	4	40	M10	8	28	110	75	90	3	52.5	M6x12	22.5	128	14	12.5	32	35
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	29	155	16	14	35	38
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	35	195	20	14	46	46
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	44	240	25	18	56	56
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	50	300	32	22	70	70
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	65	375	40	26	84	90
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	80	455	50	32	100	114

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2

GFL □□ - 2 N VCK


k
k1
l3
s3
k8
i2
c2
f2
Φ b3
Φ e3
Φ a3
□ k2
f1
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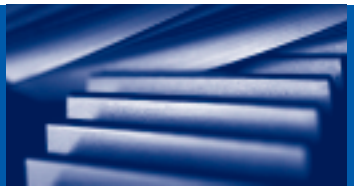
d3
c6
a4
a
a8
p
p1
Φ a2
Φ e2
Φ b2
d
l
f3
c3
d2
l1
l2
u
i
o1
s2
o



Gearbox			Drive size																				
GFL □□ - 2 N VCK corresponds to IEC motor			**1A**	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**2H**	**3H**	**1K**	**2K**
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200	225
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2	120	145	120	145				180		180			180		265			300			300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
		s_3 8 x																						17.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

Gearbox size	Gearbox							Total length
	o*	**o_1**	**p***	**p_1**	**a**	**a_4**	**k_8**	**k**
04	148	196	214	69	90.5	12.5	41	283 290 283 304 338
05	165	230	252	78	112.5	18.5	46	321 335 369 364
06	206	277	315	98	140	22	55	362 376 410 405 434
07	256	351	386	118	173	29	72	443 477 472 501 556 536 556 599 569
09	318	416	486	149	220	37.5	77	536 531 560 615 595 615 658 658 628 683
11	395	505	600	181	276.5	50	85	612 641 696 676 696 739 739 709 764 794
14	490	604	740	228	339	65	89	781 761 781 824 824 794 849 879

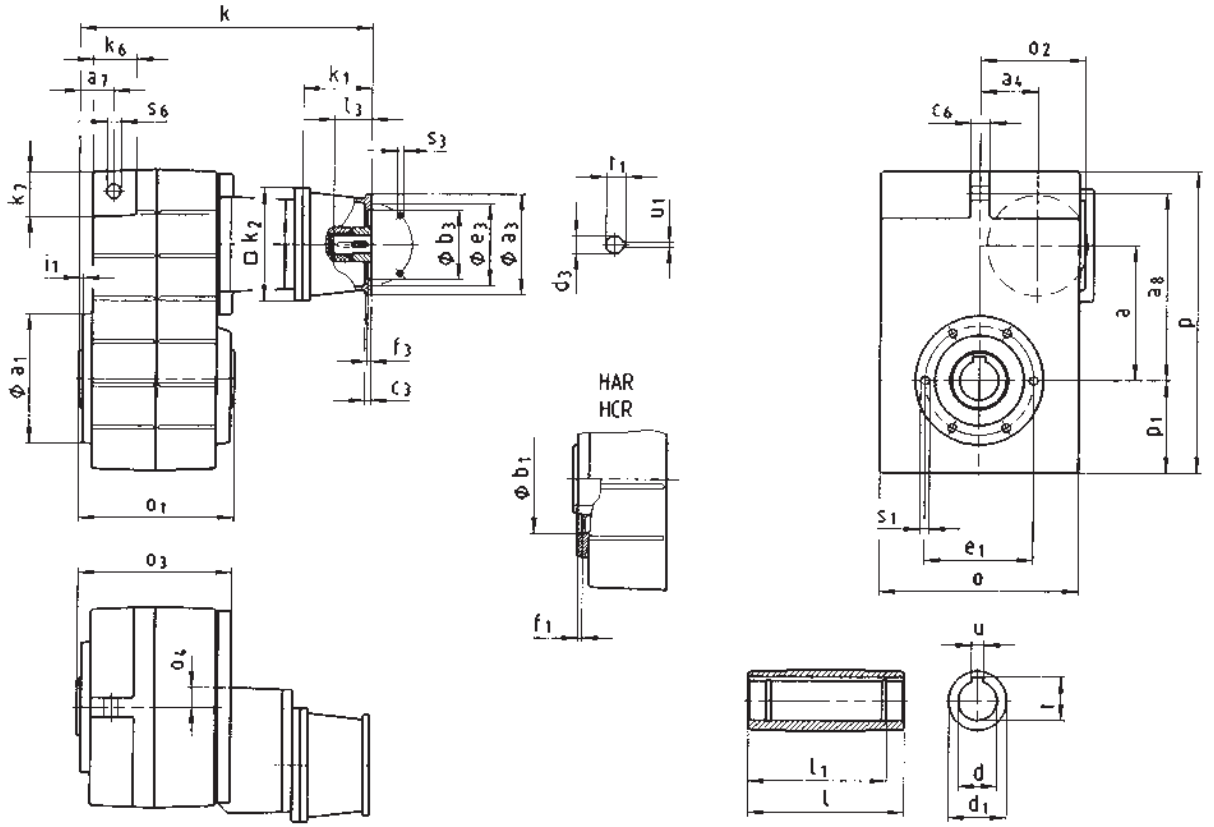
Gearbox size	Solid shaft							Output flange						
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 450	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2

GFL □□ - 3 N H□R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k6
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s6
k1
l3
s3
k2
□ k2
i1
ϕ a1
ϕ b3
ϕ e3
ϕ a3
f3
c3
o1
o3
o4
r1
u1
d3
HAR
HCR
ϕ b1
f1
o2
a4
c6
a
a8
p
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s1
e1
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l1
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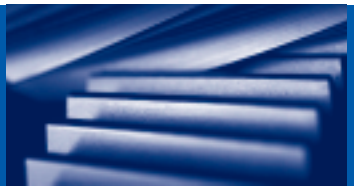
d
d1



Gearbox **GFL □□ - 3 N H□R** corresponds to IEC motor				Drive size																		
				1A	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**2H**	**3H**
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2		120	145	120	145				180		180			180		265			300		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3	min max	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60		80 80	60 60	80 80	110 110	110 110	80 80
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

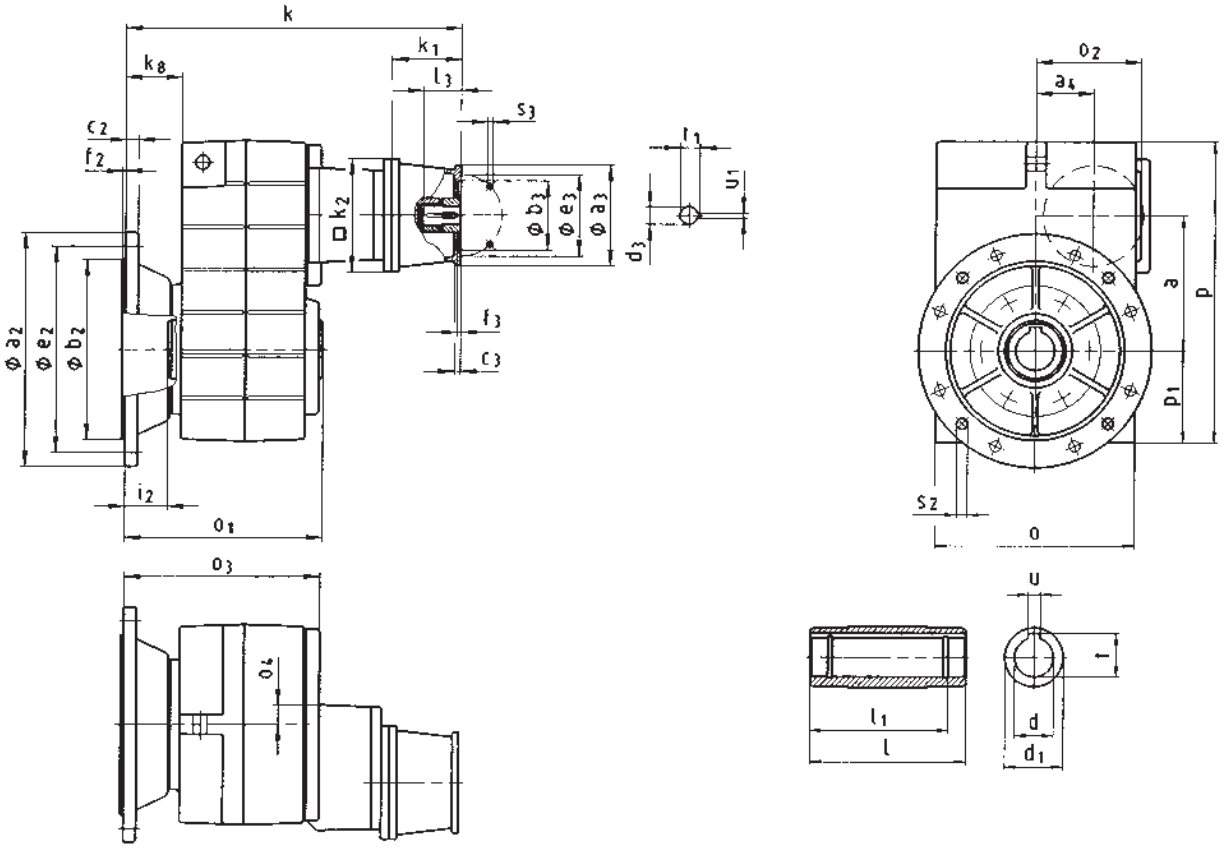
Gearbox size	Gearbox									Total length													
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k**													
05	165	140	107	141	23	252	78	112.5	54.5	298	305	298	319		353								
06	206	160	111	160	20	315	98	140	58	328	335	328	349		383								
07	256	200	135	199	24	386	118	173	74		379		393		427		422						
09	318	240	170	238	27	486	149	220	93.5		431		445		479		474		503				
11	395	290	216	285	34	600	181	276.5	120				505		539		534		563	618	598	618	661	661	631
14	490	350	271	340	38	740	228	339	154						618		613		642	697	677	697	740	740	710

Gearbox size	Hollow shaft						Pitch circle						Torque plate					
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	29	155	16	14	35	38
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	35	195	20	14	46	46
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	44	240	25	18	56	56
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	50	300	32	22	70	70
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	65	375	40	26	84	90
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	80	455	50	32	100	114

Dimensions in [mm]

* Observe dimension k_2

GFL □□ - 3 N HCK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f3
c3
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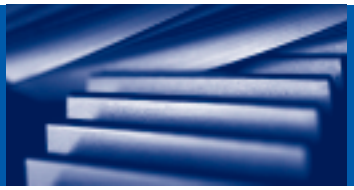


Gearbox **GFL □□ - 3 N HCK** corresponds to IEC motor				Drive size																		
				1A	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**2H**	**3H**
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2		120	145	120	145				180		180			180		265			300		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3	min	23	30	23	25				50	40	30			30		80	60	80	110	110	80
			max	23	30	23	40				50	50	60			60		80	60	80	110	110	80
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

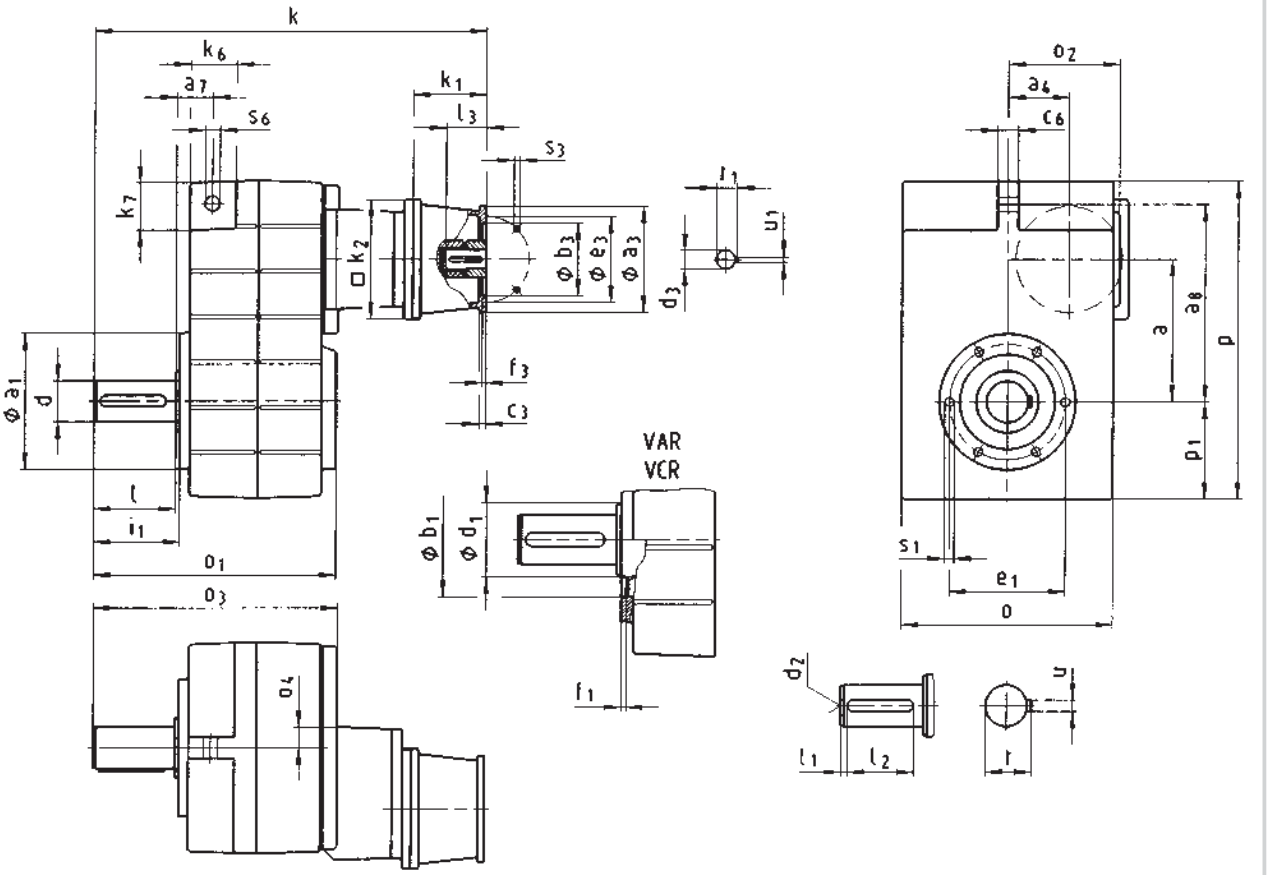
Gearbox size	Gearbox									Total length													
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k_8**	**k**												
05	165	173	107	173.5	23	252	78	112.5	54.5	46	331	338	331	352		386							
06	206	201	111	200.5	20	315	98	140	58	55	369	376	369	390		424							
07	256	255	135	254	24	386	118	173	74	72		434		448		482		477					
09	318	300	170	297.5	27	486	149	220	93.5	77		491		505		539		534		563			
11	395	350	216	344.5	34	600	181	276.5	120	85				565		599		594		623	678	658	678	721	721	691
14	490	410	271	399.5	38	740	228	339	154	89						678		673		702	757	737	757	800	800	770

Gearbox size	Hollow shaft						Output flange						
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2

GFL □□ - 3 N V□R


k
k6
a7
s6
k1
l3
s3
k7
□k2
Φ b3
Φ e3
Φ a3
t1
u1
d3
f3
c3
Φ a1
d
l
i1
o1
o3
o4
VAR
VCR
Φ b1
Φ d1
f1
o2
a4
c6
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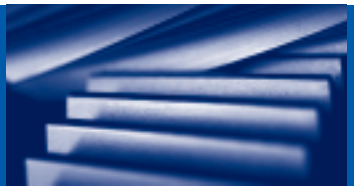


Gearbox **GFL □□ - 3 N V□R** corresponds to IEC motor				Drive size																		
				1A	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**2H**	**3H**
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2		120	145	120	145				180		180			180		265			300		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3	min max	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60		80 80	60 60	80 80	110 110	110 110	80 80
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

Gearbox size	Gearbox									Total length													
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k**													
05	165	197	107	201	23	252	78	112.5	54.5	358	365	358	379		413								
06	206	236	111	240	20	315	98	140	58	408	415	408	429		463								
07	256	296	135	299	24	386	118	173	74		479		493		527	522							
09	318	356	170	358	27	486	149	220	93.5		551		565		599	594	623						
11	395	445	216	445	34	600	181	276.5	120				665		699	694	723	778	758	778	821	821	791
14	490	544	271	540	38	740	228	339	154						818	813	842	897	877	897	940	940	910

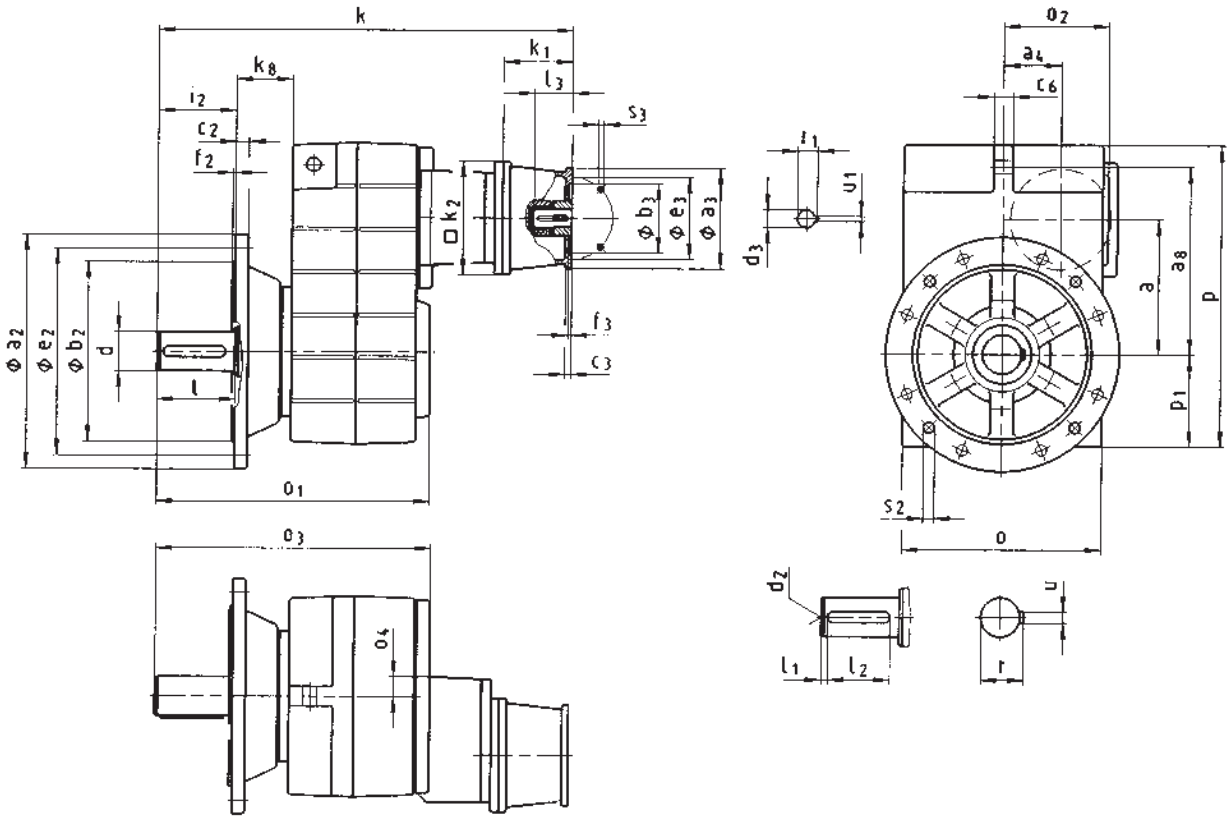
Gearbox size	Solid shaft								Pitch circle						Torque plate					
	d	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_7**	**a_8**	**c_6**	**s_6**	**k_6**	**k_7**
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	29	155	16	14	35	38
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	35	195	20	14	46	46
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	44	240	25	18	56	56
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	50	300	32	22	70	70
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	65	375	40	26	84	90
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	80	455	50	32	100	114

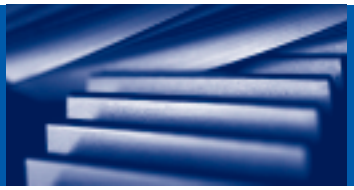
Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2

GFL □□ - 3 N VCK


k
k1
k8
l3
i2
c2
f2
s3
□k2
ϕ b3
ϕ e3
ϕ a3
t1
u1
d3
o2
a4
c6
a
a8
p
p1
ϕ a2
ϕ e2
ϕ b2
d
l
f3
c3
o1
s2
o
o3
o4
d2
l1
l2
r
u



Gearbox **GFL □□ - 3 N VCK** corresponds to IEC motor				Drive size																	
				1A	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**2H**	**3H**
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2		120	145	120	145				180		180			180		265			300		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3	min max	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60		80 80	60 60	80 80	110 110	110 110	80 80
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

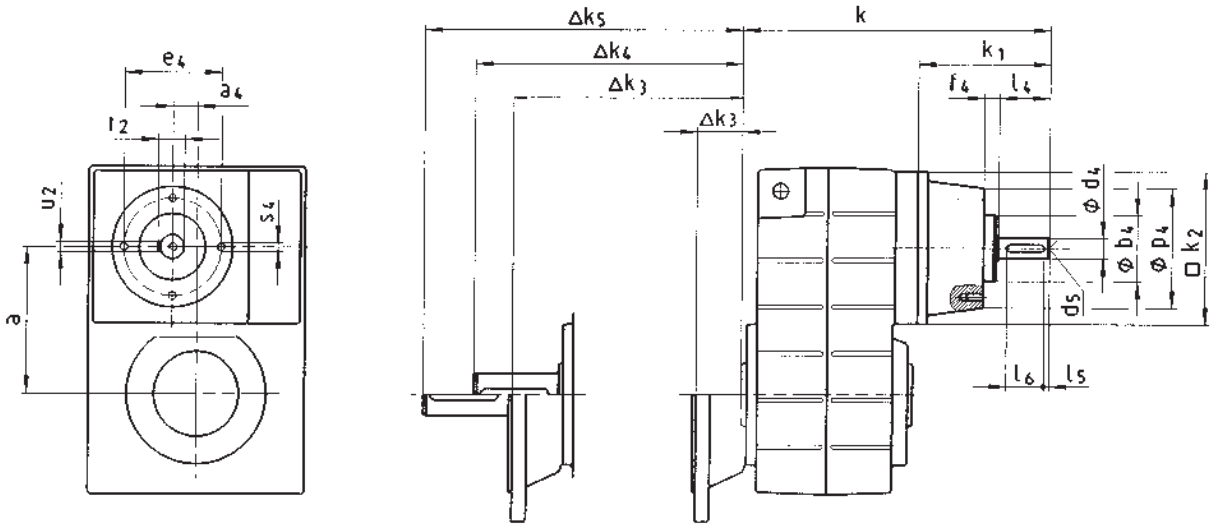
Gearbox size	Gearbox										Total length													
	o*	**o_1**	**o_2**	**o_3**	**o_4**	**p***	**p_1**	**a**	**a_4**	**k_8**	**k**													
05	165	230	107	234	23	252	78	112.5	54.5	46	391	398	391	412		446								
06	206	277	111	281	20	315	98	140	58	55	449	456	449	470		504								
07	256	351	135	354	24	386	118	173	74	72		534		548		582		577						
09	318	416	170	418	27	486	149	220	93.5	77		611		625		659		654		683				
11	395	505	216	505	34	600	181	276.5	120	85				725		759		754		783	838	818	838	881	881	851
14	490	604	271	600	38	740	228	339	154	89						878		873		902	957	937	957	1000	1000	970

Gearbox size	Solid shaft							Output flange						
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 450	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2

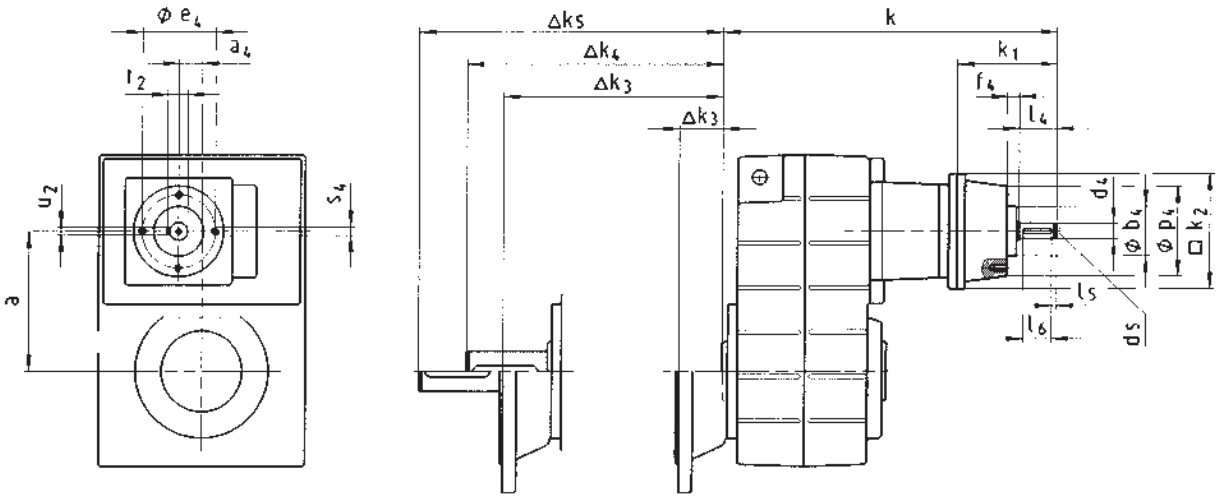


Gearbox GFL □□ - 2 W □□□				Drive size 1A	1B	1C	1D	1E	1F	1G	1H	1K
Housing	k_1			100	100	102	130	160	175	175	182	220
	k_2			115	115	145	145	180	222	222	300	300
Pitch circle with centring	p_4			80	86	90	120	142	178	216	262	262
	b_4	js8		52	52	52	65	78	98	125	155	155
	e_4			67	67	67	90	115	145	175	210	210
	f_4			12	12	12	12	22	23	23	23	32
	s_4	4 x 8 x		M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36	M20x36
Input shaft	d_4	k6		14	14	14	19	24	28	38	42	48
	l_4			35	35	40	50	60	80	100	110	110
	l_5			4.5	4.5	4	4	6	7	8	8	8
	l_6			25	25	32	40	45	63	80	90	90
	d_5			M6	M6	M6	M6	M8	M10	M12	M16	M16
	u_2			5	5	5	6	8	8	10	12	14
	t_2			16	16	16	21.5	27	31	41	45	51.5

Gearbox size	Gearbox *					Total length Output design H□R k							
	a	a_4	HCK Δk_3	V□R Δk_4	VCK Δk_5								
04	90.5	12.5	33	50	83	200	200	232					
05	112.5	18.5	33	60	93		228	253	281				
06	140	22	41	80	121			266	294	334	355		
07	173	29	55	100	155				327	367	388	388	
09	220	37.5	60	120	180					401	422	422	442
11	276.5	50	60	160	220						463	463	483	521
14	339	65	60	200	260							508	528	566

Dimensions in [mm]

* For further dimensions see Dimensions - Shaft-mounted helical geared motors (low-profile geared motors)



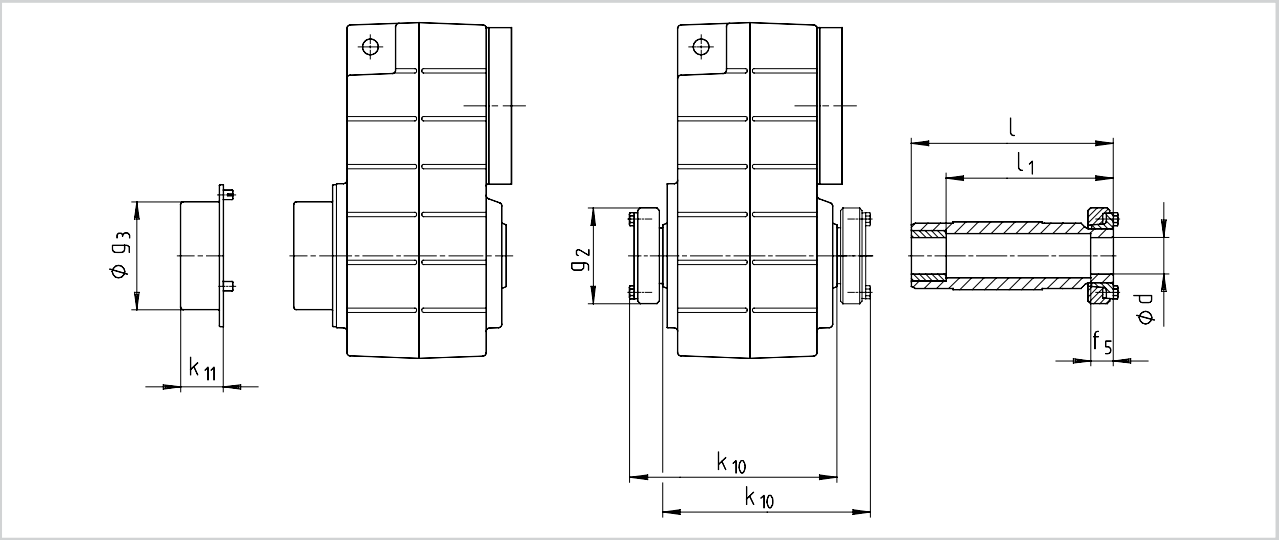
Gearbox GFL □□ - 3 W □□□			Drive size 1A	1B	1C	1D	1E	1F	1G	1H
Housing	k_1		100	100	102	130	160	175	175	182
	k_2		115	115	145	145	180	222	222	300
Pitch circle with centring	p_4		80	86	90	120	142	178	216	262
	b_4	js8	52	52	52	65	78	98	125	155
	e_4		67	67	67	90	115	145	175	210
	f_4		12	12	12	12	22	23	23	23
	s_4	4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36
Input shaft	d_4	k6	14	14	14	19	24	28	38	42
	l_4		35	35	40	50	60	80	100	110
	l_5		4.5	4.5	4	4	6	7	8	8
	l_6		25	25	32	40	45	63	80	90
	d_5		M6	M6	M6	M6	M8	M10	M12	M16
	u_2		5	5	5	6	8	8	10	12
	t_2		16	16	16	21.5	27	31	41	45

Gearbox size	Gearbox * a	a_4	HCK Δk_3	V□R Δk_4	VCK Δk_5	Total length Output design H□R k							
05	112.5	54.5	33	60	93	298	298	330					
06	140	58	41	80	121	328	328	360					
07	173	74	55	100	155		379	404	432				
09	220	93.5	60	120	180			456	484	524	545		
11	276.5	120	60	160	220				544	584	605	605	
14	339	154	60	200	260					663	684	684	704

Dimensions in [mm]

* For further dimensions see Dimensions - Shaft-mounted helical geared motors (low-profile geared motors)

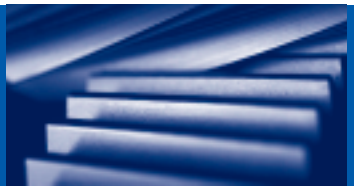
Hollow shaft with shrink disc



Gearbox size	Machine shaft *		Hollow shaft			Gearbox		Protective cover	
	d	Fit	l	l_1	f_5	g_2	k_{10}	g_3	k_{11}
04	25 30	h6	142	122	26	72	146	79	41
05	35	h6	168	148	28	80	171	90	43
06	40	h6	194	164	30	90	197	100	49
07	50	h6	232	192	26	110	234	124	49
09	65	h6	278	228	30	141	281	159	52
11	80	h6	338	238	42	170	344	191	65
14	100	h6	407	307	55	215	415	253	78

Dimensions in [mm]

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4) the torque values given in the selection tables can be transmitted without restriction. If less rigid materials are being used, please contact us. The average surface roughness R_z should not exceed 15 µm (turning is sufficient).



Possible combinations of shrinks discs on the drive side (position 1)

Gearbox size	Geared motors **GFL□□-2M** with motor frame size												
	063C	063	071C	071	080	090	100	112	132	160	180	200	225
04													
05	▲ 1)		▲ 1)										
06	▲		▲	▲	▲	▲ 1)	▲ 1)						
07					▲	▲	▲	▲ 1)					
09						▲	▲	▲	▲			▲ 1)	
11							▲	▲	▲	▲	▲	▲	▲
14								▲	▲	▲	▲	▲	▲

Gearbox size	Gearbox with mounting flange for IEC standard motors **GFL□□-2N** with drive size									
	1A	1B	2B	□C	□D	□E	□F	□G	□H	□K
04										
05										
06		▲		▲	▲ 1)	▲ 1)	▲ 1)			
07				▲	▲	▲	▲			
09					▲	▲	▲	▲	▲ 1)	▲ 1)
11						▲	▲	▲	▲	▲
14								▲	▲	▲

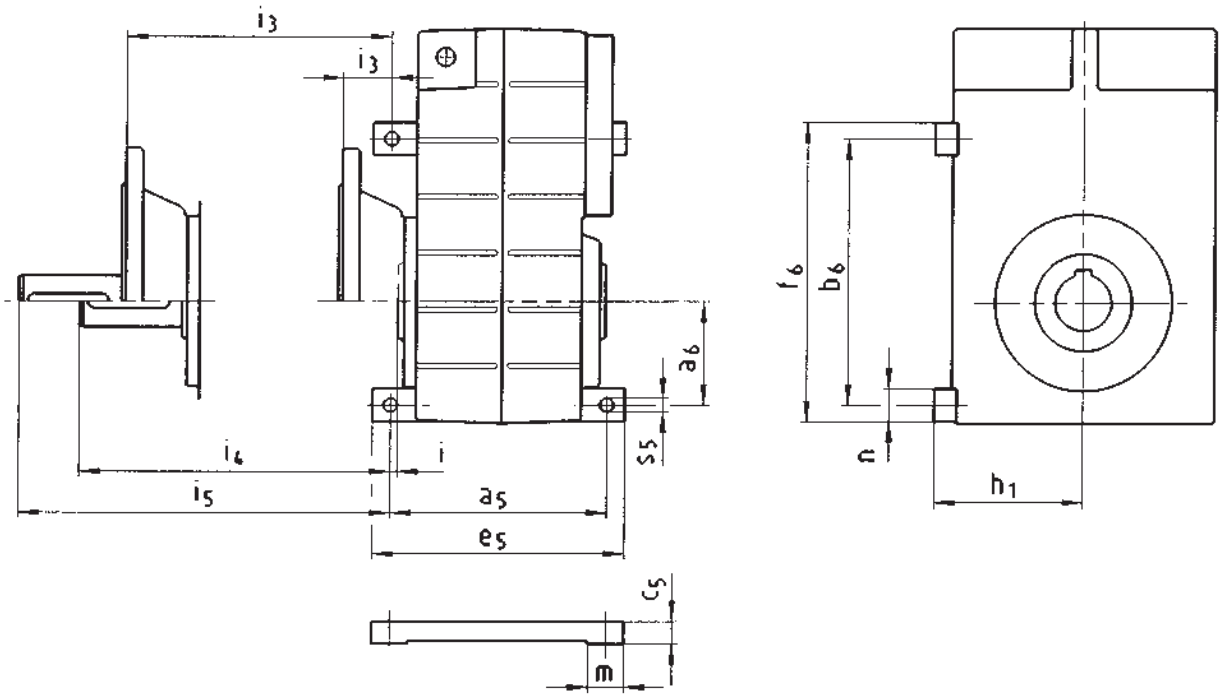
Gearbox size	Gearbox with free input shaft **GFL□□-2W** with drive size								
	1A	1B	1C	1D	1E	1F	1G	1H	1K
04									
05		▲ 1)							
06		▲	▲	▲	▲ 1)				
07				▲	▲	▲ 1)	▲ 1)		
09					▲	▲	▲	▲ 1)	
11						▲	▲	▲	▲
14							▲	▲	▲

Dimensions in [mm]

1) Without cover

Terminal box position 4 is not possible with geared motors GFL□□-2M with shrink disc in position 1.
All designs are possible with geared motors GFL□□-3□.

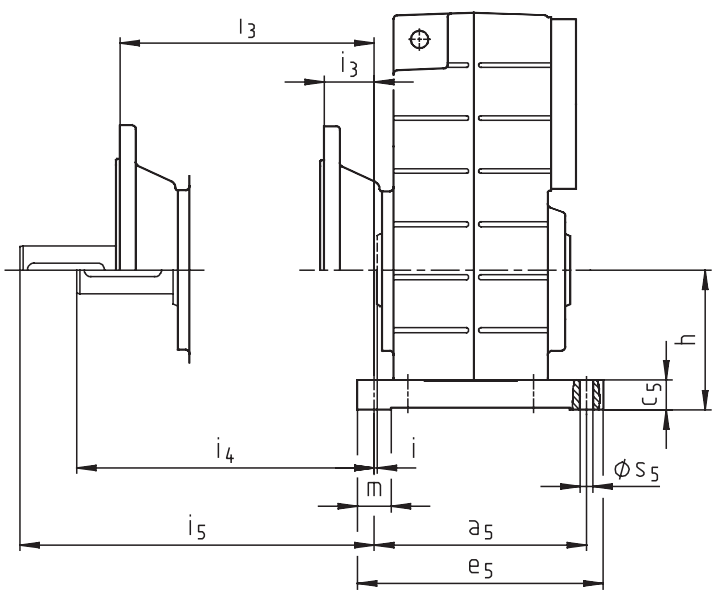
Foot mounting in position 3

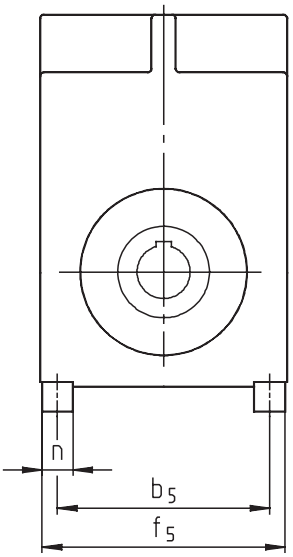


Gearbox size	Gearbox						Foot (in position 3)								Foot not possible with input side design		
			HOR	HOK	VOR	VOK											
	a_6	h_1	i	i_3	i_4	i_5	a_5	b_6	c_5	e_5	f_6	n	m	s_5	M	N	W
04	47	90	4.5	28.5	45.5	78.5	130	115	18	152	140	25	22	6.6	> 080	> 1C	
05	65	100	2	31	58	91	160	167	21	185	192	25	25	9	> 080	> 1C	
06	80	125	2	39	78	119	175	205	27	205	233	28	30	11	> 100		> 1E
07	100	155	3	52	97	152	220	260	31	255	292	32	35	13.5	> 132	> 1G	
09	125	190	3	57	117	177	260	335	36	300	375	40	40	17.5			
11	155	240	3	57	157	217	315	435	48	365	485	50	50	22			
14	200	295	3	57	197	257	375	540	57	430	600	60	55	26			

Dimensions in [mm]

Foot mounting in position 4

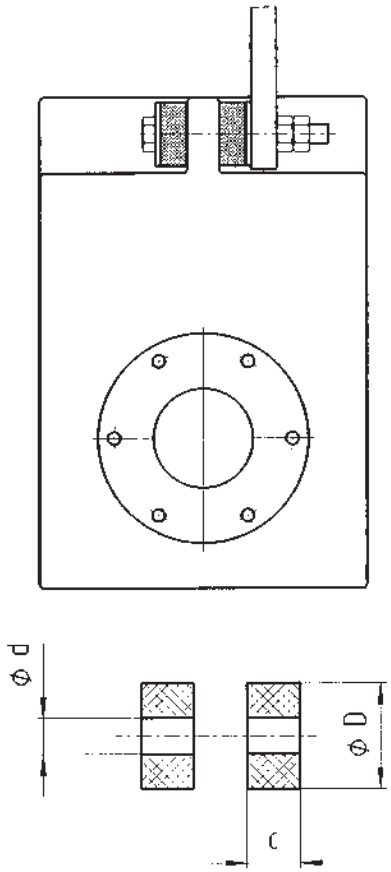




Gearbox size	h	Gearbox HOR i	HOK i_3	VOR i_4	VOK i_5	Foot (in position 4) a_5	b_5	c_5	e_5	f_5	n	m	s_5
04	85	4.5	28.5	45.5	78.5	130	108	18	152	133	25	22	6.6
05	95	2	31	58	91	160	140	21	185	165	25	25	9
06	120	2	39	78	119	175	175	27	205	203	28	30	11
07	145	3	52	97	152	220	220	31	255	252	32	35	13.5
09	180	3	57	117	177	260	275	36	300	315	40	40	17.5
11	224	3	57	157	217	315	340	48	365	390	50	50	22
14	278	3	57	197	257	375	425	57	430	485	60	60	26

Dimensions in [mm]

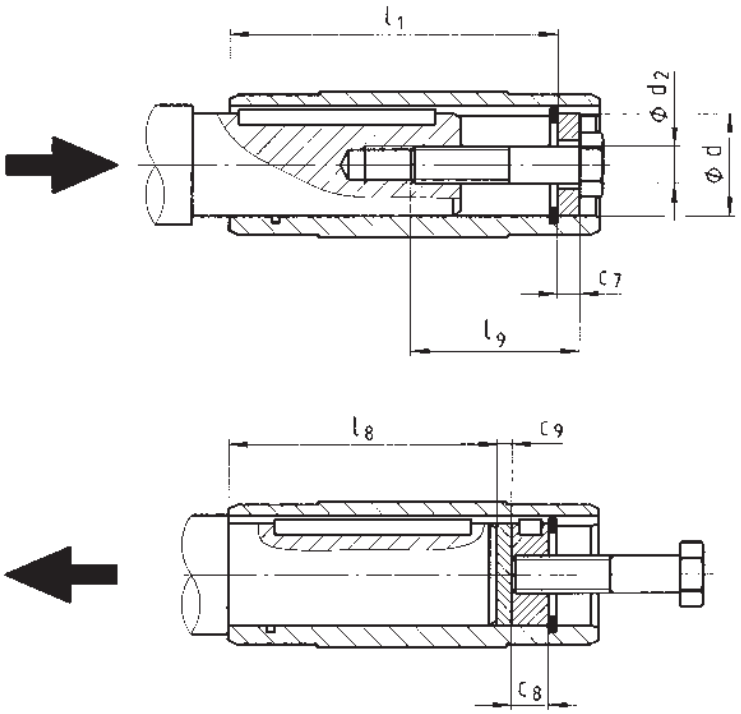
Rubber buffer set



Gearbox size	d	D	c
04	11	30	14.5
05	11	30	14.5
06	13	40	15
07	17	50	27
09	21	60	28
11	26	72	29
14	33	92	30

Dimensions in [mm]

Assembly kit for hollow shaft retention / Proposal for auxiliary tool



Gearbox size	Hollow shaft (design H)			Assembly kit for hollow shaft circlip (auxiliary tool assembly)			Auxiliary tool disassembly		Machine shaft
	l	l_1	d H7	d_2	l_9	c_7	c_8	c_9	max l_8
04	115	100	25 30	M10 M10	40	5 6	10	3	85
05	140	124	30 35	M10 M12	40 50	6 7	10 12	3	107
06	160	140	40 45	M16	60	8 9	16	4	118
07	200	175	50 55	M16 M20	60 80	10 11	16 20	5	148
09	240	210	60 70	M20	80	13 14	20	5	182
11	290	250	70 80	M20	80	14 16	20	6	221
14	350	305	100	M24	100	20	24	8	270

Dimensions in [mm]

Bevel gearboxes | G-motion const

Technical data

Selection tables

Dimensions

Bevel gearbox GKR□□

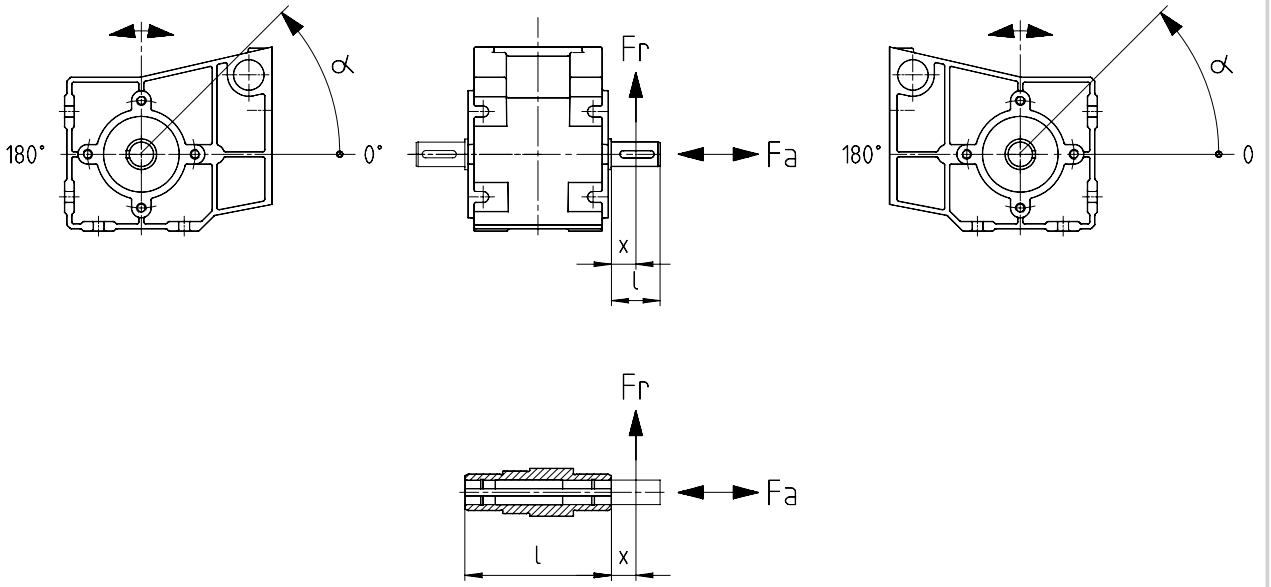
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

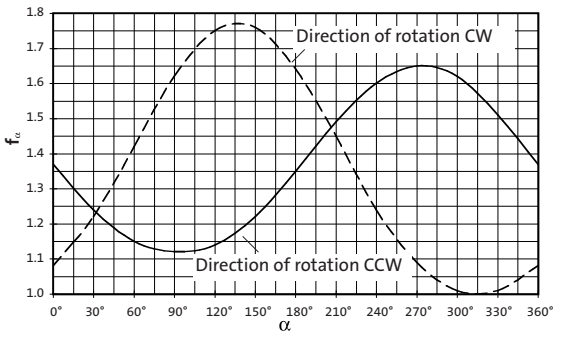
Permissible axial force

$F_{a_{perm}} = F_{a_{Tab}}$ at $F_r = 0$

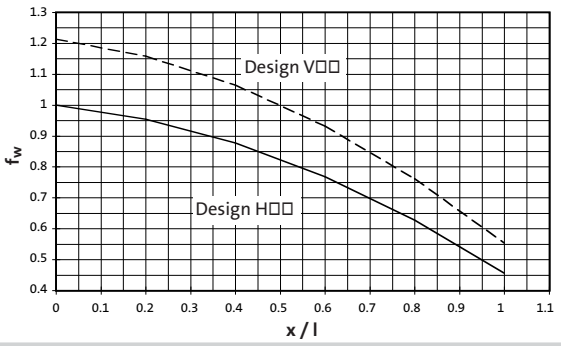
Contact Lenze if F_r **and** $F_a \neq 0$



f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft



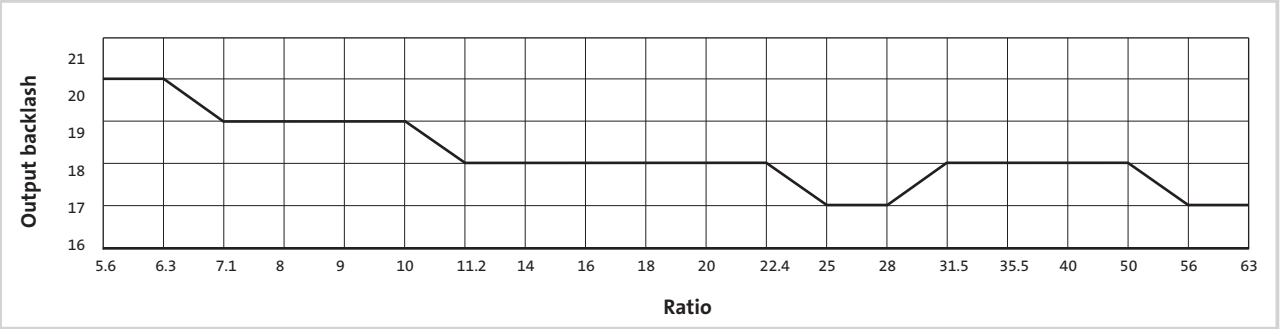
H□□	Hollow shaft Application of force F_r: At hollow shaft end face (x = 0) F_{aTab} only valid for $F_r = 0$							
	GKR03		GKR04		GKR05		GKR06	
n_2 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	2200	1000	2550	1275	3800	1900	5000	2500
250	2500	1100	3000	1500	4500	2200	5200	2600
160	2800	1250	3300	1650	5100	2500	5500	2750
100	3000	1400	3600	1800	6200	3100	7000	3500
63	3000	1400	3600	1800	7400	3700	9000	4500
40	3000	1400	3600	1800	7800	3900	10000	5000
25	3000	1400	3600	1800	7800	3900	10000	5000
≤16	3000	1400	3600	1800	7800	3900	10000	5000
$F_{r\,max}$	3000	–	3600	–	7800	–	10000	–

V□R	Solid shaft Application of force F_r: Centre of shaft journal (x = l/2) F_{aTab} only valid for $F_r = 0$							
	GKR03		GKR04		GKR05		GKR06	
n_2 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	1800	1000	2100	1275	3000	1900	4000	2500
250	2100	1100	2500	1500	3600	2200	4200	2600
160	2400	1250	2700	1650	4500	2500	4500	2750
100	2800	1400	3000	1800	5000	3100	5600	3500
63	3000	1400	3000	1800	6000	3700	7300	4500
40	3000	1400	3000	1800	6500	3900	8600	5000
25	3000	1400	3000	1800	6500	3900	9000	5000
≤16	3000	1400	3000	1800	6500	3900	9000	5000
$F_{r\,max}$	3000	–	3000	–	6500	–	9000	–

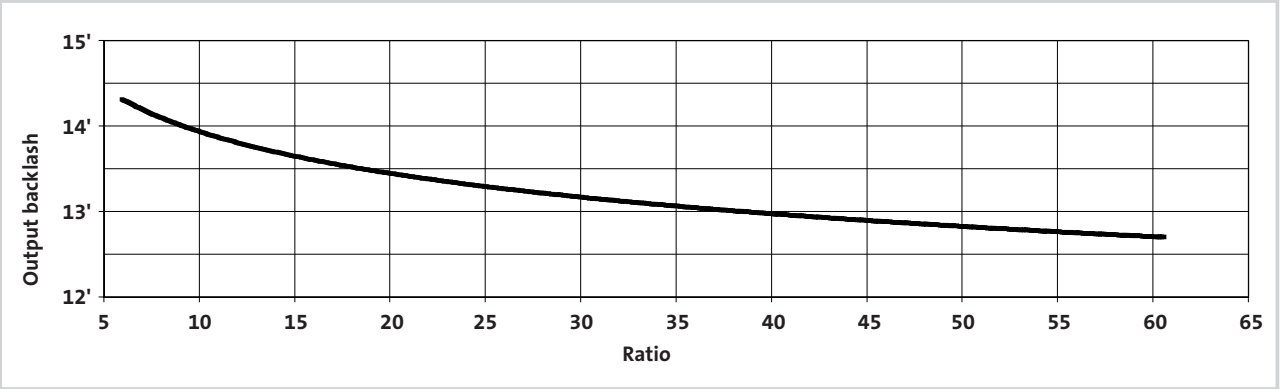
VAK	Solid shaft Application of force F_r: Centre of shaft journal (x = l/2) F_{aTab} only valid for $F_r = 0$							
	GKR03		GKR04		GKR05		GKR06	
n_2 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	1800	1000	2100	1275	5200	1900	5500	2500
250	2100	1100	2500	1500	6000	2200	6200	2600
160	2400	1250	2700	1650	6500	2500	7000	2750
100	2800	1400	3000	1800	6500	3100	9000	3500
63	3000	1400	3000	1800	6500	3700	9000	4500
40	3000	1400	3000	1800	6500	3900	9000	5000
25	3000	1400	3000	1800	6500	3900	9000	5000
≤16	3000	1400	3000	1800	6500	3900	9000	5000
$F_{r\,max}$	3000	–	3000	–	6500	–	9000	–

Neither radial nor axial forces are permitted on hollow shafts with shrink discs (S□□).

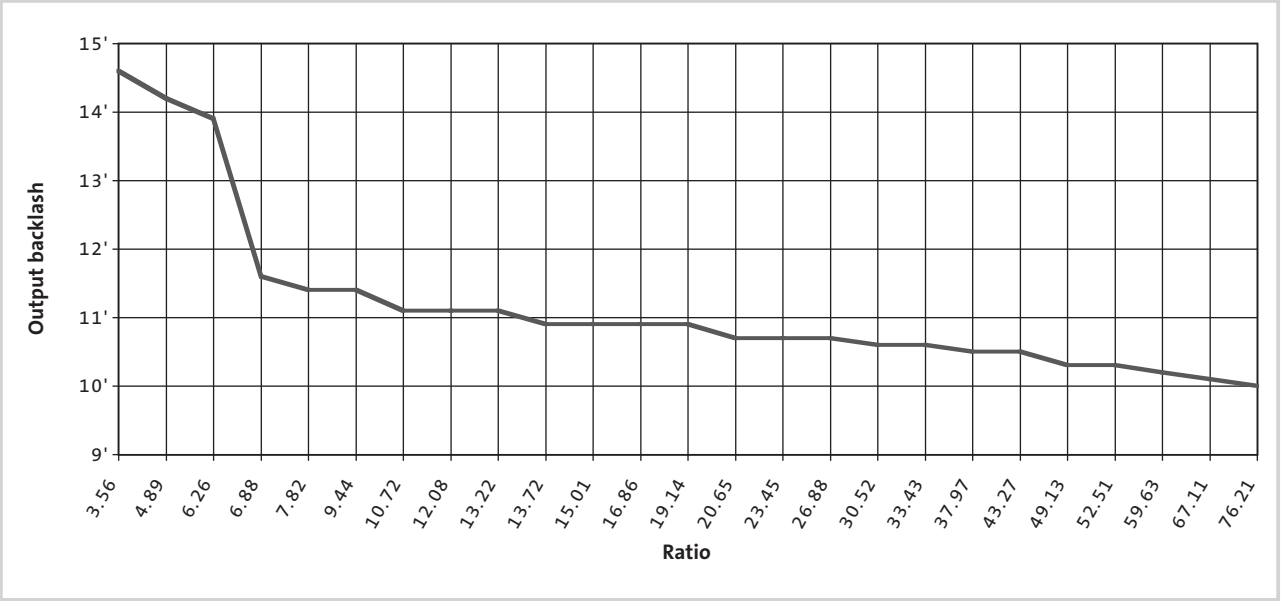
GKR 03-2



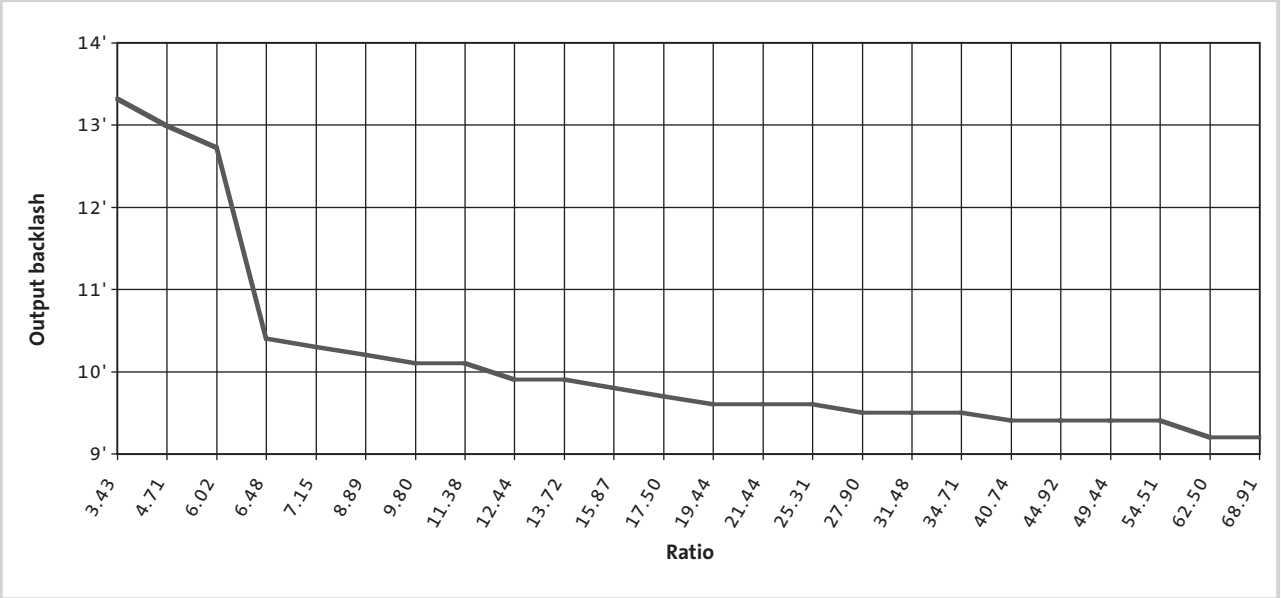
GKR 04-2



GKR 05-2



GKR 06-2



Bevel gearbox GKR □□-2

Gearbox size	Geared motors GKR□□-2M **H□R** with motor frame size 063	071	080	090	100	112 C22/-31	112 C32/41
03	7.0	9.1					
04	9.2	11	16	23			
05	14	16	20	27	34		
06	22	24	28	36	43	55	61

Gearbox size	Gearbox with mounting flange for IEC standard motors GKR□□-2N **H□R** with drive size 1A	□B	□C	□D	□E	□F
03	5.6					
04	7.8	8.4	12			
05		13	16	19	21	
06		21	24	27	29	31

Extra weights GKR □□

Gearbox size	Solid shaft **V□□**	2nd output shaft end **V□□**	Hollow shaft with shrink disc **S□□**	Flange **□AK**	Torque plate Pitch circle	Torque plate Housing foot
03	0.2	0.1	0.3	0.4	0.3	
04	0.3	0.1	0.3	0.5	0.4	
05	1.0	0.3	0.8	1.0	1.3	2.0
06	1.7	0.5	1.0	1.0	2.1	3.7

Weights in [kg] with oil capacity for mounting position A. All data is approximate

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.06 kW					**GKR □□ - 2M**	**5-30**
n1=1425	64	9	5.3	22.270	GKR03 - 2M□□□ 063C02	
	57	10	4.7	25.051	GKR03 - 2M□□□ 063C02	
	50	11	4.1	28.808	GKR03 - 2M□□□ 063C02	
	44	12	3.6	32.593	GKR03 - 2M□□□ 063C02	
	38	14	3.1	37.481	GKR03 - 2M□□□ 063C02	
	34	16	2.8	42.222	GKR03 - 2M□□□ 063C02	
	29	19	2.4	48.556	GKR03 - 2M□□□ 063C02	
	26	21	2.2	53.889	GKR03 - 2M□□□ 063C02	
	23	24	1.9	61.972	GKR03 - 2M□□□ 063C02	
0.09 kW					**GKR □□ - 2M**	**5-30**
n1=1375	103	8	5.7	13.386	GKR03 - 2M□□□ 063C22	
	91	9	5.0	15.111	GKR03 - 2M□□□ 063C22	
	79	10	4.4	17.378	GKR03 - 2M□□□ 063C22	
	71	12	3.9	19.365	GKR03 - 2M□□□ 063C22	
	62	13	3.4	22.270	GKR03 - 2M□□□ 063C22	
	55	15	3.0	25.051	GKR03 - 2M□□□ 063C22	
	48	17	2.6	28.808	GKR03 - 2M□□□ 063C22	
	42	19	2.3	32.593	GKR03 - 2M□□□ 063C22	
	37	22	2.0	37.481	GKR03 - 2M□□□ 063C22	
	33	25	1.8	42.222	GKR03 - 2M□□□ 063C22	
	28	29	1.6	48.556	GKR03 - 2M□□□ 063C22	
	26	32	1.4	53.889	GKR03 - 2M□□□ 063C22	
	22	37	1.2	61.972	GKR03 - 2M□□□ 063C22	
0.12 kW					**GKR □□ - 2M**	**5-30**
n1=1425	136	8	5.6	10.466	GKR03 - 2M□□□ 063C12	
	122	9	5.1	11.640	GKR03 - 2M□□□ 063C12	
	112	10	5.0	12.698	GKR04 - 2M□□□ 063C12	
	107	10	4.4	13.386	GKR03 - 2M□□□ 063C12	
	94	12	3.9	15.111	GKR03 - 2M□□□ 063C12	
	82	13	3.4	17.378	GKR03 - 2M□□□ 063C12	
	74	15	3.0	19.365	GKR03 - 2M□□□ 063C12	
	64	17	2.6	22.270	GKR03 - 2M□□□ 063C12	
	57	19	2.4	25.051	GKR03 - 2M□□□ 063C12	
	50	22	2.0	28.808	GKR03 - 2M□□□ 063C12	
	44	25	1.8	32.593	GKR03 - 2M□□□ 063C12	
	38	29	1.6	37.481	GKR03 - 2M□□□ 063C12	
	34	32	1.4	42.222	GKR03 - 2M□□□ 063C12	
	36	31	2.9	40.000	GKR04 - 2M□□□ 063C12	
	31	35	2.6	46.000	GKR04 - 2M□□□ 063C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.12 kW					**GKR □□ - 2M**	5-30
n1=1425	29	37	1.2	48.556	GKR03 - 2M□□□ 063C12	
	27	40	1.7	52.698	GKR04 - 2M□□□ 063C12	
	26	41	1.1	53.889	GKR03 - 2M□□□ 063C12	
	24	46	1.7	60.603	GKR04 - 2M□□□ 063C12	
	23	47	1.0	61.972	GKR03 - 2M□□□ 063C12	
0.18 kW					**GKR □□ - 2M**	5-30
n1=2760	241	7	5.7	11.449	GKR04 - 2M□□□ 063-11	
	217	8	5.3	12.698	GKR04 - 2M□□□ 063-11	
	189	9	5.3	14.603	GKR04 - 2M□□□ 063-11	
	141	12	5.8	19.556	GKR04 - 2M□□□ 063-11	
	123	13	5.5	22.489	GKR04 - 2M□□□ 063-11	
	110	15	5.5	25.185	GKR04 - 2M□□□ 063-11	
	95	17	4.9	28.963	GKR04 - 2M□□□ 063-11	
	87	19	4.4	31.919	GKR04 - 2M□□□ 063-11	
	75	22	3.8	36.707	GKR04 - 2M□□□ 063-11	
	69	24	3.5	40.000	GKR04 - 2M□□□ 063-11	
	60	27	3.3	46.000	GKR04 - 2M□□□ 063-11	
	52	31	2.2	52.698	GKR04 - 2M□□□ 063-11	
	46	36	2.2	60.603	GKR04 - 2M□□□ 063-11	
n1=1365	219	7	5.4	6.222	GKR03 - 2M□□□ 063C32	
	192	9	5.1	7.111	GKR03 - 2M□□□ 063C32	
	167	10	4.5	8.178	GKR03 - 2M□□□ 063C32	
	150	11	4.1	9.101	GKR03 - 2M□□□ 063C32	
	130	13	3.6	10.466	GKR03 - 2M□□□ 063C32	
	117	14	3.2	11.640	GKR03 - 2M□□□ 063C32	
	108	15	3.2	12.698	GKR04 - 2M□□□ 063C32	
	102	16	2.8	13.386	GKR03 - 2M□□□ 063C32	
	94	18	3.2	14.603	GKR04 - 2M□□□ 063C32	
	90	18	2.5	15.111	GKR03 - 2M□□□ 063C32	
	79	21	2.2	17.378	GKR03 - 2M□□□ 063C32	
	71	23	1.9	19.365	GKR03 - 2M□□□ 063C32	
	61	27	1.7	22.270	GKR03 - 2M□□□ 063C32	
	55	30	1.5	25.051	GKR03 - 2M□□□ 063C32	
	54	30	2.9	25.185	GKR04 - 2M□□□ 063C32	
	47	35	1.3	28.808	GKR03 - 2M□□□ 063C32	
	47	35	2.6	28.963	GKR04 - 2M□□□ 063C32	
	42	39	1.2	32.593	GKR03 - 2M□□□ 063C32	
	43	38	2.4	31.919	GKR04 - 2M□□□ 063C32	
	36	45	1.0	37.481	GKR03 - 2M□□□ 063C32	
	37	44	2.0	36.707	GKR04 - 2M□□□ 063C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GKR □□ - 2M**	5-30
n1=1365	32	51	0.9	42.222	GKR03 - 2M□□□ 063C32	
	34	48	1.9	40.000	GKR04 - 2M□□□ 063C32	
	30	55	1.6	46.000	GKR04 - 2M□□□ 063C32	
	26	63	1.1	52.698	GKR04 - 2M□□□ 063C32	
	23	73	1.1	60.603	GKR04 - 2M□□□ 063C32	
n1=870	22	75	1.2	40.000	GKR04 - 2M□□□ 071-13	
	19	86	1.0	46.000	GKR04 - 2M□□□ 071-13	
	20	81	3.0	43.267	GKR05 - 2M□□□ 071-13	
	18	92	2.6	49.133	GKR05 - 2M□□□ 071-13	
	17	99	2.4	52.510	GKR05 - 2M□□□ 071-13	
	16	102	3.5	54.513	GKR06 - 2M□□□ 071-13	
	15	112	2.1	59.630	GKR05 - 2M□□□ 071-13	
	14	117	2.8	62.500	GKR06 - 2M□□□ 071-13	
	13	126	1.4	67.113	GKR05 - 2M□□□ 071-13	
	13	129	2.8	68.906	GKR06 - 2M□□□ 071-13	
	11	143	1.4	76.213	GKR05 - 2M□□□ 071-13	
0.25 kW					**GKR □□ - 2M**	5-30
n1=2760	241	9	4.1	11.449	GKR04 - 2M□□□ 063-31	
	217	10	3.8	12.698	GKR04 - 2M□□□ 063-31	
	189	12	3.8	14.603	GKR04 - 2M□□□ 063-31	
	141	16	4.2	19.556	GKR04 - 2M□□□ 063-31	
	123	19	4.0	22.489	GKR04 - 2M□□□ 063-31	
	110	21	4.0	25.185	GKR04 - 2M□□□ 063-31	
	95	24	3.5	28.963	GKR04 - 2M□□□ 063-31	
	87	26	3.2	31.919	GKR04 - 2M□□□ 063-31	
	75	30	2.8	36.707	GKR04 - 2M□□□ 063-31	
	69	33	2.5	40.000	GKR04 - 2M□□□ 063-31	
	60	38	2.4	46.000	GKR04 - 2M□□□ 063-31	
	52	43	1.6	52.698	GKR04 - 2M□□□ 063-31	
	46	50	1.6	60.603	GKR04 - 2M□□□ 063-31	
n1=1370	264	9	4.5	5.185	GKR04 - 2M□□□ 063C42	
	253	9	4.4	5.411	GKR03 - 2M□□□ 063C42	
	220	10	3.9	6.222	GKR03 - 2M□□□ 063C42	
	193	12	3.7	7.111	GKR03 - 2M□□□ 063C42	
	168	14	3.3	8.178	GKR03 - 2M□□□ 063C42	
	151	15	3.0	9.101	GKR03 - 2M□□□ 063C42	
	131	17	2.6	10.466	GKR03 - 2M□□□ 063C42	
	118	19	2.3	11.640	GKR03 - 2M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GKR □□ - 2M**	5-30
n1=1370	108	21	4.3	12.698	GKR04 - 2M□□□ 063C42	
	104	22	4.5	13.216	GKR05 - 2M□□□ 063C42	
	102	22	2.0	13.386	GKR03 - 2M□□□ 063C42	
	91	25	4.5	15.008	GKR05 - 2M□□□ 063C42	
	91	25	1.8	15.111	GKR03 - 2M□□□ 063C42	
	79	29	1.6	17.378	GKR03 - 2M□□□ 063C42	
	77	30	3.0	17.889	GKR04 - 2M□□□ 063C42	
	71	32	1.4	19.365	GKR03 - 2M□□□ 063C42	
	70	32	2.8	19.556	GKR04 - 2M□□□ 063C42	
	62	37	1.2	22.270	GKR03 - 2M□□□ 063C42	
	61	37	2.4	22.489	GKR04 - 2M□□□ 063C42	
	55	42	1.1	25.051	GKR03 - 2M□□□ 063C42	
	54	42	2.2	25.185	GKR04 - 2M□□□ 063C42	
	48	48	0.9	28.808	GKR03 - 2M□□□ 063C42	
	47	48	1.9	28.963	GKR04 - 2M□□□ 063C42	
	45	51	4.3	30.522	GKR05 - 2M□□□ 063C42	
	42	54	0.8	32.593	GKR03 - 2M□□□ 063C42	
	43	53	1.7	31.919	GKR04 - 2M□□□ 063C42	
	37	61	1.5	36.707	GKR04 - 2M□□□ 063C42	
	34	66	1.2	40.000	GKR04 - 2M□□□ 063C42	
	30	76	1.2	46.000	GKR04 - 2M□□□ 063C42	
	28	81	3.0	49.133	GKR05 - 2M□□□ 063C42	
	28	82	3.2	49.444	GKR06 - 2M□□□ 063C42	
	26	87	2.8	52.510	GKR05 - 2M□□□ 063C42	
	25	90	3.2	54.513	GKR06 - 2M□□□ 063C42	
	23	99	2.4	59.630	GKR05 - 2M□□□ 063C42	
	22	104	2.6	62.500	GKR06 - 2M□□□ 063C42	
	20	111	1.4	67.113	GKR05 - 2M□□□ 063C42	
	20	114	2.6	68.906	GKR06 - 2M□□□ 063C42	
	18	126	1.4	76.213	GKR05 - 2M□□□ 063C42	
n1=920	18	130	1.9	52.510	GKR05 - 2M□□□ 071-33	
	17	134	2.7	54.513	GKR06 - 2M□□□ 071-33	
	15	147	1.6	59.630	GKR05 - 2M□□□ 071-33	
	15	154	2.2	62.500	GKR06 - 2M□□□ 071-33	
	14	166	1.1	67.113	GKR05 - 2M□□□ 071-33	
	13	170	2.2	68.906	GKR06 - 2M□□□ 071-33	
	12	188	1.1	76.213	GKR05 - 2M□□□ 071-33	
0.37 kW					**GKR □□ - 2M**	5-30
n1=2840	271	12	5.8	10.466	GKR04 - 2M□□□ 071-11	
	248	14	5.4	11.449	GKR04 - 2M□□□ 071-11	
	224	15	4.8	12.698	GKR04 - 2M□□□ 071-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GKR □□ - 2M**	**5-30**
n1=2840	195	17	4.2	14.603	GKR04 - 2M□□□ 071-11	
	183	18	4.0	15.556	GKR04 - 2M□□□ 071-11	
	159	21	3.4	17.889	GKR04 - 2M□□□ 071-11	
	145	23	3.1	19.556	GKR04 - 2M□□□ 071-11	
	126	27	2.7	22.489	GKR04 - 2M□□□ 071-11	
	113	30	2.8	25.185	GKR04 - 2M□□□ 071-11	
	98	34	2.4	28.963	GKR04 - 2M□□□ 071-11	
	89	38	2.2	31.919	GKR04 - 2M□□□ 071-11	
	77	43	1.9	36.707	GKR04 - 2M□□□ 071-11	
	71	47	1.7	40.000	GKR04 - 2M□□□ 071-11	
	62	54	1.7	46.000	GKR04 - 2M□□□ 071-11	
	58	58	4.1	49.133	GKR05 - 2M□□□ 071-11	
	54	62	3.9	52.510	GKR05 - 2M□□□ 071-11	
	52	64	5.6	54.513	GKR06 - 2M□□□ 071-11	
	48	71	3.4	59.630	GKR05 - 2M□□□ 071-11	
	45	74	4.5	62.500	GKR06 - 2M□□□ 071-11	
	42	79	2.2	67.113	GKR05 - 2M□□□ 071-11	
	41	81	4.5	68.906	GKR06 - 2M□□□ 071-11	
	37	90	2.2	76.213	GKR05 - 2M□□□ 071-11	
n1=1410	272	12	4.0	5.185	GKR04 - 2M□□□ 071C32	
	261	13	3.1	5.411	GKR03 - 2M□□□ 071C32	
	227	15	2.7	6.222	GKR03 - 2M□□□ 071C32	
	198	17	2.5	7.111	GKR03 - 2M□□□ 071C32	
	172	20	2.3	8.178	GKR03 - 2M□□□ 071C32	
	155	22	2.1	9.101	GKR03 - 2M□□□ 071C32	
	135	25	1.8	10.466	GKR03 - 2M□□□ 071C32	
	121	28	1.6	11.640	GKR03 - 2M□□□ 071C32	
	111	30	3.0	12.698	GKR04 - 2M□□□ 071C32	
	107	32	4.0	13.216	GKR05 - 2M□□□ 071C32	
	105	32	1.4	13.386	GKR03 - 2M□□□ 071C32	
	97	35	2.6	14.603	GKR04 - 2M□□□ 071C32	
	94	36	4.0	15.008	GKR05 - 2M□□□ 071C32	
	93	36	1.3	15.111	GKR03 - 2M□□□ 071C32	
	91	37	2.4	15.556	GKR04 - 2M□□□ 071C32	
	81	41	1.1	17.378	GKR03 - 2M□□□ 071C32	
	79	43	2.1	17.889	GKR04 - 2M□□□ 071C32	
	73	46	1.0	19.365	GKR03 - 2M□□□ 071C32	
	72	47	1.9	19.556	GKR04 - 2M□□□ 071C32	
	63	53	0.8	22.270	GKR03 - 2M□□□ 071C32	
	63	54	1.7	22.489	GKR04 - 2M□□□ 071C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Bevel geared motor	Dimensions Page
0.37 kW					**GKR □□ - 2M**	5-30
n1=1410	56	60	1.5	25.185	GKR04 - 2M□□□ 071C32	
	49	69	1.3	28.963	GKR04 - 2M□□□ 071C32	
	46	73	3.3	30.522	GKR05 - 2M□□□ 071C32	
	44	76	1.2	31.919	GKR04 - 2M□□□ 071C32	
	38	87	1.0	36.707	GKR04 - 2M□□□ 071C32	
	42	80	3.0	33.433	GKR05 - 2M□□□ 071C32	
	35	95	0.9	40.000	GKR04 - 2M□□□ 071C32	
	37	90	2.7	37.967	GKR05 - 2M□□□ 071C32	
	35	97	3.2	40.741	GKR06 - 2M□□□ 071C32	
	31	110	0.8	46.000	GKR04 - 2M□□□ 071C32	
	33	103	2.3	43.267	GKR05 - 2M□□□ 071C32	
	31	107	3.2	44.917	GKR06 - 2M□□□ 071C32	
	29	117	2.1	49.133	GKR05 - 2M□□□ 071C32	
	29	118	2.8	49.444	GKR06 - 2M□□□ 071C32	
	27	125	1.9	52.510	GKR05 - 2M□□□ 071C32	
	26	130	2.8	54.513	GKR06 - 2M□□□ 071C32	
	24	142	1.7	59.630	GKR05 - 2M□□□ 071C32	
	23	149	2.2	62.500	GKR06 - 2M□□□ 071C32	
	21	160	1.1	67.113	GKR05 - 2M□□□ 071C32	
	21	164	2.2	68.906	GKR06 - 2M□□□ 071C32	
	19	181	1.1	76.213	GKR05 - 2M□□□ 071C32	
n1=900	18	183	1.3	49.133	GKR05 - 2M□□□ 080-13	
	18	184	2.4	49.444	GKR06 - 2M□□□ 080-13	
	17	196	1.2	52.510	GKR05 - 2M□□□ 080-13	
	17	203	2.2	54.513	GKR06 - 2M□□□ 080-13	
	15	222	1.1	59.630	GKR05 - 2M□□□ 080-13	
	14	233	1.6	62.500	GKR06 - 2M□□□ 080-13	
	13	257	1.6	68.906	GKR06 - 2M□□□ 080-13	
0.55 kW					**GKR □□ - 2M**	5-30
n1=2840	548	9	4.3	5.185	GKR04 - 2M□□□ 071-31	
	476	11	4.3	5.963	GKR04 - 2M□□□ 071-31	
	399	13	4.3	7.111	GKR04 - 2M□□□ 071-31	
	347	14	4.3	8.178	GKR04 - 2M□□□ 071-31	
	312	16	4.3	9.101	GKR04 - 2M□□□ 071-31	
	271	18	3.9	10.466	GKR04 - 2M□□□ 071-31	
	248	20	3.6	11.449	GKR04 - 2M□□□ 071-31	
	224	22	3.3	12.698	GKR04 - 2M□□□ 071-31	
	215	23	4.3	13.216	GKR05 - 2M□□□ 071-31	
	195	26	2.8	14.603	GKR04 - 2M□□□ 071-31	
	189	26	4.3	15.008	GKR05 - 2M□□□ 071-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GKR □□ - 2M**	**5-30**
n1=2840	183	27	2.7	15.556	GKR04 - 2M□□□ 071-31	
	159	31	2.3	17.889	GKR04 - 2M□□□ 071-31	
	145	34	2.1	19.556	GKR04 - 2M□□□ 071-31	
	126	40	1.8	22.489	GKR04 - 2M□□□ 071-31	
	113	44	1.9	25.185	GKR04 - 2M□□□ 071-31	
	98	51	1.6	28.963	GKR04 - 2M□□□ 071-31	
	93	54	4.1	30.522	GKR05 - 2M□□□ 071-31	
	89	56	1.5	31.919	GKR04 - 2M□□□ 071-31	
	77	65	1.3	36.707	GKR04 - 2M□□□ 071-31	
	71	70	1.2	40.000	GKR04 - 2M□□□ 071-31	
	62 66	81 76	1.1 3.2	46.000 43.267	GKR04 - 2M□□□ 071-31 GKR05 - 2M□□□ 071-31	
	58	86	2.8	49.133	GKR05 - 2M□□□ 071-31	
	54	92	2.6	52.510	GKR05 - 2M□□□ 071-31	
	52	96	3.8	54.513	GKR06 - 2M□□□ 071-31	
	48	105	2.3	59.630	GKR05 - 2M□□□ 071-31	
	45	110	3.0	62.500	GKR06 - 2M□□□ 071-31	
	42	118	1.5	67.113	GKR05 - 2M□□□ 071-31	
	41	121	3.0	68.906	GKR06 - 2M□□□ 071-31	
	37	134	1.5	76.213	GKR05 - 2M□□□ 071-31	
n1=1405	271	18	3.7	5.185	GKR04 - 2M□□□ 071C42	
	260	19	2.0	5.411	GKR03 - 2M□□□ 071C42	
	226	22	1.8	6.222	GKR03 - 2M□□□ 071C42	
	198 198	25 25	1.7 3.1	7.111 7.111	GKR03 - 2M□□□ 071C42 GKR04 - 2M□□□ 071C42	
	172 172	29 29	1.5 2.8	8.178 8.178	GKR03 - 2M□□□ 071C42 GKR04 - 2M□□□ 071C42	
	154 154	32 32	1.4 2.6	9.101 9.101	GKR03 - 2M□□□ 071C42 GKR04 - 2M□□□ 071C42	
	134 134	37 37	1.2 2.4	10.466 10.466	GKR03 - 2M□□□ 071C42 GKR04 - 2M□□□ 071C42	
	121 123	41 41	1.1 2.2	11.640 11.449	GKR03 - 2M□□□ 071C42 GKR04 - 2M□□□ 071C42	
	111	45	2.0	12.698	GKR04 - 2M□□□ 071C42	
	106	47	4.5	13.216	GKR05 - 2M□□□ 071C42	
	105 96	48 52	0.9 1.7	13.386 14.603	GKR03 - 2M□□□ 071C42 GKR04 - 2M□□□ 071C42	
	94	53	4.2	15.008	GKR05 - 2M□□□ 071C42	
	93 90	54 55	0.8 1.6	15.111 15.556	GKR03 - 2M□□□ 071C42 GKR04 - 2M□□□ 071C42	
	79	64	1.4	17.889	GKR04 - 2M□□□ 071C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Bevel geared motor	Dimensions Page
0.55 kW					**GKR □□ - 2M**	5-30
n1=1405	72	69	1.3	19.556	GKR04 - 2M□□□ 071C42	
	63	80	1.1	22.489	GKR04 - 2M□□□ 071C42	
	60	83	2.9	23.450	GKR05 - 2M□□□ 071C42	
	56	89	1.0	25.185	GKR04 - 2M□□□ 071C42	
	52	96	2.5	26.878	GKR05 - 2M□□□ 071C42	
	49	103	0.9	28.963	GKR04 - 2M□□□ 071C42	
	46	108	2.2	30.522	GKR05 - 2M□□□ 071C42	
	45	112	3.2	31.481	GKR06 - 2M□□□ 071C42	
	42	119	2.0	33.433	GKR05 - 2M□□□ 071C42	
	41	123	3.2	34.708	GKR06 - 2M□□□ 071C42	
	37	135	1.8	37.967	GKR05 - 2M□□□ 071C42	
	35	145	2.9	40.741	GKR06 - 2M□□□ 071C42	
	33	154	1.6	43.267	GKR05 - 2M□□□ 071C42	
	31	160	2.8	44.917	GKR06 - 2M□□□ 071C42	
	29	175	1.4	49.133	GKR05 - 2M□□□ 071C42	
	28	176	2.4	49.444	GKR06 - 2M□□□ 071C42	
	27	187	1.3	52.510	GKR05 - 2M□□□ 071C42	
	26	194	2.3	54.513	GKR06 - 2M□□□ 071C42	
	24	212	1.1	59.630	GKR05 - 2M□□□ 071C42	
	23	222	1.4	62.500	GKR06 - 2M□□□ 071C42	
	20	245	1.4	68.906	GKR06 - 2M□□□ 071C42	
n1=900	20	249	1.8	44.917	GKR06 - 2M□□□ 080-33	
	18	272	0.9	49.133	GKR05 - 2M□□□ 080-33	
	18	274	1.6	49.444	GKR06 - 2M□□□ 080-33	
	17	291	0.8	52.510	GKR05 - 2M□□□ 080-33	
	17	302	1.5	54.513	GKR06 - 2M□□□ 080-33	
	14	347	1.1	62.500	GKR06 - 2M□□□ 080-33	
	13	382	1.1	68.906	GKR06 - 2M□□□ 080-33	
0.75 kW					**GKR □□ - 2M**	5-30
n1=2850	550	12	4.5	5.185	GKR04 - 2M□□□ 080-11	
	478	14	4.1	5.963	GKR04 - 2M□□□ 080-11	
	401	17	3.7	7.111	GKR04 - 2M□□□ 080-11	
	349	20	3.4	8.178	GKR04 - 2M□□□ 080-11	
	313	22	3.1	9.101	GKR04 - 2M□□□ 080-11	
	272	25	2.9	10.466	GKR04 - 2M□□□ 080-11	
	249	27	2.7	11.449	GKR04 - 2M□□□ 080-11	
	224	30	2.4	12.698	GKR04 - 2M□□□ 080-11	
	216	32	5.5	13.216	GKR05 - 2M□□□ 080-11	
	195	35	2.1	14.603	GKR04 - 2M□□□ 080-11	
	190	36	5.0	15.008	GKR05 - 2M□□□ 080-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GKR □□ - 2M**	**5-30**
n1=2850	183	37	2.0	15.556	GKR04 - 2M□□□ 080-11	
	159	43	1.7	17.889	GKR04 - 2M□□□ 080-11	
	146	47	1.6	19.556	GKR04 - 2M□□□ 080-11	
	127	54	1.4	22.489	GKR04 - 2M□□□ 080-11	
	113	60	1.4	25.185	GKR04 - 2M□□□ 080-11	
	98	69	1.2	28.963	GKR04 - 2M□□□ 080-11	
	93	73	3.0	30.522	GKR05 - 2M□□□ 080-11	
	91	75	5.4	31.481	GKR06 - 2M□□□ 080-11	
	85	80	2.8	33.433	GKR05 - 2M□□□ 080-11	
	75	91	2.4	37.967	GKR05 - 2M□□□ 080-11	
	66	103	2.3	43.267	GKR05 - 2M□□□ 080-11	
	58	117	2.0	49.133	GKR05 - 2M□□□ 080-11	
	54	125	1.9	52.510	GKR05 - 2M□□□ 080-11	
	52	130	3.5	54.513	GKR06 - 2M□□□ 080-11	
	48	142	1.7	59.630	GKR05 - 2M□□□ 080-11	
	46	149	2.5	62.500	GKR06 - 2M□□□ 080-11	
	41	165	2.5	68.906	GKR06 - 2M□□□ 080-11	
n1=1410	272	25	2.8	5.185	GKR04 - 2M□□□ 080C32	
	237	29	2.5	5.963	GKR04 - 2M□□□ 080C32	
	225	30	4.1	6.257	GKR05 - 2M□□□ 080C32	
	198	34	2.3	7.111	GKR04 - 2M□□□ 080C32	
	172	40	2.1	8.178	GKR04 - 2M□□□ 080C32	
	155	44	1.9	9.101	GKR04 - 2M□□□ 080C32	
	135	51	1.8	10.466	GKR04 - 2M□□□ 080C32	
	123	55	1.6	11.449	GKR04 - 2M□□□ 080C32	
	111	61	1.5	12.698	GKR04 - 2M□□□ 080C32	
	107	64	3.4	13.216	GKR05 - 2M□□□ 080C32	
	97	71	1.3	14.603	GKR04 - 2M□□□ 080C32	
	94	72	3.1	15.008	GKR05 - 2M□□□ 080C32	
	91	75	1.2	15.556	GKR04 - 2M□□□ 080C32	
	84	81	3.0	16.857	GKR05 - 2M□□□ 080C32	
	79	86	1.0	17.889	GKR04 - 2M□□□ 080C32	
	74	92	2.6	19.143	GKR05 - 2M□□□ 080C32	
	72	94	1.0	19.556	GKR04 - 2M□□□ 080C32	
	68	100	2.4	20.650	GKR05 - 2M□□□ 080C32	
	63	109	0.8	22.489	GKR04 - 2M□□□ 080C32	
	60	113	2.1	23.450	GKR05 - 2M□□□ 080C32	
	53	130	1.9	26.878	GKR05 - 2M□□□ 080C32	
	51	135	3.3	27.903	GKR06 - 2M□□□ 080C32	
	46	147	1.6	30.522	GKR05 - 2M□□□ 080C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Bevel geared motor	Dimensions Page
0.75 kW					**GKR □□ - 2M**	5-30
n1=1410	45	152	2.9	31.481	GKR06 - 2M□□□ 080C32	
	42	161	1.5	33.433	GKR05 - 2M□□□ 080C32	
	41	168	2.7	34.708	GKR06 - 2M□□□ 080C32	
	37	183	1.3	37.967	GKR05 - 2M□□□ 080C32	
	35	197	2.3	40.741	GKR06 - 2M□□□ 080C32	
	33	209	1.1	43.267	GKR05 - 2M□□□ 080C32	
	31	217	2.1	44.917	GKR06 - 2M□□□ 080C32	
	29	237	1.0	49.133	GKR05 - 2M□□□ 080C32	
	29	239	1.9	49.444	GKR06 - 2M□□□ 080C32	
	27	253	0.9	52.510	GKR05 - 2M□□□ 080C32	
	26	263	1.7	54.513	GKR06 - 2M□□□ 080C32	
	24	288	0.8	59.630	GKR05 - 2M□□□ 080C32	
	23	302	1.3	62.500	GKR06 - 2M□□□ 080C32	
	21	333	1.3	68.906	GKR06 - 2M□□□ 080C32	
1.1 kW					**GKR □□ - 2M**	5-30
n1=2810	542	18	3.0	5.185	GKR04 - 2M□□□ 080-31	
	471	21	2.8	5.963	GKR04 - 2M□□□ 080-31	
	449	22	4.6	6.257	GKR05 - 2M□□□ 080-31	
	395	25	2.5	7.111	GKR04 - 2M□□□ 080-31	
	344	29	2.3	8.178	GKR04 - 2M□□□ 080-31	
	309	32	2.1	9.101	GKR04 - 2M□□□ 080-31	
	269	37	1.9	10.466	GKR04 - 2M□□□ 080-31	
	245	41	1.8	11.449	GKR04 - 2M□□□ 080-31	
	221	45	1.6	12.698	GKR04 - 2M□□□ 080-31	
	213	47	3.7	13.216	GKR05 - 2M□□□ 080-31	
	192	52	1.4	14.603	GKR04 - 2M□□□ 080-31	
	187	53	3.4	15.008	GKR05 - 2M□□□ 080-31	
	181	55	1.3	15.556	GKR04 - 2M□□□ 080-31	
	157	64	1.1	17.889	GKR04 - 2M□□□ 080-31	
	147	68	2.9	19.143	GKR05 - 2M□□□ 080-31	
	144	69	1.1	19.556	GKR04 - 2M□□□ 080-31	
	136	73	2.7	20.650	GKR05 - 2M□□□ 080-31	
	125	80	0.9	22.489	GKR04 - 2M□□□ 080-31	
	120	83	2.3	23.450	GKR05 - 2M□□□ 080-31	
	112	89	0.9	25.185	GKR04 - 2M□□□ 080-31	
	105	96	2.3	26.878	GKR05 - 2M□□□ 080-31	
	97	103	0.8	28.963	GKR04 - 2M□□□ 080-31	
	92	108	2.0	30.522	GKR05 - 2M□□□ 080-31	
	89	112	3.6	31.481	GKR06 - 2M□□□ 080-31	
	84	119	1.9	33.433	GKR05 - 2M□□□ 080-31	
	74	135	1.6	37.967	GKR05 - 2M□□□ 080-31	
	69	145	3.1	40.741	GKR06 - 2M□□□ 080-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GKR □□ - 2M**	5-30
n1=2810	65	154	1.6	43.267	GKR05 - 2M□□□ 080-31	
	63	160	2.8	44.917	GKR06 - 2M□□□ 080-31	
	57	175	1.4	49.133	GKR05 - 2M□□□ 080-31	
	57	176	2.6	49.444	GKR06 - 2M□□□ 080-31	
	54	187	1.3	52.510	GKR05 - 2M□□□ 080-31	
	52	194	2.3	54.513	GKR06 - 2M□□□ 080-31	
	47	212	1.1	59.630	GKR05 - 2M□□□ 080-31	
	45	222	1.7	62.500	GKR06 - 2M□□□ 080-31	
	41	245	1.7	68.906	GKR06 - 2M□□□ 080-31	
n1=1390	390	26	4.5	3.565	GKR05 - 2M□□□ 080C42	
	268	37	1.8	5.185	GKR04 - 2M□□□ 080C42	
	233	43	1.7	5.963	GKR04 - 2M□□□ 080C42	
	222	45	3.5	6.257	GKR05 - 2M□□□ 080C42	
	196	51	1.5	7.111	GKR04 - 2M□□□ 080C42	
	170	59	1.4	8.178	GKR04 - 2M□□□ 080C42	
	153	65	1.3	9.101	GKR04 - 2M□□□ 080C42	
	147	68	2.8	9.440	GKR05 - 2M□□□ 080C42	
	133	75	1.2	10.466	GKR04 - 2M□□□ 080C42	
	130	77	2.6	10.720	GKR05 - 2M□□□ 080C42	
	121	82	1.1	11.449	GKR04 - 2M□□□ 080C42	
	110	91	1.0	12.698	GKR04 - 2M□□□ 080C42	
	115	87	2.4	12.081	GKR05 - 2M□□□ 080C42	
	105	95	2.3	13.216	GKR05 - 2M□□□ 080C42	
	95	105	0.9	14.603	GKR04 - 2M□□□ 080C42	
	101	99	2.2	13.719	GKR05 - 2M□□□ 080C42	
	93	108	2.1	15.008	GKR05 - 2M□□□ 080C42	
	89	112	0.8	15.556	GKR04 - 2M□□□ 080C42	
	83	121	2.0	16.857	GKR05 - 2M□□□ 080C42	
	73	137	1.7	19.143	GKR05 - 2M□□□ 080C42	
	67	148	1.6	20.650	GKR05 - 2M□□□ 080C42	
	72	140	3.2	19.444	GKR06 - 2M□□□ 080C42	
	59	168	1.4	23.450	GKR05 - 2M□□□ 080C42	
	65	154	2.9	21.438	GKR06 - 2M□□□ 080C42	
	52	193	1.2	26.878	GKR05 - 2M□□□ 080C42	
	55	182	2.5	25.309	GKR06 - 2M□□□ 080C42	
	50	200	2.2	27.903	GKR06 - 2M□□□ 080C42	
	46	219	1.1	30.522	GKR05 - 2M□□□ 080C42	
	44	226	2.0	31.481	GKR06 - 2M□□□ 080C42	
	42	240	1.0	33.433	GKR05 - 2M□□□ 080C42	
	40	249	1.8	34.708	GKR06 - 2M□□□ 080C42	
	37	273	0.9	37.967	GKR05 - 2M□□□ 080C42	
	34	293	1.5	40.741	GKR06 - 2M□□□ 080C42	
	31	323	1.4	44.917	GKR06 - 2M□□□ 080C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GKR □□ - 2M**	5-30
n1=1390	28	355	1.3	49.444	GKR06 - 2M□□□ 080C42	
	26	391	1.2	54.513	GKR06 - 2M□□□ 080C42	
1.5 kW					**GKR □□ - 2M**	5-30
n1=2840	548	25	2.2	5.185	GKR04 - 2M□□□ 090-11	
	476	29	2.0	5.963	GKR04 - 2M□□□ 090-11	
	454	30	4.2	6.257	GKR05 - 2M□□□ 090-11	
	399	34	1.8	7.111	GKR04 - 2M□□□ 090-11	
	347	39	1.7	8.178	GKR04 - 2M□□□ 090-11	
	312	44	1.6	9.101	GKR04 - 2M□□□ 090-11	
	271 265	50 51	1.4 3.2	10.466 10.720	GKR04 - 2M□□□ 090-11 GKR05 - 2M□□□ 090-11	
	248	55	1.3	11.449	GKR04 - 2M□□□ 090-11	
	224 235	61 58	1.2 2.9	12.698 12.081	GKR04 - 2M□□□ 090-11 GKR05 - 2M□□□ 090-11	
	215	63	2.7	13.216	GKR05 - 2M□□□ 090-11	
	195 207	70 66	1.0 2.7	14.603 13.719	GKR04 - 2M□□□ 090-11 GKR05 - 2M□□□ 090-11	
	189	72	2.5	15.008	GKR05 - 2M□□□ 090-11	
	183 169	75 81	1.0 2.4	15.556 16.857	GKR04 - 2M□□□ 090-11 GKR05 - 2M□□□ 090-11	
	159 148	86 92	0.8 2.1	17.889 19.143	GKR04 - 2M□□□ 090-11 GKR05 - 2M□□□ 090-11	
	138	99	2.0	20.650	GKR05 - 2M□□□ 090-11	
	121	112	1.7	23.450	GKR05 - 2M□□□ 090-11	
	106	129	1.7	26.878	GKR05 - 2M□□□ 090-11	
	102	134	3.1	27.903	GKR06 - 2M□□□ 090-11	
	93	146	1.5	30.522	GKR05 - 2M□□□ 090-11	
	90	151	2.7	31.481	GKR06 - 2M□□□ 090-11	
	85 82	160 166	1.4 2.5	33.433 34.708	GKR05 - 2M□□□ 090-11 GKR06 - 2M□□□ 090-11	
	75 70	182 195	1.2 2.3	37.967 40.741	GKR05 - 2M□□□ 090-11 GKR06 - 2M□□□ 090-11	
	63	215	2.1	44.917	GKR06 - 2M□□□ 090-11	
	57	237	1.9	49.444	GKR06 - 2M□□□ 090-11	
	52	261	1.7	54.513	GKR06 - 2M□□□ 090-11	
n1=1390	390	35	3.9	3.565	GKR05 - 2M□□□ 090C32	
	268 284	51 48	1.4 3.1	5.185 4.889	GKR04 - 2M□□□ 090C32 GKR05 - 2M□□□ 090C32	
	233	58	1.2	5.963	GKR04 - 2M□□□ 090C32	
	222	61	2.5	6.257	GKR05 - 2M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GKR □□ - 2M**	5-30
n1=1390	196	70	1.1	7.111	GKR04 - 2M□□□ 090C32	
	202	67	2.7	6.883	GKR05 - 2M□□□ 090C32	
	170	80	1.0	8.178	GKR04 - 2M□□□ 090C32	
	178	77	2.4	7.817	GKR05 - 2M□□□ 090C32	
	153	89	0.9	9.101	GKR04 - 2M□□□ 090C32	
	147	92	2.1	9.440	GKR05 - 2M□□□ 090C32	
	133	103	0.9	10.466	GKR04 - 2M□□□ 090C32	
	130	105	1.9	10.720	GKR05 - 2M□□□ 090C32	
	121	112	0.8	11.449	GKR04 - 2M□□□ 090C32	
	115	118	1.8	12.081	GKR05 - 2M□□□ 090C32	
	105	129	1.7	13.216	GKR05 - 2M□□□ 090C32	
	101	134	1.6	13.719	GKR05 - 2M□□□ 090C32	
	101	134	3.2	13.720	GKR06 - 2M□□□ 090C32	
	93	147	1.5	15.008	GKR05 - 2M□□□ 090C32	
	83	165	1.5	16.857	GKR05 - 2M□□□ 090C32	
	88	155	2.9	15.873	GKR06 - 2M□□□ 090C32	
	73	187	1.3	19.143	GKR05 - 2M□□□ 090C32	
	79	171	2.6	17.500	GKR06 - 2M□□□ 090C32	
	67	202	1.2	20.650	GKR05 - 2M□□□ 090C32	
	72	190	2.4	19.444	GKR06 - 2M□□□ 090C32	
	59	230	1.0	23.450	GKR05 - 2M□□□ 090C32	
	65	210	2.1	21.438	GKR06 - 2M□□□ 090C32	
	52	263	0.9	26.878	GKR05 - 2M□□□ 090C32	
	55	248	1.8	25.309	GKR06 - 2M□□□ 090C32	
	50	273	1.6	27.903	GKR06 - 2M□□□ 090C32	
	46	299	0.8	30.522	GKR05 - 2M□□□ 090C32	
	44	308	1.5	31.481	GKR06 - 2M□□□ 090C32	
	40	340	1.3	34.708	GKR06 - 2M□□□ 090C32	
	34	399	1.1	40.741	GKR06 - 2M□□□ 090C32	
	31	440	1.0	44.917	GKR06 - 2M□□□ 090C32	
	28	484	0.9	49.444	GKR06 - 2M□□□ 090C32	
	26	534	0.8	54.513	GKR06 - 2M□□□ 090C32	
2.2 kW					**GKR □□ - 2M**	5-30
n1=2840	797	25	4.4	3.565	GKR05 - 2M□□□ 090-31	
	548	36	1.5	5.185	GKR04 - 2M□□□ 090-31	
	476	42	1.4	5.963	GKR04 - 2M□□□ 090-31	
	454	44	2.9	6.257	GKR05 - 2M□□□ 090-31	
	399	50	1.3	7.111	GKR04 - 2M□□□ 090-31	
	413	48	3.0	6.883	GKR05 - 2M□□□ 090-31	
	347	58	1.1	8.178	GKR04 - 2M□□□ 090-31	
	363	55	2.8	7.817	GKR05 - 2M□□□ 090-31	
	312	64	1.1	9.101	GKR04 - 2M□□□ 090-31	
	301	66	2.3	9.440	GKR05 - 2M□□□ 090-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GKR □□ - 2M**	**5-30**
n1=2840	271	74	1.0	10.466	GKR04 - 2M□□□ 090-31	
	265	75	2.2	10.720	GKR05 - 2M□□□ 090-31	
	248	81	0.9	11.449	GKR04 - 2M□□□ 090-31	
	224	89	0.8	12.698	GKR04 - 2M□□□ 090-31	
	235	85	2.0	12.081	GKR05 - 2M□□□ 090-31	
	215	93	1.9	13.216	GKR05 - 2M□□□ 090-31	
	207	96	1.8	13.719	GKR05 - 2M□□□ 090-31	
	189	106	1.7	15.008	GKR05 - 2M□□□ 090-31	
	169	119	1.6	16.857	GKR05 - 2M□□□ 090-31	
	148	135	1.4	19.143	GKR05 - 2M□□□ 090-31	
	162	123	3.0	17.500	GKR06 - 2M□□□ 090-31	
	138	145	1.3	20.650	GKR05 - 2M□□□ 090-31	
	146	137	2.7	19.444	GKR06 - 2M□□□ 090-31	
	121	165	1.2	23.450	GKR05 - 2M□□□ 090-31	
	133	151	2.4	21.438	GKR06 - 2M□□□ 090-31	
	106	189	1.2	26.878	GKR05 - 2M□□□ 090-31	
	112	178	2.3	25.309	GKR06 - 2M□□□ 090-31	
	102	196	2.1	27.903	GKR06 - 2M□□□ 090-31	
	93	215	1.0	30.522	GKR05 - 2M□□□ 090-31	
	90	221	1.9	31.481	GKR06 - 2M□□□ 090-31	
	85	235	0.9	33.433	GKR05 - 2M□□□ 090-31	
	82	244	1.7	34.708	GKR06 - 2M□□□ 090-31	
	75	267	0.8	37.967	GKR05 - 2M□□□ 090-31	
	70	286	1.6	40.741	GKR06 - 2M□□□ 090-31	
	63	316	1.4	44.917	GKR06 - 2M□□□ 090-31	
	57	348	1.3	49.444	GKR06 - 2M□□□ 090-31	
	52	383	1.2	54.513	GKR06 - 2M□□□ 090-31	
n1=1440	404	49	2.8	3.565	GKR05 - 2M□□□ 100C12	
	295	68	2.2	4.889	GKR05 - 2M□□□ 100C12	
	230	87	1.8	6.257	GKR05 - 2M□□□ 100C12	
	209	95	1.9	6.883	GKR05 - 2M□□□ 100C12	
	184	108	1.7	7.817	GKR05 - 2M□□□ 100C12	
	153	131	1.5	9.440	GKR05 - 2M□□□ 100C12	
	134	149	1.4	10.720	GKR05 - 2M□□□ 100C12	
	147	136	2.8	9.800	GKR06 - 2M□□□ 100C12	
	127	158	2.8	11.376	GKR06 - 2M□□□ 100C12	
	119	167	1.2	12.081	GKR05 - 2M□□□ 100C12	
	116	173	2.6	12.444	GKR06 - 2M□□□ 100C12	
	109	183	1.2	13.216	GKR05 - 2M□□□ 100C12	
	105	190	1.1	13.719	GKR05 - 2M□□□ 100C12	
	105	190	2.2	13.720	GKR06 - 2M□□□ 100C12	
	96	208	1.1	15.008	GKR05 - 2M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GKR □□ - 2M**	5-30
n1=1440	85	234	1.0	16.857	GKR05 - 2M□□□ 100C12	
	91	220	2.0	15.873	GKR06 - 2M□□□ 100C12	
	75	265	0.9	19.143	GKR05 - 2M□□□ 100C12	
	82	243	1.9	17.500	GKR06 - 2M□□□ 100C12	
	70	286	0.8	20.650	GKR05 - 2M□□□ 100C12	
	74	270	1.7	19.444	GKR06 - 2M□□□ 100C12	
	67	297	1.5	21.438	GKR06 - 2M□□□ 100C12	
	57	351	1.3	25.309	GKR06 - 2M□□□ 100C12	
	52	387	1.2	27.903	GKR06 - 2M□□□ 100C12	
	46	436	1.0	31.481	GKR06 - 2M□□□ 100C12	
	42	481	0.9	34.708	GKR06 - 2M□□□ 100C12	
3 kW					**GKR □□ - 2M**	5-30
n1=2850	800	34	3.3	3.565	GKR05 - 2M□□□ 100-31	
	583	47	2.5	4.889	GKR05 - 2M□□□ 100-31	
	456	60	2.1	6.257	GKR05 - 2M□□□ 100-31	
	414	66	2.2	6.883	GKR05 - 2M□□□ 100-31	
	365	75	2.0	7.817	GKR05 - 2M□□□ 100-31	
	302	90	1.7	9.440	GKR05 - 2M□□□ 100-31	
	266	102	1.6	10.720	GKR05 - 2M□□□ 100-31	
	251	109	3.2	11.376	GKR06 - 2M□□□ 100-31	
	236	115	1.5	12.081	GKR05 - 2M□□□ 100-31	
	229	119	3.1	12.444	GKR06 - 2M□□□ 100-31	
	216	126	1.4	13.216	GKR05 - 2M□□□ 100-31	
	208	131	1.3	13.719	GKR05 - 2M□□□ 100-31	
	208	131	2.6	13.720	GKR06 - 2M□□□ 100-31	
	190	143	1.3	15.008	GKR05 - 2M□□□ 100-31	
	169	161	1.2	16.857	GKR05 - 2M□□□ 100-31	
	180	152	2.4	15.873	GKR06 - 2M□□□ 100-31	
	149	183	1.1	19.143	GKR05 - 2M□□□ 100-31	
	163	167	2.2	17.500	GKR06 - 2M□□□ 100-31	
	138	197	1.0	20.650	GKR05 - 2M□□□ 100-31	
	147	186	2.0	19.444	GKR06 - 2M□□□ 100-31	
	122	224	0.9	23.450	GKR05 - 2M□□□ 100-31	
	133	205	1.8	21.438	GKR06 - 2M□□□ 100-31	
	113	242	1.7	25.309	GKR06 - 2M□□□ 100-31	
	102	267	1.5	27.903	GKR06 - 2M□□□ 100-31	
	91	301	1.4	31.481	GKR06 - 2M□□□ 100-31	
	82	332	1.2	34.708	GKR06 - 2M□□□ 100-31	
n1=1430	401	68	2.0	3.565	GKR05 - 2M□□□ 100C32	
	417	65	3.1	3.431	GKR06 - 2M□□□ 100C32	
	293	93	1.6	4.889	GKR05 - 2M□□□ 100C32	
	304	90	2.8	4.706	GKR06 - 2M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GKR □□ - 2M**	**5-30**
n1=1430	229	119	1.3	6.257	GKR05 - 2M□□□ 100C32	
	237	115	2.4	6.022	GKR06 - 2M□□□ 100C32	
	221	123	2.8	6.481	GKR06 - 2M□□□ 100C32	
	208	131	1.4	6.883	GKR05 - 2M□□□ 100C32	
	200	136	2.6	7.146	GKR06 - 2M□□□ 100C32	
	183	149	1.3	7.817	GKR05 - 2M□□□ 100C32	
	152	180	1.1	9.440	GKR05 - 2M□□□ 100C32	
	161	169	2.4	8.889	GKR06 - 2M□□□ 100C32	
	133	204	1.0	10.720	GKR05 - 2M□□□ 100C32	
	146	187	2.1	9.800	GKR06 - 2M□□□ 100C32	
	126	217	2.0	11.376	GKR06 - 2M□□□ 100C32	
	118	230	0.9	12.081	GKR05 - 2M□□□ 100C32	
	115	237	1.9	12.444	GKR06 - 2M□□□ 100C32	
	108	252	0.9	13.216	GKR05 - 2M□□□ 100C32	
	104	261	0.8	13.719	GKR05 - 2M□□□ 100C32	
	104	261	1.6	13.720	GKR06 - 2M□□□ 100C32	
	90	302	1.5	15.873	GKR06 - 2M□□□ 100C32	
	82	333	1.4	17.500	GKR06 - 2M□□□ 100C32	
	74	370	1.2	19.444	GKR06 - 2M□□□ 100C32	
	67	408	1.1	21.438	GKR06 - 2M□□□ 100C32	
	57	482	0.9	25.309	GKR06 - 2M□□□ 100C32	
	51	531	0.8	27.903	GKR06 - 2M□□□ 100C32	
4 kW					**GKR □□ - 2M**	**5-30**
n1=2830	794	46	2.4	3.565	GKR05 - 2M□□□ 100-41	
	579	63	1.9	4.889	GKR05 - 2M□□□ 100-41	
	452	80	1.6	6.257	GKR05 - 2M□□□ 100-41	
	470	77	2.9	6.022	GKR06 - 2M□□□ 100-41	
	411	88	1.6	6.883	GKR05 - 2M□□□ 100-41	
	396	92	3.1	7.146	GKR06 - 2M□□□ 100-41	
	362	100	1.5	7.817	GKR05 - 2M□□□ 100-41	
	300	121	1.3	9.440	GKR05 - 2M□□□ 100-41	
	318	114	2.9	8.889	GKR06 - 2M□□□ 100-41	
	264	138	1.2	10.720	GKR05 - 2M□□□ 100-41	
	289	126	2.5	9.800	GKR06 - 2M□□□ 100-41	
	249	146	2.4	11.376	GKR06 - 2M□□□ 100-41	
	234	155	1.1	12.081	GKR05 - 2M□□□ 100-41	
	227	160	2.3	12.444	GKR06 - 2M□□□ 100-41	
	214	170	1.0	13.216	GKR05 - 2M□□□ 100-41	
	206	176	1.0	13.719	GKR05 - 2M□□□ 100-41	
	206	176	2.0	13.720	GKR06 - 2M□□□ 100-41	
	189	192	0.9	15.008	GKR05 - 2M□□□ 100-41	
	168	216	0.9	16.857	GKR05 - 2M□□□ 100-41	
	178	204	1.8	15.873	GKR06 - 2M□□□ 100-41	
	162	224	1.6	17.500	GKR06 - 2M□□□ 100-41	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GKR □□ - 2M**	5-30
n1=2830	146	249	1.5	19.444	GKR06 - 2M□□□ 100-41	
	132	275	1.3	21.438	GKR06 - 2M□□□ 100-41	
	112	325	1.3	25.309	GKR06 - 2M□□□ 100-41	
	101	358	1.2	27.903	GKR06 - 2M□□□ 100-41	
	90	404	1.0	31.481	GKR06 - 2M□□□ 100-41	
	82	445	0.9	34.708	GKR06 - 2M□□□ 100-41	
n1=1450	423	86	2.3	3.431	GKR06 - 2M□□□ 112C22	
	308	118	2.1	4.706	GKR06 - 2M□□□ 112C22	
	241	151	1.9	6.022	GKR06 - 2M□□□ 112C22	
	224	162	2.2	6.481	GKR06 - 2M□□□ 112C22	
	203	179	1.9	7.146	GKR06 - 2M□□□ 112C22	
	163	223	1.8	8.889	GKR06 - 2M□□□ 112C22	
	148	245	1.6	9.800	GKR06 - 2M□□□ 112C22	
	128	285	1.5	11.376	GKR06 - 2M□□□ 112C22	
	117	311	1.4	12.444	GKR06 - 2M□□□ 112C22	
	106	343	1.2	13.720	GKR06 - 2M□□□ 112C22	
	91	397	1.1	15.873	GKR06 - 2M□□□ 112C22	
	83	438	1.0	17.500	GKR06 - 2M□□□ 112C22	
	75	487	0.9	19.444	GKR06 - 2M□□□ 112C22	
	68	537	0.8	21.438	GKR06 - 2M□□□ 112C22	
5.5 kW					**GKR □□ - 2M**	5-30
n1=2890	842	59	2.7	3.431	GKR06 - 2M□□□ 112-31	
	614	81	2.5	4.706	GKR06 - 2M□□□ 112-31	
	480	104	2.2	6.022	GKR06 - 2M□□□ 112-31	
	446	112	2.5	6.481	GKR06 - 2M□□□ 112-31	
	404	123	2.3	7.146	GKR06 - 2M□□□ 112-31	
	325	154	2.1	8.889	GKR06 - 2M□□□ 112-31	
	295	169	1.8	9.800	GKR06 - 2M□□□ 112-31	
	254	196	1.8	11.376	GKR06 - 2M□□□ 112-31	
	232	215	1.7	12.444	GKR06 - 2M□□□ 112-31	
	211	237	1.4	13.720	GKR06 - 2M□□□ 112-31	
	182	274	1.3	15.873	GKR06 - 2M□□□ 112-31	
	165	302	1.2	17.500	GKR06 - 2M□□□ 112-31	
	149	336	1.1	19.444	GKR06 - 2M□□□ 112-31	
	135	370	1.0	21.438	GKR06 - 2M□□□ 112-31	
n1=1445	421	119	1.7	3.431	GKR06 - 2M□□□ 112C32	
	307	163	1.5	4.706	GKR06 - 2M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GKR □□ - 2M**	**5-30**
n1=1445	240	208	1.3	6.022	GKR06 - 2M□□□ 112C32	
	223	224	1.6	6.481	GKR06 - 2M□□□ 112C32	
	202	247	1.4	7.146	GKR06 - 2M□□□ 112C32	
	163	307	1.3	8.889	GKR06 - 2M□□□ 112C32	
	147	338	1.1	9.800	GKR06 - 2M□□□ 112C32	
	127	393	1.1	11.376	GKR06 - 2M□□□ 112C32	
	116	430	1.0	12.444	GKR06 - 2M□□□ 112C32	
	105	474	0.9	13.720	GKR06 - 2M□□□ 112C32	
	91	548	0.8	15.873	GKR06 - 2M□□□ 112C32	
7.5 kW					**GKR □□ - 2M**	**5-30**
n1=2900	845	81	2.0	3.431	GKR06 - 2M□□□ 112-41	
	616	110	1.8	4.706	GKR06 - 2M□□□ 112-41	
	482	141	1.6	6.022	GKR06 - 2M□□□ 112-41	
	447	152	1.8	6.481	GKR06 - 2M□□□ 112-41	
	406	168	1.7	7.146	GKR06 - 2M□□□ 112-41	
	326	209	1.6	8.889	GKR06 - 2M□□□ 112-41	
	296	230	1.3	9.800	GKR06 - 2M□□□ 112-41	
	255	267	1.3	11.376	GKR06 - 2M□□□ 112-41	
	233	292	1.2	12.444	GKR06 - 2M□□□ 112-41	
	211	322	1.1	13.720	GKR06 - 2M□□□ 112-41	
	183	372	1.0	15.873	GKR06 - 2M□□□ 112-41	
	166	411	0.9	17.500	GKR06 - 2M□□□ 112-41	

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 45$ Nm

GKR 03 - 2 N				Dimensions page 5-42
n_1		2800 min^{-1}	1400 min^{-1}	700 min^{-1}
IEC connection		63	63	63
For the geometrical assignment of servo/DC motors see section 2				
Drive size		1A	1A	1A
i	P_{1perm} [kW] M_{2perm} [Nm]			
5.411	P_1 M_2	1.82 32	1.12 39	0.56 39
6.222	P_1 M_2	1.63 33	1.00 40	0.50 40
7.111	P_1 M_2	1.52 35	0.93 43	0.47 43
8.178	P_1 M_2	1.36 36	0.84 44	0.42 44
9.101	P_1 M_2	1.24 37	0.76 45	0.38 45
10.466	P_1 M_2	1.08 37	0.66 45	0.33 45
11.640	P_1 M_2	0.97 37	0.60 45	0.30 45
13.386	P_1 M_2	0.84 37	0.52 45	0.26 45
15.111	P_1 M_2	0.75 37	0.46 45	0.23 45
17.378	P_1 M_2	0.65 37	0.40 45	0.20 45
19.365	P_1 M_2	0.58 37	0.36 45	0.18 45
22.270	P_1 M_2	0.51 37	0.31 45	0.16 45
25.051	P_1 M_2	0.51 42	0.28 45	0.14 45
28.808	P_1 M_2	0.45 42	0.24 45	0.12 45
32.593	P_1 M_2	0.39 42	0.21 45	0.11 45
37.481	P_1 M_2	0.34 42	0.19 45	0.09 45
42.222	P_1 M_2	0.33 45	0.16 45	0.08 45
48.556	P_1 M_2	0.29 45	0.14 45	0.07 45
53.889	P_1 M_2	0.26 45	0.13 45	0.06 45
61.972	P_1 M_2	0.22 45	0.11 45	0.06 45

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 90$ Nm

GKR 04 - 2 N

Dimensions page 5-42

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**1A**	**□B**	**□C**	**1A**	**□B**	**□C**	**1A**	**□B**	**□C**
i	P_{1perm} [kW] M_{2perm} [Nm]									
5.185	P_1 M_2		2.23 38	3.04 51		1.37 46	1.87 63		0.73 49	1.02 69
5.963	P_1 M_2		2.23 43	3.03 59		1.37 53	1.87 72		0.73 56	0.93 72
7.111	P_1 M_2		2.23 51	2.73 63		1.37 63	1.68 77		0.73 67	0.84 77
8.178	P_1 M_2		2.23 59	2.49 66		1.37 73	1.53 81		0.73 77	0.77 81
9.101	P_1 M_2		2.23 66	2.33 69		1.37 81	1.43 84		0.72 84	0.72 84
10.466	P_1 M_2		2.12 72	2.12 72		1.31 89	1.31 89		0.65 89	0.65 89
11.449	P_1 M_2	1.03 38	1.97 73	1.97 73	0.64 47	1.21 90	1.21 90	0.32 47	0.61 90	0.61 90
12.698	P_1 M_2	0.96 39	1.78 73	1.78 73	0.59 49	1.09 90	1.09 90	0.30 49	0.55 90	0.55 90
14.603	P_1 M_2	0.96 45	1.55 73	1.55 73	0.59 56	0.95 90	0.95 90	0.30 56	0.48 90	0.48 90
15.556	P_1 M_2		1.45 73	1.45 73		0.89 90	0.89 90		0.45 90	0.45 90
17.889	P_1 M_2		1.26 73	1.26 73		0.78 90	0.78 90		0.39 90	0.39 90
19.556	P_1 M_2	1.05 67	1.15 73	1.15 73	0.65 82	0.71 90	0.71 90	0.32 82	0.36 90	0.36 90
22.489	P_1 M_2	1.00 73	1.00 73	1.00 73	0.62 90	0.62 90	0.62 90	0.31 90	0.31 90	0.31 90
25.185	P_1 M_2	1.00 81	1.02 83	1.02 83	0.54 88	0.55 90	0.55 90	0.27 88	0.28 90	0.28 90
28.963	P_1 M_2	0.89 83	0.89 83	0.89 83	0.48 90	0.48 90	0.48 90	0.24 90	0.24 90	0.24 90
31.919	P_1 M_2	0.80 83	0.80 83		0.44 90	0.44 90		0.22 90	0.22 90	
36.707	P_1 M_2	0.70 83	0.70 83		0.38 90	0.38 90		0.19 90	0.19 90	
40.000	P_1 M_2	0.64 83	0.64 83		0.35 90	0.35 90		0.17 90	0.17 90	
46.000	P_1 M_2	0.60 90	0.60 90		0.30 90	0.30 90		0.15 90	0.15 90	
52.698	P_1 M_2	0.40 69			0.20 69			0.10 69		
60.603	P_1 M_2	0.40 79			0.20 79			0.10 79		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 240$ Nm

GKR 05 - 2 N

Dimensions page 5-42

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
3.565	P_1 M_2			3.75 43	9.22 107			2.31 53	5.68 131			1.54 71	2.84 131
4.889	P_1 M_2			3.75 59	7.52 119			2.31 73	4.63 147			1.54 98	2.32 147
6.257	P_1 M_2		3.04 62	3.75 76	6.24 126		1.87 76	2.31 94	3.84 156		1.25 101	1.54 125	1.92 156
6.883	P_1 M_2			3.75 84	6.53 146			2.31 103	4.02 179			1.54 137	2.01 179
7.817	P_1 M_2			3.75 95	6.00 152			2.31 117	3.69 187			1.54 156	1.85 187
9.440	P_1 M_2			3.75 115	5.07 155			2.31 141	3.12 191			1.54 188	1.56 191
10.720	P_1 M_2			3.75 130	4.76 165			2.31 160	2.93 204			1.47 204	1.47 204
12.081	P_1 M_2		3.04 119	3.75 147	4.32 169		1.87 146	2.31 181	2.66 208		1.25 195	1.33 208	1.33 208
13.216	P_1 M_2	2.23 96	3.04 130	3.75 161	4.06 174	1.37 118	1.87 160	2.31 198	2.50 214	0.73 124	1.25 213	1.25 214	1.25 214
13.719	P_1 M_2		3.04 135	3.75 167	3.96 176		1.87 166	2.31 205	2.44 217		1.22 217	1.22 217	1.22 217
15.008	P_1 M_2	2.23 109	3.04 148	3.73 181	3.73 181	1.37 134	1.87 182	2.30 223	2.30 223	0.73 141	1.15 223	1.15 223	1.15 223
16.857	P_1 M_2	2.23 122	3.04 166	3.57 195	3.57 195	1.37 150	1.87 204	2.20 240	2.20 240	0.77 169	1.10 240	1.10 240	1.10 240
19.143	P_1 M_2	2.23 138	3.04 188	3.14 195	3.14 195	1.37 170	1.87 232	1.94 240	1.94 240	0.77 192	0.97 240	0.97 240	0.97 240
20.650	P_1 M_2		2.91 195	2.91 195	2.91 195		1.79 240	1.79 240	1.79 240		0.90 240	0.90 240	0.90 240
23.450	P_1 M_2		2.57 195	2.57 195	2.57 195		1.58 240	1.58 240	1.58 240		0.79 240	0.79 240	0.79 240
26.878	P_1 M_2	1.97 171	2.54 221	2.54 221		1.07 186	1.38 240	1.38 240		0.53 186	0.69 240	0.69 240	
30.522	P_1 M_2	1.97 195	2.24 221	2.24 221		1.07 211	1.21 240	1.21 240		0.53 211	0.61 240	0.61 240	
33.433	P_1 M_2	1.65 178	2.04 221	2.04 221		0.89 193	1.11 240	1.11 240		0.45 193	0.55 240	0.55 240	
37.967	P_1 M_2	1.65 203	1.80 221	1.80 221		0.89 219	0.98 240	0.98 240		0.45 219	0.49 240	0.49 240	
43.267	P_1 M_2	1.43 201	1.71 240			0.72 201	0.86 240			0.36 201	0.43 240		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 240$ Nm

GKR 05 - 2 N													Dimensions page 5-42
n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		1B	□C	□D	□E	1B	□C	□D	□E	1B	□C	□D	□E
i	P_{1perm} [kW] M_{2perm} [Nm]												
49.133	P_1 M_2	1.43 228	1.51 240			0.72 228	0.75 240			0.36 228	0.38 240		
52.510	P_1 M_2	1.20 203	1.41 240			0.60 203	0.71 240			0.30 203	0.35 240		
59.630	P_1 M_2	1.20 231	1.24 240			0.60 231	0.62 240			0.30 231	0.31 240		
67.113	P_1 M_2	0.82 178				0.41 178				0.21 178			
76.213	P_1 M_2	0.82 202				0.41 202				0.21 202			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 450$ Nm

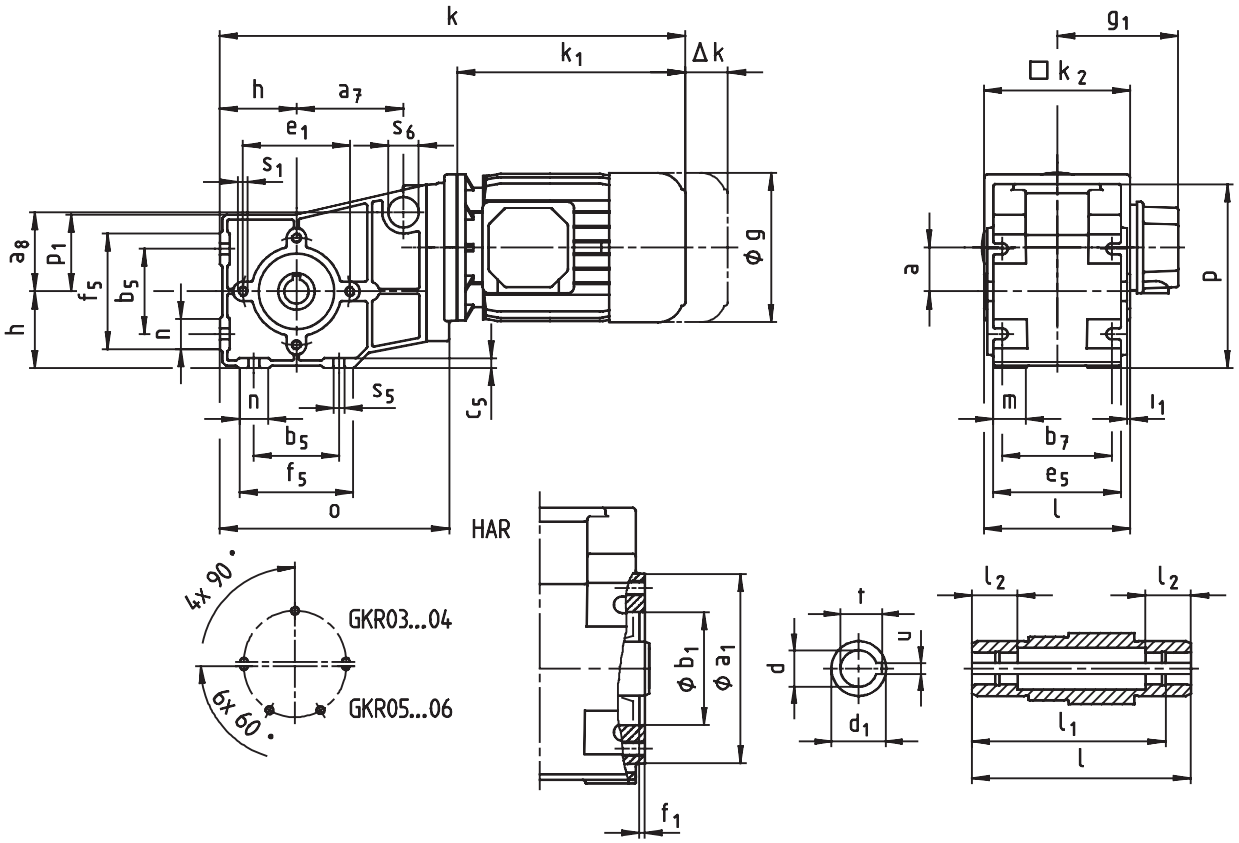
GKR 06 - 2 N

Dimensions page 5-42

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
3.431	P_1 M_2				10.7 119	10.7 119				6.60 147	6.60 147				4.40 196	4.40 196
4.706	P_1 M_2				10.7 163	10.7 163				6.60 201	6.60 201				4.10 250	4.10 250
6.022	P_1 M_2			3.75 73	10.7 209	10.7 209			2.31 90	6.60 257	6.60 257			1.54 120	3.59 280	3.59 280
6.481	P_1 M_2				10.7 225	10.7 225				6.60 277	6.60 277				4.17 350	4.17 350
7.146	P_1 M_2				10.7 248	10.7 248				6.60 305	6.60 305				3.76 348	3.76 348
8.889	P_1 M_2				10.7 309	10.7 309				6.60 380	6.60 380				3.54 408	3.54 408
9.800	P_1 M_2				9.83 312	9.83 312				6.05 384	6.05 384				3.02 384	3.02 384
11.376	P_1 M_2			3.75 138	9.60 354	9.60 354			2.31 170	5.91 436	5.91 436			1.54 227	2.95 436	2.95 436
12.444	P_1 M_2			3.75 151	9.06 365	9.06 365			2.31 186	5.58 450	5.58 450			1.54 248	2.79 450	2.79 450
13.720	P_1 M_2			3.75 167	7.79 346	7.79 346			2.31 205	4.79 426	4.79 426			1.54 274	2.40 426	2.40 426
15.873	P_1 M_2		3.04 156	3.75 193	7.11 365	7.11 365		1.87 192	2.31 238	4.38 450	4.38 450		1.25 256	1.54 317	2.19 450	2.19 450
17.500	P_1 M_2		3.04 172	3.75 213	6.45 365	6.45 365		1.87 212	2.31 262	3.97 450	3.97 450		1.25 283	1.54 349	1.98 450	1.98 450
19.444	P_1 M_2			3.75 236	5.80 365	5.80 365			2.31 291	3.57 450	3.57 450			1.54 388	1.79 450	1.79 450
21.438	P_1 M_2			3.75 261	5.26 365	5.26 365			2.31 321	3.24 450	3.24 450			1.54 428	1.62 450	1.62 450
25.309	P_1 M_2		3.45 283	4.26 349	5.06 415			1.87 307	2.31 379	2.74 450			1.02 335	1.36 447	1.37 450	
27.903	P_1 M_2		3.45 312	4.26 385	4.59 415			1.87 338	2.31 418	2.49 450			1.02 370	1.24 450	1.24 450	
31.481	P_1 M_2		3.16 322	4.07 415	4.07 415			1.71 349	2.21 450	2.21 450			0.86 349	1.10 450	1.10 450	
34.708	P_1 M_2		3.16 355	3.69 415	3.69 415			1.71 385	2.00 450	2.00 450			0.86 385	1.00 450	1.00 450	
40.741	P_1 M_2	1.76 233	2.75 362	3.41 450			0.88 233	1.37 362	1.70 450			0.44 233	0.69 362	0.85 450		
44.917	P_1 M_2	1.76 257	2.75 400	3.09 450			0.88 257	1.37 400	1.55 450			0.44 257	0.69 400	0.77 450		
49.444	P_1 M_2	1.47 236	2.29 367	2.81 450			0.74 236	1.15 367	1.40 450			0.37 236	0.57 367	0.70 450		
54.513	P_1 M_2	1.47 260	2.29 405	2.55 450			0.74 260	1.15 405	1.27 450			0.37 260	0.57 405	0.64 450		
62.500	P_1 M_2	1.18 239	1.84 372				0.59 239	0.92 372				0.30 239	0.46 372			
68.906	P_1 M_2	1.18 263	1.84 410				0.59 263	0.92 410				0.30 263	0.46 410			

Thermal power limit not considered (see page 2-4)

GKR □□ - 2 M H□R


k
k1
Δk
h
a7
e1
s6
s1
a8
p1
f5
b5
n
h
n
s5
c5
b5
f5
o
g1
□ k2
a
p
m
l1
b7
e5
l
HAR
4x 90°
6x 60°
GKR03...04
GKR05...06
ϕ b1
ϕ a1
f1
t
u
d
d1
l2
l2
l1
l

Geared motor **GKR □□ - 2 M H□R**			Motor frame size							
			063C02 063C22	**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**
Motor	g		123		138	156	176	196	220	
	g_1	Without option	100		109	141	146	157	167	
		Brake motor	107		116	130	135	146	156	
	k_1		156	188	207	225	276	309	319	363
	k_2	From gearbox size 04	100	120	120	145	180	180	222	
	Δk **	Brake	71	40	52	73	70	79	90	
		Separate fan	–	130	128	128	127	109	102	
		Separate fan + brake	–	170	165	184	180	170	183	

Gearbox size	Gearbox						Total length							
	l*	**p***	**p_1**	**a**	**h**	**o**	**k**							
03	100	117	48	29	50	142	301	332	353					
04	120	151	63	36	63	189		383	403	425	486			
05	143	181	82	40	80	251		437	456	479	540	573		
06	170	226	100	51	100	307		488	508	530	591	625	641	685

Gearbox size	Hollow shaft							Pitch circle					
	d 2) H7	**l**	**d_1**	**l_1**	**l_2**	**u** JS9	**t 1)** +0.1	**a_1**	**b_1** J7	**e_1**	**f_1**	**i_1**	**s_1**
03	18 20	100	30	86	22	6	20.8 22.8	85	55	70	2.5	2.5	M6x12
04	20 25	120	30 35	106	25	6 8	22.8 27.0	104	62	88	3	2.5	M8x16
05	30 35	143	50	128.5	25	8 10	33.3 38.3	116	80	100	4	4	M8x15
06	40 45	170	65	152	30	12 14	43.3 48.8	140	100	120	4	5	M10x22

Gearbox size	Foot								Torque plate		
	b_5	**b_7**	**c_5**	**e_5**	**f_5**	**n**	**m**	**s_5**	**a_7**	**a_8**	**s_6**
03	60	75	7	90	80	20	22	6.6	66	39	25x12
04	70	90	8	105	95	25	28	9	88	65	25x17
05	100	100	11	115	138	48	27	9	–		
06	120	125	12	145	164	53	32	11	–		

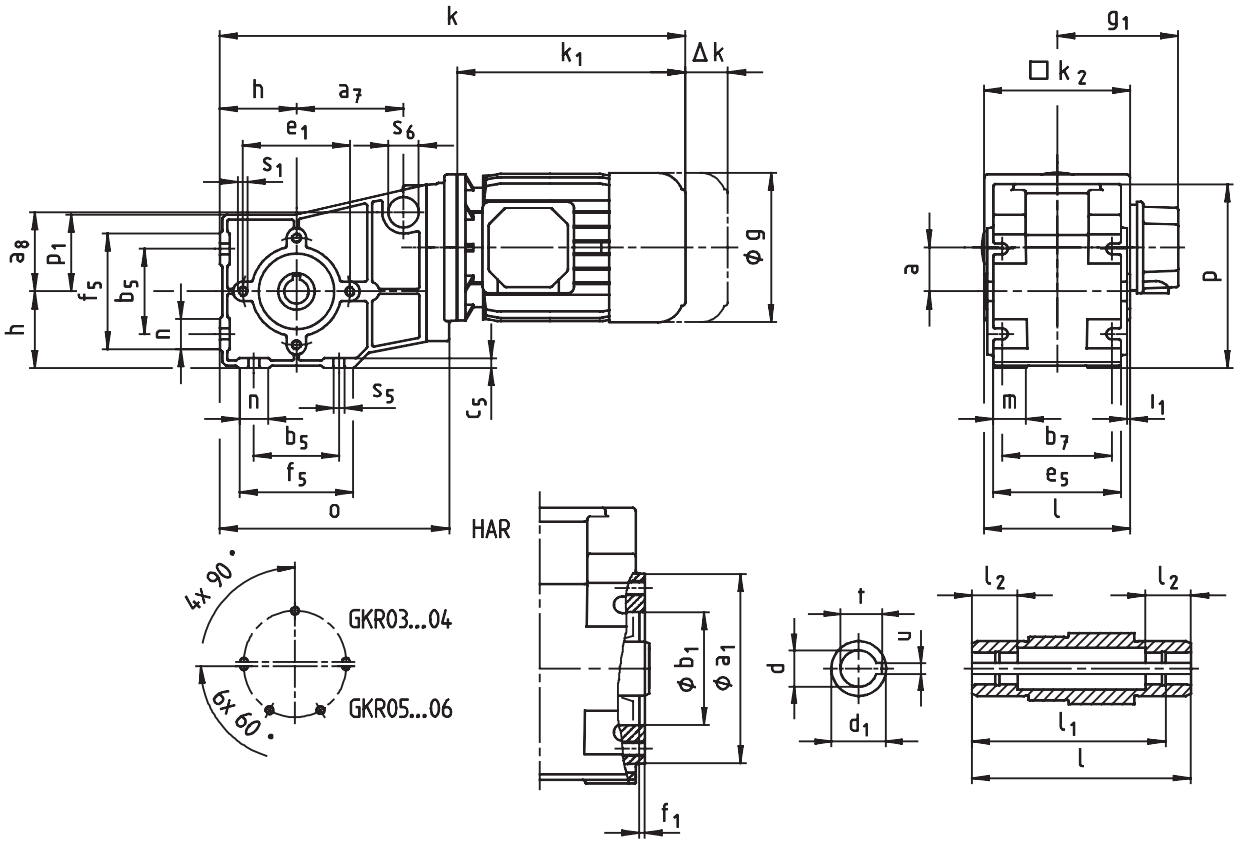
Dimensions in [mm]

* Observe dimension k_2
** For further dimensions see section 8

1) If the hollow shaft diameter d=25mm, use a featherkey to DIN 6885/3
2) Only for the range l_2

5

GKR □□ - 2 M H□R


k
k1
Δk
h
a7
e1
s6
s1
a8
p1
f5
b5
n
h
g1
□ k2
a
p
m
l1
b7
e5
l
n
s5
c5
b5
f5
o
HAR
4x 90°
6x 60°
GKR03...04
GKR05...06
ϕ b1
ϕ a1
f1
t
u
d
d1
l2
l2
l1
l

Geared motor **GKR □□ - 2 M H□R**			Motor frame size							
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**
Motor	**g**		129		142	156	178	194		222
	g_1	Without option	105		131	131	141	158		165
		Brake motor	105		131	131	140	159		165
	k_1		193	204	176	225	242	280	310	323
	k_2		100		145	145	180	180		222
	Δk **	Brake	56		66	68	74	94		101
		Separate fan	71		80	94	101	97		95
		Separate fan + brake	118		134	150	164	169		183

Gearbox size	Gearbox						Total length							
	l*	**p***	**p_1**	**a**	**h**	**o**	**k**							
04	120	151	63	36	63	189	363	374	376	425	453			
05	143	181	82	40	80	251			430	479	506	544	574	
06	170	226	100	51	100	307			481	530	558	596	626	644

Gearbox size	Hollow shaft							Pitch circle					
	d [2] H7	**l**	**d_1**	**l_1**	**l_2**	**u** JS9	**t** [1] +0.1	**a_1**	**b_1** J7	**e_1**	**f_1**	**i_1**	**s_1**
04	20 25	120	30 35	106	25	6 8	22.8 27.0	104	62	88	3	2.5	M8x16
05	30 35	143	50	128.5	25	8 10	33.3 38.3	116	80	100	4	4	M8x15
06	40 45	170	65	152	30	12 14	43.3 48.8	140	100	120	4	5	M10x22

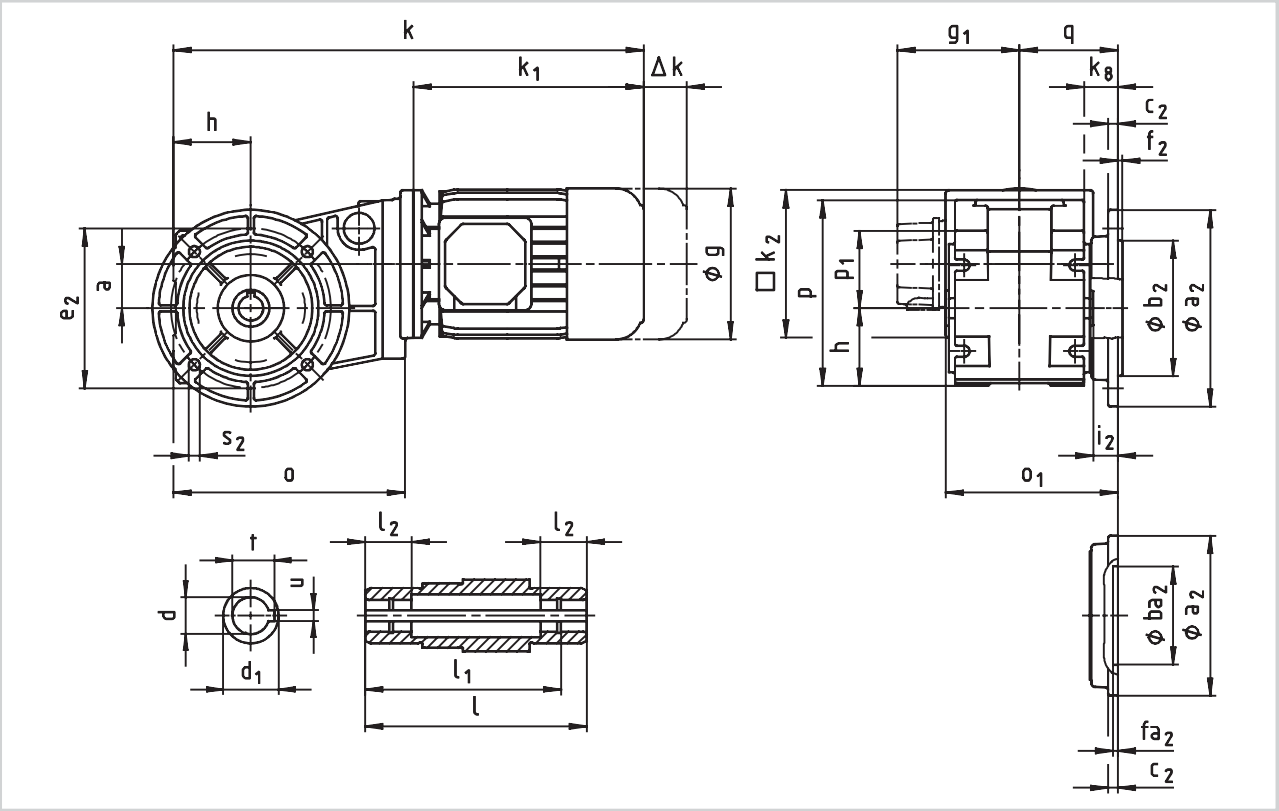
Gearbox size	Foot								Torque plate		
	b_5	**b_7**	**c_5**	**e_5**	**f_5**	**n**	**m**	**s_5**	**a_7**	**a_8**	**s_6**
04	70	90	8	105	95	25	28	9	88	65	25x17
05	100	100	11	115	138	48	27	9	–		
06	120	125	12	145	164	53	32	11	–		

Dimensions in [mm]

* Observe dimension k_2
** For further dimensions see section 8

[1] **If the hollow shaft diameter d=25mm, use a featherkey to DIN 6885/3**
[2] Only for the range l_2

5



Geared motor **GKR □□ - 2 M HAK**			Motor frame size							
			063C02 063C22	063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32
Motor	g		123		138	156	176	196	220	
	g_1	Without option	100		109	141	146	157	167	
		Brake motor	107		116	130	135	146	156	
	k_1		156	188	207	225	276	309	319	363
	k_2	From gearbox size 04	100	120	120	145	180	180	222	
	Δk **	Brake	71	40	52	73	70	79	90	
		Separate fan	–	130	128	128	127	109	102	
		Separate fan + brake	–	170	165	184	180	170	183	

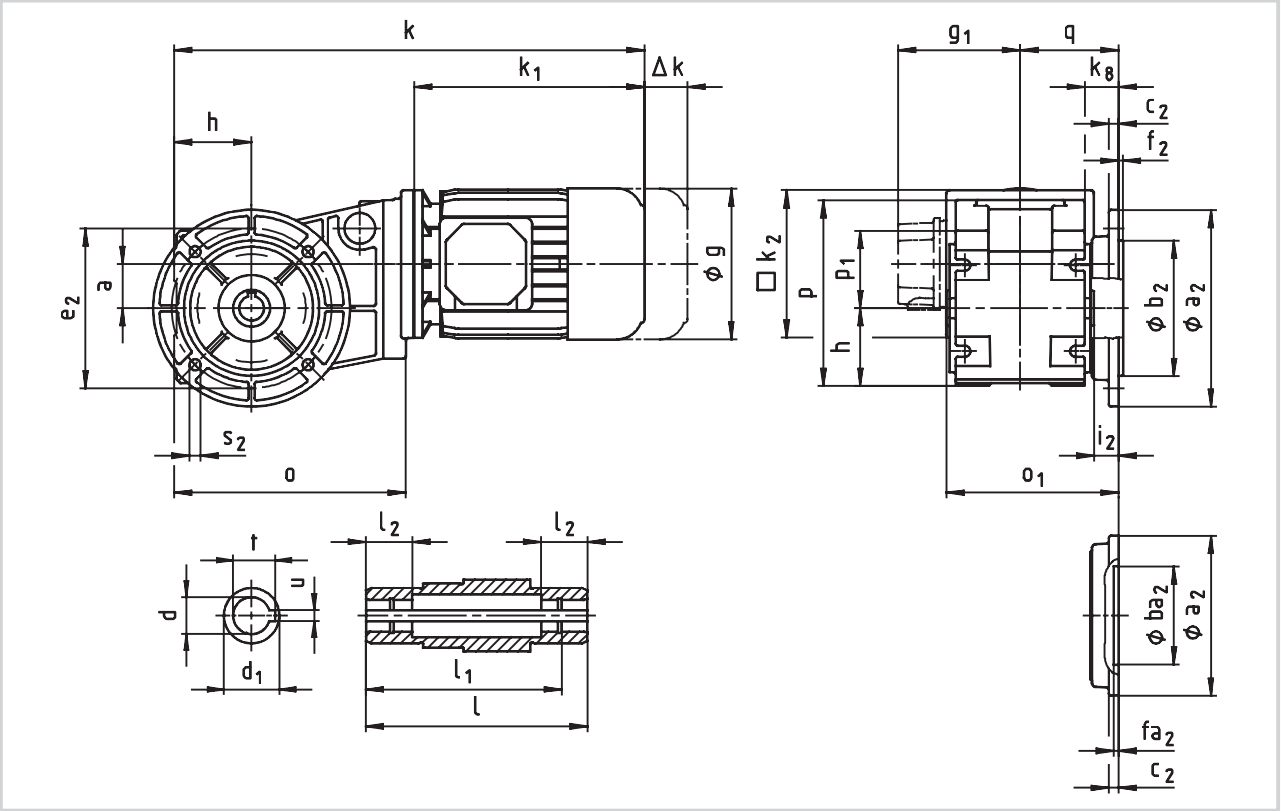
Gearbox size	Gearbox								Total length							
	o_1*	p*	p_1	a	h	k_8	o	q	k							
03	130	117	48	29	50	35	142	80	301	332	353					
04	140	151	63	36	63	28	189	80		383	403	425	486			
05	177	181	82	40	80	47	251	105		437	456	479	540	573		
06	212	226	100	51	100	54	307	126.5		488	508	530	591	625	641	685

Gearbox size	Hollow shaft							Output flange								
	d 2) H7	l	d_1	l_1	l_2	u JS9	t 1) +0.1	a_2	b_2 j7	ba_2 H7	c_2	e_2	f_2	fa_2	i_2	s_2 4x90°
03	18 20	100	30	86	22	6	20.8 22.8	110 120	– 80	60 –	8	87 100	– 3	4 –	30	9 7
04	20 25	120	30 35	106	25	6 8	22.8 27	120 160	80 110	–	8	100 130	3 3.5	–	20	7 9
05	30 35	143	50	128.5	25	8 10	33.3 38.3	160 200	110 130	–	12	130 165	3.5	–	33.5	9 11
06	40 45	170	65	152	30	12 14	43.3 48.8	200 250	130 180	–	12	165 215	3.5 4	–	41.5	11 14

Dimensions in [mm]

* Observe dimension k_2
** For further dimensions see section 8

1) **If the hollow shaft diameter d=25mm, use a featherkey to DIN 6885/3**
2) Only for the range l_2



Geared motor **GKR □□ - 2 M HAK**			Motor frame size							
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41
Motor	g		129		142	156	178	194		222
	g_1	Without option	105		131	131	141	158		165
		Brake motor	105		131	131	140	159		165
	k_1		193	204	176	225	242	280	310	323
	k_2		100		145	145	180	180		222
	Δk **	Brake	56		66	68	74	94		101
		Separate fan	71		80	94	101	97		95
		Separate fan + brake	118		134	150	164	169		183

Gearbox size	Gearbox								Total length							
	o_1*	p*	p_1	a	h	k_8	o	q	k							
04	140	151	63	36	63	28	189	80	363	374	376	425	453			
05	177	181	82	40	80	47	251	105			430	479	506	544	574	
06	212	226	100	51	100	54	307	126.5			481	530	558	596	626	644

Gearbox size	Hollow shaft							Output flange						
	d 2) H7	l	d_1	l_1	l_2	u JS9	t 1) +0.1	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
04	20 25	120	30 35	106	25	6 8	22.8 27.0	120 160	80 110	8	100 130	3 3.5	20	7 9
05	30 35	143	50	128.5	25	8 10	33.3 38.3	160 200	110 130	12	130 165	3.5	33.5	9 11
06	40 45	170	65	152	30	12 14	43.3 48.8	200 250	130 180	12	165 215	3.5 4	41.5	11 14

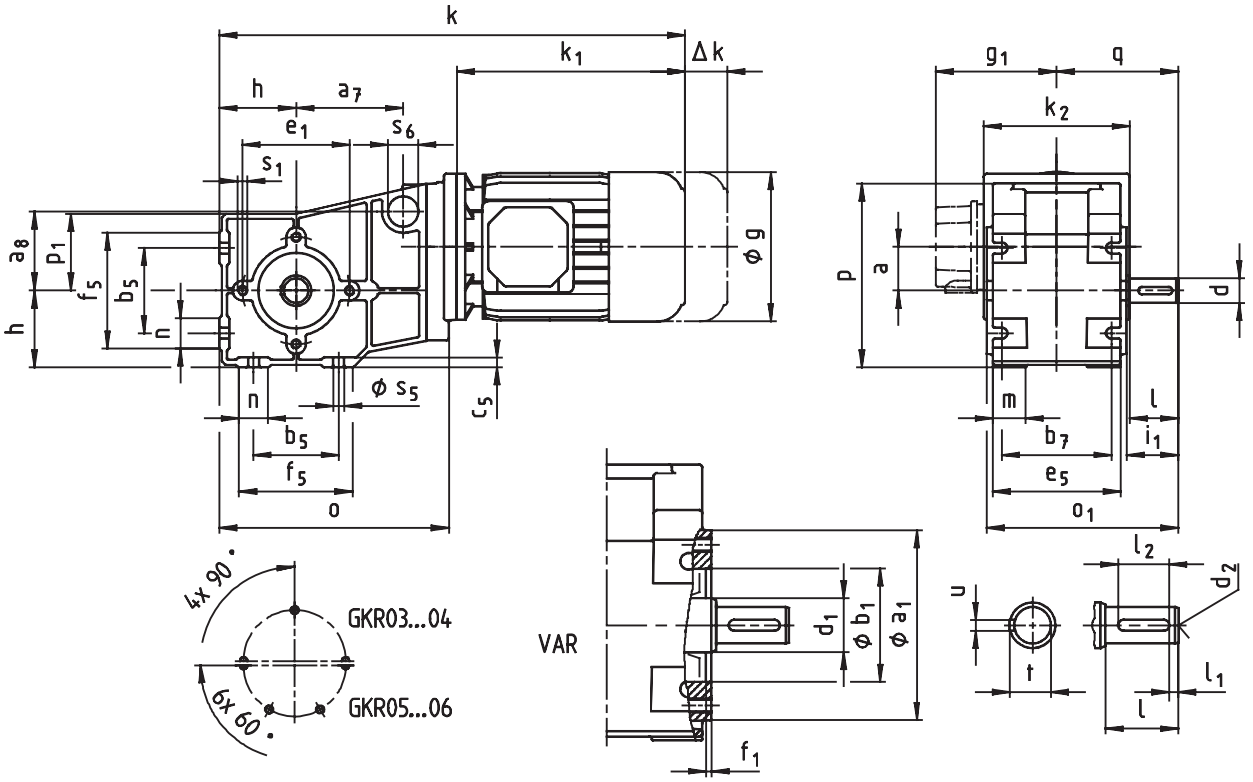
Dimensions in [mm]

* Observe dimension k_2 ** For further dimensions see section 8

1) If the hollow shaft diameter d=25mm, use a featherkey to DIN 6885/3

2) Only for the range l_2

GKR □□ - 2 M V□R


k
k1
Δk
h
a7
e1
s6
s1
a8
p1
f5
b5
n
h
n
ϕ s5
c5
b5
f5
o
ϕ g
g1
q
k2
p
a
d
m
l
b7
i1
e5
o1
l2
d2
u
t
l1
l
4x 90°
6x 60°
GKR03...04
GKR05...06
VAR
d1
ϕ b1
ϕ a1
f1

Geared motor **GKR □□ - 2 M V□R**			Motor frame size							
			063C02 063C22	**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**
Motor	**g**		123		138	156	176	196	220	
	g_1	Without option	100		109	141	146	157	167	
		Brake motor	107		116	130	135	146	156	
	k_1		156	188	207	225	276	309	319	363
	k_2	From gearbox size 04	100	120	120	145	180	180	222	
	Δk **	Brake	71	40	52	73	70	79	90	
		Separate fan	–	130	128	128	127	109	102	
		Separate fan + brake	–	170	165	184	180	170	183	

Gearbox size	Gearbox							Total length							
	o_1*	**p***	**p_1**	**a**	**h**	**o**	**q**	**k**							
03	138	117	48	29	50	142	90	301	332	353					
04	158	151	63	36	63	189	100		383	403	425	486			
05	199	181	82	40	80	251	131.5		437	456	479	540	573		
06	235	226	100	51	100	307	155		488	508	530	591	625	641	685

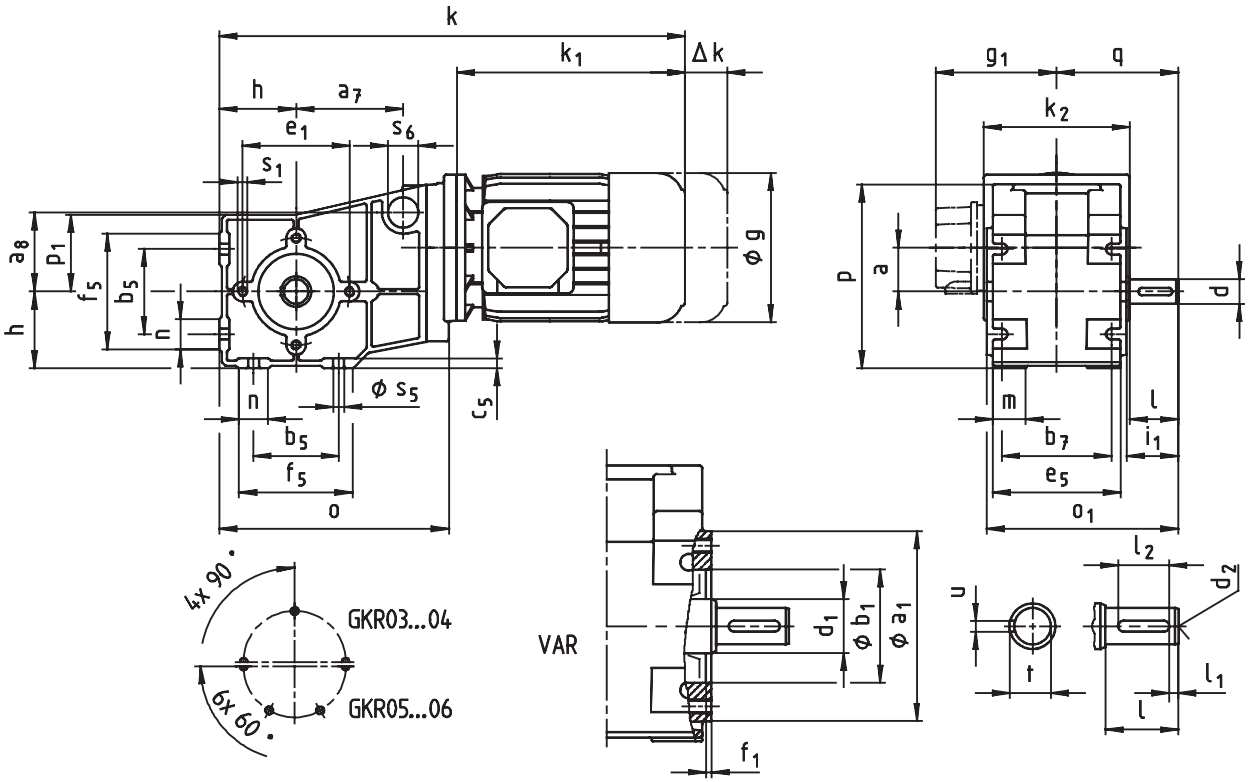
Gearbox size	Solid shaft								Pitch circle					
	d k6	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** J7	**e_1**	**f_1**	**i_1**	**s_1**
03	20	40	30	5	28	M6	6	22.5	85	55	70	2.5	42.5	M6x12
04	20	40	30	5	28	M6	6	22.5	104	62	88	3	42.5	M8x16
05	30	60	50	6	45	M10	8	33	116	80	100	4	64	M8x15
06	35	70	65	7	56	M12	10	38	140	100	120	4	75	M10x22

Gearbox size	Foot								Torque plate		
	b_5	**b_7**	**c_5**	**e_5**	**f_5**	**n**	**m**	**s_5**	**a_7**	**a_8**	**s_6**
03	60	75	7	90	80	20	22	6.6	66	39	25x12
04	70	90	8	105	95	25	28	9	88	65	25x17
05	100	100	11	115	138	48	27	9	–		
06	120	125	12	145	164	53	32	11	–		

Dimensions in [mm]

* Observe dimension k_2
** For further dimensions see section 8

GKR □□ - 2 M V□R


k
k1
Δk
h
a7
e1
s6
s1
a8
p1
f5
b5
n
h
n
ϕ s5
c5
b5
f5
o
ϕ g
g1
q
k2
p
a
d
m
l
b7
i1
e5
o1
l2
d2
u
t
l1
l
4x 90°
6x 60°
GKR03...04
GKR05...06
VAR
d1
ϕ b1
ϕ a1
f1

Geared motor **GKR □□ - 2 M V□R**			Motor frame size							
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41
Motor	g		129		142	156	178	194		222
	g_1	Without option	105		131	131	141	158		165
		Brake motor	105		131	131	140	159		165
	k_1		193	204	176	225	242	280	310	323
	k_2		100		145	145	180	180		222
	Δk **	Brake	56		66	68	74	94		101
		Separate fan	71		80	94	101	97		95
		Separate fan + brake	118		134	150	164	169		183

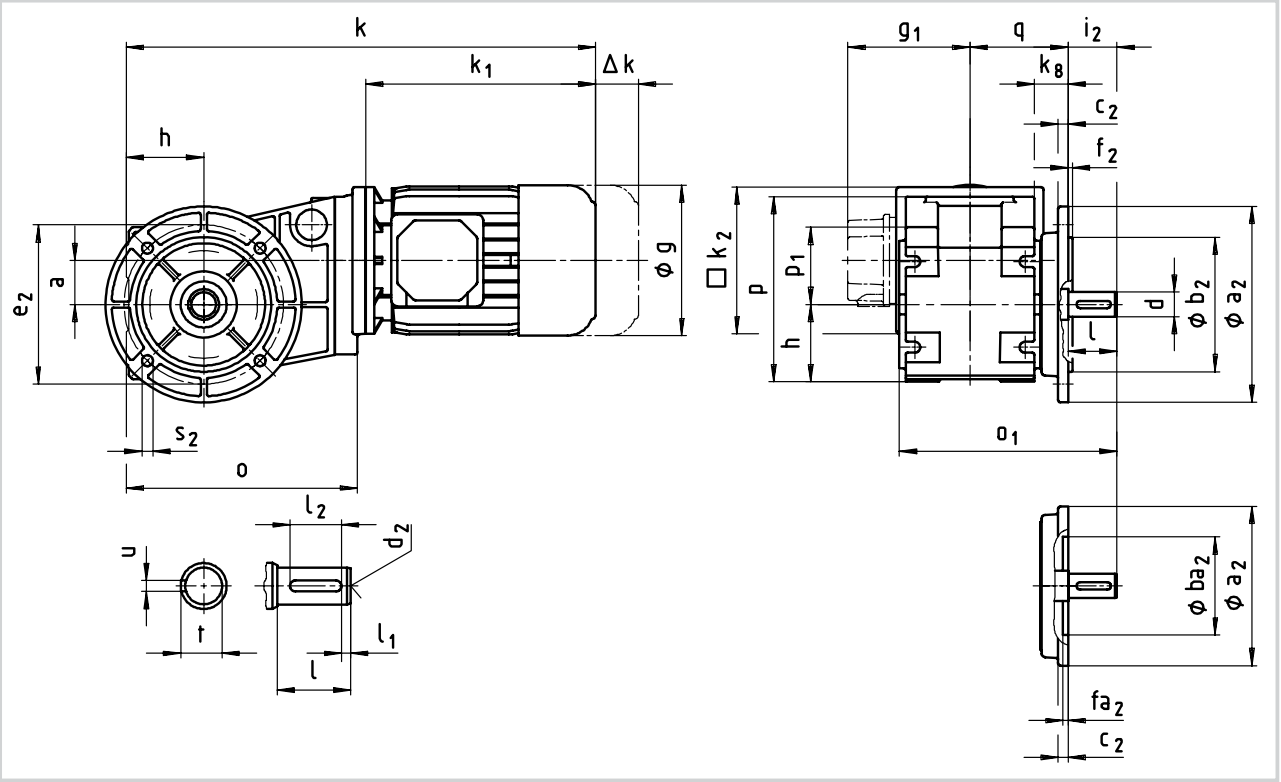
Gearbox size	Gearbox							Total length							
	o_1*	p*	p_1	a	h	o	q	k							
04	158	151	63	36	63	189	100	363	374	376	425	453			
05	199	181	82	40	80	251	131.5			430	479	506	544	574	
06	235	226	100	51	100	307	155			481	530	558	596	626	644

Gearbox size	Solid shaft								Pitch circle					
	d k6	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 J7	e_1	f_1	i_1	s_1
04	20	40	30	5	28	M6	6	22.5	104	62	88	3	42.5	M8x16
05	30	60	50	6	45	M10	8	33	116	80	100	4	64	M8x15
06	35	70	65	7	56	M12	10	38	140	100	120	4	75	M10x22

Gearbox size	Foot								Torque plate		
	b_5	b_7	c_5	e_5	f_5	n	m	s_5	a_7	a_8	s_6
04	70	90	8	105	95	25	28	9	88	65	25x17
05	100	100	11	115	138	48	27	9	–		
06	120	125	12	145	164	53	32	11	–		

Dimensions in [mm]

* Observe dimension k_2
** For further dimensions see section 8

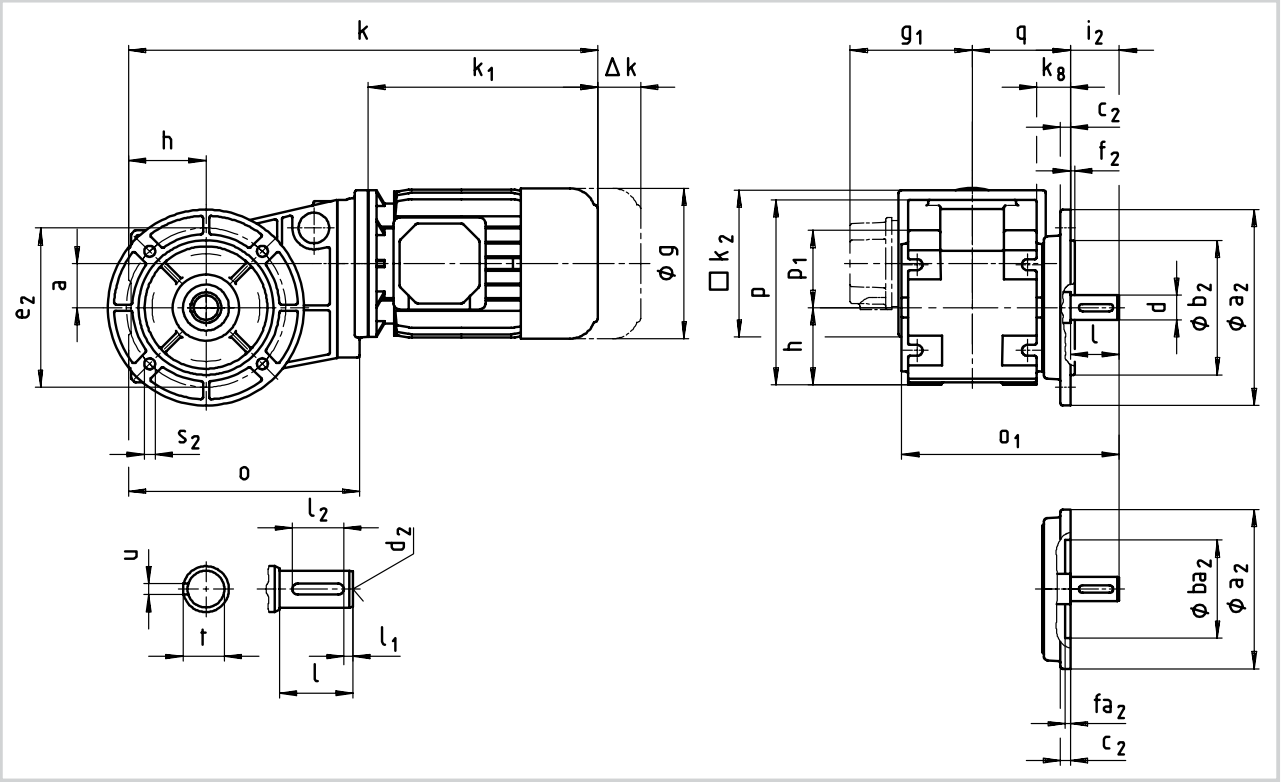


Geared motor			Motor frame size							
GKR □□ - 2 M VAK			**063C02 063C22**	**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**
Motor	g		123		138	156	176	196	220	
	g_1	Without option	100		109	141	146	157	167	
		Brake motor	107		116	130	135	146	156	
	k_1		156	188	207	225	276	309	319	363
	k_2	From gearbox size 04	100	120	120	145	180	180	222	
	Δk **	Brake	71	40	52	73	70	79	90	
		Separate fan	–	130	128	128	127	109	102	
		Separate fan + brake	–	170	165	184	180	170	183	

Gearbox size	Gearbox								Total length							
	o_1*	p*	p_1	a	h	o	q	k_8	k							
03	168	117	48	29	50	142	80	35	301	332	353					
04	178	151	63	36	63	189	80.5	28		383	403	425	486			
05	233	181	82	40	80	251	105	47		437	456	479	540	573		
06	277	226	100	51	100	307	126.5	54		488	508	530	591	625	641	685

Gearbox size	Solid shaft							Output flange								
	d k6	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	ba_2 H7	c_2	e_2	f_2	fa_2	i_2	s_2 4x90°
03	20	40	5	28	M6	6	22.5	110 120	– 80	60 –	8	87 100	– 3	4 –	40	9 7
04	20	40	5	28	M6	6	22.5	120 160	80 110	–	8	100 130	3 3.5	–	40	7 9
05	30	60	6	45	M10	8	33	160 200	110 130	–	12	130 165	3.5	–	60	9 11
06	35	70	7	56	M12	10	38	200 250	130 180	–	12	165 215	3.5 4	–	70	11 14

Dimensions in [mm] * Observe dimension k_2 ** For further dimensions see section 8



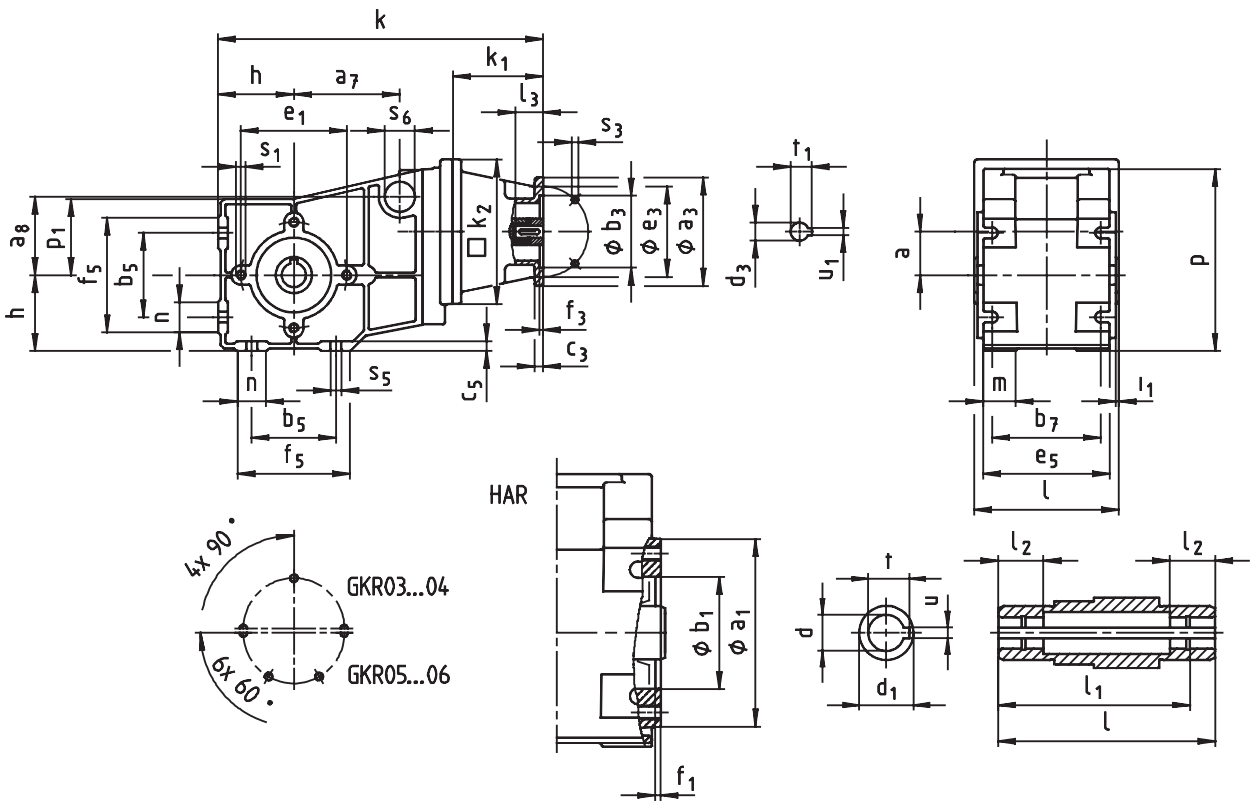
Geared motor **GKR □□ - 2 M VAK**			Motor frame size							
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41
Motor	g		129		142	156	178	194		222
	g_1	Without option	105		131	131	141	158		165
		Brake motor	105		131	131	140	159		165
	k_1		193	204	176	225	242	280	310	323
	k_2		100		145	145	180	180		222
	Δk **	Brake	56		66	68	74	94		101
		Separate fan	71		80	94	101	97		95
		Separate fan + brake	118		134	150	164	169		183

Gearbox size	Gearbox								Total length							
	o_1*	p*	p_1	a	h	o	q	k_8	k							
04	178	151	63	36	63	189	80.5	28	363	374	376	425	453			
05	233	181	82	40	80	251	105	47			430	479	506	544	574	
06	277	226	100	51	100	307	126.5	54			481	530	558	596	626	644

Gearbox size	Solid shaft							Output flange						
	d k6	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2 4x90°
04	20	40	5	28	M6	6	22.5	120 160	80 110	8	100 130	3 3.5	40	7 9
05	30	60	6	45	M10	8	33	160 200	110 130	12	130 165	3.5	60	9 11
06	35	70	7	56	M12	10	38	200 250	130 180	12	165 215	3.5 4	70	11 14

Dimensions in [mm] * Observe dimension k_2 ** For further dimensions see section 8

GKR □□ - 2 N H□R


k
k1
h
a7
e1
s6
l3
s3
s1
a8
p1
f5
b5
n
h
□ k2
ϕ b3
ϕ e3
ϕ a3
t1
d3
u1
a
p
m
l1
b7
e5
l
f3
c3
c5
s5
b5
f5
HAR
4x 90°
6x 60°
GKR03...04
GKR05...06
ϕ b1
ϕ a1
f1
t
u
d
d1
l2
l2
l1
l

Gearbox **GKR □□ - 2 N H□R** corresponds to IEC motor				Drive size														
				1A 63	**1B** 71	**2B** 63	**1C** 80	**2C**	**3C** 71	**4C** 71	**1D** 90	**2D** 80	**1E** 100 112	**2E** 90	**3E** 80	**1F** 100 112	**2F** 90
	Housing	k_1		58		75	77				75	91	115	110	139		
		k_2		100		120	145				120	145	180	180	180		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160	
		b_3	H8	60	70	60	110	110	70	80	110		110			110	
		c_3		7	8	7	10	10	8	8	10		10			10	
		e_3		75	85	75	130	130	85	100	130		130			130	
		f_3		3	3	3	4	4	3	3.5	4		4			4	
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9	
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24
		l_3	min max	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60	
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27

Gearbox size	Gearbox						Total length										
	l*	**p***	**p_1**	**a**	**h**	**o**	**k**										
03	100	117	48	29	50	142	224										
04	120	151	63	36	63	189		271	278	271	292						
05	143	181	82	40	80	251			331		345		379		374		
06	170	226	100	51	100	307			383		397		431		426		455

Gearbox size	Hollow shaft							Pitch circle					
	d [2] H7	**l**	**d_1**	**l_1**	**l_2**	**u** JS9	**t** [1] +0.1	**a_1**	**b_1** J7	**e_1**	**f_1**	**i_1**	**s_1**
03	18 20	100	30	86	22	6	20.8 22.8	85	55	70	2.5	2.5	M6x12
04	20 25	120	30 35	106	25	6 8	22.8 27.0	104	62	88	3	2.5	M8x16
05	30 35	143	50	128.5	25	8 10	33.3 38.3	116	80	100	4	4	M8x15
06	40 45	170	65	152	30	12 14	43.3 48.8	140	100	120	4	5	M10x22

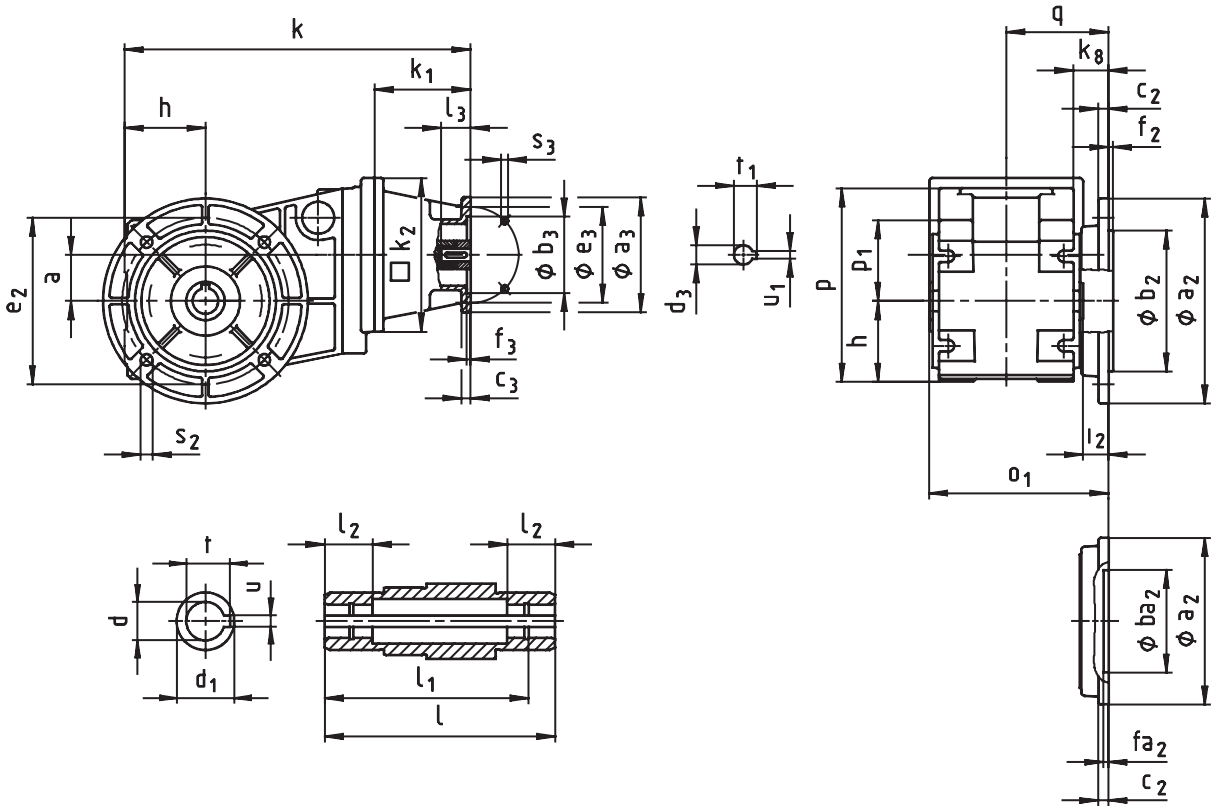
Gearbox size	Foot								Torque plate		
	b_5	**b_7**	**c_5**	**e_5**	**f_5**	**n**	**m**	**s_5**	**a_7**	**a_8**	**s_6**
03	60	75	7	90	80	20	22	6.6	66	39	25x12
04	70	90	8	105	95	25	28	9	88	65	25x17
05	100	100	11	115	138	48	27	9	–		
06	120	125	12	145	164	53	32	11	–		

Dimensions in [mm]

* Observe dimension k_2
** With gearbox size 03

[1] If the hollow shaft diameter d=25mm, use a featherkey to DIN 6885/3
[2] Only for the range l_2

GKR □□ - 2 N HAK


k
k1
h
l3
s3
e2
a
□k2
ϕb3
ϕe3
ϕa3
f3
c3
s2
t1
d3
u1
q
k8
c2
f2
p
p1
h
ϕb2
ϕa2
l2
o1
t
u
d
d1
l2
l2
l1
l
ϕba2
ϕa2
fa2
c2

5

Gearbox **GKR □□ - 2 N HAK** corresponds to IEC motor				Drive size														
				1A 63	**1B** 71	**2B** 63	**1C** 80	**2C**	**3C** 71	**4C** 71	**1D** 90	**2D** 80	**1E** 100 112	**2E** 90	**3E** 80	**1F** 100 112	**2F** 90
	Housing	k_1		58		75	77				75	91	115	110	139		
		k_2		100		120	145				120	145	180	180	180		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160	
		b_3	H8	60	70	60	110	110	70	80	110		110			110	
		c_3		7	8	7	10	10	8	8	10		10			10	
		e_3		75	85	75	130	130	85	100	130		130			130	
		f_3		3	3	3	4	4	3	3.5	4		4			4	
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9	
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24
		l_3	min max	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60	
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27

Gearbox size	Gearbox								Total length									
	o_1*	**p***	**p_1**	**a**	**h**	**k_8**	**o**	**q**	**k**									
03	130	117	48	29	50	35	142	80	224									
04	140	151	63	36	63	28	189	80		271	278	271	292					
05	177	181	82	40	80	47	251	105			331		345		379		374	
06	212	226	100	51	100	54	307	126.5			383		397		431		426	455

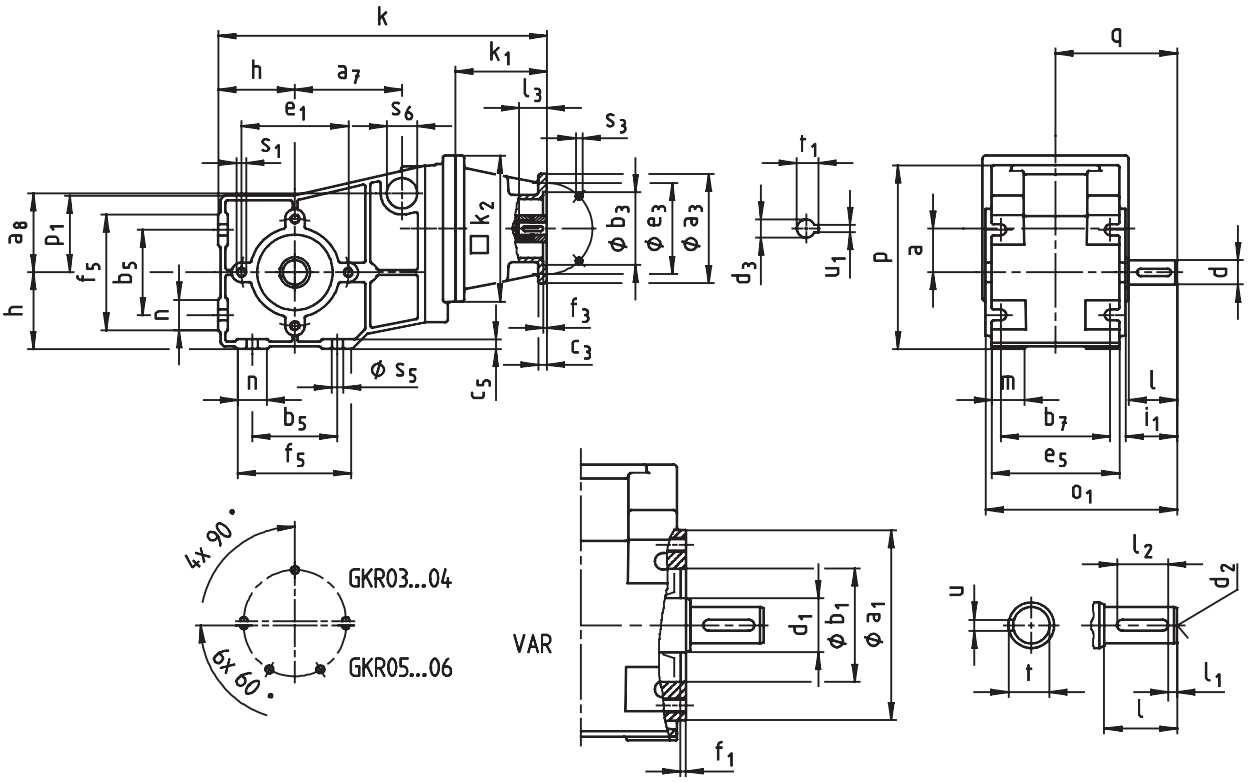
Gearbox size	Hollow shaft							Output flange								
	d [2] H7	**l**	**d_1**	**l_1**	**l_2**	**u** JS9	**t** [1] +0.1	**a_2**	**b_2** j7	**ba_2** H7	**c_2**	**e_2**	**f_2**	**fa_2**	**i_2**	**s_2** 4x90°
03	18 20	100	30	86	22	6	20.8 22.8	110 120	– 80	60 –	8.0	87 100	– 3	4 –	30	9 7
04	20 25	120	30 35	106	25	6 8	22.8 27	120 160	80 110	–	8.0	100 130	3 3.5	–	20	7 9
05	30 35	143	50	128.5	25	8 10	33.3 38.3	160 200	110 130	–	12	130 165	3.5	–	33.5	9 11
06	40 45	170	65	152	30	12 14	43.3 48.8	200 250	130 180	–	12	165 215	3.5 4	–	41.5	11 14

Dimensions in [mm]

* Observe dimension k_2
** With gearbox size 03

[1] If the hollow shaft diameter d=25mm, use a featherkey to DIN 6885/3
[2] Only for the range l_2

GKR □□ - 2 N V□R


k
k1
h
a7
e1
s6
l3
s3
s1
a8
p1
f5
b5
n
h
□ k2
ϕ b3
ϕ e3
ϕ a3
f3
c3
c5
n
ϕ s5
b5
f5
t1
d3
u1
q
p
a
d
m
l
b7
i1
e5
o1
4x 90°
6x 60°
GKR03...04
GKR05...06
VAR
d1
ϕ b1
ϕ a1
f1
u
t
l2
d2
l1
l

5

Gearbox GKR □□ - 2 N V□R				Drive size														
			corresponds to IEC motor	1A 63	1B 71	2B 63	1C 80	2C	3C 71	4C 71	1D 90	2D 80	1E 100 112	2E 90	3E 80	1F 100 112	2F 90
	Housing	k_1		58		75	77				75	91	115	110	139		
		k_2		100		120	145				120	145	180	180	180		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160	
		b_3	H8	60	70	60	110	110	70	80	110		110			110	
		c_3		7	8	7	10	10	8	8	10		10			10	
		e_3		75	85	75	130	130	85	100	130		130			130	
		f_3		3	3	3	4	4	3	3.5	4		4			4	
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9	
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24
		l_3	min	23	30	23	25				50	40	30			30	
			max	23	30	23	40				50	50	60			60	
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27

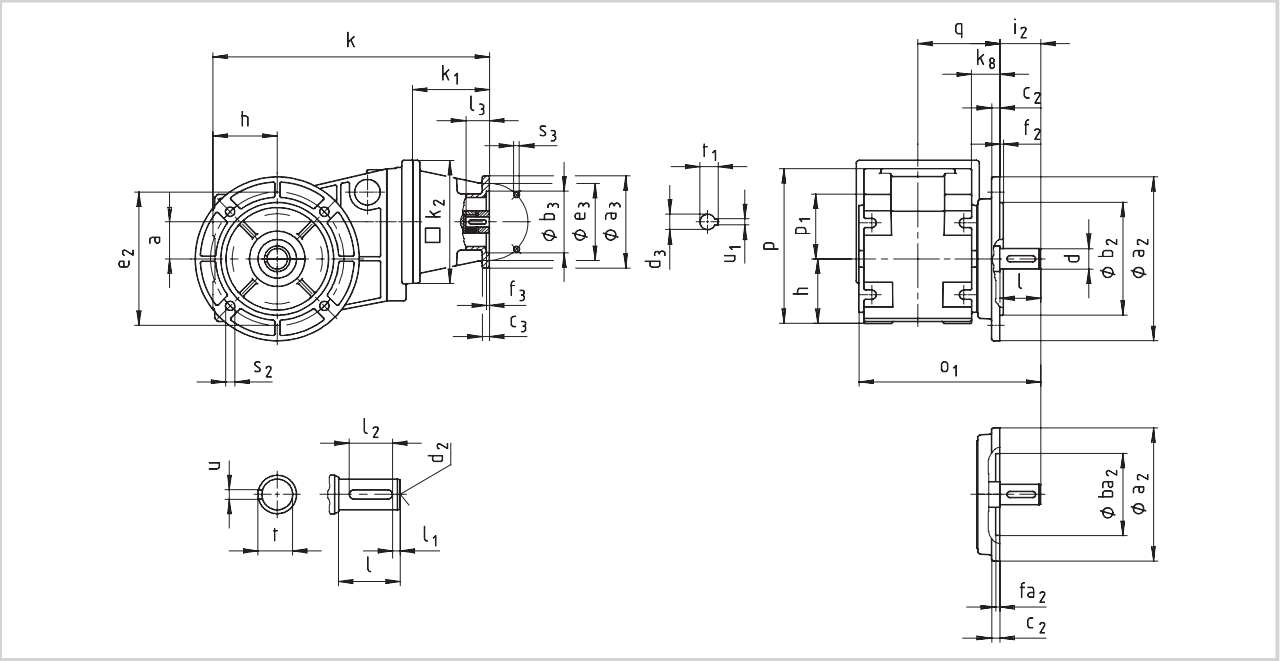
Gearbox size	Gearbox							Total length									
	o_1*	p*	p_1	a	h	o	q	k									
03	138	117	48	29	50	142	90	224									
04	158	151	63	36	63	189	100		271	278	271	292					
05	199	181	82	40	80	251	131.5			331		345		379		374	
06	235	226	100	51	100	307	155			383		397		431		426	455

Gearbox size	Solid shaft								Pitch circle					
	d k6	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 J7	e_1	f_1	i_1	s_1
03	20	40	30	5	28	M6	6	22.5	85	55	70	2.5	42.5	M6x12
04	20	40	30	5	28	M6	6	22.5	104	62	88	3	42.5	M8x16
05	30	60	50	6	45	M10	8	33	116	80	100	4	64	M8x15
06	35	70	65	7	56	M12	10	38	140	100	120	4	75	M10x22

Gearbox size	Foot								Torque plate		
	b_5	b_7	c_5	e_5	f_5	n	m	s_5	a_7	a_8	s_6
03	60	75	7	90	80	20	22	6.6	66	39	25x12
04	70	90	8	105	95	25	28	9	88	65	25x17
05	100	100	11	115	138	48	27	9	–		
06	120	125	12	145	164	53	32	11	–		

Dimensions in [mm]

* Observe dimension k_2
** With gearbox size 03



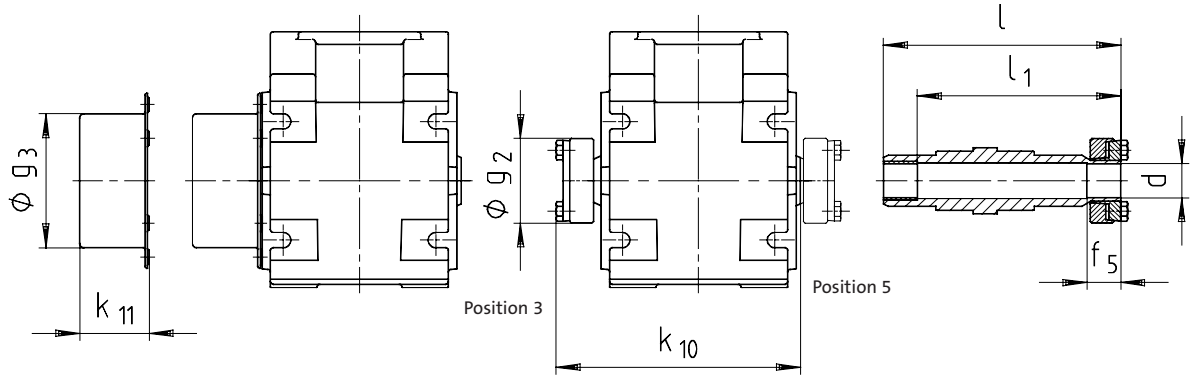
Gearbox				Drive size														
GKR □□ - 2 N VAK				**1A**	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**
corresponds to IEC motor				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90
	Housing	k_1		58		75	77				75	91	115	110	139		
		k_2		100		120	145				120	145	180	180	180		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160	
		b_3	H8	60	70	60	110	110	70	80	110		110			110	
		c_3		7	8	7	10	10	8	8	10		10			10	
		e_3		75	85	75	130	130	85	100	130		130			130	
		f_3		3	3	3	4	4	3	3.5	4		4			4	
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9	
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24
		l_3	min	23	30	23	25				50	40	30			30	
			max	23	30	23	40				50	50	60			60	
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27

Gearbox size	Gearbox								Total length								
	o_1*	p*	p_1	a	h	o	q	k_8	k								
03	168	117	48	29	50	142	80	35	224								
04	178	151	63	36	63	189	80.5	28		271	278	271	292				
05	233	181	82	40	80	251	105	47			331		345		379	374	
06	277	226	100	51	100	307	126.5	54			383		397		431	426	455

Gearbox size	Solid shaft							Output flange								
	d k6	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	ba_2 H7	c_2	e_2	f_2	fa_2	i_2	s_2 4x90°
03	20	40	5	28	M6	6	22.5	110 120	– 80	60 –	8	87 100	– 3	4 –	40	9 7
04	20	40	5	28	M6	6	22.5	120 160	80 110	–	8	100 130	3 3.5	–	40	7 9
05	30	60	6	45	M10	8	33	160 200	110 130	–	12	130 165	3.5	–	60	9 11
06	35	70	7	56	M12	10	38	200 250	130 180	–	12	165 215	3.5 4	–	70	11 14

Dimensions in [mm] * Observe dimension k_2 ** For gearbox size 03

Hollow shaft with shrink disc



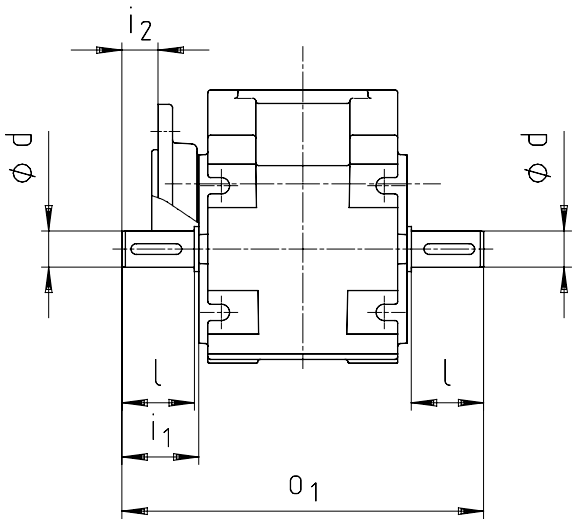
Gearbox size	Machine shaft *		Hollow shaft			Gearbox		Protective cover	
	d	fit	l	l_1	f_5	g_2	k_{10}	g_3	k_{11}
03	20	h6	120	100	20	50	124	65	41
04	20	h6	140	120	20	50	144	79	41
05	30/35	h6	171	151	28	80	177	90	43
06	40	h6	204	174	30	90	210	100	49

Dimensions in [mm]

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4) the torque values given in the selection tables can be transmitted without restrictions. If less rigid materials are being used, please contact us.

The average surface roughness R_z should not exceed 15 µm (turning is sufficient).

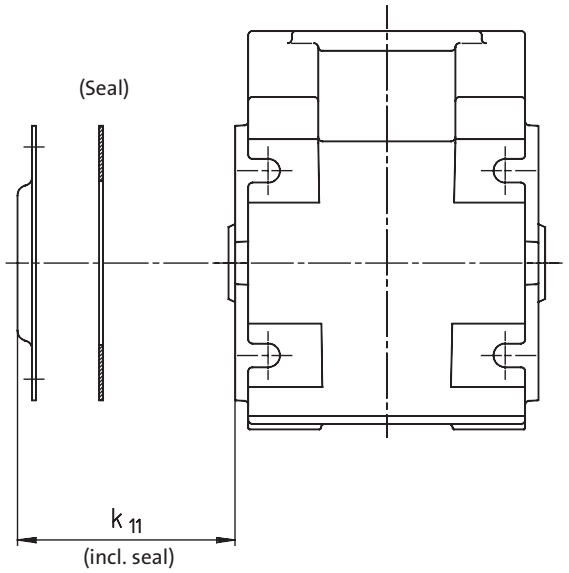
Gearbox with 2nd output shaft



Gearbox size	d k6	l	i_1	i_2	o_1
03	20	40	42.5	9.5	180
04	20	40	42.5	19.5	200
05	30	60	64	27	263
06	35	70	75	28.5	310

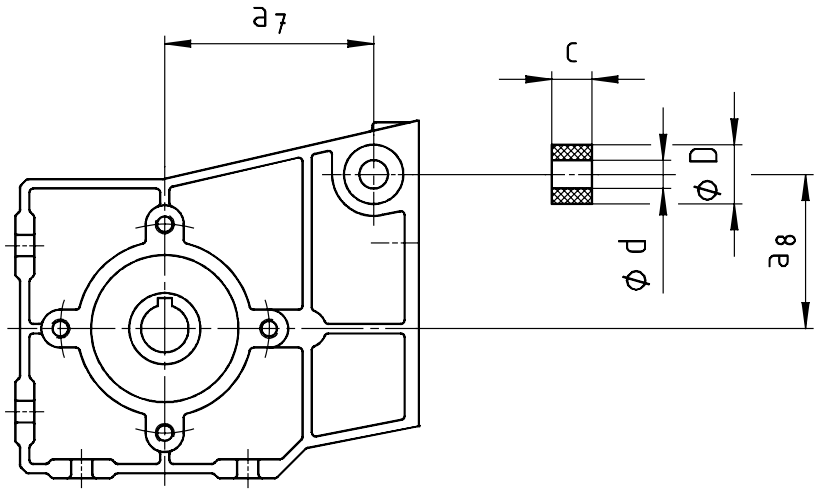
Dimensions in [mm]

Jet-proof hollow shaft cover



Gearbox size	Protective cover k_{11}
03	9
04	9
05	10
06	11

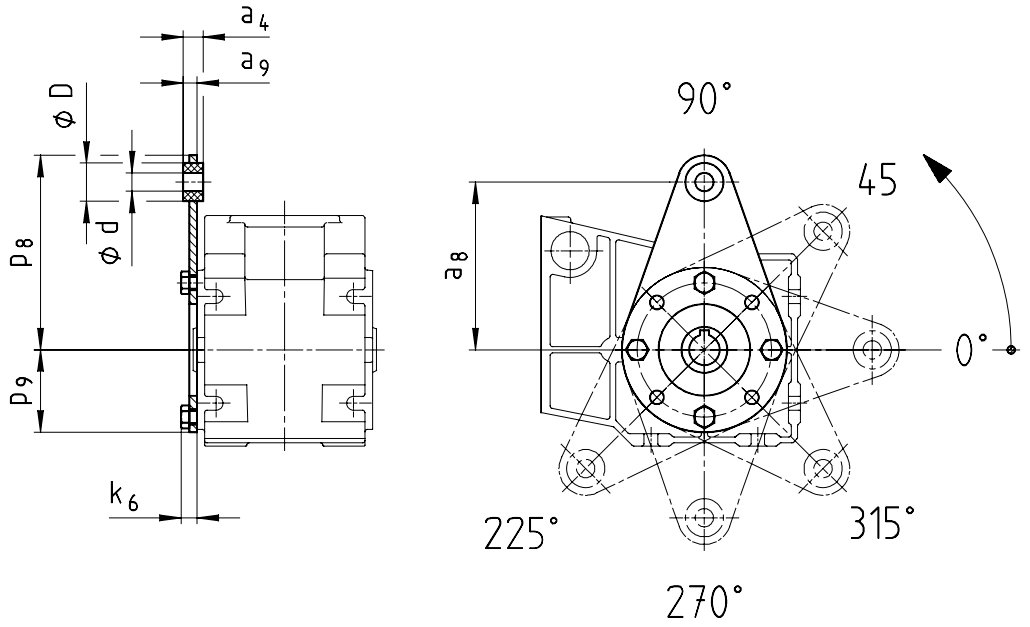
Rubber buffer set for torque plate



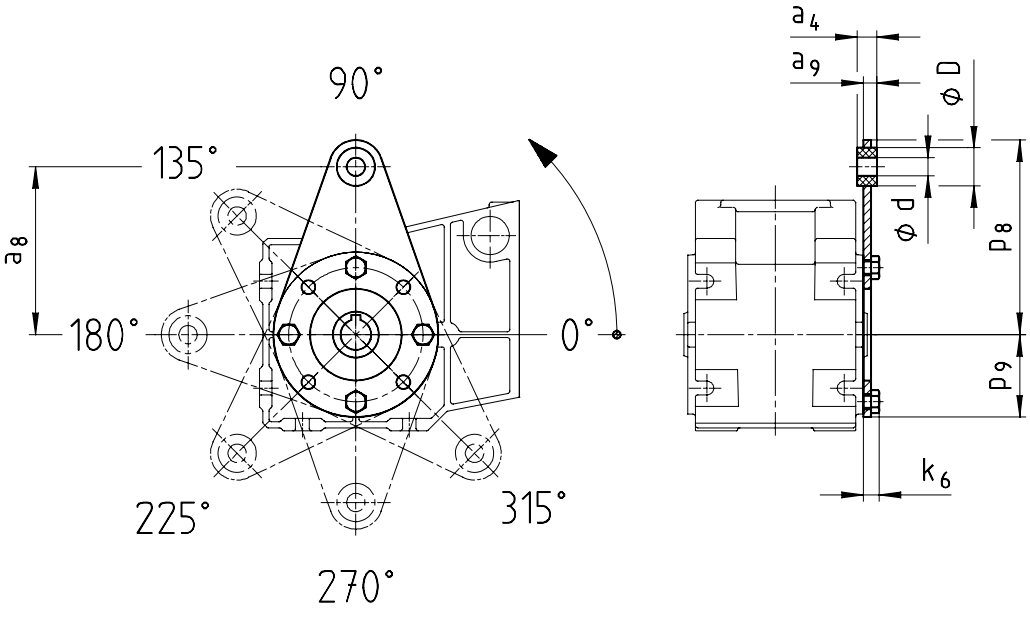
Gearbox size	d	D	c	a_7	a_8
03	10	25	13	66	39
04	10	25	13	88	65

Dimensions in [mm]

GKR 03/04
Torque plate at pitch circle, position 3



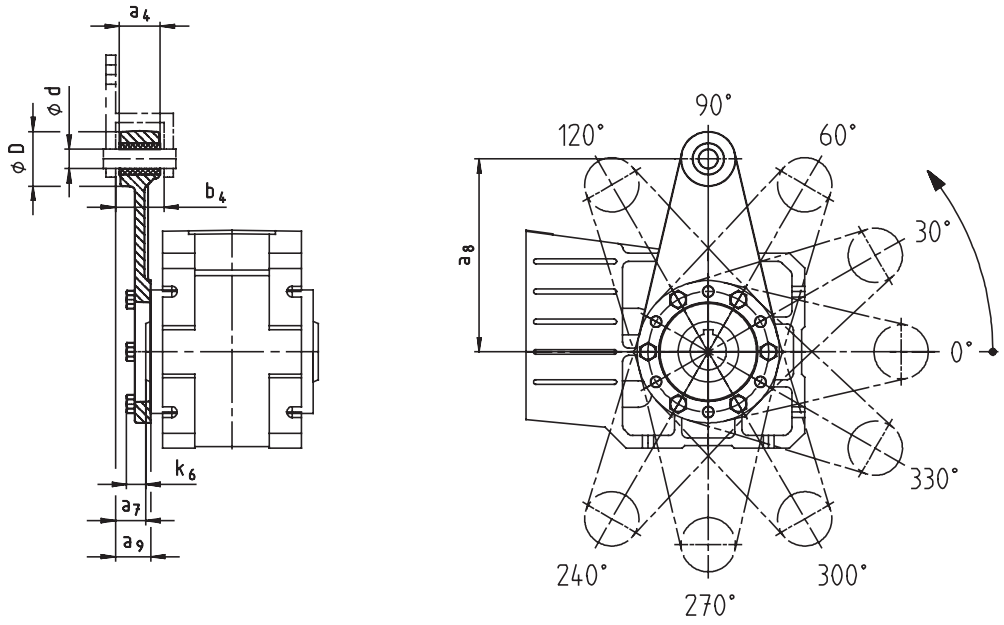
GKR 03/04
Torque plate at pitch circle, position 5



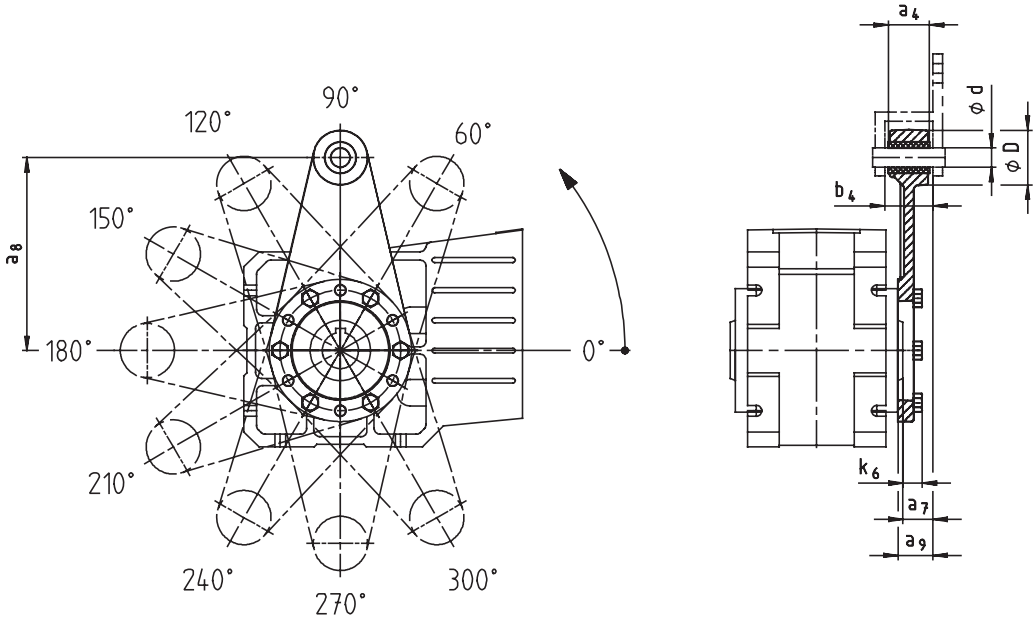
Gearbox size	Torque plate							
	a_4	a_8	a_9	d	D	k_6	p_8	p_9
03	12	100	8	8	20	9	115	42
04	13	110	9	10	25	11	128	52

Dimensions in [mm]

GKR 05/06
Torque plate at pitch circle, position 3



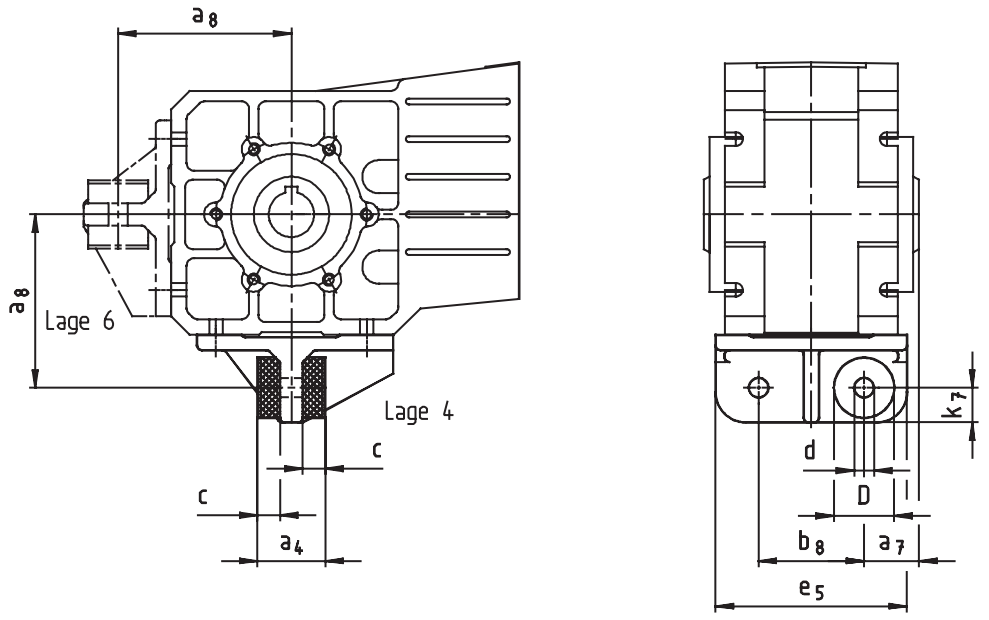
GKR 05/06
Torque plate at pitch circle, position 5



Gearbox size	Assembly space		Torque plate					
	a_7	b_4	a_4	a_8	a_9	d	D	k_6
05	23.5	38.5	34	160	27.5	16	45	16
06	28	44.5	40	200	33	20	50	18

Dimensions in [mm]

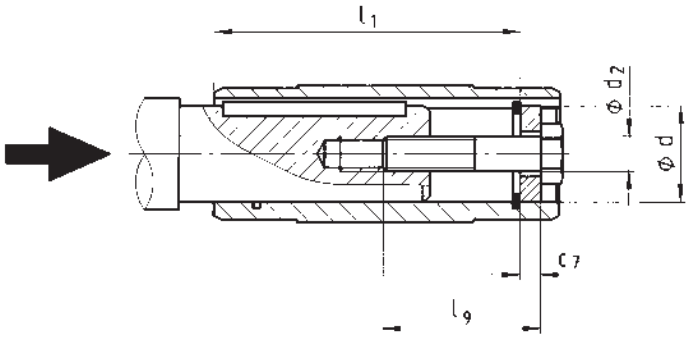
Torque plate at housing foot



Gearbox size	a_4	a_7	a_8	b_8	c	d	D	e_5	k_7
05	45	36.5	115	70	15	13	40	127	23
06	72	45	145	80	27	17	50	145	28

Dimensions in [mm]

Assembly kit for hollow shaft retention / Proposal for auxiliary tool



Gearbox size	Hollow shaft (Design **H**)			Assembly kit for hollow shaft circlip (auxiliary tool assembly)		
	l	l_1	d H7	d_2	l_9	c_7
03	100	86	18 20	M6	40	4
04	120	106	20 25	M6 M10	40	4 5
05	143	128	30 35	M10 M12	40 50	6 7
06	170	152	40 45	M16	60	8 9

Dimensions in [mm]

Helical-bevel gearboxes | G-motion const

Technical data

Selection tables

Dimensions

Helical-bevel gearboxes GKS□□

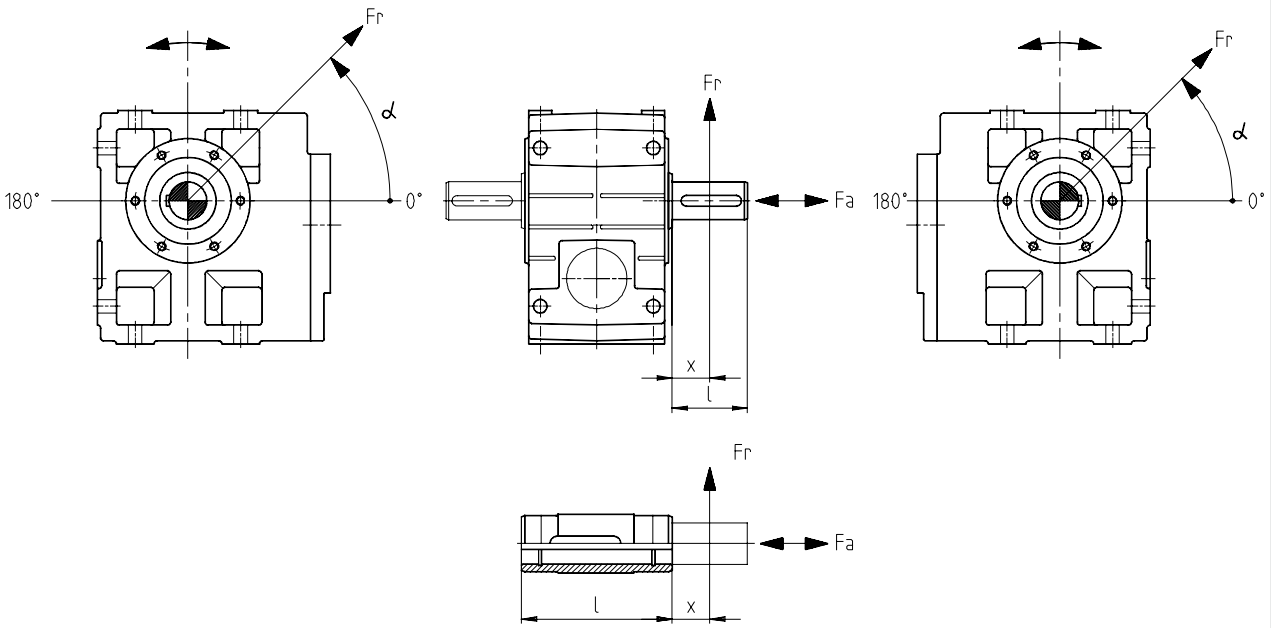
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

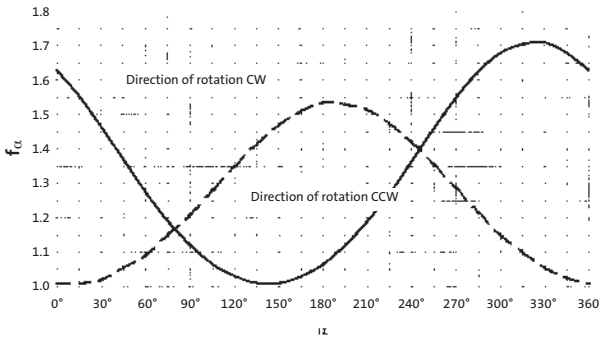
Permissible axial force

$F_{a_{perm}} = F_{a_{Tab}}$ if $F_r = 0$

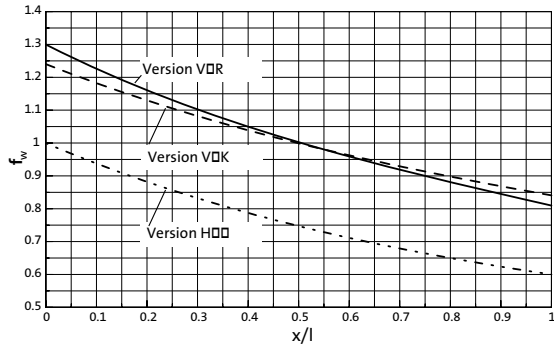
Contact Lenze if F_r **and** $F_a \neq 0$

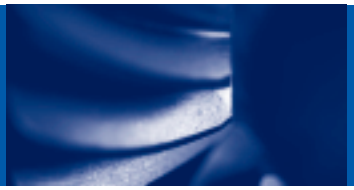


f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft





Helical-bevel gearboxes GKS□□

VAK

Solid shaft with flange
Application of force F_r: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GKS 04		GKS 05		GKS 06		GKS 07		GKS 09		GKS 11		GKS 14	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	3800	4200	4640	3630	6400	4660	7000	5700	9900	6000	14500	7000	20500	8400
250	4300	4400	5420	4440	7500	5880	8250	7000	10500	6600	16000	7500	23700	10000
160	4600	4400	6280	5420	8800	7320	9630	8500	12000	7600	17600	8500	27200	11500
100	4600	4400	7000	6600	9800	9230	11000	10400	14000	10000	21000	10500	31300	13000
63	4600	4400	7000	6600	10000	10000	13000	11500	15000	12000	24500	13000	35000	15000
40	4600	4400	7000	6600	10000	10000	14000	11500	15000	15000	28000	17500	41000	19000
25	4600	4400	7000	6600	10000	10000	14000	11500	15000	17000	30000	27000	43000	28000
≤ 16	4600	4400	7000	6600	10000	10000	14000	11500	15000	17000	30000	27000	43000	35000
$F_{r\,max}$	4600	–	7000	–	10000	–	14000	–	15000	–	30000	–	43000	–

V□R

Solid shaft without flange
Application of force F_r: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GKS 04		GKS 05		GKS 06		GKS 07		GKS 09*		GKS 11*		GKS 14	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	3000	4200	2800	3500	3700	4440	4000	4900	6200	6500	7100	7000	57900	35000
250	3400	5000	3200	4240	4300	5580	4900	6230	6400	7400	7500	8000	61000	35000
160	3600	5500	3600	5090	4900	6930	5800	7820	7100	8000	8200	9200	64100	35000
100	3600	5500	4100	6160	5300	8710	6600	9940	8400	10500	10000	12000	65000	35000
63	3600	5500	4900	6600	6200	10000	8000	12600	9500	13000	11200	14500	65000	35000
40	3600	5500	5800	6600	7900	10000	9600	14000	11800	17000	13000	18500	65000	35000
25	3600	5500	5800	6600	9000	10000	12000	14000	16000	21000	19000	27000	65000	35000
≤ 16	3600	5500	5800	6600	10000	9000	14000	12000	18000	21000	23000	27000	65000	35000
$F_{r\,max}$	3600	–	5800	–	9000	–	12000	–	18000	–	23000	–	65000	–

H□□

Hollow shaft
Application of force F_r: At hollow shaft end face (x = 0)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GKS 04		GKS 05		GKS 06		GKS 07		GKS 09		GKS 11		GKS 14	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
400	3900	4200	3500	3500	4600	4440	5400	4900	7500	6500	9000	7000	15000	6000
250	4500	5000	4200	4240	5600	5580	6300	6230	8200	7400	10000	8000	15500	8000
160	5100	5500	4630	5090	6400	6930	7400	7820	9400	8000	11000	9200	16500	10000
100	5900	5500	5000	6160	7000	8710	8700	9940	10600	10500	14000	12000	17500	13000
63	6800	5500	6200	6600	8200	10000	10500	12600	12200	13000	16000	14500	18500	16000
40	7000	5500	7300	6600	10400	10000	12500	14000	15500	17000	18500	18500	21000	20000
25	7000	5500	7300	6600	12000	10000	15100	14000	21000	21000	25000	27000	28000	28000
≤ 16	7000	5500	7300	6600	10000	12000	14000	16000	24000	21000	30000	27000	40000	35000
$F_{r\,max}$	7000	–	7300	–	12000	–	16000	–	24000	–	30000	–	45000	–

* A reinforced output shaft bearing is available on request for V□R versions.

Neither radial nor axial forces are permitted on hollow shafts with shrink disc (S□□).

Helical-bevel gearboxes GKS□□

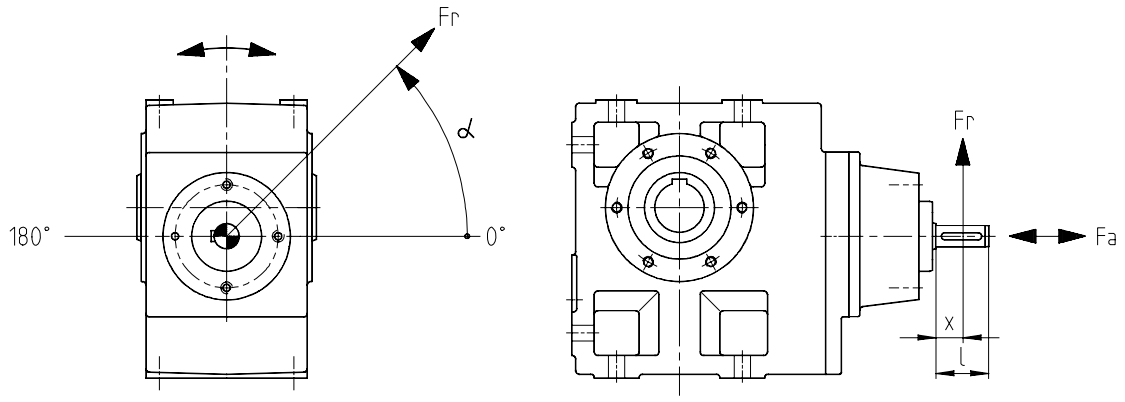
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

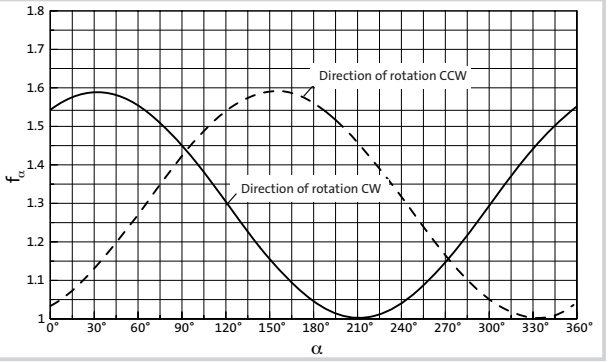
Permissible axial force

$F_{a_{perm}} = F_{a_{Tab}}$ if $F_r = 0$

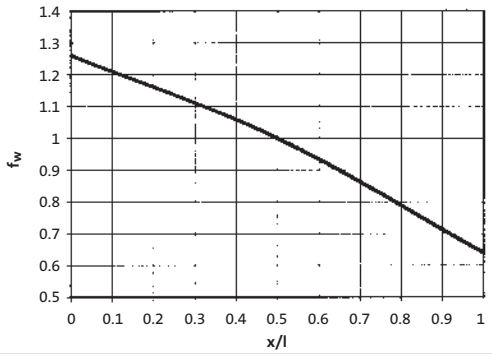
Contact Lenze if F_r **and** $F_a \neq 0$



f_α Effective direction factor at input shaft



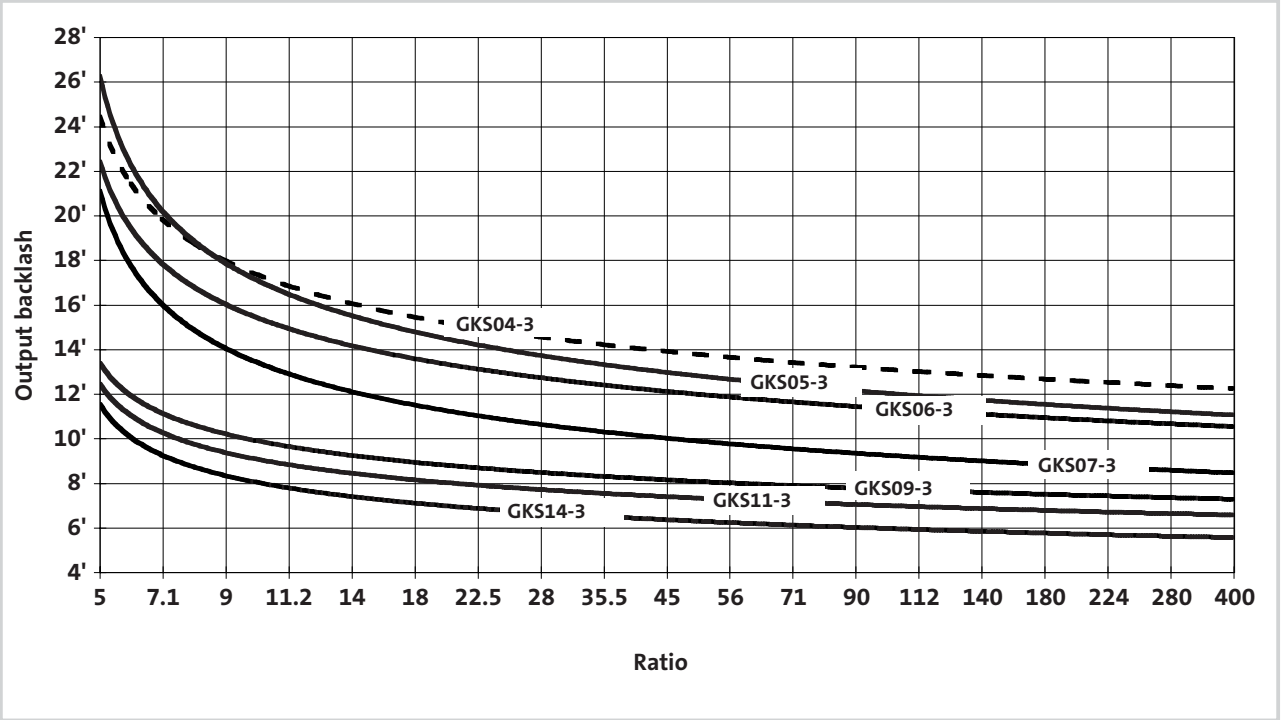
f_w Additional load factor at input shaft



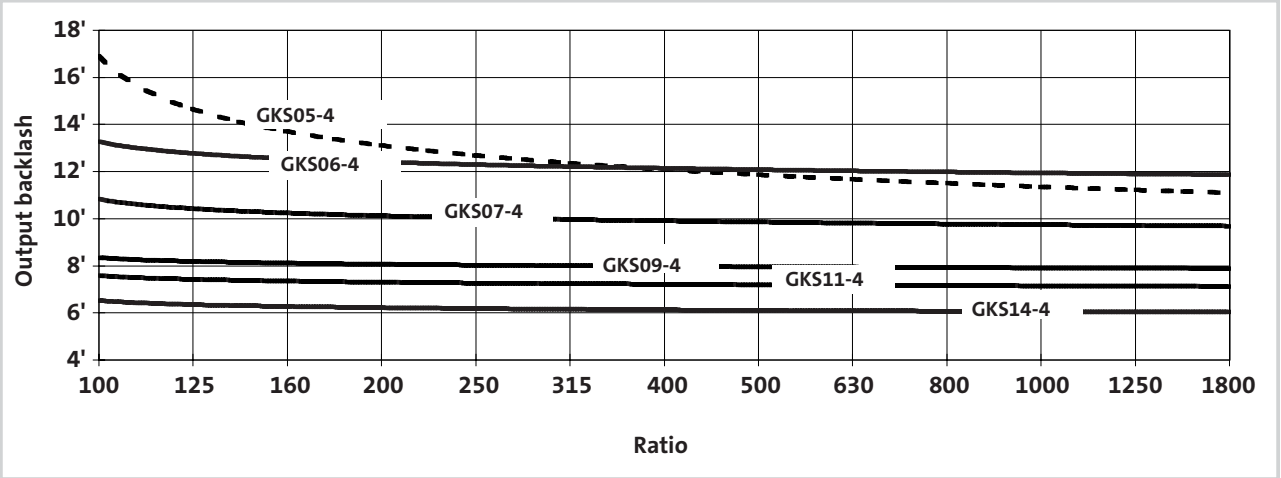
W Application of force F_{rTab}: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

	Drive size															
	1A 1B		1C		1D		1E		1F		1G		1H		1K	
n_1 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
700	830	1200	1150	1400	1470	1500	2140	1600	3200	2800	4000	4500	5000	6000	8500	10000
1400	570	770	780	900	1000	740	1400	800	2200	1700	3200	2000	4000	2500	7000	5300
2800	440	530	590	620	770	470	940	460	1700	1100	2300	1600	3000	2000	5000	3500
$F_{r\,max}$	1850	–	1650	–	3000	–	4900	–	5600	–	8000	–	10000	–	12000	–

Helical-bevel gearboxes GKS□□-3

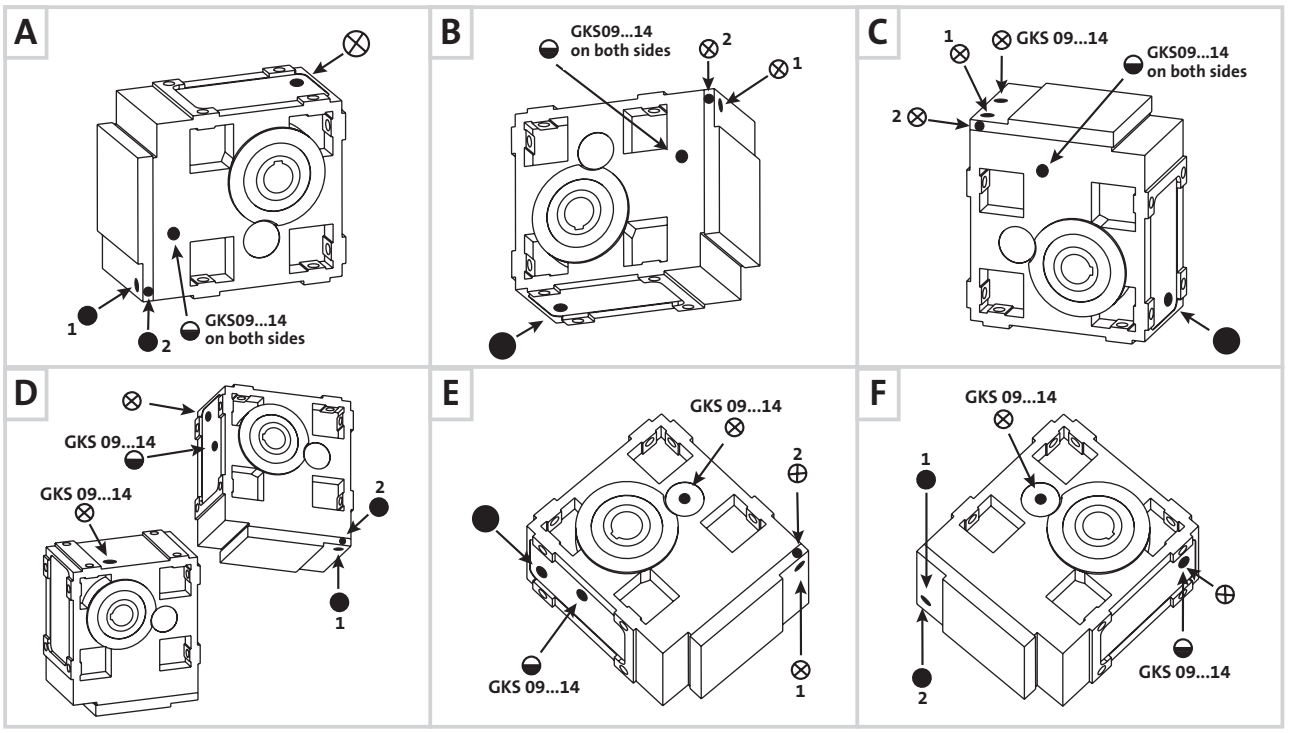


Helical-bevel gearboxes GKS□□-4

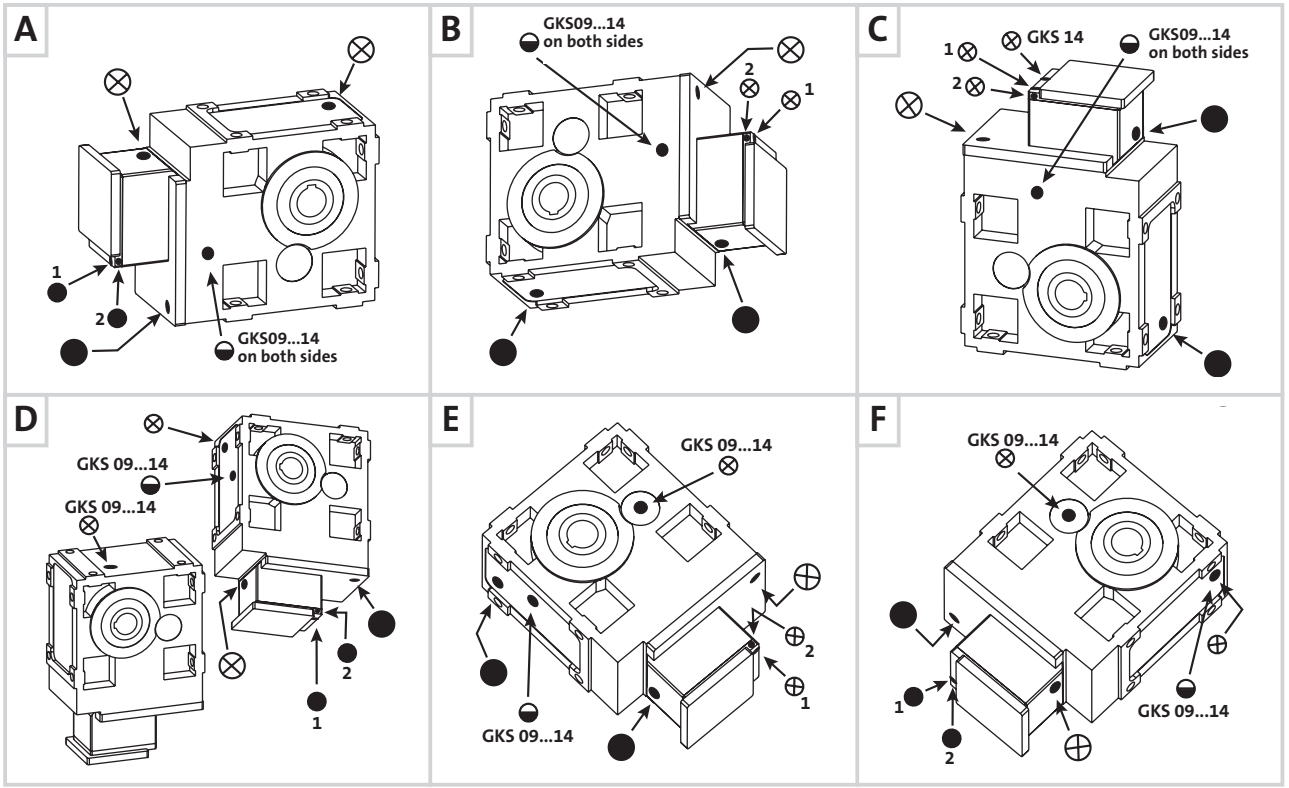


Position of ventilation, oil filler plug and oil drain plug

Helical-bevel gearbox GKS 05 ... 14-3



Helical-bevel gearbox GKS 05 ... 14-4



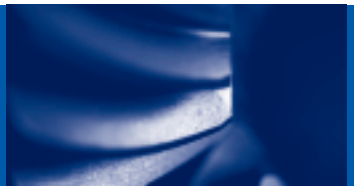
(A ... F) Mounting position

⊗ Ventilation/oil filler plug

● Oil drain plug

◒ Oil control plug

Pos. 1 or **2** depending on version (see table on page 6-7)



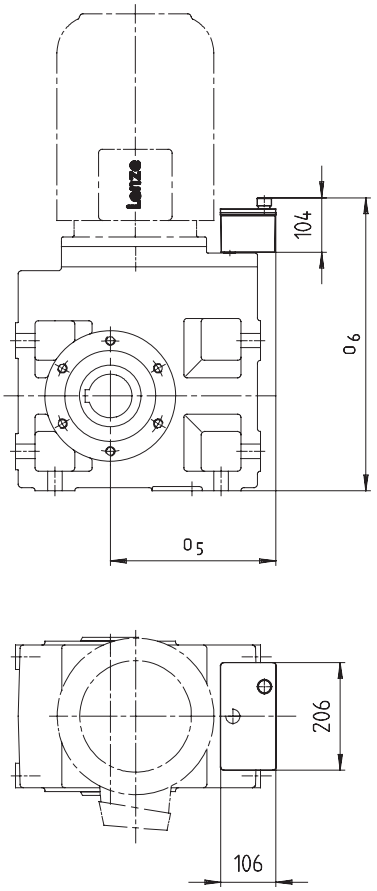
On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.
On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

Helical-bevel gearboxes

GKS	05	-3	M	□□□	090 100
			N	□□□	1D / 2D 1E / 2E / 3E
	06	-3	M	□□□	112
			W	□□□	1F
	07	-3	M	□□□	160
			N	□□□	1H/3H
		-4	M	□□□	090 100
			N	□□□	1D / 2D 1E / 2E / 3E
	09	-4	M	□□□	112
			W	□□□	1F

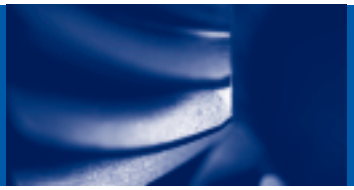
Reservoir for mounting position C

Helical-bevel gearboxes GKS



Helical-bevel gearbox		Motor frame size/ Drive size			
GKS□□ - 3 M		090 / 100	112	132 / 180	160 / 200 / 225
GKS□□ - 3 N		□D / □E / □F		□G / □H	□K
GKS□□ - 3 W		1E	1F / 1G		1H / 1K
09	o_5	245	267	288	303
	o_6	529	529	529	529
11	o_5	260	282	306	320
	o_6	622	626	626	626
14	o_5		315	345	345
	o_6		735	735	735

Terminal box position 4 not permitted.



Helical-bevel gearboxes GKS □□-3

Gearbox size	Geared motors GKS□□-3M **H□R** with motor frame size															
	063	071	080	090	100	112		132	160		180		200	225	
						C22/-31	C32/-41		-22	-32	-22	-32	N32	N12	N22
04	16	18	23	30											
05	26	28	33	40	47										
06	40	42	47	54	61	74	80								
07			73	80	87	99	105	132	176	196					
09				128	135	147	153	181	225	245	324	334	420		
11					235	246	252	279	323	343	422	432	518	570	640
14						417	423	447	491	511	590	600	685	737	807

Gearbox size	Gearbox with mounting flange for IEC motors GKS□□-3N **H□R** with drive size													Gearbox with free input shaft GKS□□-3W **H□R** with drive size								
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	2H	3H	1K	2K	1A	1B	1C	1D	1E	1F	1G	1H	1K
04	15	15	18	21										13	14	16						
05		25	28	31	33										24	25	27					
06		39	42	45	48	49										39	42	45	53			
07			68	71	73	75	98	95	106		102						67	71	79	84		
09				119	122	123	147	144	155	159	151	175						118	127	133	148	
11					221	222	245	242	253	257	249	273	280						226	231	246	261
14							413	410	421	425	417	440	447							399	414	428

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Observe extra weights on page 6-10!

Helical-bevel gearboxes GKS □□-4

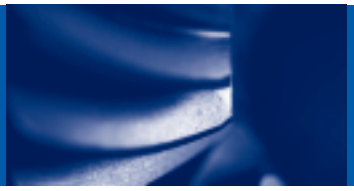
Gearbox size	Geared motors GKS□□-4M **H□R** with motor frame size											
	063	071	080	090	100	112		132	160		180	
						C22/-31	C32/-41		-22	-32	-22	-32
05	27	29	34	40								
06	44	46	51	57								
07	74	76	81	88	95							
09	127	129	134	141	148	161	167					
11			242	249	256	268	274	301	345	365		
14				434	441	453	459	487	531	551	586	596

Gearbox size	Gearbox with mounting flange for IEC motors GKS□□-4N **H□R** with drive size											Gearbox with free input shaft GKS□□-4W **H□R** with drive size							
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	2H	3H	1A	1B	1C	1D	1E	1F	1G	1H
05	25	26	29									24	24	26					
06	42	43	46	49								41	41	43					
07		73	76	79	81								72	73	75				
09		126	129	132	135	136								126	129	132	141		
11			237	240	242	244	267	264							236	240	248	253	
14				425	428	429	453	450	461	465	457					424	433	439	454

Extra weights

Gearbox size	Solid shaft **V□□**	2nd output shaft end **V□□**	Hollow shaft with shrink disk **S□□**	Flange **□□K**	Torque plate Housing foot	Torque plate Pitch circle
04	0.6	0.2	0.6	2.5	1.3	0.9
05	1	0.3	0.8	4	2.2	1.3
06	2.5	0.8	1	7	3.7	2.1
07	5	1.5	1.5	11	6.6	3.7
09	8	2.7	3	16	13	
11	16	6.3	5	24	23	
14	33	12	11	33	44	

Weights in [kg] with oil capacity for mounting position A. All data is approximate

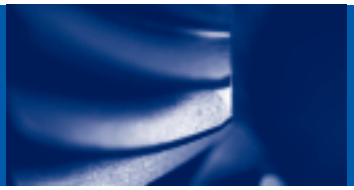


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.12 kW					**GKS □□ - 3M**	**6-94**
n1=1425	145	8	5.4	9.836	GKS04 - 3M□□□ 063C12	
	63	17	5.4	22.522	GKS04 - 3M□□□ 063C12	
	57	19	5.4	25.088	GKS04 - 3M□□□ 063C12	
	50	22	5.0	28.727	GKS04 - 3M□□□ 063C12	
	45	24	5.0	32.000	GKS04 - 3M□□□ 063C12	
	32	34	5.5	44.240	GKS04 - 3M□□□ 063C12	
	28	39	4.7	50.943	GKS04 - 3M□□□ 063C12	
	25	44	4.3	56.976	GKS04 - 3M□□□ 063C12	
	22	50	3.7	64.978	GKS04 - 3M□□□ 063C12	
	20	55	3.4	72.210	GKS04 - 3M□□□ 063C12	
	16	69	2.7	90.491	GKS04 - 3M□□□ 063C12	
	14	76	2.4	100.067	GKS04 - 3M□□□ 063C12	
	13	85	2.0	111.467	GKS04 - 3M□□□ 063C12	
	11	98	1.9	128.874	GKS04 - 3M□□□ 063C12	
	9.9	110	1.6	143.556	GKS04 - 3M□□□ 063C12	
	8.7	125	1.5	163.332	GKS04 - 3M□□□ 063C12	
	7.8	139	1.3	181.939	GKS04 - 3M□□□ 063C12	
	7.0	156	1.2	204.682	GKS04 - 3M□□□ 063C12	
	6.3	174	1.0	228.000	GKS04 - 3M□□□ 063C12	
	5.3	206	0.9	269.660	GKS04 - 3M□□□ 063C12	
					GKS □□ - 4M	**6-110**
	5.1	210	2.6	279.286	GKS06 - 4M□□□ 063C12	
	4.5	238	3.0	316.800	GKS06 - 4M□□□ 063C12	
	3.9	274	1.2	364.467	GKS05 - 4M□□□ 063C12	
	3.9	271	2.0	361.429	GKS06 - 4M□□□ 063C12	
	3.5	308	1.0	410.667	GKS05 - 4M□□□ 063C12	
	3.5	306	2.3	408.000	GKS06 - 4M□□□ 063C12	
	3.0	352	0.9	469.389	GKS05 - 4M□□□ 063C12	
	3.1	344	1.6	458.067	GKS06 - 4M□□□ 063C12	
	2.8	388	1.8	517.091	GKS06 - 4M□□□ 063C12	
	2.6	417	1.3	555.927	GKS06 - 4M□□□ 063C12	
	2.2	481	1.5	640.800	GKS06 - 4M□□□ 063C12	
	2.1	523	1.0	696.668	GKS06 - 4M□□□ 063C12	
	1.8	610	1.2	812.137	GKS06 - 4M□□□ 063C12	
	1.6	687	0.9	914.907	GKS06 - 4M□□□ 063C12	
	1.4	764	0.9	1017.741	GKS06 - 4M□□□ 063C12	
0.18 kW					**GKS □□ - 3M**	**6-94**
n1=2760	281	6	5.7	9.836	GKS04 - 3M□□□ 063-11	
	123	13	5.7	22.522	GKS04 - 3M□□□ 063-11	
	110	15	5.7	25.088	GKS04 - 3M□□□ 063-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GKS □□ - 3M**	**6-94**
n1=2760	96	17	5.3	28.727	GKS04 - 3M□□□ 063-11	
	86	19	5.3	32.000	GKS04 - 3M□□□ 063-11	
	54	30	5.6	50.943	GKS04 - 3M□□□ 063-11	
	48	34	5.1	56.976	GKS04 - 3M□□□ 063-11	
	43	38	4.4	64.978	GKS04 - 3M□□□ 063-11	
	38	43	4.1	72.210	GKS04 - 3M□□□ 063-11	
	31	54	3.3	90.491	GKS04 - 3M□□□ 063-11	
	28	59	2.9	100.067	GKS04 - 3M□□□ 063-11	
	25	66	2.6	111.467	GKS04 - 3M□□□ 063-11	
	21	76	2.5	128.874	GKS04 - 3M□□□ 063-11	
	19	85	2.0	143.556	GKS04 - 3M□□□ 063-11	
	17	97	2.0	163.332	GKS04 - 3M□□□ 063-11	
	15	108	1.6	181.939	GKS04 - 3M□□□ 063-11	
	14	121	1.6	204.682	GKS04 - 3M□□□ 063-11	
	12	135	1.3	228.000	GKS04 - 3M□□□ 063-11	
	10	160	1.2	269.660	GKS04 - 3M□□□ 063-11	
	9.2	178	1.0	300.381	GKS04 - 3M□□□ 063-11	
n1=1365	139	12	3.4	9.836	GKS04 - 3M□□□ 063C32	
	61	27	3.4	22.522	GKS04 - 3M□□□ 063C32	
	54	30	3.4	25.088	GKS04 - 3M□□□ 063C32	
	48	34	3.2	28.727	GKS04 - 3M□□□ 063C32	
	43	38	3.2	32.000	GKS04 - 3M□□□ 063C32	
	31	53	3.5	44.240	GKS04 - 3M□□□ 063C32	
	27	61	3.0	50.943	GKS04 - 3M□□□ 063C32	
	24	68	2.7	56.976	GKS04 - 3M□□□ 063C32	
	21	78	2.4	64.978	GKS04 - 3M□□□ 063C32	
	19	86	2.2	72.210	GKS04 - 3M□□□ 063C32	
	15	108	1.8	90.491	GKS04 - 3M□□□ 063C32	
	14	120	1.5	100.067	GKS04 - 3M□□□ 063C32	
	12	133	1.3	111.467	GKS04 - 3M□□□ 063C32	
	11	154	1.2	128.874	GKS04 - 3M□□□ 063C32	
	9.5	172	1.0	143.556	GKS04 - 3M□□□ 063C32	
	8.4	195	1.0	163.332	GKS04 - 3M□□□ 063C32	
n1=870	8.1 8.3	201 197	1.6 3.2	107.196 104.967	GKS05 - 3M□□□ 071-13 GKS06 - 3M□□□ 071-13	
	7.8 7.2	209 227	0.8 1.4	111.467 120.784	GKS04 - 3M□□□ 071-13 GKS05 - 3M□□□ 071-13	
	6.7 6.8	244 239	1.4 2.7	130.097 127.392	GKS05 - 3M□□□ 071-13 GKS06 - 3M□□□ 071-13	

Thermal power limit not considered (see page 2-4)

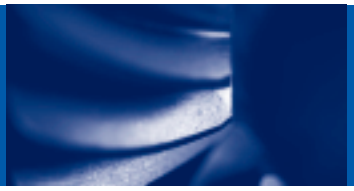


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GKS □□ - 3M**	**6-94**
n1=870	5.9	275	1.1	146.588	GKS05 - 3M□□□ 071-13	
	6.1	268	2.6	142.941	GKS06 - 3M□□□ 071-13	
	5.2	312	1.1	166.276	GKS05 - 3M□□□ 071-13	
	5.4	302	2.1	161.029	GKS06 - 3M□□□ 071-13	
	4.6	352	0.9	187.353	GKS05 - 3M□□□ 071-13	
	4.6	357	2.0	190.080	GKS06 - 3M□□□ 071-13	
	4.1	402	1.6	214.133	GKS06 - 3M□□□ 071-13	
	3.8	433	1.6	230.688	GKS06 - 3M□□□ 071-13	
	3.4	488	1.3	259.880	GKS06 - 3M□□□ 071-13	
	3.0	547	1.3	291.600	GKS06 - 3M□□□ 071-13	
	2.7	617	1.0	328.500	GKS06 - 3M□□□ 071-13	
					GKS □□ - 4M	**6-110**
n1=1365	7.4	218	1.5	185.547	GKS05 - 4M□□□ 063C32	
	7.8	205	2.6	174.336	GKS06 - 4M□□□ 063C32	
	6.5	246	1.3	209.067	GKS05 - 4M□□□ 063C32	
	6.0	266	0.9	225.867	GKS05 - 4M□□□ 063C32	
	6.1	264	2.0	224.524	GKS06 - 4M□□□ 063C32	
	5.8	278	1.2	236.667	GKS05 - 4M□□□ 063C32	
	4.9	328	1.6	279.286	GKS06 - 4M□□□ 063C32	
	4.3	373	1.9	316.800	GKS06 - 4M□□□ 063C32	
	3.8	425	1.3	361.429	GKS06 - 4M□□□ 063C32	
	3.4	480	1.5	408.000	GKS06 - 4M□□□ 063C32	
	3.0	539	1.0	458.067	GKS06 - 4M□□□ 063C32	
	2.6	608	1.2	517.091	GKS06 - 4M□□□ 063C32	
	2.5	654	0.8	555.927	GKS06 - 4M□□□ 063C32	
	2.1	753	0.9	640.800	GKS06 - 4M□□□ 063C32	
n1=870	2.1	753	0.9	408.000	GKS06 - 4M□□□ 071-13	
	1.9	857	1.2	464.367	GKS07 - 4M□□□ 071-13	
	1.7	953	1.4	516.810	GKS07 - 4M□□□ 071-13	
	1.5	1040	1.0	563.572	GKS07 - 4M□□□ 071-13	
	1.4	1174	1.1	636.581	GKS07 - 4M□□□ 071-13	
	1.3	1262	0.8	683.972	GKS07 - 4M□□□ 071-13	
	1.1	1520	0.9	823.810	GKS07 - 4M□□□ 071-13	
	1.1	1508	2.0	817.551	GKS09 - 4M□□□ 071-13	
	0.9	1700	1.8	921.367	GKS09 - 4M□□□ 071-13	
	0.9	1830	1.7	992.209	GKS09 - 4M□□□ 071-13	
	0.8	2063	1.5	1118.204	GKS09 - 4M□□□ 071-13	
	0.7	2314	1.3	1254.197	GKS09 - 4M□□□ 071-13	
	0.6	2608	1.2	1413.461	GKS09 - 4M□□□ 071-13	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GKS □□ - 3M**	**6-94**
n1=2760	281	8	4.1	9.836	GKS04 - 3M□□□ 063-31	
	123	19	4.1	22.522	GKS04 - 3M□□□ 063-31	
	110	21	4.1	25.088	GKS04 - 3M□□□ 063-31	
	96	24	3.8	28.727	GKS04 - 3M□□□ 063-31	
	86	26	3.8	32.000	GKS04 - 3M□□□ 063-31	
	62	36	4.7	44.240	GKS04 - 3M□□□ 063-31	
	54	42	4.0	50.943	GKS04 - 3M□□□ 063-31	
	48	47	3.7	56.976	GKS04 - 3M□□□ 063-31	
	43	53	3.2	64.978	GKS04 - 3M□□□ 063-31	
	38	59	3.0	72.210	GKS04 - 3M□□□ 063-31	
	31	74	2.4	90.491	GKS04 - 3M□□□ 063-31	
	28	82	2.1	100.067	GKS04 - 3M□□□ 063-31	
	25	92	1.9	111.467	GKS04 - 3M□□□ 063-31	
	21	106	1.8	128.874	GKS04 - 3M□□□ 063-31	
	19	118	1.5	143.556	GKS04 - 3M□□□ 063-31	
	17	134	1.4	163.332	GKS04 - 3M□□□ 063-31	
	15	150	1.2	181.939	GKS04 - 3M□□□ 063-31	
	14	168	1.1	204.682	GKS04 - 3M□□□ 063-31	
	12	187	0.9	228.000	GKS04 - 3M□□□ 063-31	
	10	222	0.9	269.660	GKS04 - 3M□□□ 063-31	
n1=1370	267	9	4.5	5.123	GKS04 - 3M□□□ 063C42	
	195	12	4.5	7.025	GKS04 - 3M□□□ 063C42	
	168	14	4.5	8.167	GKS04 - 3M□□□ 063C42	
	152	15	5.2	8.991	GKS04 - 3M□□□ 063C42	
	139	16	5.2	9.836	GKS04 - 3M□□□ 063C42	
	117	19	4.5	11.730	GKS04 - 3M□□□ 063C42	
	105	22	4.5	13.067	GKS04 - 3M□□□ 063C42	
	96	24	5.2	14.333	GKS04 - 3M□□□ 063C42	
	85	27	4.5	16.087	GKS04 - 3M□□□ 063C42	
	77	30	4.5	17.920	GKS04 - 3M□□□ 063C42	
	67	34	5.2	20.588	GKS04 - 3M□□□ 063C42	
	61	37	4.9	22.522	GKS04 - 3M□□□ 063C42	
	55	42	4.0	25.088	GKS04 - 3M□□□ 063C42	
	48	48	3.8	28.727	GKS04 - 3M□□□ 063C42	
	43	53	3.2	32.000	GKS04 - 3M□□□ 063C42	
	39	58	3.1	35.191	GKS04 - 3M□□□ 063C42	
	35	65	2.6	39.200	GKS04 - 3M□□□ 063C42	
	31	73	2.5	44.240	GKS04 - 3M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

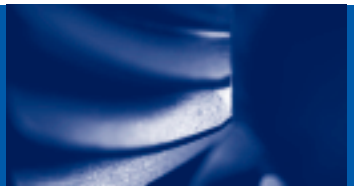


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GKS □□ - 3M**	**6-94**
n1=1370	27	84	2.2	50.943	GKS04 - 3M□□□ 063C42	
	24	94	2.0	56.976	GKS04 - 3M□□□ 063C42	
	21	108	1.7	64.978	GKS04 - 3M□□□ 063C42	
	21	110	3.0	66.592	GKS05 - 3M□□□ 063C42	
	19	120	1.6	72.210	GKS04 - 3M□□□ 063C42	
	18	124	2.5	75.033	GKS05 - 3M□□□ 063C42	
	17	132	1.4	79.598	GKS04 - 3M□□□ 063C42	
	17	137	2.4	82.833	GKS05 - 3M□□□ 063C42	
	15	150	1.2	90.491	GKS04 - 3M□□□ 063C42	
	15	155	2.0	93.333	GKS05 - 3M□□□ 063C42	
	14	166	1.1	100.067	GKS04 - 3M□□□ 063C42	
	13	177	1.9	107.196	GKS05 - 3M□□□ 063C42	
	12	185	0.9	111.467	GKS04 - 3M□□□ 063C42	
	11	200	1.6	120.784	GKS05 - 3M□□□ 063C42	
	12	187	3.2	113.082	GKS06 - 3M□□□ 063C42	
	11	213	0.9	128.874	GKS04 - 3M□□□ 063C42	
	11	215	1.5	130.097	GKS05 - 3M□□□ 063C42	
	11	211	3.0	127.392	GKS06 - 3M□□□ 063C42	
	9.4	243	1.3	146.588	GKS05 - 3M□□□ 063C42	
	9.6	237	2.6	142.941	GKS06 - 3M□□□ 063C42	
	8.2	275	1.2	166.276	GKS05 - 3M□□□ 063C42	
	8.5	267	2.4	161.029	GKS06 - 3M□□□ 063C42	
	7.3	310	1.0	187.353	GKS05 - 3M□□□ 063C42	
	7.2	315	2.2	190.080	GKS06 - 3M□□□ 063C42	
	6.5	350	0.9	211.200	GKS05 - 3M□□□ 063C42	
	6.4	354	1.8	214.133	GKS06 - 3M□□□ 063C42	
	5.9	382	1.8	230.688	GKS06 - 3M□□□ 063C42	
	5.3	430	1.5	259.880	GKS06 - 3M□□□ 063C42	
	4.7	483	1.5	291.600	GKS06 - 3M□□□ 063C42	
	4.2	544	1.2	328.500	GKS06 - 3M□□□ 063C42	
n1=920	4.0	569	1.2	230.688	GKS06 - 3M□□□ 071-33	
	3.5	641	1.0	259.880	GKS06 - 3M□□□ 071-33	
	3.2	719	1.0	291.600	GKS06 - 3M□□□ 071-33	
					GKS □□ - 4M	**6-110**
n1=1370	3.8	588	0.9	361.429	GKS06 - 4M□□□ 063C42	
	3.8	584	1.8	358.829	GKS07 - 4M□□□ 063C42	
	3.4	664	1.1	408.000	GKS06 - 4M□□□ 063C42	
	3.4	650	2.0	399.353	GKS07 - 4M□□□ 063C42	
	3.0	756	1.4	464.367	GKS07 - 4M□□□ 063C42	
	2.7	841	0.8	517.091	GKS06 - 4M□□□ 063C42	
	2.7	841	1.6	516.810	GKS07 - 4M□□□ 063C42	
	2.4	917	1.1	563.572	GKS07 - 4M□□□ 063C42	
	2.2	1036	1.3	636.581	GKS07 - 4M□□□ 063C42	
	2.0	1113	0.9	683.972	GKS07 - 4M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical-bevel geared motor	Dimensions Page
0.25 kW					**GKS □□ - 4M**	**6-110**
n1=1370	1.7	1340	1.0	823.810	GKS07 - 4M□□□ 063C42	
	1.7	1330	2.3	817.551	GKS09 - 4M□□□ 063C42	
	1.5	1510	0.8	928.237	GKS07 - 4M□□□ 063C42	
	1.5	1499	2.1	921.367	GKS09 - 4M□□□ 063C42	
	1.4	1627	0.8	999.806	GKS07 - 4M□□□ 063C42	
	1.4	1614	1.9	992.209	GKS09 - 4M□□□ 063C42	
	1.2	1819	1.7	1118.204	GKS09 - 4M□□□ 063C42	
	1.1	2041	1.5	1254.197	GKS09 - 4M□□□ 063C42	
	1.0	2300	1.3	1413.461	GKS09 - 4M□□□ 063C42	
n1=920	0.9	2404	1.3	992.209	GKS09 - 4M□□□ 071-33	
	0.8	2709	1.1	1118.204	GKS09 - 4M□□□ 071-33	
	0.7	3039	1.0	1254.197	GKS09 - 4M□□□ 071-33	
	0.7	3425	0.9	1413.461	GKS09 - 4M□□□ 071-33	
0.37 kW					**GKS □□ - 3M**	**6-94**
n1=2840	126	27	5.5	22.522	GKS04 - 3M□□□ 071-11	
	113	30	4.6	25.088	GKS04 - 3M□□□ 071-11	
	99	34	4.4	28.727	GKS04 - 3M□□□ 071-11	
	89	38	3.6	32.000	GKS04 - 3M□□□ 071-11	
	81	42	3.6	35.191	GKS04 - 3M□□□ 071-11	
	72	46	2.9	39.200	GKS04 - 3M□□□ 071-11	
	64	52	3.3	44.240	GKS04 - 3M□□□ 071-11	
	56	60	2.8	50.943	GKS04 - 3M□□□ 071-11	
	50	67	2.6	56.976	GKS04 - 3M□□□ 071-11	
	44	77	2.2	64.978	GKS04 - 3M□□□ 071-11	
	39	85	2.0	72.210	GKS04 - 3M□□□ 071-11	
	38	89	3.2	75.033	GKS05 - 3M□□□ 071-11	
	36	94	1.8	79.598	GKS04 - 3M□□□ 071-11	
	34	98	3.1	82.833	GKS05 - 3M□□□ 071-11	
	31	107	1.6	90.491	GKS04 - 3M□□□ 071-11	
	30	110	2.6	93.333	GKS05 - 3M□□□ 071-11	
	28	118	1.4	100.067	GKS04 - 3M□□□ 071-11	
	27	127	2.4	107.196	GKS05 - 3M□□□ 071-11	
	26	132	1.3	111.467	GKS04 - 3M□□□ 071-11	
	24	143	2.2	120.784	GKS05 - 3M□□□ 071-11	
	22	152	1.2	128.874	GKS04 - 3M□□□ 071-11	
	22	154	2.2	130.097	GKS05 - 3M□□□ 071-11	
	20	170	1.0	143.556	GKS04 - 3M□□□ 071-11	
	19	173	1.8	146.588	GKS05 - 3M□□□ 071-11	
	17	193	1.0	163.332	GKS04 - 3M□□□ 071-11	
	17	197	1.7	166.276	GKS05 - 3M□□□ 071-11	
	16	215	0.8	181.939	GKS04 - 3M□□□ 071-11	
	15	221	1.4	187.353	GKS05 - 3M□□□ 071-11	
	15	225	3.1	190.080	GKS06 - 3M□□□ 071-11	

Thermal power limit not considered (see page 2-4)

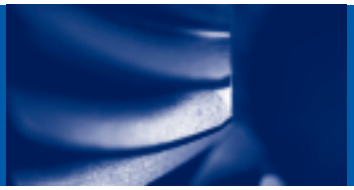


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GKS □□ - 3M**	**6-94**
n1=2840	13	250	1.3	211.200	GKS05 - 3M□□□ 071-11	
	13	253	2.5	214.133	GKS06 - 3M□□□ 071-11	
	13	269	1.0	227.484	GKS05 - 3M□□□ 071-11	
	12	273	2.6	230.688	GKS06 - 3M□□□ 071-11	
	11	303	1.0	256.320	GKS05 - 3M□□□ 071-11	
	11	307	2.1	259.880	GKS06 - 3M□□□ 071-11	
	9.8	344	0.8	290.745	GKS05 - 3M□□□ 071-11	
	9.7	345	2.0	291.600	GKS06 - 3M□□□ 071-11	
	8.7	387	0.8	327.600	GKS05 - 3M□□□ 071-11	
	8.7	388	1.6	328.500	GKS06 - 3M□□□ 071-11	
n1=1410	275	12	4.0	5.123	GKS04 - 3M□□□ 071C32	
	201	17	4.0	7.025	GKS04 - 3M□□□ 071C32	
	173	19	4.0	8.167	GKS04 - 3M□□□ 071C32	
	157	21	4.5	8.991	GKS04 - 3M□□□ 071C32	
	143	23	4.5	9.836	GKS04 - 3M□□□ 071C32	
	120	28	4.0	11.730	GKS04 - 3M□□□ 071C32	
	108	31	4.0	13.067	GKS04 - 3M□□□ 071C32	
	98	34	4.5	14.333	GKS04 - 3M□□□ 071C32	
	88	38	4.0	16.087	GKS04 - 3M□□□ 071C32	
	79	43	3.9	17.920	GKS04 - 3M□□□ 071C32	
	69	49	3.7	20.588	GKS04 - 3M□□□ 071C32	
	63	54	3.4	22.522	GKS04 - 3M□□□ 071C32	
	56	60	2.8	25.088	GKS04 - 3M□□□ 071C32	
	49	68	2.7	28.727	GKS04 - 3M□□□ 071C32	
	44	76	2.2	32.000	GKS04 - 3M□□□ 071C32	
	40	84	2.2	35.191	GKS04 - 3M□□□ 071C32	
	36	93	1.8	39.200	GKS04 - 3M□□□ 071C32	
	32	105	1.8	44.240	GKS04 - 3M□□□ 071C32	
	30	112	2.7	47.059	GKS05 - 3M□□□ 071C32	
	28	121	1.5	50.943	GKS04 - 3M□□□ 071C32	
	25	136	1.4	56.976	GKS04 - 3M□□□ 071C32	
	22	155	1.2	64.978	GKS04 - 3M□□□ 071C32	
	21	159	2.1	66.592	GKS05 - 3M□□□ 071C32	
	20	172	1.1	72.210	GKS04 - 3M□□□ 071C32	
	19	179	1.7	75.033	GKS05 - 3M□□□ 071C32	
	18	190	1.0	79.598	GKS04 - 3M□□□ 071C32	
	17	197	1.7	82.833	GKS05 - 3M□□□ 071C32	
	16	215	0.9	90.491	GKS04 - 3M□□□ 071C32	
	15	222	1.4	93.333	GKS05 - 3M□□□ 071C32	
	15	222	3.2	93.176	GKS06 - 3M□□□ 071C32	
	13	255	1.3	107.196	GKS05 - 3M□□□ 071C32	
	13	250	2.5	104.967	GKS06 - 3M□□□ 071C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GKS □□ - 3M**	**6-94**
n1=1410	12	288	1.1	120.784	GKS05 - 3M□□□ 071C32	
	13	269	2.6	113.082	GKS06 - 3M□□□ 071C32	
	11	310	1.1	130.097	GKS05 - 3M□□□ 071C32	
	11	303	2.1	127.392	GKS06 - 3M□□□ 071C32	
	9.6	349	0.9	146.588	GKS05 - 3M□□□ 071C32	
	9.9	340	2.1	142.941	GKS06 - 3M□□□ 071C32	
	8.5	396	0.8	166.276	GKS05 - 3M□□□ 071C32	
	8.8	383	1.7	161.029	GKS06 - 3M□□□ 071C32	
	7.4	452	1.6	190.080	GKS06 - 3M□□□ 071C32	
	6.6	510	1.2	214.133	GKS06 - 3M□□□ 071C32	
	6.1	549	1.3	230.688	GKS06 - 3M□□□ 071C32	
	5.4	619	1.0	259.880	GKS06 - 3M□□□ 071C32	
	4.8	694	1.0	291.600	GKS06 - 3M□□□ 071C32	
	4.3	782	0.8	328.500	GKS06 - 3M□□□ 071C32	
n1=900	3.9	860	0.8	230.688	GKS06 - 3M□□□ 080-13	
	4.0	835	1.6	224.037	GKS07 - 3M□□□ 080-13	
	3.6	941	1.3	252.436	GKS07 - 3M□□□ 080-13	
	3.2	1056	1.3	283.193	GKS07 - 3M□□□ 080-13	
	2.8	1190	1.0	319.091	GKS07 - 3M□□□ 080-13	
					GKS □□ - 4M	**6-110**
n1=1410	3.9	840	1.3	358.829	GKS07 - 4M□□□ 071C32	
	3.5	934	1.4	399.353	GKS07 - 4M□□□ 071C32	
	3.0	1087	1.0	464.367	GKS07 - 4M□□□ 071C32	
	2.7	1209	1.1	516.810	GKS07 - 4M□□□ 071C32	
	2.2	1489	0.9	636.581	GKS07 - 4M□□□ 071C32	
	1.7	1913	1.6	817.551	GKS09 - 4M□□□ 071C32	
	1.5	2156	1.4	921.367	GKS09 - 4M□□□ 071C32	
	1.4	2322	1.3	992.209	GKS09 - 4M□□□ 071C32	
	1.3	2616	1.2	1118.204	GKS09 - 4M□□□ 071C32	
	1.1	2935	1.0	1254.197	GKS09 - 4M□□□ 071C32	
	1.0	3307	0.9	1413.461	GKS09 - 4M□□□ 071C32	
n1=900	1.0	3377	0.9	921.367	GKS09 - 4M□□□ 080-13	
	1.0	3372	1.8	919.949	GKS11 - 4M□□□ 080-13	
	0.9	3637	0.8	992.209	GKS09 - 4M□□□ 080-13	
	0.9	3632	1.6	990.879	GKS11 - 4M□□□ 080-13	
	0.8	4093	1.5	1116.484	GKS11 - 4M□□□ 080-13	
	0.7	4591	1.3	1252.516	GKS11 - 4M□□□ 080-13	
	0.6	5173	1.2	1411.286	GKS11 - 4M□□□ 080-13	

Thermal power limit not considered (see page 2-4)

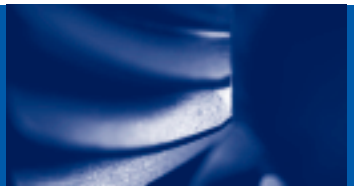


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GKS □□ - 3M**	**6-94**
n1=2840	554	9	4.3	5.123	GKS04 - 3M□□□ 071-31	
	404	12	4.3	7.025	GKS04 - 3M□□□ 071-31	
	348	14	4.3	8.167	GKS04 - 3M□□□ 071-31	
	316	16	5.0	8.991	GKS04 - 3M□□□ 071-31	
	289	17	5.0	9.836	GKS04 - 3M□□□ 071-31	
	242	21	4.3	11.730	GKS04 - 3M□□□ 071-31	
	217	23	4.3	13.067	GKS04 - 3M□□□ 071-31	
	198	25	5.0	14.333	GKS04 - 3M□□□ 071-31	
	177	28	4.3	16.087	GKS04 - 3M□□□ 071-31	
	159	32	4.3	17.920	GKS04 - 3M□□□ 071-31	
	138	36	4.1	20.588	GKS04 - 3M□□□ 071-31	
	126	40	3.7	22.522	GKS04 - 3M□□□ 071-31	
	113	44	3.1	25.088	GKS04 - 3M□□□ 071-31	
	99	51	2.9	28.727	GKS04 - 3M□□□ 071-31	
	89	56	2.4	32.000	GKS04 - 3M□□□ 071-31	
	81	62	2.4	35.191	GKS04 - 3M□□□ 071-31	
	72	69	2.0	39.200	GKS04 - 3M□□□ 071-31	
	64	78	2.2	44.240	GKS04 - 3M□□□ 071-31	
	56	90	1.9	50.943	GKS04 - 3M□□□ 071-31	
	50	100	1.7	56.976	GKS04 - 3M□□□ 071-31	
	44	114	1.5	64.978	GKS04 - 3M□□□ 071-31	
	43	117	2.6	66.592	GKS05 - 3M□□□ 071-31	
	39	127	1.4	72.210	GKS04 - 3M□□□ 071-31	
	38	132	2.2	75.033	GKS05 - 3M□□□ 071-31	
	36	140	1.2	79.598	GKS04 - 3M□□□ 071-31	
	34	146	2.1	82.833	GKS05 - 3M□□□ 071-31	
	31	159	1.1	90.491	GKS04 - 3M□□□ 071-31	
	30	164	1.8	93.333	GKS05 - 3M□□□ 071-31	
	28	176	1.0	100.067	GKS04 - 3M□□□ 071-31	
	27	188	1.6	107.196	GKS05 - 3M□□□ 071-31	
	27	184	3.2	104.967	GKS06 - 3M□□□ 071-31	
	26	196	0.9	111.467	GKS04 - 3M□□□ 071-31	
	24	212	1.5	120.784	GKS05 - 3M□□□ 071-31	
	22	226	0.8	128.874	GKS04 - 3M□□□ 071-31	
	22	229	1.4	130.097	GKS05 - 3M□□□ 071-31	
	22	224	2.8	127.392	GKS06 - 3M□□□ 071-31	
	19	258	1.2	146.588	GKS05 - 3M□□□ 071-31	
	20	251	2.8	142.941	GKS06 - 3M□□□ 071-31	
	17	292	1.1	166.276	GKS05 - 3M□□□ 071-31	
	18	283	2.2	161.029	GKS06 - 3M□□□ 071-31	
	15	329	1.0	187.353	GKS05 - 3M□□□ 071-31	
	15	334	2.1	190.080	GKS06 - 3M□□□ 071-31	
	13	371	0.8	211.200	GKS05 - 3M□□□ 071-31	
	13	376	1.7	214.133	GKS06 - 3M□□□ 071-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GKS □□ - 3M**	**6-94**
n1=2840	12	405	1.7	230.688	GKS06 - 3M□□□ 071-31	
	11	457	1.4	259.880	GKS06 - 3M□□□ 071-31	
	9.7	512	1.4	291.600	GKS06 - 3M□□□ 071-31	
	8.7	577	1.1	328.500	GKS06 - 3M□□□ 071-31	
n1=1405	274	18	4.4	5.123	GKS04 - 3M□□□ 071C42	
	200	25	3.7	7.025	GKS04 - 3M□□□ 071C42	
	172	29	4.4	8.167	GKS04 - 3M□□□ 071C42	
	156	32	3.2	8.991	GKS04 - 3M□□□ 071C42	
	143	35	3.0	9.836	GKS04 - 3M□□□ 071C42	
	120	42	4.3	11.730	GKS04 - 3M□□□ 071C42	
	107	47	3.5	13.176	GKS05 - 3M□□□ 071C42	
	98	51	3.2	14.333	GKS04 - 3M□□□ 071C42	
	87	57	3.2	16.087	GKS04 - 3M□□□ 071C42	
	78	64	2.6	17.920	GKS04 - 3M□□□ 071C42	
	68	73	2.5	20.588	GKS04 - 3M□□□ 071C42	
	62	80	2.3	22.522	GKS04 - 3M□□□ 071C42	
	56	89	1.9	25.088	GKS04 - 3M□□□ 071C42	
	49 47	102 106	1.8 3.1	28.727 29.931	GKS04 - 3M□□□ 071C42 GKS05 - 3M□□□ 071C42	
	44 43	114 116	1.5 2.8	32.000 32.744	GKS04 - 3M□□□ 071C42 GKS05 - 3M□□□ 071C42	
	40 38	125 131	1.5 2.3	35.191 36.894	GKS04 - 3M□□□ 071C42 GKS05 - 3M□□□ 071C42	
	36 34	139 148	1.2 2.2	39.200 41.765	GKS04 - 3M□□□ 071C42 GKS05 - 3M□□□ 071C42	
	32 30	157 167	1.2 1.8	44.240 47.059	GKS04 - 3M□□□ 071C42 GKS05 - 3M□□□ 071C42	
	28 28	181 182	1.0 1.8	50.943 51.162	GKS04 - 3M□□□ 071C42 GKS05 - 3M□□□ 071C42	
	25 24	202 205	0.9 1.5	56.976 57.647	GKS04 - 3M□□□ 071C42 GKS05 - 3M□□□ 071C42	
	21 22	236 232	1.4 2.7	66.592 65.207	GKS05 - 3M□□□ 071C42 GKS06 - 3M□□□ 071C42	
	19 20	266 256	1.2 2.7	75.033 72.000	GKS05 - 3M□□□ 071C42 GKS06 - 3M□□□ 071C42	
	17 17	294 288	1.1 2.2	82.833 81.111	GKS05 - 3M□□□ 071C42 GKS06 - 3M□□□ 071C42	
	15 15	331 331	1.0 2.1	93.333 93.176	GKS05 - 3M□□□ 071C42 GKS06 - 3M□□□ 071C42	
	13 13	381 373	0.9 1.7	107.196 104.967	GKS05 - 3M□□□ 071C42 GKS06 - 3M□□□ 071C42	
	12	402	1.7	113.082	GKS06 - 3M□□□ 071C42	
	11	452	1.4	127.392	GKS06 - 3M□□□ 071C42	

Thermal power limit not considered (see page 2-4)

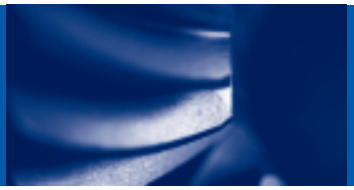


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GKS □□ - 3M**	**6-94**
n1=1405	9.8	508	1.4	142.941	GKS06 - 3M□□□ 071C42	
	8.7	572	1.1	161.029	GKS06 - 3M□□□ 071C42	
	7.4	675	1.0	190.080	GKS06 - 3M□□□ 071C42	
	6.6	760	0.8	214.133	GKS06 - 3M□□□ 071C42	
	6.1	819	0.9	230.688	GKS06 - 3M□□□ 071C42	
n1=900	4.9	1023	1.3	184.600	GKS07 - 3M□□□ 080-33	
	4.3	1153	1.1	208.000	GKS07 - 3M□□□ 080-33	
	4.0	1242	1.1	224.037	GKS07 - 3M□□□ 080-33	
	3.6	1399	0.9	252.436	GKS07 - 3M□□□ 080-33	
	3.2	1570	0.8	283.193	GKS07 - 3M□□□ 080-33	
					GKS □□ - 4M	**6-110**
n1=1405	5.7	861	1.5	246.659	GKS07 - 4M□□□ 071C42	
	5.1	954	1.1	273.199	GKS07 - 4M□□□ 071C42	
	4.4	1121	1.2	321.049	GKS07 - 4M□□□ 071C42	
	4.3	1129	2.7	323.365	GKS09 - 4M□□□ 071C42	
	3.9	1252	0.8	358.829	GKS07 - 4M□□□ 071C42	
	3.9	1272	2.4	364.427	GKS09 - 4M□□□ 071C42	
	3.5	1394	0.9	399.353	GKS07 - 4M□□□ 071C42	
	3.5	1404	2.2	402.234	GKS09 - 4M□□□ 071C42	
	3.1	1582	1.9	453.311	GKS09 - 4M□□□ 071C42	
	2.7	1817	1.7	520.538	GKS09 - 4M□□□ 071C42	
	2.4	2048	1.5	586.638	GKS09 - 4M□□□ 071C42	
	2.2	2205	1.4	631.744	GKS09 - 4M□□□ 071C42	
	2.0	2485	1.2	711.965	GKS09 - 4M□□□ 071C42	
	1.7	2854	1.1	817.551	GKS09 - 4M□□□ 071C42	
	1.5	3216	1.0	921.367	GKS09 - 4M□□□ 071C42	
	1.4	3463	0.9	992.209	GKS09 - 4M□□□ 071C42	
n1=900	1.4	3442	0.9	631.744	GKS09 - 4M□□□ 080-33	
	1.1	4449	1.3	816.455	GKS11 - 4M□□□ 080-33	
	1.0	5013	1.2	919.949	GKS11 - 4M□□□ 080-33	
	0.9	5399	1.1	990.879	GKS11 - 4M□□□ 080-33	
	0.8	6084	1.0	1116.484	GKS11 - 4M□□□ 080-33	
	0.7	6825	0.9	1252.516	GKS11 - 4M□□□ 080-33	
0.75 kW					**GKS □□ - 3M**	**6-94**
n1=2850	556	12	5.3	5.123	GKS04 - 3M□□□ 080-11	
	406	17	4.5	7.025	GKS04 - 3M□□□ 080-11	
	349	20	5.3	8.167	GKS04 - 3M□□□ 080-11	
	317	22	3.9	8.991	GKS04 - 3M□□□ 080-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GKS □□ - 3M**	**6-94**
n1=2850	290	24	3.7	9.836	GKS04 - 3M□□□ 080-11	
	243	28	5.2	11.730	GKS04 - 3M□□□ 080-11	
	216	32	4.2	13.176	GKS05 - 3M□□□ 080-11	
	199	34	3.9	14.333	GKS04 - 3M□□□ 080-11	
	177	38	3.8	16.087	GKS04 - 3M□□□ 080-11	
	159	43	3.1	17.920	GKS04 - 3M□□□ 080-11	
	138	49	3.0	20.588	GKS04 - 3M□□□ 080-11	
	127	54	2.7	22.522	GKS04 - 3M□□□ 080-11	
	114	60	2.3	25.088	GKS04 - 3M□□□ 080-11	
	99	69	2.2	28.727	GKS04 - 3M□□□ 080-11	
	89	76	1.8	32.000	GKS04 - 3M□□□ 080-11	
	81	84	1.8	35.191	GKS04 - 3M□□□ 080-11	
	77	88	2.8	36.894	GKS05 - 3M□□□ 080-11	
	73	94	1.5	39.200	GKS04 - 3M□□□ 080-11	
	68	100	2.7	41.765	GKS05 - 3M□□□ 080-11	
	64	106	1.6	44.240	GKS04 - 3M□□□ 080-11	
	61	112	2.5	47.059	GKS05 - 3M□□□ 080-11	
	56	122	1.4	50.943	GKS04 - 3M□□□ 080-11	
	56	122	2.5	51.162	GKS05 - 3M□□□ 080-11	
	50	136	1.3	56.976	GKS04 - 3M□□□ 080-11	
	49	138	2.0	57.647	GKS05 - 3M□□□ 080-11	
	44	155	1.1	64.978	GKS04 - 3M□□□ 080-11	
	43	159	1.9	66.592	GKS05 - 3M□□□ 080-11	
	38	179	1.6	75.033	GKS05 - 3M□□□ 080-11	
	36	190	0.9	79.598	GKS04 - 3M□□□ 080-11	
	34	198	1.5	82.833	GKS05 - 3M□□□ 080-11	
	35	194	3.0	81.111	GKS06 - 3M□□□ 080-11	
	31	223	1.3	93.333	GKS05 - 3M□□□ 080-11	
	31	222	2.9	93.176	GKS06 - 3M□□□ 080-11	
	27	256	1.2	107.196	GKS05 - 3M□□□ 080-11	
	27	251	2.3	104.967	GKS06 - 3M□□□ 080-11	
	24	288	1.1	120.784	GKS05 - 3M□□□ 080-11	
	25	270	2.6	113.082	GKS06 - 3M□□□ 080-11	
	22	311	1.1	130.097	GKS05 - 3M□□□ 080-11	
	22	304	2.1	127.392	GKS06 - 3M□□□ 080-11	
	19	350	0.9	146.588	GKS05 - 3M□□□ 080-11	
	20	341	2.1	142.941	GKS06 - 3M□□□ 080-11	
	18	384	1.7	161.029	GKS06 - 3M□□□ 080-11	
	15	454	1.5	190.080	GKS06 - 3M□□□ 080-11	
	15	441	3.0	184.600	GKS07 - 3M□□□ 080-11	
	13	511	1.2	214.133	GKS06 - 3M□□□ 080-11	
	14	497	2.4	208.000	GKS07 - 3M□□□ 080-11	
	12	551	1.3	230.688	GKS06 - 3M□□□ 080-11	
	13	535	2.5	224.037	GKS07 - 3M□□□ 080-11	
	11	620	1.0	259.880	GKS06 - 3M□□□ 080-11	
	11	603	2.0	252.436	GKS07 - 3M□□□ 080-11	

Thermal power limit not considered (see page 2-4)

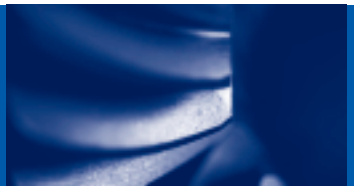


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GKS □□ - 3M**	**6-94**
n1=2850	9.8	696	1.0	291.600	GKS06 - 3M□□□ 080-11	
	10	676	2.0	283.193	GKS07 - 3M□□□ 080-11	
	8.7	784	0.8	328.500	GKS06 - 3M□□□ 080-11	
	8.9	762	1.6	319.091	GKS07 - 3M□□□ 080-11	
n1=1410	275	25	3.3	5.123	GKS04 - 3M□□□ 080C32	
	201	34	2.7	7.025	GKS04 - 3M□□□ 080C32	
	173	39	3.3	8.167	GKS04 - 3M□□□ 080C32	
	157	43	2.4	8.991	GKS04 - 3M□□□ 080C32	
	143	48	2.2	9.836	GKS04 - 3M□□□ 080C32	
	120	57	3.2	11.730	GKS04 - 3M□□□ 080C32	
	107	64	2.6	13.176	GKS05 - 3M□□□ 080C32	
	108	63	2.6	13.067	GKS04 - 3M□□□ 080C32	
	98	69	2.4	14.333	GKS04 - 3M□□□ 080C32	
	88	78	2.3	16.087	GKS04 - 3M□□□ 080C32	
	79	87	1.9	17.920	GKS04 - 3M□□□ 080C32	
	69	99	1.8	20.588	GKS04 - 3M□□□ 080C32	
	63	109	1.7	22.522	GKS04 - 3M□□□ 080C32	
	56	121	1.4	25.088	GKS04 - 3M□□□ 080C32	
	49	139	1.3	28.727	GKS04 - 3M□□□ 080C32	
	47	144	2.3	29.931	GKS05 - 3M□□□ 080C32	
	44	154	1.1	32.000	GKS04 - 3M□□□ 080C32	
	43	158	2.1	32.744	GKS05 - 3M□□□ 080C32	
	40	170	1.1	35.191	GKS04 - 3M□□□ 080C32	
	38	178	1.7	36.894	GKS05 - 3M□□□ 080C32	
	36	189	0.9	39.200	GKS04 - 3M□□□ 080C32	
	34	202	1.6	41.765	GKS05 - 3M□□□ 080C32	
	32	213	0.9	44.240	GKS04 - 3M□□□ 080C32	
	30	227	1.3	47.059	GKS05 - 3M□□□ 080C32	
	28	247	1.3	51.162	GKS05 - 3M□□□ 080C32	
	25	278	1.1	57.647	GKS05 - 3M□□□ 080C32	
	24	279	2.5	57.882	GKS06 - 3M□□□ 080C32	
	21	321	1.0	66.592	GKS05 - 3M□□□ 080C32	
	22	315	2.0	65.207	GKS06 - 3M□□□ 080C32	
	19	362	0.9	75.033	GKS05 - 3M□□□ 080C32	
	20	347	2.0	72.000	GKS06 - 3M□□□ 080C32	
	17	400	0.8	82.833	GKS05 - 3M□□□ 080C32	
	17	391	1.6	81.111	GKS06 - 3M□□□ 080C32	
	15	450	1.6	93.176	GKS06 - 3M□□□ 080C32	
	15	447	2.9	92.563	GKS07 - 3M□□□ 080C32	
	13	506	1.3	104.967	GKS06 - 3M□□□ 080C32	
	14	503	2.4	104.296	GKS07 - 3M□□□ 080C32	
	13	546	1.3	113.082	GKS06 - 3M□□□ 080C32	
	13	542	2.5	112.338	GKS07 - 3M□□□ 080C32	
	11	615	1.0	127.392	GKS06 - 3M□□□ 080C32	
	11	611	2.0	126.578	GKS07 - 3M□□□ 080C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GKS □□ - 3M**	**6-94**
n1=1410	9.9	690	1.0	142.941	GKS06 - 3M□□□ 080C32	
	8.8	777	0.8	161.029	GKS06 - 3M□□□ 080C32	
	7.6	891	1.5	184.600	GKS07 - 3M□□□ 080C32	
	6.8	1004	1.2	208.000	GKS07 - 3M□□□ 080C32	
	6.3	1081	1.2	224.037	GKS07 - 3M□□□ 080C32	
	5.6	1218	1.0	252.436	GKS07 - 3M□□□ 080C32	
	5.0	1366	1.0	283.193	GKS07 - 3M□□□ 080C32	
					GKS □□ - 4M	**6-110**
	4.4	1523	0.9	321.049	GKS07 - 4M□□□ 080C32	
	4.4	1534	2.0	323.365	GKS09 - 4M□□□ 080C32	
	3.9	1728	1.8	364.427	GKS09 - 4M□□□ 080C32	
	3.5	1908	1.6	402.234	GKS09 - 4M□□□ 080C32	
	3.1	2150	1.4	453.311	GKS09 - 4M□□□ 080C32	
	2.7	2469	1.2	520.538	GKS09 - 4M□□□ 080C32	
	2.4	2782	1.1	586.638	GKS09 - 4M□□□ 080C32	
	2.2	2996	1.0	631.744	GKS09 - 4M□□□ 080C32	
	2.0	3377	0.9	711.965	GKS09 - 4M□□□ 080C32	
	1.7	3872	1.5	816.455	GKS11 - 4M□□□ 080C32	
	1.5	4363	1.4	919.949	GKS11 - 4M□□□ 080C32	
	1.4	4700	1.3	990.879	GKS11 - 4M□□□ 080C32	
	1.3	5295	1.1	1116.484	GKS11 - 4M□□□ 080C32	
	1.1	5940	1.0	1252.516	GKS11 - 4M□□□ 080C32	
	1.0	6693	0.9	1411.286	GKS11 - 4M□□□ 080C32	
1.1 kW					**GKS □□ - 3M**	**6-94**
n1=2810	549	18	3.6	5.123	GKS04 - 3M□□□ 080-31	
	400	25	3.0	7.025	GKS04 - 3M□□□ 080-31	
	344	29	3.6	8.167	GKS04 - 3M□□□ 080-31	
	313	32	2.6	8.991	GKS04 - 3M□□□ 080-31	
	286	35	2.5	9.836	GKS04 - 3M□□□ 080-31	
	240	42	3.5	11.730	GKS04 - 3M□□□ 080-31	
	213	47	2.9	13.176	GKS05 - 3M□□□ 080-31	
	215	46	2.9	13.067	GKS04 - 3M□□□ 080-31	
	196	51	2.6	14.333	GKS04 - 3M□□□ 080-31	
	175	57	2.6	16.087	GKS04 - 3M□□□ 080-31	
	157	64	2.1	17.920	GKS04 - 3M□□□ 080-31	
	137	73	2.0	20.588	GKS04 - 3M□□□ 080-31	
	125	80	1.8	22.522	GKS04 - 3M□□□ 080-31	
	112	89	1.5	25.088	GKS04 - 3M□□□ 080-31	
	98	102	1.5	28.727	GKS04 - 3M□□□ 080-31	
	94	106	2.5	29.931	GKS05 - 3M□□□ 080-31	

Thermal power limit not considered (see page 2-4)

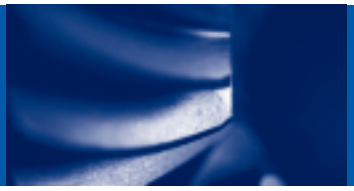


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GKS □□ - 3M**	**6-94**
n1=2810	88	114	1.2	32.000	GKS04 - 3M□□□ 080-31	
	86	116	2.3	32.744	GKS05 - 3M□□□ 080-31	
	80	125	1.2	35.191	GKS04 - 3M□□□ 080-31	
	76	131	1.9	36.894	GKS05 - 3M□□□ 080-31	
	72	139	1.0	39.200	GKS04 - 3M□□□ 080-31	
	67	148	1.8	41.765	GKS05 - 3M□□□ 080-31	
	64	157	1.1	44.240	GKS04 - 3M□□□ 080-31	
	60	167	1.7	47.059	GKS05 - 3M□□□ 080-31	
	55	181	0.9	50.943	GKS04 - 3M□□□ 080-31	
	55	182	1.7	51.162	GKS05 - 3M□□□ 080-31	
	49	202	0.9	56.976	GKS04 - 3M□□□ 080-31	
	49	205	1.4	57.647	GKS05 - 3M□□□ 080-31	
	49	206	3.1	57.882	GKS06 - 3M□□□ 080-31	
	42	236	1.3	66.592	GKS05 - 3M□□□ 080-31	
	43	232	2.5	65.207	GKS06 - 3M□□□ 080-31	
	38	266	1.1	75.033	GKS05 - 3M□□□ 080-31	
	39	256	2.5	72.000	GKS06 - 3M□□□ 080-31	
	34	294	1.0	82.833	GKS05 - 3M□□□ 080-31	
	35	288	2.0	81.111	GKS06 - 3M□□□ 080-31	
	30	331	0.9	93.333	GKS05 - 3M□□□ 080-31	
	30	331	2.0	93.176	GKS06 - 3M□□□ 080-31	
	26	381	0.8	107.196	GKS05 - 3M□□□ 080-31	
	27	373	1.6	104.967	GKS06 - 3M□□□ 080-31	
	27	370	3.0	104.296	GKS07 - 3M□□□ 080-31	
	25	402	1.7	113.082	GKS06 - 3M□□□ 080-31	
	22	452	1.4	127.392	GKS06 - 3M□□□ 080-31	
	22	449	2.7	126.578	GKS07 - 3M□□□ 080-31	
	20	508	1.4	142.941	GKS06 - 3M□□□ 080-31	
	18	572	1.1	161.029	GKS06 - 3M□□□ 080-31	
	15	675	1.0	190.080	GKS06 - 3M□□□ 080-31	
	15	656	2.0	184.600	GKS07 - 3M□□□ 080-31	
	13	760	0.8	214.133	GKS06 - 3M□□□ 080-31	
	14	739	1.6	208.000	GKS07 - 3M□□□ 080-31	
	12	819	0.9	230.688	GKS06 - 3M□□□ 080-31	
	13	796	1.7	224.037	GKS07 - 3M□□□ 080-31	
	11	896	1.4	252.436	GKS07 - 3M□□□ 080-31	
	9.9	1006	1.3	283.193	GKS07 - 3M□□□ 080-31	
	8.8	1133	1.1	319.091	GKS07 - 3M□□□ 080-31	
n1=1390	271	37	2.2	5.123	GKS04 - 3M□□□ 080C42	
	198	50	1.8	7.025	GKS04 - 3M□□□ 080C42	
	203	49	3.0	6.863	GKS05 - 3M□□□ 080C42	
	170	59	2.2	8.167	GKS04 - 3M□□□ 080C42	
	155	65	1.6	8.991	GKS04 - 3M□□□ 080C42	
	148	68	2.4	9.412	GKS05 - 3M□□□ 080C42	
	141	71	1.5	9.836	GKS04 - 3M□□□ 080C42	
	132	76	3.0	10.569	GKS05 - 3M□□□ 080C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GKS □□ - 3M**	**6-94**
n1=1390	119	84	2.1	11.730	GKS04 - 3M□□□ 080C42	
	119	84	3.0	11.667	GKS05 - 3M□□□ 080C42	
	106	95	1.7	13.176	GKS05 - 3M□□□ 080C42	
	106	94	1.8	13.067	GKS04 - 3M□□□ 080C42	
	97	103	1.6	14.333	GKS04 - 3M□□□ 080C42	
	96	104	2.4	14.494	GKS05 - 3M□□□ 080C42	
	86	116	1.6	16.087	GKS04 - 3M□□□ 080C42	
	87	115	2.4	16.000	GKS05 - 3M□□□ 080C42	
	78	129	1.3	17.920	GKS04 - 3M□□□ 080C42	
	82	122	2.6	17.054	GKS05 - 3M□□□ 080C42	
	68	148	1.2	20.588	GKS04 - 3M□□□ 080C42	
	72	138	2.2	19.216	GKS05 - 3M□□□ 080C42	
	62	162	1.1	22.522	GKS04 - 3M□□□ 080C42	
	59	168	2.0	23.388	GKS05 - 3M□□□ 080C42	
	53	189	1.6	26.353	GKS05 - 3M□□□ 080C42	
	55	180	0.9	25.088	GKS04 - 3M□□□ 080C42	
	48	206	0.9	28.727	GKS04 - 3M□□□ 080C42	
	46	215	1.5	29.931	GKS05 - 3M□□□ 080C42	
	43	235	1.4	32.744	GKS05 - 3M□□□ 080C42	
	43	230	2.7	32.063	GKS06 - 3M□□□ 080C42	
	38	265	1.1	36.894	GKS05 - 3M□□□ 080C42	
	38	261	2.6	36.303	GKS06 - 3M□□□ 080C42	
	33	300	1.1	41.765	GKS05 - 3M□□□ 080C42	
	30	338	0.9	47.059	GKS05 - 3M□□□ 080C42	
	31	319	2.2	44.471	GKS06 - 3M□□□ 080C42	
	27	367	0.9	51.162	GKS05 - 3M□□□ 080C42	
	26	381	1.8	53.074	GKS06 - 3M□□□ 080C42	
	24	416	1.7	57.882	GKS06 - 3M□□□ 080C42	
	24	413	3.2	57.501	GKS07 - 3M□□□ 080C42	
	21	468	1.3	65.207	GKS06 - 3M□□□ 080C42	
	22	465	2.6	64.790	GKS07 - 3M□□□ 080C42	
	19	517	1.4	72.000	GKS06 - 3M□□□ 080C42	
	20	506	2.6	70.474	GKS07 - 3M□□□ 080C42	
	17	582	1.1	81.111	GKS06 - 3M□□□ 080C42	
	18	570	2.1	79.407	GKS07 - 3M□□□ 080C42	
	15	669	1.1	93.176	GKS06 - 3M□□□ 080C42	
	15	664	2.0	92.563	GKS07 - 3M□□□ 080C42	
	13	754	0.8	104.967	GKS06 - 3M□□□ 080C42	
	13	749	1.6	104.296	GKS07 - 3M□□□ 080C42	
	12	812	0.9	113.082	GKS06 - 3M□□□ 080C42	
	12	806	1.6	112.338	GKS07 - 3M□□□ 080C42	
	11	909	1.3	126.578	GKS07 - 3M□□□ 080C42	
	9.9	1009	1.3	140.548	GKS07 - 3M□□□ 080C42	
	8.8	1137	1.1	158.364	GKS07 - 3M□□□ 080C42	
	7.5	1325	1.0	184.600	GKS07 - 3M□□□ 080C42	
	6.7	1493	0.8	208.000	GKS07 - 3M□□□ 080C42	
	6.2	1608	0.8	224.037	GKS07 - 3M□□□ 080C42	

Thermal power limit not considered (see page 2-4)

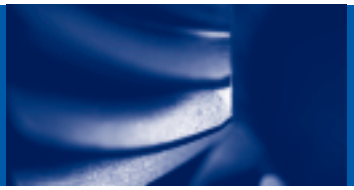


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GKS □□ - 4M**	**6-110**
n1=1390	6.0	1627	1.9	230.577	GKS09 - 4M□□□ 080C42	
	5.6	1753	1.7	248.439	GKS09 - 4M□□□ 080C42	
	5.0	1976	1.6	279.986	GKS09 - 4M□□□ 080C42	
	4.3 4.3	2282 2279	1.3 2.6	323.365 322.931	GKS09 - 4M□□□ 080C42 GKS11 - 4M□□□ 080C42	
	3.8 3.8	2571 2568	1.2 2.3	364.427 363.866	GKS09 - 4M□□□ 080C42 GKS11 - 4M□□□ 080C42	
	3.5 3.5	2838 2793	1.1 2.1	402.234 395.787	GKS09 - 4M□□□ 080C42 GKS11 - 4M□□□ 080C42	
	3.1 3.1	3199 3147	1.0 1.9	453.311 445.958	GKS09 - 4M□□□ 080C42 GKS11 - 4M□□□ 080C42	
	2.7 2.7	3673 3614	0.8 1.7	520.538 512.196	GKS09 - 4M□□□ 080C42 GKS11 - 4M□□□ 080C42	
	2.4	4072	1.5	577.122	GKS11 - 4M□□□ 080C42	
	2.2	4386	1.4	621.619	GKS11 - 4M□□□ 080C42	
	2.0	4942	1.2	700.416	GKS11 - 4M□□□ 080C42	
	1.7	5761	1.0	816.455	GKS11 - 4M□□□ 080C42	
	1.5	6491	0.9	919.949	GKS11 - 4M□□□ 080C42	
	1.4	6992	0.9	990.879	GKS11 - 4M□□□ 080C42	
1.5 kW					**GKS □□ - 3M**	**6-94**
n1=2840	554	25	2.7	5.123	GKS04 - 3M□□□ 090-11	
	404	34	2.2	7.025	GKS04 - 3M□□□ 090-11	
	348	39	2.7	8.167	GKS04 - 3M□□□ 090-11	
	316 302	43 45	1.9 3.0	8.991 9.412	GKS04 - 3M□□□ 090-11 GKS05 - 3M□□□ 090-11	
	289	47	1.8	9.836	GKS04 - 3M□□□ 090-11	
	242	56	2.6	11.730	GKS04 - 3M□□□ 090-11	
	216 217	63 63	2.1 2.1	13.176 13.067	GKS05 - 3M□□□ 090-11 GKS04 - 3M□□□ 090-11	
	198 196	69 69	1.9 3.0	14.333 14.494	GKS04 - 3M□□□ 090-11 GKS05 - 3M□□□ 090-11	
	177 178	77 77	1.9 3.0	16.087 16.000	GKS04 - 3M□□□ 090-11 GKS05 - 3M□□□ 090-11	
	159 167	86 82	1.6 3.1	17.920 17.054	GKS04 - 3M□□□ 090-11 GKS05 - 3M□□□ 090-11	
	138 148	99 92	1.5 2.6	20.588 19.216	GKS04 - 3M□□□ 090-11 GKS05 - 3M□□□ 090-11	
	126 121	108 112	1.4 2.4	22.522 23.388	GKS04 - 3M□□□ 090-11 GKS05 - 3M□□□ 090-11	
	108	126	1.9	26.353	GKS05 - 3M□□□ 090-11	
	113	120	1.1	25.088	GKS04 - 3M□□□ 090-11	
	99 95	138 143	1.1 1.9	28.727 29.931	GKS04 - 3M□□□ 090-11 GKS05 - 3M□□□ 090-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GKS □□ - 3M**	**6-94**
n1=2840	89	153	0.9	32.000	GKS04 - 3M□□□ 090-11	
	87	157	1.7	32.744	GKS05 - 3M□□□ 090-11	
	89	154	3.2	32.063	GKS06 - 3M□□□ 090-11	
	81	169	0.9	35.191	GKS04 - 3M□□□ 090-11	
	77	177	1.4	36.894	GKS05 - 3M□□□ 090-11	
	78	174	3.2	36.303	GKS06 - 3M□□□ 090-11	
	68	200	1.3	41.765	GKS05 - 3M□□□ 090-11	
	60	225	1.2	47.059	GKS05 - 3M□□□ 090-11	
	64	213	3.0	44.471	GKS06 - 3M□□□ 090-11	
	56	245	1.2	51.162	GKS05 - 3M□□□ 090-11	
	54	254	2.5	53.074	GKS06 - 3M□□□ 090-11	
	49	276	1.0	57.647	GKS05 - 3M□□□ 090-11	
	49	277	2.3	57.882	GKS06 - 3M□□□ 090-11	
	43	319	1.0	66.592	GKS05 - 3M□□□ 090-11	
	44	312	1.8	65.207	GKS06 - 3M□□□ 090-11	
	39	345	1.9	72.000	GKS06 - 3M□□□ 090-11	
	35	389	1.5	81.111	GKS06 - 3M□□□ 090-11	
	36	380	2.9	79.407	GKS07 - 3M□□□ 090-11	
	31	446	1.4	93.176	GKS06 - 3M□□□ 090-11	
	31	443	2.8	92.563	GKS07 - 3M□□□ 090-11	
	27	503	1.2	104.967	GKS06 - 3M□□□ 090-11	
	27	500	2.2	104.296	GKS07 - 3M□□□ 090-11	
	25	542	1.3	113.082	GKS06 - 3M□□□ 090-11	
	25	538	2.5	112.338	GKS07 - 3M□□□ 090-11	
	22	610	1.0	127.392	GKS06 - 3M□□□ 090-11	
	22	606	2.0	126.578	GKS07 - 3M□□□ 090-11	
	20	673	2.0	140.548	GKS07 - 3M□□□ 090-11	
	18	759	1.6	158.364	GKS07 - 3M□□□ 090-11	
	15	884	1.5	184.600	GKS07 - 3M□□□ 090-11	
	14	997	1.2	208.000	GKS07 - 3M□□□ 090-11	
	14	983	3.1	205.111	GKS09 - 3M□□□ 090-11	
	13	1073	1.2	224.037	GKS07 - 3M□□□ 090-11	
	13	1058	2.9	220.882	GKS09 - 3M□□□ 090-11	
	11	1209	1.0	252.436	GKS07 - 3M□□□ 090-11	
	11	1193	2.6	248.930	GKS09 - 3M□□□ 090-11	
	10	1357	1.0	283.193	GKS07 - 3M□□□ 090-11	
	10	1338	2.3	279.205	GKS09 - 3M□□□ 090-11	
	9.0	1508	2.0	314.659	GKS09 - 3M□□□ 090-11	
n1=1390	271	50	1.6	5.123	GKS04 - 3M□□□ 090C32	
	198	69	1.3	7.025	GKS04 - 3M□□□ 090C32	
	203	67	2.2	6.863	GKS05 - 3M□□□ 090C32	
	170	80	1.6	8.167	GKS04 - 3M□□□ 090C32	
	155	88	1.2	8.991	GKS04 - 3M□□□ 090C32	
	148	92	1.8	9.412	GKS05 - 3M□□□ 090C32	
	141	96	1.1	9.836	GKS04 - 3M□□□ 090C32	
	132	103	2.2	10.569	GKS05 - 3M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

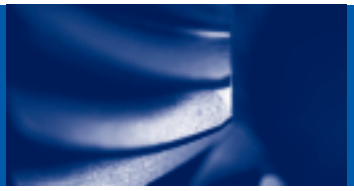


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GKS □□ - 3M**	**6-94**
n1=1390	119	115	1.6	11.730	GKS04 - 3M□□□ 090C32	
	119	114	2.2	11.667	GKS05 - 3M□□□ 090C32	
	122	111	3.0	11.382	GKS06 - 3M□□□ 090C32	
	106	129	1.3	13.176	GKS05 - 3M□□□ 090C32	
	106	128	1.3	13.067	GKS04 - 3M□□□ 090C32	
	97	140	1.2	14.333	GKS04 - 3M□□□ 090C32	
	96	142	1.8	14.494	GKS05 - 3M□□□ 090C32	
	86	158	1.1	16.087	GKS04 - 3M□□□ 090C32	
	87	157	1.8	16.000	GKS05 - 3M□□□ 090C32	
	78	175	0.9	17.920	GKS04 - 3M□□□ 090C32	
	82	167	1.9	17.054	GKS05 - 3M□□□ 090C32	
	78	174	3.0	17.809	GKS06 - 3M□□□ 090C32	
	68	202	0.9	20.588	GKS04 - 3M□□□ 090C32	
	72	188	1.6	19.216	GKS05 - 3M□□□ 090C32	
	62	221	0.8	22.522	GKS04 - 3M□□□ 090C32	
	59	229	1.4	23.388	GKS05 - 3M□□□ 090C32	
	53	258	1.2	26.353	GKS05 - 3M□□□ 090C32	
	53	255	2.7	26.017	GKS06 - 3M□□□ 090C32	
	46	293	1.1	29.931	GKS05 - 3M□□□ 090C32	
	49	279	2.4	28.461	GKS06 - 3M□□□ 090C32	
	43	321	1.0	32.744	GKS05 - 3M□□□ 090C32	
	43	314	1.9	32.063	GKS06 - 3M□□□ 090C32	
	38	361	0.8	36.894	GKS05 - 3M□□□ 090C32	
	38	355	1.9	36.303	GKS06 - 3M□□□ 090C32	
	33	409	0.8	41.765	GKS05 - 3M□□□ 090C32	
	31	435	1.6	44.471	GKS06 - 3M□□□ 090C32	
	26	520	1.3	53.074	GKS06 - 3M□□□ 090C32	
	24	567	1.2	57.882	GKS06 - 3M□□□ 090C32	
	24	563	2.3	57.501	GKS07 - 3M□□□ 090C32	
	21	638	1.0	65.207	GKS06 - 3M□□□ 090C32	
	22	634	1.9	64.790	GKS07 - 3M□□□ 090C32	
	19	705	1.0	72.000	GKS06 - 3M□□□ 090C32	
	20	690	1.9	70.474	GKS07 - 3M□□□ 090C32	
	18	777	1.6	79.407	GKS07 - 3M□□□ 090C32	
	15	906	1.5	92.563	GKS07 - 3M□□□ 090C32	
	15	899	2.8	91.860	GKS09 - 3M□□□ 090C32	
	13	1021	1.2	104.296	GKS07 - 3M□□□ 090C32	
	13	1013	2.8	103.524	GKS09 - 3M□□□ 090C32	
	12	1100	1.2	112.338	GKS07 - 3M□□□ 090C32	
	13	1091	2.5	111.484	GKS09 - 3M□□□ 090C32	
	11	1239	1.0	126.578	GKS07 - 3M□□□ 090C32	
	11	1230	2.5	125.641	GKS09 - 3M□□□ 090C32	
	9.9	1376	1.0	140.548	GKS07 - 3M□□□ 090C32	
	9.9	1379	1.9	140.921	GKS09 - 3M□□□ 090C32	
	8.8	1555	1.9	158.816	GKS09 - 3M□□□ 090C32	
	7.6	1782	1.7	182.000	GKS09 - 3M□□□ 090C32	
	6.8	2008	1.5	205.111	GKS09 - 3M□□□ 090C32	
	6.3	2162	1.4	220.882	GKS09 - 3M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GKS □□ - 3M**	6-94
n1=1390	5.6	2437	1.3	248.930	GKS09 - 3M□□□ 090C32	
	5.0	2733	1.1	279.205	GKS09 - 3M□□□ 090C32	
	4.4	3080	1.0	314.659	GKS09 - 3M□□□ 090C32	
					GKS □□ - 4M	6-110
	4.3	3111	1.0	323.365	GKS09 - 4M□□□ 090C32	
	4.3	3107	1.9	322.931	GKS11 - 4M□□□ 090C32	
	3.8	3507	0.9	364.427	GKS09 - 4M□□□ 090C32	
	3.8	3501	1.7	363.866	GKS11 - 4M□□□ 090C32	
	3.5	3808	1.6	395.787	GKS11 - 4M□□□ 090C32	
	3.1	4291	1.4	445.958	GKS11 - 4M□□□ 090C32	
	2.7	4928	1.2	512.196	GKS11 - 4M□□□ 090C32	
	2.4	5553	1.1	577.122	GKS11 - 4M□□□ 090C32	
	2.2	5981	1.0	621.619	GKS11 - 4M□□□ 090C32	
	2.0	6739	0.9	700.416	GKS11 - 4M□□□ 090C32	
	1.7	7754	1.5	805.901	GKS14 - 4M□□□ 090C32	
	1.5	8737	1.3	908.058	GKS14 - 4M□□□ 090C32	
	1.4	9411	1.2	978.071	GKS14 - 4M□□□ 090C32	
	1.3	10604	1.1	1102.052	GKS14 - 4M□□□ 090C32	
	1.1	11896	1.0	1236.326	GKS14 - 4M□□□ 090C32	
	1.0	13404	0.9	1393.043	GKS14 - 4M□□□ 090C32	
2.2 kW					**GKS □□ - 3M**	6-94
n1=2840	554	36	1.8	5.123	GKS04 - 3M□□□ 090-31	
	404	49	1.5	7.025	GKS04 - 3M□□□ 090-31	
	414	48	2.5	6.863	GKS05 - 3M□□□ 090-31	
	348	57	1.8	8.167	GKS04 - 3M□□□ 090-31	
	316	63	1.3	8.991	GKS04 - 3M□□□ 090-31	
	302	66	2.0	9.412	GKS05 - 3M□□□ 090-31	
	289	69	1.2	9.836	GKS04 - 3M□□□ 090-31	
	269	74	2.5	10.569	GKS05 - 3M□□□ 090-31	
	242	82	1.8	11.730	GKS04 - 3M□□□ 090-31	
	243	82	2.5	11.667	GKS05 - 3M□□□ 090-31	
	216	93	1.4	13.176	GKS05 - 3M□□□ 090-31	
	217	92	1.5	13.067	GKS04 - 3M□□□ 090-31	
	198	101	1.3	14.333	GKS04 - 3M□□□ 090-31	
	196	102	2.0	14.494	GKS05 - 3M□□□ 090-31	
	177	113	1.3	16.087	GKS04 - 3M□□□ 090-31	
	178	112	2.0	16.000	GKS05 - 3M□□□ 090-31	
	159	126	1.1	17.920	GKS04 - 3M□□□ 090-31	
	167	120	2.1	17.054	GKS05 - 3M□□□ 090-31	
	138	145	1.0	20.588	GKS04 - 3M□□□ 090-31	
	148	135	1.8	19.216	GKS05 - 3M□□□ 090-31	
	126	158	0.9	22.522	GKS04 - 3M□□□ 090-31	
	121	164	1.6	23.388	GKS05 - 3M□□□ 090-31	

Thermal power limit not considered (see page 2-4)

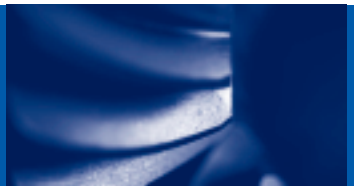


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GKS □□ - 3M**	**6-94**
n1=2840	108	185	1.3	26.353	GKS05 - 3M□□□ 090-31	
	109	183	3.0	26.017	GKS06 - 3M□□□ 090-31	
	95	210	1.3	29.931	GKS05 - 3M□□□ 090-31	
	100	200	2.8	28.461	GKS06 - 3M□□□ 090-31	
	87	230	1.2	32.744	GKS05 - 3M□□□ 090-31	
	89	225	2.2	32.063	GKS06 - 3M□□□ 090-31	
	77	259	0.9	36.894	GKS05 - 3M□□□ 090-31	
	78	255	2.2	36.303	GKS06 - 3M□□□ 090-31	
	68	294	0.9	41.765	GKS05 - 3M□□□ 090-31	
	60	331	0.8	47.059	GKS05 - 3M□□□ 090-31	
	64	313	2.0	44.471	GKS06 - 3M□□□ 090-31	
	56	360	0.8	51.162	GKS05 - 3M□□□ 090-31	
	54	373	1.7	53.074	GKS06 - 3M□□□ 090-31	
	49	407	1.6	57.882	GKS06 - 3M□□□ 090-31	
	49	404	3.0	57.501	GKS07 - 3M□□□ 090-31	
	44	458	1.3	65.207	GKS06 - 3M□□□ 090-31	
	44	455	2.4	64.790	GKS07 - 3M□□□ 090-31	
	39	506	1.3	72.000	GKS06 - 3M□□□ 090-31	
	40	495	2.4	70.474	GKS07 - 3M□□□ 090-31	
	35	570	1.0	81.111	GKS06 - 3M□□□ 090-31	
	36	558	2.0	79.407	GKS07 - 3M□□□ 090-31	
	31	655	1.0	93.176	GKS06 - 3M□□□ 090-31	
	31	650	1.9	92.563	GKS07 - 3M□□□ 090-31	
	27	733	1.5	104.296	GKS07 - 3M□□□ 090-31	
	25	795	0.9	113.082	GKS06 - 3M□□□ 090-31	
	25	789	1.7	112.338	GKS07 - 3M□□□ 090-31	
	22	889	1.4	126.578	GKS07 - 3M□□□ 090-31	
	20	988	1.3	140.548	GKS07 - 3M□□□ 090-31	
	20	990	2.7	140.921	GKS09 - 3M□□□ 090-31	
	18	1113	1.1	158.364	GKS07 - 3M□□□ 090-31	
	18	1116	2.7	158.816	GKS09 - 3M□□□ 090-31	
	15	1297	1.0	184.600	GKS07 - 3M□□□ 090-31	
	16	1279	2.4	182.000	GKS09 - 3M□□□ 090-31	
	14	1462	0.8	208.000	GKS07 - 3M□□□ 090-31	
	14	1441	2.1	205.111	GKS09 - 3M□□□ 090-31	
	13	1574	0.8	224.037	GKS07 - 3M□□□ 090-31	
	13	1552	2.0	220.882	GKS09 - 3M□□□ 090-31	
	11	1749	1.8	248.930	GKS09 - 3M□□□ 090-31	
	10	1962	1.5	279.205	GKS09 - 3M□□□ 090-31	
	9.0	2211	1.4	314.659	GKS09 - 3M□□□ 090-31	
n1=1440	222	90	2.9	6.485	GKS06 - 3M□□□ 100C12	
	210	95	1.6	6.863	GKS05 - 3M□□□ 100C12	
	153	130	1.3	9.412	GKS05 - 3M□□□ 100C12	
	157	127	2.9	9.196	GKS06 - 3M□□□ 100C12	
	136	147	1.6	10.569	GKS05 - 3M□□□ 100C12	
	142	141	2.9	10.147	GKS06 - 3M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GKS □□ - 3M**	**6-94**
n1=1440	123	162	1.6	11.667	GKS05 - 3M□□□ 100C12	
	127	158	2.1	11.382	GKS06 - 3M□□□ 100C12	
	109	183	0.9	13.176	GKS05 - 3M□□□ 100C12	
	114	175	2.4	12.612	GKS06 - 3M□□□ 100C12	
	99	201	1.3	14.494	GKS05 - 3M□□□ 100C12	
	97	205	2.9	14.824	GKS06 - 3M□□□ 100C12	
	90	222	1.3	16.000	GKS05 - 3M□□□ 100C12	
	86	231	2.6	16.699	GKS06 - 3M□□□ 100C12	
	84	236	1.3	17.054	GKS05 - 3M□□□ 100C12	
	81	247	2.1	17.809	GKS06 - 3M□□□ 100C12	
	75	266	1.1	19.216	GKS05 - 3M□□□ 100C12	
	71	282	2.4	20.329	GKS06 - 3M□□□ 100C12	
	62	324	1.0	23.388	GKS05 - 3M□□□ 100C12	
	63	317	1.9	22.902	GKS06 - 3M□□□ 100C12	
	55	365	0.8	26.353	GKS05 - 3M□□□ 100C12	
	55	361	1.9	26.017	GKS06 - 3M□□□ 100C12	
	51	394	1.7	28.461	GKS06 - 3M□□□ 100C12	
	51	392	3.1	28.274	GKS07 - 3M□□□ 100C12	
	45	444	1.4	32.063	GKS06 - 3M□□□ 100C12	
	45	442	2.7	31.858	GKS07 - 3M□□□ 100C12	
	40	503	1.4	36.303	GKS06 - 3M□□□ 100C12	
	40	500	2.6	36.063	GKS07 - 3M□□□ 100C12	
	35	575	1.2	41.472	GKS06 - 3M□□□ 100C12	
	32	616	1.1	44.471	GKS06 - 3M□□□ 100C12	
	33	612	2.1	44.178	GKS07 - 3M□□□ 100C12	
	27	736	0.9	53.074	GKS06 - 3M□□□ 100C12	
	29	698	1.9	50.345	GKS07 - 3M□□□ 100C12	
	25	802	0.9	57.882	GKS06 - 3M□□□ 100C12	
	25	797	1.6	57.501	GKS07 - 3M□□□ 100C12	
	22	898	1.3	64.790	GKS07 - 3M□□□ 100C12	
	20	977	1.4	70.474	GKS07 - 3M□□□ 100C12	
	20	984	3.1	70.982	GKS09 - 3M□□□ 100C12	
	18	1100	1.1	79.407	GKS07 - 3M□□□ 100C12	
	18	1109	2.8	79.996	GKS09 - 3M□□□ 100C12	
	16	1283	1.0	92.563	GKS07 - 3M□□□ 100C12	
	16	1273	2.4	91.860	GKS09 - 3M□□□ 100C12	
	14	1445	0.8	104.296	GKS07 - 3M□□□ 100C12	
	14	1435	2.1	103.524	GKS09 - 3M□□□ 100C12	
	13	1557	0.9	112.338	GKS07 - 3M□□□ 100C12	
	13	1545	2.0	111.484	GKS09 - 3M□□□ 100C12	
	13	1543	2.9	111.335	GKS11 - 3M□□□ 100C12	
	12	1741	1.8	125.641	GKS09 - 3M□□□ 100C12	
	12	1738	2.9	125.448	GKS11 - 3M□□□ 100C12	
	10	1953	1.6	140.921	GKS09 - 3M□□□ 100C12	
	10	1950	2.3	140.732	GKS11 - 3M□□□ 100C12	
	9.1	2201	1.4	158.816	GKS09 - 3M□□□ 100C12	
	9.1	2197	2.3	158.571	GKS11 - 3M□□□ 100C12	
	7.9	2522	1.2	182.000	GKS09 - 3M□□□ 100C12	
	7.7	2586	2.3	186.572	GKS11 - 3M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

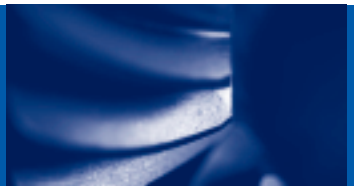


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GKS □□ - 3M**	**6-94**
n1=1440	7.0	2842	1.1	205.111	GKS09 - 3M□□□ 100C12	
	6.9	2913	2.0	210.222	GKS11 - 3M□□□ 100C12	
	6.5	3061	1.0	220.882	GKS09 - 3M□□□ 100C12	
	6.4	3138	1.9	226.431	GKS11 - 3M□□□ 100C12	
	5.8	3450	0.9	248.930	GKS09 - 3M□□□ 100C12	
	5.6	3536	1.7	255.133	GKS11 - 3M□□□ 100C12	
	5.0	3966	1.5	286.219	GKS11 - 3M□□□ 100C12	
	4.5	4469	1.3	322.500	GKS11 - 3M□□□ 100C12	
					GKS □□ - 4M	**6-110**
	4.5	4399	1.4	322.931	GKS11 - 4M□□□ 100C12	
	4.0	4957	1.2	363.866	GKS11 - 4M□□□ 100C12	
	4.0	4938	2.3	362.512	GKS14 - 4M□□□ 100C12	
	3.6	5392	1.1	395.787	GKS11 - 4M□□□ 100C12	
	3.7	5322	2.2	390.671	GKS14 - 4M□□□ 100C12	
	3.2	6075	1.0	445.958	GKS11 - 4M□□□ 100C12	
	3.3	5996	1.9	440.193	GKS14 - 4M□□□ 100C12	
	2.8	6977	0.9	512.196	GKS11 - 4M□□□ 100C12	
	2.8	6990	1.6	513.121	GKS14 - 4M□□□ 100C12	
	2.5	7876	1.5	578.164	GKS14 - 4M□□□ 100C12	
	2.3	8483	1.4	622.742	GKS14 - 4M□□□ 100C12	
	2.1	9558	1.2	701.681	GKS14 - 4M□□□ 100C12	
	1.8	10978	1.0	805.901	GKS14 - 4M□□□ 100C12	
	1.6	12370	0.9	908.058	GKS14 - 4M□□□ 100C12	
	1.5	13323	0.9	978.071	GKS14 - 4M□□□ 100C12	
3 kW					**GKS □□ - 3M**	**6-94**
n1=2850	440	62	3.4	6.485	GKS06 - 3M□□□ 100-31	
	415	66	1.8	6.863	GKS05 - 3M□□□ 100-31	
	303	90	1.5	9.412	GKS05 - 3M□□□ 100-31	
	270	101	1.8	10.569	GKS05 - 3M□□□ 100-31	
	244	111	1.8	11.667	GKS05 - 3M□□□ 100-31	
	250	109	2.5	11.382	GKS06 - 3M□□□ 100-31	
	216	126	1.1	13.176	GKS05 - 3M□□□ 100-31	
	226	120	2.9	12.612	GKS06 - 3M□□□ 100-31	
	197	138	1.5	14.494	GKS05 - 3M□□□ 100-31	
	178	153	1.5	16.000	GKS05 - 3M□□□ 100-31	
	171	159	3.1	16.699	GKS06 - 3M□□□ 100-31	
	167	163	1.6	17.054	GKS05 - 3M□□□ 100-31	
	160	170	2.5	17.809	GKS06 - 3M□□□ 100-31	
	148	184	1.3	19.216	GKS05 - 3M□□□ 100-31	
	140	194	2.8	20.329	GKS06 - 3M□□□ 100-31	
	122	223	1.2	23.388	GKS05 - 3M□□□ 100-31	
	124	219	2.2	22.902	GKS06 - 3M□□□ 100-31	
	108	252	1.0	26.353	GKS05 - 3M□□□ 100-31	
	110	248	2.2	26.017	GKS06 - 3M□□□ 100-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GKS □□ - 3M**	**6-94**
n1=2850	95	286	0.9	29.931	GKS05 - 3M□□□ 100-31	
	100	272	2.0	28.461	GKS06 - 3M□□□ 100-31	
	87	313	0.9	32.744	GKS05 - 3M□□□ 100-31	
	89	306	1.6	32.063	GKS06 - 3M□□□ 100-31	
	90	304	3.1	31.858	GKS07 - 3M□□□ 100-31	
	79	347	1.6	36.303	GKS06 - 3M□□□ 100-31	
	79	344	3.0	36.063	GKS07 - 3M□□□ 100-31	
	69	396	1.4	41.472	GKS06 - 3M□□□ 100-31	
	64	425	1.5	44.471	GKS06 - 3M□□□ 100-31	
	65	422	2.8	44.178	GKS07 - 3M□□□ 100-31	
	54	507	1.3	53.074	GKS06 - 3M□□□ 100-31	
	57	481	2.5	50.345	GKS07 - 3M□□□ 100-31	
	49	553	1.2	57.882	GKS06 - 3M□□□ 100-31	
	50	549	2.2	57.501	GKS07 - 3M□□□ 100-31	
	44	623	0.9	65.207	GKS06 - 3M□□□ 100-31	
	44	619	1.8	64.790	GKS07 - 3M□□□ 100-31	
	40	687	0.9	72.000	GKS06 - 3M□□□ 100-31	
	40	673	1.8	70.474	GKS07 - 3M□□□ 100-31	
	36	758	1.5	79.407	GKS07 - 3M□□□ 100-31	
	31	884	1.4	92.563	GKS07 - 3M□□□ 100-31	
	31	877	3.2	91.860	GKS09 - 3M□□□ 100-31	
	27	996	1.1	104.296	GKS07 - 3M□□□ 100-31	
	28	988	2.9	103.524	GKS09 - 3M□□□ 100-31	
	25	1073	1.2	112.338	GKS07 - 3M□□□ 100-31	
	26	1064	2.8	111.484	GKS09 - 3M□□□ 100-31	
	23	1209	1.0	126.578	GKS07 - 3M□□□ 100-31	
	23	1200	2.6	125.641	GKS09 - 3M□□□ 100-31	
	20	1342	1.0	140.548	GKS07 - 3M□□□ 100-31	
	20	1346	2.3	140.921	GKS09 - 3M□□□ 100-31	
	18	1512	0.8	158.364	GKS07 - 3M□□□ 100-31	
	18	1516	2.0	158.816	GKS09 - 3M□□□ 100-31	
	16	1738	1.7	182.000	GKS09 - 3M□□□ 100-31	
	14	1958	1.6	205.111	GKS09 - 3M□□□ 100-31	
	14	2007	2.9	210.222	GKS11 - 3M□□□ 100-31	
	13	2109	1.4	220.882	GKS09 - 3M□□□ 100-31	
	13	2162	2.8	226.431	GKS11 - 3M□□□ 100-31	
	11	2377	1.3	248.930	GKS09 - 3M□□□ 100-31	
	11	2436	2.4	255.133	GKS11 - 3M□□□ 100-31	
	10	2666	1.1	279.205	GKS09 - 3M□□□ 100-31	
	10	2733	2.2	286.219	GKS11 - 3M□□□ 100-31	
	9.1	3004	1.0	314.659	GKS09 - 3M□□□ 100-31	
	8.8	3079	1.9	322.500	GKS11 - 3M□□□ 100-31	
n1=1430	221	123	2.1	6.485	GKS06 - 3M□□□ 100C32	
	208	131	1.1	6.863	GKS05 - 3M□□□ 100C32	
	152	179	0.9	9.412	GKS05 - 3M□□□ 100C32	
	156	175	2.1	9.196	GKS06 - 3M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

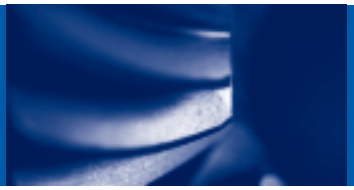


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GKS □□ - 3M**	**6-94**
n1=1430	135	201	1.1	10.569	GKS05 - 3M□□□ 100C32	
	141	193	2.1	10.147	GKS06 - 3M□□□ 100C32	
	123	222	1.1	11.667	GKS05 - 3M□□□ 100C32	
	126	217	1.5	11.382	GKS06 - 3M□□□ 100C32	
	126	217	2.8	11.378	GKS07 - 3M□□□ 100C32	
	113	240	1.8	12.612	GKS06 - 3M□□□ 100C32	
	99	276	0.9	14.494	GKS05 - 3M□□□ 100C32	
	97	282	2.1	14.824	GKS06 - 3M□□□ 100C32	
	89	305	0.9	16.000	GKS05 - 3M□□□ 100C32	
	86	318	1.9	16.699	GKS06 - 3M□□□ 100C32	
	84	325	1.0	17.054	GKS05 - 3M□□□ 100C32	
	80	339	1.5	17.809	GKS06 - 3M□□□ 100C32	
	83	329	3.0	17.270	GKS07 - 3M□□□ 100C32	
	74	366	0.8	19.216	GKS05 - 3M□□□ 100C32	
	70	387	1.7	20.329	GKS06 - 3M□□□ 100C32	
	62	436	1.4	22.902	GKS06 - 3M□□□ 100C32	
	55	495	1.4	26.017	GKS06 - 3M□□□ 100C32	
	57	480	2.5	25.244	GKS07 - 3M□□□ 100C32	
	50	542	1.3	28.461	GKS06 - 3M□□□ 100C32	
	51	538	2.2	28.274	GKS07 - 3M□□□ 100C32	
	45	610	1.0	32.063	GKS06 - 3M□□□ 100C32	
	45	606	1.9	31.858	GKS07 - 3M□□□ 100C32	
	39	691	1.0	36.303	GKS06 - 3M□□□ 100C32	
	40	686	1.9	36.063	GKS07 - 3M□□□ 100C32	
	35	789	0.9	41.472	GKS06 - 3M□□□ 100C32	
	32	846	0.8	44.471	GKS06 - 3M□□□ 100C32	
	32	841	1.5	44.178	GKS07 - 3M□□□ 100C32	
	28	958	1.4	50.345	GKS07 - 3M□□□ 100C32	
	25	1094	1.2	57.501	GKS07 - 3M□□□ 100C32	
	25	1112	2.7	58.456	GKS09 - 3M□□□ 100C32	
	22	1233	1.0	64.790	GKS07 - 3M□□□ 100C32	
	22	1254	2.4	65.879	GKS09 - 3M□□□ 100C32	
	20	1341	1.0	70.474	GKS07 - 3M□□□ 100C32	
	20	1351	2.2	70.982	GKS09 - 3M□□□ 100C32	
	18	1522	2.0	79.996	GKS09 - 3M□□□ 100C32	
	16	1748	1.7	91.860	GKS09 - 3M□□□ 100C32	
	16	1746	2.5	91.737	GKS11 - 3M□□□ 100C32	
	14	1970	1.6	103.524	GKS09 - 3M□□□ 100C32	
	14	1967	2.5	103.365	GKS11 - 3M□□□ 100C32	
	13	2121	1.4	111.484	GKS09 - 3M□□□ 100C32	
	13	2119	2.1	111.335	GKS11 - 3M□□□ 100C32	
	11	2391	1.3	125.641	GKS09 - 3M□□□ 100C32	
	11	2387	2.1	125.448	GKS11 - 3M□□□ 100C32	
	10	2682	1.1	140.921	GKS09 - 3M□□□ 100C32	
	10	2678	1.7	140.732	GKS11 - 3M□□□ 100C32	
	9.0	3022	1.0	158.816	GKS09 - 3M□□□ 100C32	
	9.0	3018	1.7	158.571	GKS11 - 3M□□□ 100C32	
	7.9	3463	0.9	182.000	GKS09 - 3M□□□ 100C32	
	7.7	3550	1.7	186.572	GKS11 - 3M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GKS □□ - 3M**	**6-94**
n1=1430	6.8	4000	1.5	210.222	GKS11 - 3M□□□ 100C32	
	6.3	4309	1.4	226.431	GKS11 - 3M□□□ 100C32	
	5.6	4855	1.2	255.133	GKS11 - 3M□□□ 100C32	
	5.0	5447	1.1	286.219	GKS11 - 3M□□□ 100C32	
	4.4	6137	1.0	322.500	GKS11 - 3M□□□ 100C32	
					GKS □□ - 4M	**6-110**
	4.4	6041	1.0	322.931	GKS11 - 4M□□□ 100C32	
	3.9	6806	0.9	363.866	GKS11 - 4M□□□ 100C32	
	3.9	6781	1.7	362.512	GKS14 - 4M□□□ 100C32	
	3.6	7403	0.8	395.787	GKS11 - 4M□□□ 100C32	
	3.7	7308	1.6	390.671	GKS14 - 4M□□□ 100C32	
	3.3	8234	1.4	440.193	GKS14 - 4M□□□ 100C32	
	2.8	9598	1.2	513.121	GKS14 - 4M□□□ 100C32	
	2.5	10815	1.1	578.164	GKS14 - 4M□□□ 100C32	
	2.3	11649	1.0	622.742	GKS14 - 4M□□□ 100C32	
	2.0	13125	0.9	701.681	GKS14 - 4M□□□ 100C32	
4 kW					**GKS □□ - 3M**	**6-94**
n1=2830	436	83	2.6	6.485	GKS06 - 3M□□□ 100-41	
	412	88	1.4	6.863	GKS05 - 3M□□□ 100-41	
	301	121	1.1	9.412	GKS05 - 3M□□□ 100-41	
	308	118	2.6	9.196	GKS06 - 3M□□□ 100-41	
	268	136	1.4	10.569	GKS05 - 3M□□□ 100-41	
	279	130	2.6	10.147	GKS06 - 3M□□□ 100-41	
	243	150	1.4	11.667	GKS05 - 3M□□□ 100-41	
	249	146	1.8	11.382	GKS06 - 3M□□□ 100-41	
	224	162	2.1	12.612	GKS06 - 3M□□□ 100-41	
	195	186	1.1	14.494	GKS05 - 3M□□□ 100-41	
	191	190	2.6	14.824	GKS06 - 3M□□□ 100-41	
	177	205	1.1	16.000	GKS05 - 3M□□□ 100-41	
	170	214	2.3	16.699	GKS06 - 3M□□□ 100-41	
	166	219	1.2	17.054	GKS05 - 3M□□□ 100-41	
	159	228	1.8	17.809	GKS06 - 3M□□□ 100-41	
	147	246	1.0	19.216	GKS05 - 3M□□□ 100-41	
	139	261	2.1	20.329	GKS06 - 3M□□□ 100-41	
	121	300	0.9	23.388	GKS05 - 3M□□□ 100-41	
	124	294	1.7	22.902	GKS06 - 3M□□□ 100-41	
	109	334	1.6	26.017	GKS06 - 3M□□□ 100-41	
	112	324	2.9	25.244	GKS07 - 3M□□□ 100-41	
	99	365	1.5	28.461	GKS06 - 3M□□□ 100-41	
	100	363	2.7	28.274	GKS07 - 3M□□□ 100-41	
	88	411	1.2	32.063	GKS06 - 3M□□□ 100-41	
	89	408	2.3	31.858	GKS07 - 3M□□□ 100-41	
	78	465	1.2	36.303	GKS06 - 3M□□□ 100-41	
	79	462	2.3	36.063	GKS07 - 3M□□□ 100-41	

Thermal power limit not considered (see page 2-4)

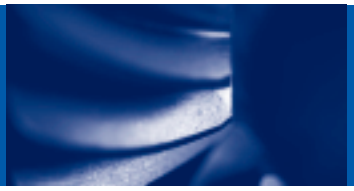


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GKS □□ - 3M**	**6-94**
n1=2830	68	532	1.0	41.472	GKS06 - 3M□□□ 100-41	
	64	570	1.1	44.471	GKS06 - 3M□□□ 100-41	
	64	566	2.1	44.178	GKS07 - 3M□□□ 100-41	
	53	680	0.9	53.074	GKS06 - 3M□□□ 100-41	
	56	646	1.9	50.345	GKS07 - 3M□□□ 100-41	
	49	742	0.9	57.882	GKS06 - 3M□□□ 100-41	
	49	737	1.6	57.501	GKS07 - 3M□□□ 100-41	
	44	831	1.3	64.790	GKS07 - 3M□□□ 100-41	
	40	904	1.3	70.474	GKS07 - 3M□□□ 100-41	
	40	910	3.1	70.982	GKS09 - 3M□□□ 100-41	
	36	1018	1.1	79.407	GKS07 - 3M□□□ 100-41	
	35	1026	2.8	79.996	GKS09 - 3M□□□ 100-41	
	31	1187	1.0	92.563	GKS07 - 3M□□□ 100-41	
	31	1178	2.4	91.860	GKS09 - 3M□□□ 100-41	
	27	1337	0.8	104.296	GKS07 - 3M□□□ 100-41	
	27	1327	2.1	103.524	GKS09 - 3M□□□ 100-41	
	25	1440	0.9	112.338	GKS07 - 3M□□□ 100-41	
	25	1429	2.1	111.484	GKS09 - 3M□□□ 100-41	
	25	1427	3.1	111.335	GKS11 - 3M□□□ 100-41	
	23	1611	1.9	125.641	GKS09 - 3M□□□ 100-41	
	23	1608	3.1	125.448	GKS11 - 3M□□□ 100-41	
	20	1807	1.7	140.921	GKS09 - 3M□□□ 100-41	
	20	1804	2.5	140.732	GKS11 - 3M□□□ 100-41	
	18	2036	1.5	158.816	GKS09 - 3M□□□ 100-41	
	18	2033	2.5	158.571	GKS11 - 3M□□□ 100-41	
	16	2333	1.3	182.000	GKS09 - 3M□□□ 100-41	
	15	2392	2.5	186.572	GKS11 - 3M□□□ 100-41	
	14	2630	1.2	205.111	GKS09 - 3M□□□ 100-41	
	14	2695	2.2	210.222	GKS11 - 3M□□□ 100-41	
	13	2832	1.1	220.882	GKS09 - 3M□□□ 100-41	
	13	2903	2.1	226.431	GKS11 - 3M□□□ 100-41	
	11	3191	1.0	248.930	GKS09 - 3M□□□ 100-41	
	11	3271	1.8	255.133	GKS11 - 3M□□□ 100-41	
	10	3580	0.8	279.205	GKS09 - 3M□□□ 100-41	
	9.9	3670	1.6	286.219	GKS11 - 3M□□□ 100-41	
	8.8	4135	1.4	322.500	GKS11 - 3M□□□ 100-41	
n1=1450	224	162	1.6	6.485	GKS06 - 3M□□□ 112C22	
	244	149	3.2	5.955	GKS07 - 3M□□□ 112C22	
	176	207	2.6	8.254	GKS07 - 3M□□□ 112C22	
	158	230	1.6	9.196	GKS06 - 3M□□□ 112C22	
	158	230	3.2	9.171	GKS07 - 3M□□□ 112C22	
	143	254	1.6	10.147	GKS06 - 3M□□□ 112C22	
	143	253	3.2	10.124	GKS07 - 3M□□□ 112C22	
	127	285	1.2	11.382	GKS06 - 3M□□□ 112C22	
	127	285	2.2	11.378	GKS07 - 3M□□□ 112C22	
	115	316	1.4	12.612	GKS06 - 3M□□□ 112C22	
	114	318	2.6	12.711	GKS07 - 3M□□□ 112C22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GKS □□ - 3M**	**6-94**
n1=1450	98	371	1.6	14.824	GKS06 - 3M□□□ 112C22	
	98	370	2.8	14.798	GKS07 - 3M□□□ 112C22	
	87	418	1.4	16.699	GKS06 - 3M□□□ 112C22	
	87	417	2.6	16.674	GKS07 - 3M□□□ 112C22	
	81	446	1.2	17.809	GKS06 - 3M□□□ 112C22	
	84	432	2.3	17.270	GKS07 - 3M□□□ 112C22	
	71	509	1.3	20.329	GKS06 - 3M□□□ 112C22	
	71	513	2.2	20.511	GKS07 - 3M□□□ 112C22	
	63	573	1.1	22.902	GKS06 - 3M□□□ 112C22	
	63	578	2.0	23.111	GKS07 - 3M□□□ 112C22	
	56	651	1.0	26.017	GKS06 - 3M□□□ 112C22	
	57	632	1.9	25.244	GKS07 - 3M□□□ 112C22	
	51	712	1.0	28.461	GKS06 - 3M□□□ 112C22	
	51	708	1.7	28.274	GKS07 - 3M□□□ 112C22	
	46	797	1.5	31.858	GKS07 - 3M□□□ 112C22	
	40	902	1.4	36.063	GKS07 - 3M□□□ 112C22	
	35	1024	1.3	40.906	GKS07 - 3M□□□ 112C22	
	37	992	3.0	39.662	GKS09 - 3M□□□ 112C22	
	33	1105	1.2	44.178	GKS07 - 3M□□□ 112C22	
	34	1080	2.8	43.146	GKS09 - 3M□□□ 112C22	
	29	1260	1.0	50.345	GKS07 - 3M□□□ 112C22	
	30	1217	2.5	48.625	GKS09 - 3M□□□ 112C22	
	25	1439	0.9	57.501	GKS07 - 3M□□□ 112C22	
	25	1463	2.1	58.456	GKS09 - 3M□□□ 112C22	
	25	1443	3.2	57.683	GKS11 - 3M□□□ 112C22	
	22	1648	1.8	65.879	GKS09 - 3M□□□ 112C22	
	22	1626	3.2	64.995	GKS11 - 3M□□□ 112C22	
	20	1776	1.7	70.982	GKS09 - 3M□□□ 112C22	
	21	1774	2.7	70.887	GKS11 - 3M□□□ 112C22	
	18	2002	1.5	79.996	GKS09 - 3M□□□ 112C22	
	18	1999	2.7	79.873	GKS11 - 3M□□□ 112C22	
	16	2299	1.3	91.860	GKS09 - 3M□□□ 112C22	
	16	2295	2.2	91.737	GKS11 - 3M□□□ 112C22	
	16	2266	2.7	90.551	GKS14 - 3M□□□ 112C22	
	14	2590	1.2	103.524	GKS09 - 3M□□□ 112C22	
	14	2586	2.2	103.365	GKS11 - 3M□□□ 112C22	
	14	2553	2.7	102.029	GKS14 - 3M□□□ 112C22	
	13	2790	1.1	111.484	GKS09 - 3M□□□ 112C22	
	13	2786	1.8	111.335	GKS11 - 3M□□□ 112C22	
	13	2750	2.3	109.896	GKS14 - 3M□□□ 112C22	
	12	3144	1.0	125.641	GKS09 - 3M□□□ 112C22	
	12	3139	1.8	125.448	GKS11 - 3M□□□ 112C22	
	12	3098	2.3	123.826	GKS14 - 3M□□□ 112C22	
	10	3521	1.5	140.732	GKS11 - 3M□□□ 112C22	
	10	3476	1.8	138.913	GKS14 - 3M□□□ 112C22	
	9.1	3968	1.5	158.571	GKS11 - 3M□□□ 112C22	
	9.3	3917	1.8	156.522	GKS14 - 3M□□□ 112C22	
	7.8	4668	1.3	186.572	GKS11 - 3M□□□ 112C22	
	7.8	4668	2.5	186.572	GKS14 - 3M□□□ 112C22	

Thermal power limit not considered (see page 2-4)

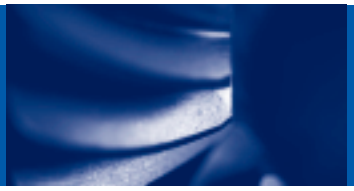


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GKS □□ - 3M**	**6-94**
n1=1450	6.9	5260	1.1	210.222	GKS11 - 3M□□□ 112C22	
	6.9	5260	2.2	210.222	GKS14 - 3M□□□ 112C22	
	6.4	5666	1.1	226.431	GKS11 - 3M□□□ 112C22	
	6.4	5666	2.0	226.431	GKS14 - 3M□□□ 112C22	
	5.7	6384	0.9	255.133	GKS11 - 3M□□□ 112C22	
	5.7	6384	1.8	255.133	GKS14 - 3M□□□ 112C22	
	5.1	7162	0.8	286.219	GKS11 - 3M□□□ 112C22	
	5.1	7162	1.6	286.219	GKS14 - 3M□□□ 112C22	
	4.5	8070	1.4	322.500	GKS14 - 3M□□□ 112C22	
					GKS □□ - 4M	**6-110**
	4.0	8917	1.3	362.512	GKS14 - 4M□□□ 112C22	
	3.7	9609	1.2	390.671	GKS14 - 4M□□□ 112C22	
	3.3	10827	1.1	440.193	GKS14 - 4M□□□ 112C22	
	2.8	12621	0.9	513.121	GKS14 - 4M□□□ 112C22	
	2.5	14221	0.8	578.164	GKS14 - 4M□□□ 112C22	
5.5 kW					**GKS □□ - 3M**	**6-94**
n1=2890	446	112	1.9	6.485	GKS06 - 3M□□□ 112-31	
	350	143	3.0	8.254	GKS07 - 3M□□□ 112-31	
	314	159	1.9	9.196	GKS06 - 3M□□□ 112-31	
	285	175	1.9	10.147	GKS06 - 3M□□□ 112-31	
	254	197	1.4	11.382	GKS06 - 3M□□□ 112-31	
	254	196	2.5	11.378	GKS07 - 3M□□□ 112-31	
	229	218	1.6	12.612	GKS06 - 3M□□□ 112-31	
	227	219	3.0	12.711	GKS07 - 3M□□□ 112-31	
	195	256	1.9	14.824	GKS06 - 3M□□□ 112-31	
	173	288	1.7	16.699	GKS06 - 3M□□□ 112-31	
	173	288	3.0	16.674	GKS07 - 3M□□□ 112-31	
	162	307	1.4	17.809	GKS06 - 3M□□□ 112-31	
	167	298	2.7	17.270	GKS07 - 3M□□□ 112-31	
	142	351	1.5	20.329	GKS06 - 3M□□□ 112-31	
	141	354	2.5	20.511	GKS07 - 3M□□□ 112-31	
	126	395	1.2	22.902	GKS06 - 3M□□□ 112-31	
	125	399	2.4	23.111	GKS07 - 3M□□□ 112-31	
	111	449	1.2	26.017	GKS06 - 3M□□□ 112-31	
	115	436	2.2	25.244	GKS07 - 3M□□□ 112-31	
	102	491	1.1	28.461	GKS06 - 3M□□□ 112-31	
	102	488	2.0	28.274	GKS07 - 3M□□□ 112-31	
	90	554	0.9	32.063	GKS06 - 3M□□□ 112-31	
	91	550	1.7	31.858	GKS07 - 3M□□□ 112-31	
	80	627	0.9	36.303	GKS06 - 3M□□□ 112-31	
	80	623	1.7	36.063	GKS07 - 3M□□□ 112-31	
	71	706	1.5	40.906	GKS07 - 3M□□□ 112-31	
	65	768	0.8	44.471	GKS06 - 3M□□□ 112-31	
	65	763	1.6	44.178	GKS07 - 3M□□□ 112-31	
	57	869	1.4	50.345	GKS07 - 3M□□□ 112-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical-bevel geared motor	Dimensions Page
5.5 kW					**GKS □□ - 3M**	**6-94**
n1=2890	50	993	1.2	57.501	GKS07 - 3M□□□ 112-31	
	49	1009	2.7	58.456	GKS09 - 3M□□□ 112-31	
	45	1118	1.0	64.790	GKS07 - 3M□□□ 112-31	
	44	1137	2.4	65.879	GKS09 - 3M□□□ 112-31	
	41	1217	1.0	70.474	GKS07 - 3M□□□ 112-31	
	41	1225	2.3	70.982	GKS09 - 3M□□□ 112-31	
	36	1371	0.8	79.407	GKS07 - 3M□□□ 112-31	
	36	1381	2.0	79.996	GKS09 - 3M□□□ 112-31	
	32	1586	1.7	91.860	GKS09 - 3M□□□ 112-31	
	32	1584	2.9	91.737	GKS11 - 3M□□□ 112-31	
	28	1787	1.6	103.524	GKS09 - 3M□□□ 112-31	
	28	1784	2.9	103.365	GKS11 - 3M□□□ 112-31	
	26	1925	1.6	111.484	GKS09 - 3M□□□ 112-31	
	26	1922	2.6	111.335	GKS11 - 3M□□□ 112-31	
	26	1897	3.0	109.896	GKS14 - 3M□□□ 112-31	
	23	2169	1.4	125.641	GKS09 - 3M□□□ 112-31	
	23	2166	2.6	125.448	GKS11 - 3M□□□ 112-31	
	21	2429	2.1	140.732	GKS11 - 3M□□□ 112-31	
	21	2398	2.6	138.913	GKS14 - 3M□□□ 112-31	
	18	2737	2.1	158.571	GKS11 - 3M□□□ 112-31	
	19	2702	2.6	156.522	GKS14 - 3M□□□ 112-31	
	16	3142	1.0	182.000	GKS09 - 3M□□□ 112-31	
	16	3221	1.9	186.572	GKS11 - 3M□□□ 112-31	
	14	3541	0.9	205.111	GKS09 - 3M□□□ 112-31	
	14	3629	1.6	210.222	GKS11 - 3M□□□ 112-31	
	14	3629	3.2	210.222	GKS14 - 3M□□□ 112-31	
	13	3909	1.5	226.431	GKS11 - 3M□□□ 112-31	
	13	3909	3.0	226.431	GKS14 - 3M□□□ 112-31	
	11	4404	1.3	255.133	GKS11 - 3M□□□ 112-31	
	11	4404	2.6	255.133	GKS14 - 3M□□□ 112-31	
	10	4941	1.2	286.219	GKS11 - 3M□□□ 112-31	
	10	4941	2.4	286.219	GKS14 - 3M□□□ 112-31	
	9.0	5567	1.1	322.500	GKS11 - 3M□□□ 112-31	
	9.0	5567	2.1	322.500	GKS14 - 3M□□□ 112-31	
n1=1445	223	224	1.2	6.485	GKS06 - 3M□□□ 112C32	
	243	206	2.3	5.955	GKS07 - 3M□□□ 112C32	
	175	285	1.9	8.254	GKS07 - 3M□□□ 112C32	
	157	318	1.2	9.196	GKS06 - 3M□□□ 112C32	
	158	317	2.3	9.171	GKS07 - 3M□□□ 112C32	
	142	350	1.2	10.147	GKS06 - 3M□□□ 112C32	
	143	350	2.3	10.124	GKS07 - 3M□□□ 112C32	
	127	393	0.8	11.382	GKS06 - 3M□□□ 112C32	
	127	393	1.6	11.378	GKS07 - 3M□□□ 112C32	
	115	435	1.0	12.612	GKS06 - 3M□□□ 112C32	
	114	439	1.9	12.711	GKS07 - 3M□□□ 112C32	
	98	512	1.2	14.824	GKS06 - 3M□□□ 112C32	
	98	511	2.0	14.798	GKS07 - 3M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

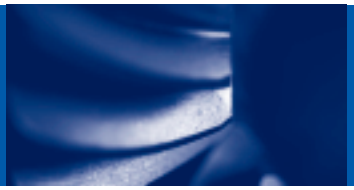


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GKS □□ - 3M**	**6-94**
n1=1445	87	577	1.0	16.699	GKS06 - 3M□□□ 112C32	
	87	576	1.9	16.674	GKS07 - 3M□□□ 112C32	
	90	557	3.2	16.122	GKS09 - 3M□□□ 112C32	
	81	615	0.8	17.809	GKS06 - 3M□□□ 112C32	
	84	596	1.7	17.270	GKS07 - 3M□□□ 112C32	
	82	605	3.2	17.536	GKS09 - 3M□□□ 112C32	
	71	702	0.9	20.329	GKS06 - 3M□□□ 112C32	
	70	708	1.6	20.511	GKS07 - 3M□□□ 112C32	
	63	798	1.5	23.111	GKS07 - 3M□□□ 112C32	
	57	872	1.4	25.244	GKS07 - 3M□□□ 112C32	
	56	886	3.2	25.649	GKS09 - 3M□□□ 112C32	
	51	976	1.2	28.274	GKS07 - 3M□□□ 112C32	
	49	1009	2.9	29.228	GKS09 - 3M□□□ 112C32	
	45	1100	1.1	31.858	GKS07 - 3M□□□ 112C32	
	44	1137	2.6	32.940	GKS09 - 3M□□□ 112C32	
	40	1245	1.0	36.063	GKS07 - 3M□□□ 112C32	
	41	1215	2.5	35.193	GKS09 - 3M□□□ 112C32	
	35	1412	0.9	40.906	GKS07 - 3M□□□ 112C32	
	36	1369	2.2	39.662	GKS09 - 3M□□□ 112C32	
	33	1525	0.9	44.178	GKS07 - 3M□□□ 112C32	
	34	1490	2.0	43.146	GKS09 - 3M□□□ 112C32	
	30	1679	1.8	48.625	GKS09 - 3M□□□ 112C32	
	25	2018	1.5	58.456	GKS09 - 3M□□□ 112C32	
	25	1992	2.4	57.683	GKS11 - 3M□□□ 112C32	
	22	2274	1.3	65.879	GKS09 - 3M□□□ 112C32	
	22	2244	2.4	64.995	GKS11 - 3M□□□ 112C32	
	20	2451	1.2	70.982	GKS09 - 3M□□□ 112C32	
	20	2447	2.0	70.887	GKS11 - 3M□□□ 112C32	
	18	2762	1.1	79.996	GKS09 - 3M□□□ 112C32	
	18	2758	2.0	79.873	GKS11 - 3M□□□ 112C32	
	16	3171	1.0	91.860	GKS09 - 3M□□□ 112C32	
	16	3167	1.6	91.737	GKS11 - 3M□□□ 112C32	
	16	3126	2.0	90.551	GKS14 - 3M□□□ 112C32	
	14	3574	0.9	103.524	GKS09 - 3M□□□ 112C32	
	14	3569	1.6	103.365	GKS11 - 3M□□□ 112C32	
	14	3523	2.0	102.029	GKS14 - 3M□□□ 112C32	
	13	3844	1.3	111.335	GKS11 - 3M□□□ 112C32	
	13	3794	1.6	109.896	GKS14 - 3M□□□ 112C32	
	12	4331	1.3	125.448	GKS11 - 3M□□□ 112C32	
	12	4275	1.6	123.826	GKS14 - 3M□□□ 112C32	
	10	4859	1.1	140.732	GKS11 - 3M□□□ 112C32	
	10	4796	1.3	138.913	GKS14 - 3M□□□ 112C32	
	9.1	5475	1.1	158.571	GKS11 - 3M□□□ 112C32	
	9.2	5404	1.3	156.522	GKS14 - 3M□□□ 112C32	
	7.7	6441	0.9	186.572	GKS11 - 3M□□□ 112C32	
	7.7	6441	1.8	186.572	GKS14 - 3M□□□ 112C32	
	6.9	7258	0.8	210.222	GKS11 - 3M□□□ 112C32	
	6.9	7258	1.6	210.222	GKS14 - 3M□□□ 112C32	
	6.4	7817	1.5	226.431	GKS14 - 3M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GKS □□ - 3M**	**6-94**
n1=1445	5.7	8808	1.3	255.133	GKS14 - 3M□□□ 112C32	
	5.1	9882	1.2	286.219	GKS14 - 3M□□□ 112C32	
	4.5	11134	1.0	322.500	GKS14 - 3M□□□ 112C32	
					GKS □□ - 4M	**6-110**
	4.0	12303	0.9	362.512	GKS14 - 4M□□□ 112C32	
	3.7	13258	0.9	390.671	GKS14 - 4M□□□ 112C32	
7.5 kW					**GKS □□ - 3M**	**6-94**
n1=2900	447	152	1.4	6.485	GKS06 - 3M□□□ 112-41	
	487	140	2.7	5.955	GKS07 - 3M□□□ 112-41	
	351	194	2.2	8.254	GKS07 - 3M□□□ 112-41	
	315	216	1.4	9.196	GKS06 - 3M□□□ 112-41	
	316	215	2.7	9.171	GKS07 - 3M□□□ 112-41	
	286	238	1.4	10.147	GKS06 - 3M□□□ 112-41	
	287	238	2.7	10.124	GKS07 - 3M□□□ 112-41	
	255	267	1.0	11.382	GKS06 - 3M□□□ 112-41	
	255	267	1.8	11.378	GKS07 - 3M□□□ 112-41	
	230	296	1.2	12.612	GKS06 - 3M□□□ 112-41	
	228	298	2.2	12.711	GKS07 - 3M□□□ 112-41	
	196	348	1.4	14.824	GKS06 - 3M□□□ 112-41	
	196	347	2.4	14.798	GKS07 - 3M□□□ 112-41	
	174	392	1.2	16.699	GKS06 - 3M□□□ 112-41	
	174	391	2.2	16.674	GKS07 - 3M□□□ 112-41	
	163	418	1.0	17.809	GKS06 - 3M□□□ 112-41	
	168	405	2.0	17.270	GKS07 - 3M□□□ 112-41	
	143	477	1.1	20.329	GKS06 - 3M□□□ 112-41	
	141	481	1.9	20.511	GKS07 - 3M□□□ 112-41	
	127	537	0.9	22.902	GKS06 - 3M□□□ 112-41	
	126	542	1.7	23.111	GKS07 - 3M□□□ 112-41	
	112	610	0.9	26.017	GKS06 - 3M□□□ 112-41	
	115	592	1.6	25.244	GKS07 - 3M□□□ 112-41	
	102	668	0.8	28.461	GKS06 - 3M□□□ 112-41	
	103	663	1.5	28.274	GKS07 - 3M□□□ 112-41	
	91	747	1.3	31.858	GKS07 - 3M□□□ 112-41	
	88	773	3.1	32.940	GKS09 - 3M□□□ 112-41	
	80	846	1.2	36.063	GKS07 - 3M□□□ 112-41	
	82	826	2.9	35.193	GKS09 - 3M□□□ 112-41	
	71	960	1.1	40.906	GKS07 - 3M□□□ 112-41	
	73	930	2.6	39.662	GKS09 - 3M□□□ 112-41	
	66	1036	1.1	44.178	GKS07 - 3M□□□ 112-41	
	67	1012	2.7	43.146	GKS09 - 3M□□□ 112-41	
	58	1181	1.0	50.345	GKS07 - 3M□□□ 112-41	
	60	1141	2.4	48.625	GKS09 - 3M□□□ 112-41	
	50	1349	0.9	57.501	GKS07 - 3M□□□ 112-41	
	50	1371	2.0	58.456	GKS09 - 3M□□□ 112-41	
	50	1353	3.2	57.683	GKS11 - 3M□□□ 112-41	
	44	1545	1.8	65.879	GKS09 - 3M□□□ 112-41	
	45	1525	3.2	64.995	GKS11 - 3M□□□ 112-41	

Thermal power limit not considered (see page 2-4)

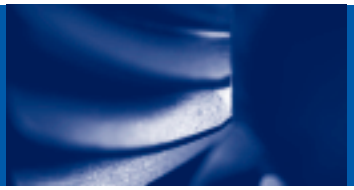


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GKS □□ - 3M**	**6-94**
n1=2900	41	1665	1.7	70.982	GKS09 - 3M□□□ 112-41	
	41	1663	2.6	70.887	GKS11 - 3M□□□ 112-41	
	36	1877	1.5	79.996	GKS09 - 3M□□□ 112-41	
	36	1874	2.6	79.873	GKS11 - 3M□□□ 112-41	
	32	2155	1.3	91.860	GKS09 - 3M□□□ 112-41	
	32	2152	2.1	91.737	GKS11 - 3M□□□ 112-41	
	32	2124	2.6	90.551	GKS14 - 3M□□□ 112-41	
	28	2429	1.2	103.524	GKS09 - 3M□□□ 112-41	
	28	2425	2.1	103.365	GKS11 - 3M□□□ 112-41	
	28	2393	2.6	102.029	GKS14 - 3M□□□ 112-41	
	26	2615	1.2	111.484	GKS09 - 3M□□□ 112-41	
	26	2612	1.9	111.335	GKS11 - 3M□□□ 112-41	
	26	2578	2.2	109.896	GKS14 - 3M□□□ 112-41	
	23	2947	1.0	125.641	GKS09 - 3M□□□ 112-41	
	23	2943	1.9	125.448	GKS11 - 3M□□□ 112-41	
	23	2905	2.4	123.826	GKS14 - 3M□□□ 112-41	
	21	3301	1.6	140.732	GKS11 - 3M□□□ 112-41	
	21	3259	1.9	138.913	GKS14 - 3M□□□ 112-41	
	18	3720	1.6	158.571	GKS11 - 3M□□□ 112-41	
	19	3672	1.9	156.522	GKS14 - 3M□□□ 112-41	
	16	4377	1.4	186.572	GKS11 - 3M□□□ 112-41	
	16	4377	2.7	186.572	GKS14 - 3M□□□ 112-41	
	14	4931	1.2	210.222	GKS11 - 3M□□□ 112-41	
	14	4931	2.3	210.222	GKS14 - 3M□□□ 112-41	
	13	5312	1.1	226.431	GKS11 - 3M□□□ 112-41	
	13	5312	2.2	226.431	GKS14 - 3M□□□ 112-41	
	11	5985	1.0	255.133	GKS11 - 3M□□□ 112-41	
	11	5985	1.9	255.133	GKS14 - 3M□□□ 112-41	
	10	6714	0.9	286.219	GKS11 - 3M□□□ 112-41	
	10	6714	1.7	286.219	GKS14 - 3M□□□ 112-41	
	9.0	7565	1.5	322.500	GKS14 - 3M□□□ 112-41	
n1=1455	244	278	1.7	5.955	GKS07 - 3M□□□ 132C22	
	176	386	1.4	8.254	GKS07 - 3M□□□ 132C22	
	159	429	1.7	9.171	GKS07 - 3M□□□ 132C22	
	144	473	1.7	10.124	GKS07 - 3M□□□ 132C22	
	128	532	1.2	11.378	GKS07 - 3M□□□ 132C22	
	115	594	1.4	12.711	GKS07 - 3M□□□ 132C22	
	119	574	2.8	12.283	GKS09 - 3M□□□ 132C22	
	98	692	1.5	14.798	GKS07 - 3M□□□ 132C22	
	109	625	2.8	13.360	GKS09 - 3M□□□ 132C22	
	87	780	1.4	16.674	GKS07 - 3M□□□ 132C22	
	90	754	2.4	16.122	GKS09 - 3M□□□ 132C22	
	84	808	1.2	17.270	GKS07 - 3M□□□ 132C22	
	83	820	2.4	17.536	GKS09 - 3M□□□ 132C22	
	71	959	1.2	20.511	GKS07 - 3M□□□ 132C22	
	75	914	2.8	19.541	GKS09 - 3M□□□ 132C22	
	63	1081	1.1	23.111	GKS07 - 3M□□□ 132C22	
	66	1030	2.6	22.022	GKS09 - 3M□□□ 132C22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GKS □□ - 3M**	**6-94**
n1=1455	58	1180	1.0	25.244	GKS07 - 3M□□□ 132C22	
	57	1199	2.4	25.649	GKS09 - 3M□□□ 132C22	
	52	1322	0.9	28.274	GKS07 - 3M□□□ 132C22	
	50	1367	2.1	29.228	GKS09 - 3M□□□ 132C22	
	44	1540	1.9	32.940	GKS09 - 3M□□□ 132C22	
	41	1646	1.8	35.193	GKS09 - 3M□□□ 132C22	
	37	1854	1.6	39.662	GKS09 - 3M□□□ 132C22	
	36	1883	3.1	40.272	GKS11 - 3M□□□ 132C22	
	34	2017	1.5	43.146	GKS09 - 3M□□□ 132C22	
	33	2047	2.8	43.783	GKS11 - 3M□□□ 132C22	
	30	2274	1.3	48.625	GKS09 - 3M□□□ 132C22	
	30	2307	2.6	49.333	GKS11 - 3M□□□ 132C22	
	25	2733	1.1	58.456	GKS09 - 3M□□□ 132C22	
	25	2697	2.2	57.683	GKS11 - 3M□□□ 132C22	
	22	3080	1.0	65.879	GKS09 - 3M□□□ 132C22	
	22	3039	2.0	64.995	GKS11 - 3M□□□ 132C22	
	21	3319	0.9	70.982	GKS09 - 3M□□□ 132C22	
	21	3314	1.8	70.887	GKS11 - 3M□□□ 132C22	
	18	3740	0.8	79.996	GKS09 - 3M□□□ 132C22	
	18	3735	1.6	79.873	GKS11 - 3M□□□ 132C22	
	19	3632	3.2	77.681	GKS14 - 3M□□□ 132C22	
	16	4289	1.4	91.737	GKS11 - 3M□□□ 132C22	
	16	4234	2.7	90.551	GKS14 - 3M□□□ 132C22	
	14	4833	1.3	103.365	GKS11 - 3M□□□ 132C22	
	14	4770	2.4	102.029	GKS14 - 3M□□□ 132C22	
	13	5206	1.1	111.335	GKS11 - 3M□□□ 132C22	
	13	5138	2.3	109.896	GKS14 - 3M□□□ 132C22	
	12	5865	1.0	125.448	GKS11 - 3M□□□ 132C22	
	12	5790	2.0	123.826	GKS14 - 3M□□□ 132C22	
	11	6495	1.8	138.913	GKS14 - 3M□□□ 132C22	
	9.3	7318	1.6	156.522	GKS14 - 3M□□□ 132C22	
	7.8	8723	1.3	186.572	GKS14 - 3M□□□ 132C22	
	6.9	9829	1.2	210.222	GKS14 - 3M□□□ 132C22	
	6.4	10587	1.1	226.431	GKS14 - 3M□□□ 132C22	
	5.7	11929	1.0	255.133	GKS14 - 3M□□□ 132C22	
	5.1	13382	0.9	286.219	GKS14 - 3M□□□ 132C22	
9.2 kW					**GKS □□ - 3M**	**6-94**
n1=2925	491	170	2.2	5.955	GKS07 - 3M□□□ 132-21	
	354	236	1.8	8.254	GKS07 - 3M□□□ 132-21	
	319	262	2.2	9.171	GKS07 - 3M□□□ 132-21	
	289	289	2.2	10.124	GKS07 - 3M□□□ 132-21	
	257	325	1.5	11.378	GKS07 - 3M□□□ 132-21	
	230	363	1.8	12.711	GKS07 - 3M□□□ 132-21	
	198	422	2.0	14.798	GKS07 - 3M□□□ 132-21	

Thermal power limit not considered (see page 2-4)

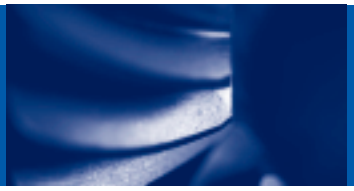


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
9.2 kW					**GKS □□ - 3M**	**6-94**
n1=2925	175	476	1.8	16.674	GKS07 - 3M□□□ 132-21	
	181	460	3.1	16.122	GKS09 - 3M□□□ 132-21	
	169	493	1.6	17.270	GKS07 - 3M□□□ 132-21	
	167	500	3.1	17.536	GKS09 - 3M□□□ 132-21	
	143	585	1.5	20.511	GKS07 - 3M□□□ 132-21	
	127	659	1.4	23.111	GKS07 - 3M□□□ 132-21	
	116	720	1.3	25.244	GKS07 - 3M□□□ 132-21	
	114	732	3.1	25.649	GKS09 - 3M□□□ 132-21	
	104	807	1.2	28.274	GKS07 - 3M□□□ 132-21	
	100	834	2.8	29.228	GKS09 - 3M□□□ 132-21	
	92	909	1.0	31.858	GKS07 - 3M□□□ 132-21	
	89	940	2.5	32.940	GKS09 - 3M□□□ 132-21	
	81	1029	1.0	36.063	GKS07 - 3M□□□ 132-21	
	83	1004	2.4	35.193	GKS09 - 3M□□□ 132-21	
	72	1167	0.9	40.906	GKS07 - 3M□□□ 132-21	
	74	1132	2.1	39.662	GKS09 - 3M□□□ 132-21	
	66	1260	0.9	44.178	GKS07 - 3M□□□ 132-21	
	68	1231	2.2	43.146	GKS09 - 3M□□□ 132-21	
	58	1436	0.8	50.345	GKS07 - 3M□□□ 132-21	
	60	1387	2.0	48.625	GKS09 - 3M□□□ 132-21	
	50	1668	1.7	58.456	GKS09 - 3M□□□ 132-21	
	44	1880	1.5	65.879	GKS09 - 3M□□□ 132-21	
	45	1854	2.9	64.995	GKS11 - 3M□□□ 132-21	
	41	2025	1.4	70.982	GKS09 - 3M□□□ 132-21	
	41	2022	2.7	70.887	GKS11 - 3M□□□ 132-21	
	37	2282	1.2	79.996	GKS09 - 3M□□□ 132-21	
	37	2279	2.4	79.873	GKS11 - 3M□□□ 132-21	
	32	2617	2.1	91.737	GKS11 - 3M□□□ 132-21	
	28	2949	1.9	103.365	GKS11 - 3M□□□ 132-21	
	26	3176	1.9	111.335	GKS11 - 3M□□□ 132-21	
	23	3579	1.7	125.448	GKS11 - 3M□□□ 132-21	
	21	3963	3.0	138.913	GKS14 - 3M□□□ 132-21	
	19	4466	2.6	156.522	GKS14 - 3M□□□ 132-21	
	16	5323	1.1	186.572	GKS11 - 3M□□□ 132-21	
	16	5323	2.2	186.572	GKS14 - 3M□□□ 132-21	
	14	5998	1.0	210.222	GKS11 - 3M□□□ 132-21	
	14	5998	1.9	210.222	GKS14 - 3M□□□ 132-21	
	13	6460	0.9	226.431	GKS11 - 3M□□□ 132-21	
	13	6460	1.8	226.431	GKS14 - 3M□□□ 132-21	
	12	7279	0.8	255.133	GKS11 - 3M□□□ 132-21	
	12	7279	1.6	255.133	GKS14 - 3M□□□ 132-21	
	10	8166	1.4	286.219	GKS14 - 3M□□□ 132-21	
	9.1	9201	1.3	322.500	GKS14 - 3M□□□ 132-21	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
9.2 kW					**GKS □□ - 3M**	**6-94**
n1=1450	244	343	1.4	5.955	GKS07 - 3M□□□ 132C32	
	176	475	1.1	8.254	GKS07 - 3M□□□ 132C32	
	158	528	1.4	9.171	GKS07 - 3M□□□ 132C32	
	143	583	1.4	10.124	GKS07 - 3M□□□ 132C32	
	127	655	0.9	11.378	GKS07 - 3M□□□ 132C32	
	114	732	1.1	12.711	GKS07 - 3M□□□ 132C32	
	118	707	2.3	12.283	GKS09 - 3M□□□ 132C32	
	98	852	1.2	14.798	GKS07 - 3M□□□ 132C32	
	109	769	2.3	13.360	GKS09 - 3M□□□ 132C32	
	87	960	1.1	16.674	GKS07 - 3M□□□ 132C32	
	90	928	1.9	16.122	GKS09 - 3M□□□ 132C32	
	84	994	1.0	17.270	GKS07 - 3M□□□ 132C32	
	83	1009	1.9	17.536	GKS09 - 3M□□□ 132C32	
	71	1180	0.9	20.511	GKS07 - 3M□□□ 132C32	
	74	1125	2.3	19.541	GKS09 - 3M□□□ 132C32	
	63	1330	0.9	23.111	GKS07 - 3M□□□ 132C32	
	66	1267	2.1	22.022	GKS09 - 3M□□□ 132C32	
	57	1453	0.8	25.244	GKS07 - 3M□□□ 132C32	
	57	1476	1.9	25.649	GKS09 - 3M□□□ 132C32	
	50	1682	1.7	29.228	GKS09 - 3M□□□ 132C32	
	52	1613	3.2	28.021	GKS11 - 3M□□□ 132C32	
	44	1896	1.6	32.940	GKS09 - 3M□□□ 132C32	
	46	1817	3.0	31.573	GKS11 - 3M□□□ 132C32	
	41	2025	1.5	35.193	GKS09 - 3M□□□ 132C32	
	41	2057	2.7	35.741	GKS11 - 3M□□□ 132C32	
	37	2283	1.3	39.662	GKS09 - 3M□□□ 132C32	
	36	2318	2.5	40.272	GKS11 - 3M□□□ 132C32	
	34	2483	1.2	43.146	GKS09 - 3M□□□ 132C32	
	33	2520	2.3	43.783	GKS11 - 3M□□□ 132C32	
	30	2798	1.1	48.625	GKS09 - 3M□□□ 132C32	
	29	2839	2.1	49.333	GKS11 - 3M□□□ 132C32	
	25	3364	0.9	58.456	GKS09 - 3M□□□ 132C32	
	25	3320	1.8	57.683	GKS11 - 3M□□□ 132C32	
	22	3791	0.8	65.879	GKS09 - 3M□□□ 132C32	
	22	3741	1.6	64.995	GKS11 - 3M□□□ 132C32	
	23	3648	3.1	63.382	GKS14 - 3M□□□ 132C32	
	21	4080	1.5	70.887	GKS11 - 3M□□□ 132C32	
	21	3968	2.9	68.942	GKS14 - 3M□□□ 132C32	
	18	4597	1.3	79.873	GKS11 - 3M□□□ 132C32	
	19	4471	2.6	77.681	GKS14 - 3M□□□ 132C32	
	16	5280	1.1	91.737	GKS11 - 3M□□□ 132C32	
	16	5211	2.2	90.551	GKS14 - 3M□□□ 132C32	
	14	5949	1.0	103.365	GKS11 - 3M□□□ 132C32	
	14	5872	2.0	102.029	GKS14 - 3M□□□ 132C32	
	13	6407	0.9	111.335	GKS11 - 3M□□□ 132C32	
	13	6325	1.9	109.896	GKS14 - 3M□□□ 132C32	
	12	7220	0.8	125.448	GKS11 - 3M□□□ 132C32	
	12	7126	1.6	123.826	GKS14 - 3M□□□ 132C32	

Thermal power limit not considered (see page 2-4)

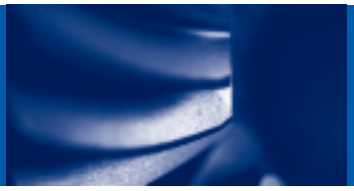


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
9.2 kW					**GKS □□ - 3M**	6-94
n1=1450	10	7995	1.5	138.913	GKS14 - 3M□□□ 132C32	
	9.3	9008	1.3	156.522	GKS14 - 3M□□□ 132C32	
	7.8	10737	1.1	186.572	GKS14 - 3M□□□ 132C32	
	6.9	12099	1.0	210.222	GKS14 - 3M□□□ 132C32	
	6.4	13031	0.9	226.431	GKS14 - 3M□□□ 132C32	
					GKS □□ - 4M	6-110
	6.1	13434	0.9	237.467	GKS14 - 4M□□□ 132C32	
11 kW					**GKS □□ - 3M**	6-94
n1=1460	245	407	1.2	5.955	GKS07 - 3M□□□ 160-22	
	177	564	1.0	8.254	GKS07 - 3M□□□ 160-22	
	159	627	1.2	9.171	GKS07 - 3M□□□ 160-22	
	144	692	1.2	10.124	GKS07 - 3M□□□ 160-22	
	115	869	1.0	12.711	GKS07 - 3M□□□ 160-22	
	119	839	1.9	12.283	GKS09 - 3M□□□ 160-22	
	99	1011	1.0	14.798	GKS07 - 3M□□□ 160-22	
	109	913	1.9	13.360	GKS09 - 3M□□□ 160-22	
	88	1140	0.9	16.674	GKS07 - 3M□□□ 160-22	
	91	1102	1.6	16.122	GKS09 - 3M□□□ 160-22	
	92	1085	2.8	15.874	GKS11 - 3M□□□ 160-22	
	85	1180	0.8	17.270	GKS07 - 3M□□□ 160-22	
	83	1198	1.6	17.536	GKS09 - 3M□□□ 160-22	
	85	1180	2.8	17.265	GKS11 - 3M□□□ 160-22	
	75	1335	1.9	19.541	GKS09 - 3M□□□ 160-22	
	66	1505	1.8	22.022	GKS09 - 3M□□□ 160-22	
	66	1503	3.3	21.989	GKS11 - 3M□□□ 160-22	
	57	1753	1.6	25.649	GKS09 - 3M□□□ 160-22	
	57	1751	2.8	25.615	GKS11 - 3M□□□ 160-22	
	50	1997	1.5	29.228	GKS09 - 3M□□□ 160-22	
	52	1915	2.7	28.021	GKS11 - 3M□□□ 160-22	
	44	2251	1.3	32.940	GKS09 - 3M□□□ 160-22	
	46	2158	2.6	31.573	GKS11 - 3M□□□ 160-22	
	42	2405	1.3	35.193	GKS09 - 3M□□□ 160-22	
	41	2443	2.3	35.741	GKS11 - 3M□□□ 160-22	
	37	2711	1.1	39.662	GKS09 - 3M□□□ 160-22	
	36	2752	2.1	40.272	GKS11 - 3M□□□ 160-22	
	34	2949	1.0	43.146	GKS09 - 3M□□□ 160-22	
	33	2992	1.9	43.783	GKS11 - 3M□□□ 160-22	
	30	3323	0.9	48.625	GKS09 - 3M□□□ 160-22	
	30	3371	1.8	49.333	GKS11 - 3M□□□ 160-22	
	25	3942	1.5	57.683	GKS11 - 3M□□□ 160-22	
	26	3844	3.0	56.251	GKS14 - 3M□□□ 160-22	
	23	4442	1.3	64.995	GKS11 - 3M□□□ 160-22	
	23	4332	2.7	63.382	GKS14 - 3M□□□ 160-22	
	21	4844	1.2	70.887	GKS11 - 3M□□□ 160-22	
	21	4712	2.4	68.942	GKS14 - 3M□□□ 160-22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
11 kW					**GKS □□ - 3M**	**6-94**
n1=1460	18	5459	1.1	79.873	GKS11 - 3M□□□ 160-22	
	19	5309	2.2	77.681	GKS14 - 3M□□□ 160-22	
	16	6188	1.9	90.551	GKS14 - 3M□□□ 160-22	
	14	6973	1.7	102.029	GKS14 - 3M□□□ 160-22	
	13	7510	1.6	109.896	GKS14 - 3M□□□ 160-22	
	12	8462	1.4	123.826	GKS14 - 3M□□□ 160-22	
	7.8	12750	0.9	186.572	GKS14 - 3M□□□ 160-22	
	7.0	14367	0.8	210.222	GKS14 - 3M□□□ 160-22	
15 kW					**GKS □□ - 3M**	**6-94**
n1=1460	245	555	0.8	5.955	GKS07 - 3M□□□ 160-32	
	159	855	0.8	9.171	GKS07 - 3M□□□ 160-32	
	144	943	0.8	10.124	GKS07 - 3M□□□ 160-32	
	119	1145	1.4	12.283	GKS09 - 3M□□□ 160-32	
	121	1127	2.5	12.094	GKS11 - 3M□□□ 160-32	
	109	1245	1.4	13.360	GKS09 - 3M□□□ 160-32	
	111	1226	2.5	13.154	GKS11 - 3M□□□ 160-32	
	91	1502	1.2	16.122	GKS09 - 3M□□□ 160-32	
	92	1479	2.1	15.874	GKS11 - 3M□□□ 160-32	
	83	1634	1.2	17.536	GKS09 - 3M□□□ 160-32	
	85	1609	2.1	17.265	GKS11 - 3M□□□ 160-32	
	75	1821	1.4	19.541	GKS09 - 3M□□□ 160-32	
	75	1819	2.5	19.515	GKS11 - 3M□□□ 160-32	
	66	2052	1.3	22.022	GKS09 - 3M□□□ 160-32	
	66	2049	2.4	21.989	GKS11 - 3M□□□ 160-32	
	57	2390	1.2	25.649	GKS09 - 3M□□□ 160-32	
	57	2387	2.1	25.615	GKS11 - 3M□□□ 160-32	
	50	2724	1.1	29.228	GKS09 - 3M□□□ 160-32	
	52	2611	2.0	28.021	GKS11 - 3M□□□ 160-32	
	44	3070	1.0	32.940	GKS09 - 3M□□□ 160-32	
	46	2942	1.9	31.573	GKS11 - 3M□□□ 160-32	
	42	3280	0.9	35.193	GKS09 - 3M□□□ 160-32	
	41	3331	1.7	35.741	GKS11 - 3M□□□ 160-32	
	42	3233	3.1	34.692	GKS14 - 3M□□□ 160-32	
	37	3696	0.8	39.662	GKS09 - 3M□□□ 160-32	
	36	3753	1.6	40.272	GKS11 - 3M□□□ 160-32	
	37	3643	3.0	39.089	GKS14 - 3M□□□ 160-32	
	33	4080	1.4	43.783	GKS11 - 3M□□□ 160-32	
	34	3964	2.7	42.531	GKS14 - 3M□□□ 160-32	
	30	4597	1.3	49.333	GKS11 - 3M□□□ 160-32	
	31	4466	2.5	47.923	GKS14 - 3M□□□ 160-32	
	25	5376	1.1	57.683	GKS11 - 3M□□□ 160-32	
	26	5242	2.2	56.251	GKS14 - 3M□□□ 160-32	
	23	6057	1.0	64.995	GKS11 - 3M□□□ 160-32	
	23	5907	1.9	63.382	GKS14 - 3M□□□ 160-32	
	21	6606	0.9	70.887	GKS11 - 3M□□□ 160-32	
	21	6425	1.8	68.942	GKS14 - 3M□□□ 160-32	

Thermal power limit not considered (see page 2-4)

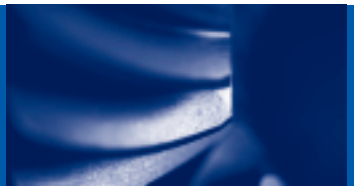


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
15 kW					**GKS □□ - 3M**	6-94
n1=1460	18	7443	0.8	79.873	GKS11 - 3M□□□ 160-32	
	19	7239	1.6	77.681	GKS14 - 3M□□□ 160-32	
	16	8438	1.4	90.551	GKS14 - 3M□□□ 160-32	
	14	9508	1.2	102.029	GKS14 - 3M□□□ 160-32	
	13	10241	1.2	109.896	GKS14 - 3M□□□ 160-32	
	12	11539	1.0	123.826	GKS14 - 3M□□□ 160-32	
					GKS □□ - 4M	6-110
	11	12334	0.9	134.640	GKS14 - 4M□□□ 160-32	
18.5 kW					**GKS □□ - 3M**	6-94
n1=1470	120	1402	1.2	12.283	GKS09 - 3M□□□ 180-22	
	122	1381	2.0	12.094	GKS11 - 3M□□□ 180-22	
	110	1525	1.2	13.360	GKS09 - 3M□□□ 180-22	
	112	1502	2.0	13.154	GKS11 - 3M□□□ 180-22	
	91	1840	1.0	16.122	GKS09 - 3M□□□ 180-22	
	93	1812	1.7	15.874	GKS11 - 3M□□□ 180-22	
	88	1900	3.1	16.646	GKS14 - 3M□□□ 180-22	
	84	2002	1.0	17.536	GKS09 - 3M□□□ 180-22	
	85	1971	1.7	17.265	GKS11 - 3M□□□ 180-22	
	80	2090	2.9	18.311	GKS14 - 3M□□□ 180-22	
	75	2231	1.2	19.541	GKS09 - 3M□□□ 180-22	
	75	2228	2.0	19.515	GKS11 - 3M□□□ 180-22	
	67	2514	1.1	22.022	GKS09 - 3M□□□ 180-22	
	67	2510	1.9	21.989	GKS11 - 3M□□□ 180-22	
	57	2928	1.0	25.649	GKS09 - 3M□□□ 180-22	
	57	2924	1.7	25.615	GKS11 - 3M□□□ 180-22	
	60	2819	3.1	24.696	GKS14 - 3M□□□ 180-22	
	50	3337	0.9	29.228	GKS09 - 3M□□□ 180-22	
	53	3199	1.6	28.021	GKS11 - 3M□□□ 180-22	
	54	3101	2.9	27.165	GKS14 - 3M□□□ 180-22	
	47	3604	1.5	31.573	GKS11 - 3M□□□ 180-22	
	48	3494	2.9	30.609	GKS14 - 3M□□□ 180-22	
	41	4080	1.4	35.741	GKS11 - 3M□□□ 180-22	
	42	3960	2.5	34.692	GKS14 - 3M□□□ 180-22	
	37	4597	1.3	40.272	GKS11 - 3M□□□ 180-22	
	38	4462	2.5	39.089	GKS14 - 3M□□□ 180-22	
	34	4998	1.2	43.783	GKS11 - 3M□□□ 180-22	
	35	4855	2.2	42.531	GKS14 - 3M□□□ 180-22	
	30	5632	1.1	49.333	GKS11 - 3M□□□ 180-22	
	31	5471	2.1	47.923	GKS14 - 3M□□□ 180-22	
	26	6585	0.9	57.683	GKS11 - 3M□□□ 180-22	
	26	6421	1.8	56.251	GKS14 - 3M□□□ 180-22	
	23	7419	0.8	64.995	GKS11 - 3M□□□ 180-22	
	23	7235	1.6	63.382	GKS14 - 3M□□□ 180-22	
	21	7870	1.5	68.942	GKS14 - 3M□□□ 180-22	
	19	8868	1.3	77.681	GKS14 - 3M□□□ 180-22	
	16	10337	1.1	90.551	GKS14 - 3M□□□ 180-22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
18.5 kW					**GKS □□ - 3M**	**6-94**
n1=1470	14	11647	1.0	102.029	GKS14 - 3M□□□ 180-22	
	13	12545	0.9	109.896	GKS14 - 3M□□□ 180-22	
	12	14135	0.8	123.826	GKS14 - 3M□□□ 180-22	
22 kW					**GKS □□ - 3M**	**6-94**
n1=1465	119	1673	1.0	12.283	GKS09 - 3M□□□ 180-32	
	121	1647	1.7	12.094	GKS11 - 3M□□□ 180-32	
	110	1820	1.0	13.360	GKS09 - 3M□□□ 180-32	
	111	1792	1.7	13.154	GKS11 - 3M□□□ 180-32	
	91	2196	0.8	16.122	GKS09 - 3M□□□ 180-32	
	92	2162	1.4	15.874	GKS11 - 3M□□□ 180-32	
	88	2267	2.6	16.646	GKS14 - 3M□□□ 180-32	
	84	2389	0.8	17.536	GKS09 - 3M□□□ 180-32	
	85	2352	1.4	17.265	GKS11 - 3M□□□ 180-32	
	80	2494	2.5	18.311	GKS14 - 3M□□□ 180-32	
	75	2662	1.0	19.541	GKS09 - 3M□□□ 180-32	
	75	2658	1.7	19.515	GKS11 - 3M□□□ 180-32	
	67	3000	0.9	22.022	GKS09 - 3M□□□ 180-32	
	67	2995	1.6	21.989	GKS11 - 3M□□□ 180-32	
	57	3494	0.8	25.649	GKS09 - 3M□□□ 180-32	
	57	3489	1.4	25.615	GKS11 - 3M□□□ 180-32	
	59	3364	2.6	24.696	GKS14 - 3M□□□ 180-32	
	52	3817	1.4	28.021	GKS11 - 3M□□□ 180-32	
	54	3700	2.5	27.165	GKS14 - 3M□□□ 180-32	
	46	4301	1.3	31.573	GKS11 - 3M□□□ 180-32	
	48	4169	2.4	30.609	GKS14 - 3M□□□ 180-32	
	41	4868	1.2	35.741	GKS11 - 3M□□□ 180-32	
	42	4725	2.1	34.692	GKS14 - 3M□□□ 180-32	
	36	5486	1.1	40.272	GKS11 - 3M□□□ 180-32	
	38	5324	2.1	39.089	GKS14 - 3M□□□ 180-32	
	34	5964	1.0	43.783	GKS11 - 3M□□□ 180-32	
	34	5793	1.9	42.531	GKS14 - 3M□□□ 180-32	
	30	6720	0.9	49.333	GKS11 - 3M□□□ 180-32	
	31	6528	1.7	47.923	GKS14 - 3M□□□ 180-32	
	26	7662	1.5	56.251	GKS14 - 3M□□□ 180-32	
	23	8633	1.3	63.382	GKS14 - 3M□□□ 180-32	
	21	9391	1.2	68.942	GKS14 - 3M□□□ 180-32	
	19	10581	1.1	77.681	GKS14 - 3M□□□ 180-32	
	16	12334	0.9	90.551	GKS14 - 3M□□□ 180-32	
	14	13898	0.8	102.029	GKS14 - 3M□□□ 180-32	
30 kW					**GKS □□ - 3M**	**6-94**
n1=1465	121	2246	1.2	12.094	GKS11 - 3M□□□ 200N32	
	118	2310	2.0	12.435	GKS14 - 3M□□□ 200N32	
	111	2443	1.2	13.154	GKS11 - 3M□□□ 200N32	
	108	2512	2.0	13.525	GKS14 - 3M□□□ 200N32	
	92	2949	1.0	15.874	GKS11 - 3M□□□ 200N32	
	88	3092	1.9	16.646	GKS14 - 3M□□□ 200N32	

Thermal power limit not considered (see page 2-4)

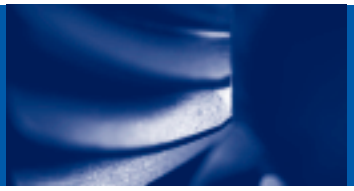


P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
30 kW					**GKS □□ - 3M**	6-94
n1=1465	85	3207	1.0	17.265	GKS11 - 3M□□□ 200N32	
	80	3401	1.8	18.311	GKS14 - 3M□□□ 200N32	
	75	3625	1.2	19.515	GKS11 - 3M□□□ 200N32	
	73	3727	2.0	20.065	GKS14 - 3M□□□ 200N32	
	67	4084	1.2	21.989	GKS11 - 3M□□□ 200N32	
	65	4199	2.0	22.609	GKS14 - 3M□□□ 200N32	
	57	4758	1.0	25.615	GKS11 - 3M□□□ 200N32	
	59	4587	1.9	24.696	GKS14 - 3M□□□ 200N32	
	52	5205	1.0	28.021	GKS11 - 3M□□□ 200N32	
	54	5046	1.8	27.165	GKS14 - 3M□□□ 200N32	
	46	5865	0.9	31.573	GKS11 - 3M□□□ 200N32	
	48	5685	1.8	30.609	GKS14 - 3M□□□ 200N32	
	41	6639	0.9	35.741	GKS11 - 3M□□□ 200N32	
	42	6444	1.5	34.692	GKS14 - 3M□□□ 200N32	
	38	7261	1.5	39.089	GKS14 - 3M□□□ 200N32	
	34	7900	1.4	42.531	GKS14 - 3M□□□ 200N32	
	31	8901	1.3	47.923	GKS14 - 3M□□□ 200N32	
	26	10448	1.1	56.251	GKS14 - 3M□□□ 200N32	
	23	11773	1.0	63.382	GKS14 - 3M□□□ 200N32	
37 kW					**GKS □□ - 3M**	6-94
n1=1470	122	2761	1.0	12.094	GKS11 - 3M□□□ 225N12	
	118	2839	1.6	12.435	GKS14 - 3M□□□ 225N12	
	112	3003	1.0	13.154	GKS11 - 3M□□□ 225N12	
	109	3088	1.6	13.525	GKS14 - 3M□□□ 225N12	
	93	3624	0.9	15.874	GKS11 - 3M□□□ 225N12	
	88	3800	1.6	16.646	GKS14 - 3M□□□ 225N12	
	85	3942	0.9	17.265	GKS11 - 3M□□□ 225N12	
	80	4180	1.5	18.311	GKS14 - 3M□□□ 225N12	
	75	4455	1.0	19.515	GKS11 - 3M□□□ 225N12	
	73	4581	1.6	20.065	GKS14 - 3M□□□ 225N12	
	67	5020	1.0	21.989	GKS11 - 3M□□□ 225N12	
	65	5162	1.6	22.609	GKS14 - 3M□□□ 225N12	
	57	5848	0.9	25.615	GKS11 - 3M□□□ 225N12	
	60	5638	1.6	24.696	GKS14 - 3M□□□ 225N12	
	53	6397	0.8	28.021	GKS11 - 3M□□□ 225N12	
	54	6202	1.5	27.165	GKS14 - 3M□□□ 225N12	
	48	6988	1.5	30.609	GKS14 - 3M□□□ 225N12	
	42	7920	1.3	34.692	GKS14 - 3M□□□ 225N12	
	38	8924	1.2	39.089	GKS14 - 3M□□□ 225N12	
	35	9710	1.1	42.531	GKS14 - 3M□□□ 225N12	
	31	10941	1.0	47.923	GKS14 - 3M□□□ 225N12	
	26	12843	0.9	56.251	GKS14 - 3M□□□ 225N12	
45 kW					**GKS □□ - 3M**	6-94
n1=1470	122	3358	0.8	12.094	GKS11 - 3M□□□ 225N22	
	118	3453	1.3	12.435	GKS14 - 3M□□□ 225N22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-bevel geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
45 kW					**GKS □□ - 3M**	**6-94**
n1=1470	112	3652	0.8	13.154	GKS11 - 3M□□□ 225N22	
	109	3755	1.3	13.525	GKS14 - 3M□□□ 225N22	
	88	4622	1.3	16.646	GKS14 - 3M□□□ 225N22	
	80	5084	1.2	18.311	GKS14 - 3M□□□ 225N22	
	75	5419	0.8	19.515	GKS11 - 3M□□□ 225N22	
	73	5572	1.3	20.065	GKS14 - 3M□□□ 225N22	
	65	6278	1.3	22.609	GKS14 - 3M□□□ 225N22	
	60	6857	1.3	24.696	GKS14 - 3M□□□ 225N22	
	54	7543	1.2	27.165	GKS14 - 3M□□□ 225N22	
	48	8499	1.2	30.609	GKS14 - 3M□□□ 225N22	
	42	9633	1.0	34.692	GKS14 - 3M□□□ 225N22	
	38	10854	1.0	39.089	GKS14 - 3M□□□ 225N22	
	35	11810	0.9	42.531	GKS14 - 3M□□□ 225N22	
	31	13307	0.8	47.923	GKS14 - 3M□□□ 225N22	

Thermal power limit not considered (see page 2-4)



$M_2 \leq 190$ Nm

GKS 04 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
5.123	P_1 M_2		2.23 37	3.04 50	3.75 62		1.37 46	1.87 62	2.31 77		0.73 48	1.21 80	1.21 80
7.026	P_1 M_2		2.23 51	3.04 69	3.30 75		1.37 63	1.87 85	2.03 93		0.73 66	1.02 93	1.02 93
8.167	P_1 M_2		2.23 59	3.04 80	3.75 99		1.37 73	1.87 99	2.31 122		0.73 77	1.21 128	1.21 128
8.991	P_1 M_2		2.23 65	2.87 84	2.87 84		1.37 80	1.77 103	1.77 103		0.78 90	0.88 103	0.88 103
9.836	P_1 M_2		2.23 71	2.71 86	2.71 86		1.37 88	1.67 106	1.67 106		0.74 94	0.83 106	0.83 106
11.730	P_1 M_2		2.23 85	3.04 115	3.75 143		1.37 104	1.87 142	2.31 175		0.73 110	1.18 180	1.18 180
13.067	P_1 M_2		2.23 95	3.04 129	3.17 134		1.37 116	1.87 158	1.95 165		0.73 123	0.97 165	0.97 165
14.333	P_1 M_2		2.23 104	2.87 133	2.87 133		1.37 128	1.77 164	1.77 164		0.78 144	0.88 164	0.88 164
16.087	P_1 M_2		2.23 116	2.82 147	2.82 147		1.37 143	1.74 181	1.74 181		0.73 151	0.87 181	0.87 181
17.920	P_1 M_2		2.23 130	2.32 135	2.32 135		1.37 160	1.43 166	1.43 166		0.72 166	0.72 166	0.72 166
20.588	P_1 M_2		2.22 148	2.22 148	2.22 148		1.36 182	1.36 182	1.36 182		0.68 182	0.68 182	0.68 182
22.522	P_1 M_2		2.03 148	2.03 148	2.03 148		1.25 182	1.25 182	1.25 182		0.62 182	0.62 182	0.62 182
25.088	P_1 M_2		1.67 136	1.67 136	1.67 136		1.03 167	1.03 167	1.03 167		0.51 167	0.51 167	0.51 167
28.727	P_1 M_2		1.60 149	1.60 149	1.60 149		0.98 183	0.98 183	0.98 183		0.49 183	0.49 183	0.49 183
32.000	P_1 M_2		1.31 136	1.31 136	1.31 136		0.81 167	0.81 167	0.81 167		0.40 167	0.40 167	0.40 167
35.191	P_1 M_2		1.30 149	1.30 149	1.30 149		0.80 183	0.80 183	0.80 183		0.40 183	0.40 183	0.40 183
39.200	P_1 M_2		1.07 136	1.07 136	1.07 136		0.66 168	0.66 168	0.66 168		0.33 168	0.33 168	0.33 168
44.240	P_1 M_2	1.19 171	1.19 171	1.19 171		0.65 185	0.65 185	0.65 185		0.32 185	0.32 185	0.32 185	
50.943	P_1 M_2		1.02 168	1.02 168	1.02 168		0.55 182	0.55 182	0.55 182		0.28 182	0.28 182	0.28 182
56.976	P_1 M_2	0.94 173	0.94 173	0.94 173		0.51 187	0.51 187	0.51 187		0.25 187	0.25 187	0.25 187	
64.978	P_1 M_2		0.80 169	0.80 169	0.80 169		0.44 183	0.44 183	0.44 183		0.22 183	0.22 183	0.22 183
72.210	P_1 M_2	0.75 175	0.75 175			0.41 190	0.41 190			0.20 190	0.20 190		
79.599	P_1 M_2		0.66 169	0.66 169	0.66 169		0.36 183	0.36 183	0.36 183		0.18 183	0.18 183	0.18 183

Thermal power limit not considered (see page 2-4)

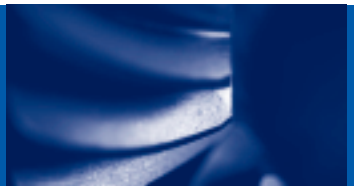
M_2 ≤ 190 Nm

GKS 04 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
90.491	P_1 M_2	0.60 175	0.60 175			0.32 190	0.32 190			0.16 190	0.16 190		
100.067	P_1 M_2	0.53 171	0.53 171	0.53 171		0.29 185	0.29 185	0.29 185		0.14 185	0.14 185	0.14 185	
111.467	P_1 M_2	0.47 170	0.47 170	0.47 170		0.24 170	0.24 170	0.24 170		0.12 170	0.12 170	0.12 170	
128.874	P_1 M_2	0.45 187	0.45 187	0.45 187		0.22 187	0.22 187	0.22 187		0.11 187	0.11 187	0.11 187	
143.556	P_1 M_2	0.37 172	0.37 172	0.37 172		0.19 172	0.19 172	0.19 172		0.09 172	0.09 172	0.09 172	
163.332	P_1 M_2	0.36 190	0.36 190			0.18 190	0.18 190			0.09 190	0.09 190		
181.939	P_1 M_2	0.30 174	0.30 174			0.15 174	0.15 174			0.07 174	0.07 174		
204.682	P_1 M_2	0.29 190	0.29 190			0.14 190	0.14 190			0.07 190	0.07 190		
228.000	P_1 M_2	0.24 177	0.24 177			0.12 177	0.12 177			0.06 177	0.06 177		
269.660	P_1 M_2	0.22 190				0.11 190				0.05 190			
300.381	P_1 M_2	0.18 178				0.09 178				0.05 178			

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 331$ Nm

GKS 05 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	71 100/112	80 71	90 80	100/112	71 80/90	80 71	90 80	100/112	71 80/90	80 80	90 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
6.863	P_1 M_2			3.75 83	5.39 120			2.31 103	3.32 147			1.54 137	1.66 147
9.412	P_1 M_2			3.75 114	4.39 134			2.31 141	2.70 165			1.35 165	1.35 165
10.569	P_1 M_2			3.75 128	5.39 184			2.31 158	3.32 227			1.54 211	1.66 227
11.667	P_1 M_2			3.75 142	5.39 204			2.31 175	3.32 251			1.54 233	1.66 251
13.177	P_1 M_2	2.23 95	3.04 130	3.15 134	3.15 134	1.37 117	1.87 160	1.94 165	1.94 165	0.73 124	0.97 165	0.97 165	0.97 165
14.494	P_1 M_2			3.75 176	4.39 206			2.31 217	2.70 254			1.35 254	1.35 254
16.000	P_1 M_2			3.75 194	4.39 227			2.31 239	2.70 280			1.35 280	1.35 280
17.054	P_1 M_2			3.75 207	4.61 255			2.31 255	2.84 313			1.42 313	1.42 313
19.216	P_1 M_2			3.75 233	3.88 241			2.31 287	2.39 297			1.19 297	1.19 297
23.388	P_1 M_2			3.53 267	3.53 267			2.17 329	2.17 329			1.09 329	1.09 329
26.353	P_1 M_2			2.84 242	2.84 242			1.75 298	1.75 298			0.87 298	0.87 298
29.931	P_1 M_2		2.76 268	2.76 268	2.76 268		1.70 330	1.70 330	1.70 330		0.85 330	0.85 330	0.85 330
32.744	P_1 M_2	2.23 237	2.53 269	2.53 269	2.53 269	1.37 292	1.56 331	1.56 331	1.56 331	0.73 308	0.78 331	0.78 331	0.78 331
36.894	P_1 M_2	2.05 245	2.05 245	2.05 245	2.05 245	1.26 302	1.26 302	1.26 302	1.26 302	0.63 302	0.63 302	0.63 302	0.63 302
41.765	P_1 M_2	1.99 269	1.99 269	1.99 269	1.99 269	1.22 331	1.22 331	1.22 331	1.22 331	0.61 331	0.61 331	0.61 331	0.61 331
47.059	P_1 M_2	1.84 281	1.84 281	1.84 281	1.84 281	1.00 304	1.00 304	1.00 304	1.00 304	0.50 304	0.50 304	0.50 304	0.50 304
51.162	P_1 M_2		1.84 305	1.84 305	1.84 305		1.00 331	1.00 331	1.00 331		0.50 331	0.50 331	0.50 331
57.647	P_1 M_2		1.52 283	1.52 283	1.52 283		0.82 307	0.82 307	0.82 307		0.41 307	0.41 307	0.41 307
66.592	P_1 M_2	1.42 305	1.42 305	1.42 305		0.77 331	0.77 331	0.77 331		0.38 331	0.38 331	0.38 331	
75.033	P_1 M_2	1.18 286	1.18 286	1.18 286		0.64 310	0.64 310	0.64 310		0.32 310	0.32 310	0.32 310	
82.833	P_1 M_2	1.14 305	1.14 305	1.14 305		0.62 331	0.62 331	0.62 331		0.31 331	0.31 331	0.31 331	
93.333	P_1 M_2	0.96 291	0.96 291	0.96 291		0.52 315	0.52 315	0.52 315		0.26 315	0.26 315	0.26 315	
107.196	P_1 M_2	0.88 305	0.88 305			0.48 331	0.48 331			0.24 331	0.24 331		

Thermal power limit not considered (see page 2-4)

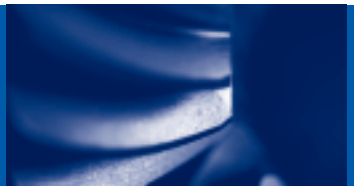
$M_{2\ perm} \leq 331$ Nm

GKS 05 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	71 100/112	80 71	90 80	100/112	71 80/90	80 71	90 80	100/112	71 80/90	80 80	90 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
120.784	P_1 M_2	0.81 315	0.81 315			0.40 315	0.40 315			0.20 315	0.20 315		
130.097	P_1 M_2	0.79 331	0.79 331			0.39 331	0.39 331			0.20 331	0.20 331		
146.588	P_1 M_2	0.66 315	0.66 315			0.33 315	0.33 315			0.17 315	0.17 315		
166.276	P_1 M_2	0.61 331				0.31 331				0.15 331			
187.353	P_1 M_2	0.52 315				0.26 315				0.13 315			
211.200	P_1 M_2	0.46 314	0.46 314			0.23 314	0.23 314			0.12 314	0.12 314		
227.484	P_1 M_2	0.38 278	0.38 278			0.19 278	0.19 278			0.09 278	0.09 278		
256.320	P_1 M_2	0.38 313	0.38 313			0.19 313	0.19 313			0.09 313	0.09 313		
290.745	P_1 M_2	0.29 277				0.15 277				0.07 277			
327.600	P_1 M_2	0.29 312				0.15 312				0.07 312			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 325$ Nm

GKS 05 - 4 N

Dimensions page 6-126

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**1A**	**□B**	**□C**	**1A**	**□B**	**□C**	**1A**	**□B**	**□C**
i	P_{1perm} [kW] M_{2perm} [Nm]									
95.238	P_1 M_2	0.51 156	0.51 156	0.51 156	0.28 169	0.28 169	0.28 169	0.14 169	0.14 169	0.14 169
114.987	P_1 M_2	0.68 250	0.68 250	0.68 250	0.34 250	0.34 250	0.34 250	0.17 250	0.17 250	0.17 250
126.933	P_1 M_2	0.70 284	0.70 284	0.70 284	0.35 284	0.35 284	0.35 284	0.18 284	0.18 284	0.18 284
146.667	P_1 M_2	0.54 250	0.54 250	0.54 250	0.27 250	0.27 250	0.27 250	0.13 250	0.13 250	0.13 250
161.905	P_1 M_2	0.55 284	0.55 284	0.55 284	0.28 284	0.28 284	0.28 284	0.14 284	0.14 284	0.14 284
185.547	P_1 M_2	0.55 325	0.55 325	0.55 325	0.28 325	0.28 325	0.28 325	0.14 325	0.14 325	0.14 325
209.067	P_1 M_2	0.47 315	0.47 315	0.47 315	0.24 315	0.24 315	0.24 315	0.12 315	0.12 315	0.12 315
225.867	P_1 M_2	0.35 250	0.35 250	0.35 250	0.17 250	0.17 250	0.17 250	0.09 250	0.09 250	0.09 250
236.667	P_1 M_2	0.43 325	0.43 325	0.43 325	0.22 325	0.22 325	0.22 325	0.11 325	0.11 325	0.11 325
289.917	P_1 M_2		0.35 325	0.35 325		0.18 325	0.18 325		0.09 325	0.09 325
326.667	P_1 M_2		0.30 315	0.30 315		0.15 315	0.15 315		0.08 315	0.08 315
364.467	P_1 M_2	0.28 325	0.28 325	0.28 325	0.14 325	0.14 325	0.14 325	0.07 325	0.07 325	0.07 325
410.667	P_1 M_2	0.24 315	0.24 315	0.24 315	0.12 315	0.12 315	0.12 315	0.06 315	0.06 315	0.06 315
469.389	P_1 M_2	0.22 325	0.22 325	0.22 325	0.11 325	0.11 325	0.11 325	0.05 325	0.05 325	0.05 325
510.000	P_1 M_2	0.18 284	0.18 284		0.09 284	0.09 284		0.04 284	0.04 284	
528.889	P_1 M_2	0.19 315	0.19 315	0.19 315	0.09 315	0.09 315	0.09 315	0.05 315	0.05 315	0.05 315
594.894	P_1 M_2	0.17 325	0.17 325		0.09 325	0.09 325		0.04 325	0.04 325	
670.303	P_1 M_2	0.15 315	0.15 315		0.07 315	0.07 315		0.04 315	0.04 315	
820.760	P_1 M_2	0.12 325	0.12 325	0.12 325	0.06 325	0.06 325	0.06 325	0.03 325	0.03 325	0.03 325
924.800	P_1 M_2	0.11 315	0.11 315	0.11 315	0.05 315	0.05 315	0.05 315	0.03 315	0.03 315	0.03 315
1040.215	P_1 M_2	0.10 325	0.10 325		0.05 325	0.05 325		0.03 325	0.03 325	

Thermal power limit not considered (see page 2-4)

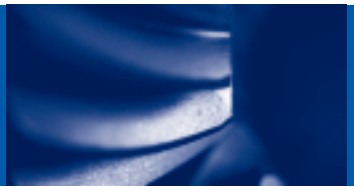
$M_{2\ perm} \leq 325$ Nm

GKS 05 - 4 N

Dimensions page 6-126

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**1A**	**□B**	**□C**	**1A**	**□B**	**□C**	**1A**	**□B**	**□C**
i	P_{1perm} [kW] M_{2perm} [Nm]									
1172.073	P_1 M_2	0.08 315	0.08 315		0.04 315	0.04 315		0.02 315	0.02 315	
1303.560	P_1 M_2	0.08 325	0.08 325		0.04 325	0.04 325		0.02 325	0.02 325	
1468.800	P_1 M_2	0.07 315	0.07 315		0.03 315	0.03 315		0.02 315	0.02 315	
1717.389	P_1 M_2	0.06 325			0.03 325			0.02 325		
1935.086	P_1 M_2	0.05 315			0.03 315			0.01 315		

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 702$ Nm

GKS 06 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
6.485	P_1 M_2				10.2 214	10.2 214				6.26 263	6.26 263				3.13 263	3.13 263
9.196	P_1 M_2				10.2 303	10.2 303				6.26 373	6.26 373				3.13 373	3.13 373
10.147	P_1 M_2				10.2 334	10.2 334				6.26 412	6.26 412				3.13 412	3.13 412
11.382	P_1 M_2			3.75 138	7.30 269	7.30 269			2.31 170	4.49 331	4.49 331			1.54 227	2.25 331	2.25 331
12.612	P_1 M_2				8.47 346	8.47 346				5.21 426	5.21 426				2.61 426	2.61 426
14.824	P_1 M_2				10.2 488	10.2 488				6.25 600	6.25 600				3.13 600	3.13 600
16.699	P_1 M_2				9.07 491	9.07 491				5.58 604	5.58 604				2.79 604	2.79 604
17.809	P_1 M_2			3.75 216	7.30 421	7.30 421			2.31 266	4.49 518	4.49 518			1.54 355	2.25 518	2.25 518
20.329	P_1 M_2				8.20 540	8.20 540				5.05 665	5.05 665				2.53 665	2.53 665
22.902	P_1 M_2				6.63 492	6.63 492				4.08 606	4.08 606				2.04 606	2.04 606
26.017	P_1 M_2			3.75 316	6.54 551	6.54 551			2.31 389	4.03 679	4.03 679			1.54 519	2.01 679	2.01 679
28.461	P_1 M_2			3.75 346	6.01 554	6.01 554			2.31 426	3.70 682	3.70 682			1.54 568	1.85 682	1.85 682
32.063	P_1 M_2			3.75 390	4.77 495	4.77 495			2.31 480	2.94 610	2.94 610			1.47 610	1.47 610	1.47 610
36.303	P_1 M_2		3.04 357	3.75 441	4.73 556	4.73 556		1.87 440	2.31 543	2.91 685	2.91 685		1.25 586	1.46 685	1.46 685	1.46 685
41.472	P_1 M_2				4.17 560	4.17 560				2.56 689	2.56 689				1.28 689	1.28 689
44.471	P_1 M_2			4.26 614	4.41 636	4.41 636			2.31 665	2.39 689	2.39 689			1.20 689	1.20 689	1.20 689
53.074	P_1 M_2			3.73 641	3.73 641	3.73 641			2.02 695	2.02 695	2.02 695			1.01 695	1.01 695	1.01 695
57.882	P_1 M_2		3.42 641	3.42 641	3.42 641			1.85 695	1.85 695	1.85 695			0.93 695	0.93 695	0.93 695	
65.207	P_1 M_2		2.73 576	2.73 576	2.73 576			1.48 624	1.48 624	1.48 624			0.74 624	0.74 624	0.74 624	
72.000	P_1 M_2		2.78 648	2.78 648	2.78 648			1.51 702	1.51 702	1.51 702			0.75 702	0.75 702	0.75 702	
81.111	P_1 M_2		2.21 581	2.21 581	2.21 581			1.20 630	1.20 630	1.20 630			0.60 630	0.60 630	0.60 630	
93.177	P_1 M_2	1.63 491	2.15 648	2.15 648			0.88 532	1.16 702	1.16 702			0.44 532	0.58 702	0.58 702		
104.967	P_1 M_2	1.63 553	1.72 586	1.72 586			0.88 599	0.93 635	0.93 635			0.44 599	0.47 635	0.47 635		

Thermal power limit not considered (see page 2-4)

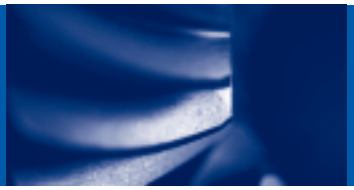
$M_{2\,perm} \leq 702$ Nm

GKS 06 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
113.082	P_1 M_2	1.47 539	1.92 702	1.92 702			0.74 539	0.96 702	0.96 702			0.37 539	0.48 702	0.48 702		
127.392	P_1 M_2	1.47 607	1.54 635	1.54 635			0.74 607	0.77 635	0.77 635			0.37 607	0.39 635	0.39 635		
142.941	P_1 M_2	1.18 546	1.52 702				0.59 546	0.76 702				0.30 546	0.38 702			
161.029	P_1 M_2	1.18 615	1.22 635				0.59 615	0.61 635				0.30 615	0.30 635			
190.080	P_1 M_2	1.14 702	1.14 702	1.14 702			0.57 702	0.57 702	0.57 702			0.29 702	0.29 702	0.29 702		
214.133	P_1 M_2	0.92 635	0.92 635	0.92 635			0.46 635	0.46 635	0.46 635			0.23 635	0.23 635	0.23 635		
230.688	P_1 M_2	0.94 702	0.94 702	0.94 702			0.47 702	0.47 702	0.47 702			0.24 702	0.24 702	0.24 702		
259.880	P_1 M_2	0.75 635	0.75 635	0.75 635			0.38 635	0.38 635	0.38 635			0.19 635	0.19 635	0.19 635		
291.600	P_1 M_2	0.74 702	0.74 702				0.37 702	0.37 702				0.19 702	0.19 702			
328.500	P_1 M_2	0.60 635	0.60 635				0.30 635	0.30 635				0.15 635	0.15 635			

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 702$ Nm

GKS 06 - 4 N

Dimensions page 6-126

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
103.721	P_1 M_2	1.09 360	1.91 632	1.91 632	1.91 632	0.59 390	1.04 685	1.04 685	1.04 685	0.30 390	0.52 685	0.52 685	0.52 685
113.205	P_1 M_2	1.18 425	1.49 537	1.49 537	1.49 537	0.59 425	0.75 537	0.75 537	0.75 537	0.30 425	0.37 537	0.37 537	0.37 537
127.059	P_1 M_2	1.18 478	1.70 689	1.70 689	1.70 689	0.59 478	0.85 689	0.85 689	0.85 689	0.30 478	0.43 689	0.43 689	0.43 689
140.816	P_1 M_2	1.18 529	1.20 537	1.20 537	1.20 537	0.59 529	0.60 537	0.60 537	0.60 537	0.30 529	0.30 537	0.30 537	0.30 537
155.647	P_1 M_2		1.39 689	1.39 689	1.39 689		0.70 689	0.70 689	0.70 689		0.35 689	0.35 689	0.35 689
174.336	P_1 M_2	0.97 537	0.97 537	0.97 537		0.48 537	0.48 537	0.48 537		0.24 537	0.24 537	0.24 537	
202.588	P_1 M_2		1.08 695	1.08 695	1.08 695		0.54 695	0.54 695	0.54 695		0.27 695	0.27 695	0.27 695
224.524	P_1 M_2	0.75 537	0.75 537	0.75 537		0.38 537	0.38 537	0.38 537		0.19 537	0.19 537	0.19 537	
252.000	P_1 M_2		0.88 702	0.88 702	0.88 702		0.44 702	0.44 702	0.44 702		0.22 702	0.22 702	0.22 702
279.286	P_1 M_2	0.60 537	0.60 537	0.60 537		0.30 537	0.30 537	0.30 537		0.15 537	0.15 537	0.15 537	
316.800	P_1 M_2	0.70 702	0.70 702	0.70 702		0.35 702	0.35 702	0.35 702		0.17 702	0.17 702	0.17 702	
361.429	P_1 M_2	0.47 537	0.47 537	0.47 537		0.23 537	0.23 537	0.23 537		0.12 537	0.12 537	0.12 537	
408.000	P_1 M_2	0.54 702	0.54 702	0.54 702		0.27 702	0.27 702	0.27 702		0.14 702	0.14 702	0.14 702	
458.067	P_1 M_2	0.37 537	0.37 537			0.18 537	0.18 537			0.09 537	0.09 537		
517.091	P_1 M_2	0.43 702	0.43 702			0.21 702	0.21 702			0.11 702	0.11 702		
555.927	P_1 M_2	0.30 537	0.30 537			0.15 537	0.15 537			0.08 537	0.08 537		
640.800	P_1 M_2	0.34 702	0.34 702	0.34 702		0.17 702	0.17 702	0.17 702		0.09 702	0.09 702	0.09 702	
696.668	P_1 M_2	0.24 537	0.24 537			0.12 537	0.12 537			0.06 537	0.06 537		
812.137	P_1 M_2	0.27 702	0.27 702			0.14 702	0.14 702			0.07 702	0.07 702		
914.907	P_1 M_2	0.22 635	0.22 635			0.11 635	0.11 635			0.05 635	0.05 635		
1017.741	P_1 M_2	0.22 702	0.22 702			0.11 702	0.11 702			0.05 702	0.05 702		
1146.529	P_1 M_2	0.17 635	0.17 635			0.09 635	0.09 635			0.04 635	0.04 635		
1340.834	P_1 M_2	0.16 702				0.08 702				0.04 702			
1510.507	P_1 M_2	0.13 635				0.07 635				0.03 635			

Thermal power limit not considered (see page 2-4)

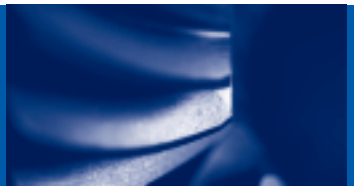
$M_{2\,perm} \leq 1330$ Nm

GKS 07 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H
i	P_{1perm} [kW] M_{2perm} [Nm]																		
5.955	P_1 M_2				10.7 207	19.8 382	19.8 382				6.60 255	12.2 470	12.2 470				4.40 339	6.10 470	6.10 470
8.254	P_1 M_2				10.7 287	16.4 439	16.4 439				6.60 353	10.1 540	10.1 540				4.40 470	5.05 540	5.05 540
9.171	P_1 M_2				10.7 318	19.8 588	19.8 588				6.60 392	12.2 725	12.2 725				4.40 523	6.10 725	6.10 725
10.124	P_1 M_2				10.7 351	19.8 650	19.8 650				6.60 433	12.2 800	12.2 800				4.40 577	6.10 800	6.10 800
11.378	P_1 M_2			10.7 395	10.7 395	13.5 498	13.5 498			6.60 486	6.60 486	8.32 613	8.32 613			4.16 613	4.16 613	4.16 613	4.16 613
12.711	P_1 M_2				10.7 441	16.4 676	16.4 676				6.60 543	10.1 832	10.1 832				4.40 724	5.05 832	5.05 832
14.799	P_1 M_2				10.7 514	17.6 845	17.6 845				6.60 633	10.9 1040	10.9 1040				4.40 843	5.42 1040	5.42 1040
16.674	P_1 M_2				10.7 579	16.1 870	16.1 870				6.60 713	9.91 1071	9.91 1071				4.40 950	4.96 1071	4.96 1071
17.270	P_1 M_2			10.7 600	10.7 600	14.5 811	14.5 811			6.60 738	6.60 738	8.92 998	8.92 998			4.40 984	4.40 984	4.46 998	4.46 998
20.511	P_1 M_2				10.7 712	13.6 902	13.6 902				6.60 877	8.35 1110	8.35 1110				4.18 1110	4.18 1110	4.18 1110
23.111	P_1 M_2				10.7 802	12.7 949	12.7 949				6.60 988	7.80 1168	7.80 1168				3.90 1168	3.90 1168	3.90 1168
25.244	P_1 M_2			10.7 876	10.7 876	11.7 956	11.7 956			6.60 1079	6.60 1079	7.20 1177	7.20 1177			3.60 1177	3.60 1177	3.60 1177	3.60 1177
28.274	P_1 M_2			10.7 976	10.7 976	10.7 976	10.7 976			6.56 1202	6.56 1202	6.56 1202	6.56 1202			3.28 1202	3.28 1202	3.28 1202	3.28 1202
31.858	P_1 M_2			9.22 952	9.22 952	9.22 952	9.22 952			5.68 1172	5.68 1172	5.68 1172	5.68 1172			2.84 1172	2.84 1172	2.84 1172	2.84 1172
36.064	P_1 M_2		3.75 438	8.97 1048	8.97 1048	8.97 1048			2.31 540	5.52 1290	5.52 1290	5.52 1290			1.54 719	2.76 1290	2.76 1290	2.76 1290	
40.906	P_1 M_2				7.91 1048	7.91 1048	7.91 1048				4.87 1290	4.87 1290	4.87 1290				2.43 1290	2.43 1290	2.43 1290
44.178	P_1 M_2			8.38 1200	8.38 1200	8.38 1200				4.54 1300	4.54 1300	4.54 1300				2.27 1300	2.27 1300	2.27 1300	
50.346	P_1 M_2			7.36 1200	7.36 1200	7.36 1200	7.36 1200			3.99 1300	3.99 1300	3.99 1300	3.99 1300			1.99 1300	1.99 1300	1.99 1300	1.99 1300
57.501	P_1 M_2		4.26 794	6.49 1209	6.49 1209				2.31 860	3.52 1310	3.52 1310				1.54 1147	1.76 1310	1.76 1310		
64.790	P_1 M_2		4.26 894	5.25 1103	5.25 1103				2.31 969	2.85 1195	2.85 1195				1.42 1195	1.42 1195	1.42 1195		
70.474	P_1 M_2		4.26 973	5.34 1218	5.34 1218				2.31 1054	2.89 1320	2.89 1320				1.43 1307	1.45 1320	1.45 1320		
79.407	P_1 M_2		4.26 1096	4.32 1112	4.32 1112				2.31 1188	2.34 1205	2.34 1205				1.17 1205	1.17 1205	1.17 1205		
92.563	P_1 M_2	3.11 932	4.09 1227	4.09 1227				1.69 1010	2.22 1330	2.22 1330				0.84 1010	1.11 1330	1.11 1330			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 1330$ Nm

GKS 07 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
104.296	P_1 M_2	3.11 1050	3.32 1121	3.32 1121				1.69 1138	1.80 1215	1.80 1215				0.84 1138	0.90 1215	0.90 1215			
112.338	P_1 M_2	2.81 1024	3.65 1330	3.65 1330				1.41 1024	1.83 1330	1.83 1330				0.70 1024	0.91 1330	0.91 1330			
126.578	P_1 M_2	2.81 1154	2.96 1215	2.96 1215				1.41 1154	1.48 1215	1.48 1215				0.70 1154	0.74 1215	0.74 1215			
140.548	P_1 M_2		2.92 1330	2.92 1330	2.92 1330				1.46 1330	1.46 1330	1.46 1330				0.73 1330	0.73 1330	0.73 1330		
158.364	P_1 M_2		2.37 1215	2.37 1215	2.37 1215				1.18 1215	1.18 1215	1.18 1215				0.59 1215	0.59 1215	0.59 1215		
184.600	P_1 M_2	2.22 1330	2.22 1330	2.22 1330				1.11 1330	1.11 1330	1.11 1330				0.56 1330	0.56 1330	0.56 1330			
208.000	P_1 M_2	1.80 1215	1.80 1215	1.80 1215				0.90 1215	0.90 1215	0.90 1215				0.45 1215	0.45 1215	0.45 1215			
224.037	P_1 M_2	1.83 1330	1.83 1330	1.83 1330				0.92 1330	0.92 1330	0.92 1330				0.46 1330	0.46 1330	0.46 1330			
252.436	P_1 M_2	1.49 1215	1.49 1215	1.49 1215				0.74 1215	0.74 1215	0.74 1215				0.37 1215	0.37 1215	0.37 1215			
283.193	P_1 M_2	1.45 1330	1.45 1330					0.73 1330	0.73 1330					0.36 1330	0.36 1330				
319.091	P_1 M_2	1.18 1215	1.18 1215					0.59 1215	0.59 1215					0.29 1215	0.29 1215				

Thermal power limit not considered (see page 2-4)

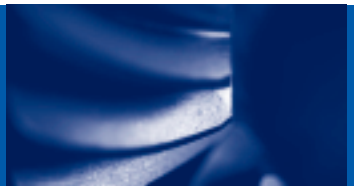
$M_{2\,perm} \leq 1330$ Nm

GKS 07 - 4 N

Dimensions page 6-126

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
103.039	P_1 M_2	2.54 832	3.45 1132	3.63 1190	3.63 1190	1.37 902	1.87 1227	1.97 1290	1.97 1290	0.77 1014	0.98 1290	0.98 1290	0.98 1290
112.391	P_1 M_2	2.75 984	2.94 1053	2.94 1053	2.94 1053	1.37 984	1.47 1053	1.47 1053	1.47 1053	0.74 1053	0.74 1053	0.74 1053	0.74 1053
126.222	P_1 M_2	2.75 1105	3.23 1300	3.23 1300	3.23 1300	1.37 1105	1.62 1300	1.62 1300	1.62 1300	0.77 1242	0.81 1300	0.81 1300	0.81 1300
137.748	P_1 M_2	2.40 1053	2.40 1053	2.40 1053	2.40 1053	1.20 1053	1.20 1053	1.20 1053	1.20 1053	0.60 1053	0.60 1053	0.60 1053	0.60 1053
154.622	P_1 M_2		2.64 1300	2.64 1300	2.64 1300		1.32 1300	1.32 1300	1.32 1300		0.66 1300	0.66 1300	0.66 1300
179.201	P_1 M_2	1.85 1053	1.85 1053	1.85 1053		0.92 1053	0.92 1053	0.92 1053		0.46 1053	0.46 1053	0.46 1053	
201.254	P_1 M_2		2.04 1310	2.04 1310	2.04 1310		1.02 1310	1.02 1310	1.02 1310		0.51 1310	0.51 1310	0.51 1310
222.909	P_1 M_2	1.48 1053	1.48 1053	1.48 1053		0.74 1053	0.74 1053	0.74 1053		0.37 1053	0.37 1053	0.37 1053	
246.659	P_1 M_2		1.68 1320	1.68 1320	1.68 1320		0.84 1320	0.84 1320	0.84 1320		0.42 1320	0.42 1320	0.42 1320
273.199	P_1 M_2	1.21 1053	1.21 1053	1.21 1053		0.61 1053	0.61 1053	0.61 1053		0.30 1053	0.30 1053	0.30 1053	
321.049	P_1 M_2	1.29 1320	1.29 1320	1.29 1320		0.65 1320	0.65 1320	0.65 1320		0.32 1320	0.32 1320	0.32 1320	
358.829	P_1 M_2	0.92 1053	0.92 1053	0.92 1053		0.46 1053	0.46 1053	0.46 1053		0.23 1053	0.23 1053	0.23 1053	
399.353	P_1 M_2	1.04 1320	1.04 1320	1.04 1320		0.52 1320	0.52 1320	0.52 1320		0.26 1320	0.26 1320	0.26 1320	
464.367	P_1 M_2	0.71 1053	0.71 1053			0.36 1053	0.36 1053			0.18 1053	0.18 1053		
516.810	P_1 M_2	0.80 1320	0.80 1320			0.40 1320	0.40 1320			0.20 1320	0.20 1320		
563.573	P_1 M_2	0.59 1053	0.59 1053			0.29 1053	0.29 1053			0.15 1053	0.15 1053		
636.581	P_1 M_2	0.66 1330	0.66 1330	0.66 1330		0.33 1330	0.33 1330	0.33 1330		0.16 1330	0.16 1330	0.16 1330	
683.972	P_1 M_2	0.48 1053	0.48 1053			0.24 1053	0.24 1053			0.12 1053	0.12 1053		
823.810	P_1 M_2	0.51 1330	0.51 1330			0.25 1330	0.25 1330			0.13 1330	0.13 1330		
928.237	P_1 M_2	0.41 1215	0.41 1215			0.21 1215	0.21 1215			0.10 1215	0.10 1215		
999.806	P_1 M_2	0.42 1330	0.42 1330			0.21 1330	0.21 1330			0.10 1330	0.10 1330		
1126.542	P_1 M_2	0.34 1215	0.34 1215			0.17 1215	0.17 1215			0.09 1215	0.09 1215		
1277.842	P_1 M_2	0.33 1330				0.16 1330				0.08 1330			
1439.822	P_1 M_2	0.27 1215				0.13 1215				0.07 1215			

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 3080$ Nm

GKS 09 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		□D	□E	□F	□G	□H	1K	□D	□E	□F	□G	□H	1K	□D	□E	□F	□G	□H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]																		
12.283	P_1				28.6	33.0	33.0				17.6	20.3	20.3				10.2	10.2	10.2
	M_2				1137	1312	1312				1400	1615	1615				1615	1615	1615
13.360	P_1				28.6	33.0	33.0				17.6	20.3	20.3				10.2	10.2	10.2
	M_2				1237	1427	1427				1523	1757	1757				1757	1757	1757
16.122	P_1			10.7	28.0	28.0	28.0			6.60	17.2	17.2	17.2			4.40	8.62	8.62	8.62
	M_2			560	1462	1462	1462			689	1801	1801	1801			919	1801	1801	1801
17.536	P_1			10.7	28.0	28.0	28.0			6.60	17.2	17.2	17.2			4.40	8.62	8.62	8.62
	M_2			609	1591	1591	1591			750	1958	1958	1958			999	1958	1958	1958
19.541	P_1				28.6	33.0	33.0				17.6	20.3	20.3				10.2	10.2	10.2
	M_2				1809	2087	2087				2227	2570	2570				2570	2570	2570
22.022	P_1				28.6	30.4	30.4				17.6	18.7	18.7				9.36	9.36	9.36
	M_2				2039	2170	2170				2510	2672	2672				2672	2672	2672
25.649	P_1			10.7	28.0	28.0	28.0			6.60	17.2	17.2	17.2			4.40	8.61	8.61	8.61
	M_2			890	2325	2325	2325			1096	2862	2862	2862			1462	2862	2862	2862
29.228	P_1			10.7	25.0	25.0				6.60	15.4	15.4				4.40	7.69	7.69	
	M_2			1015	2367	2367				1249	2914	2914				1666	2914	2914	
32.940	P_1			10.7	22.7	22.7				6.60	14.0	14.0				4.40	6.99	6.99	
	M_2			1143	2424	2424				1408	2984	2984				1877	2984	2984	
35.193	P_1		10.7	10.7	21.6	21.6			6.60	6.60	13.3	13.3			4.40	4.40	6.64	6.64	
	M_2		1222	1222	2460	2460			1504	1504	3029	3029			2006	2006	3029	3029	
39.662	P_1		10.7	10.7	19.0	19.0			6.60	6.60	11.7	11.7			4.40	4.40	5.84	5.84	
	M_2		1377	1377	2438	2438			1695	1695	3002	3002			2260	2260	3002	3002	
43.146	P_1			12.2	20.0	20.0				6.60	10.8	10.8				4.40	5.41	5.41	
	M_2			1702	2790	2790				1844	3024	3024				2459	3024	3024	
48.625	P_1			12.2	17.7	17.7				6.60	9.58	9.58				4.40	4.79	4.79	
	M_2			1918	2784	2784				2078	3017	3017				2771	3017	3017	
58.456	P_1		12.2	12.2	14.8				6.60	6.60	8.00				3.53	3.75	4.00		
	M_2		2306	2306	2797				2499	2499	3031				2674	2838	3031		
65.879	P_1		12.2	12.2	13.2				6.60	6.60	7.14				3.53	3.57	3.57		
	M_2		2598	2598	2813				2816	2816	3048				3013	3048	3048		
70.982	P_1		11.2	11.9	12.2				6.06	6.42	6.59				3.03	3.21	3.30		
	M_2		2571	2726	2797				2786	2954	3031				2786	2954	3031		
79.996	P_1		10.9	10.9	10.9				5.93	5.93	5.93				2.96	2.96	2.96		
	M_2		2834	2834	2834				3071	3071	3071				3071	3071	3071		
91.860	P_1	4.26	8.98	9.40				2.31	4.86	5.09				1.44	2.43	2.55			
	M_2	1268	2671	2797				1374	2895	3031				1718	2895	3031			
103.524	P_1	4.26	8.47	8.47				2.31	4.59	4.59				1.44	2.30	2.30			
	M_2	1429	2842	2842				1549	3080	3080				1936	3080	3080			
111.484	P_1	4.62	8.12	8.39				2.31	4.06	4.20				1.21	2.03	2.10			
	M_2	1668	2934	3031				1668	2934	3031				1742	2934	3031			
125.641	P_1	4.62	7.57	7.57				2.31	3.78	3.78				1.21	1.89	1.89			
	M_2	1880	3080	3080				1880	3080	3080				1963	3080	3080			
140.921	P_1	3.87	6.51					1.93	3.26					0.97	1.63				
	M_2	1766	2973					1766	2973					1766	2973				

Thermal power limit not considered (see page 2-4)

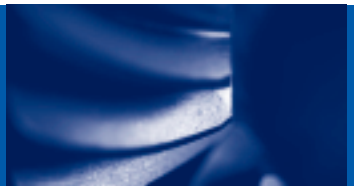
$M_{2\ perm} \leq 3080$ Nm

GKS 09 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	200
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**	**□D**	**□E**	**□F**	**□G**	**□H**	**1K**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
158.816	P_1 M_2	3.87 1990	5.99 3080					1.93 1990	2.99 3080					0.97 1990	1.50 3080				
182.000	P_1 M_2	4.62 2723	5.14 3031	5.14 3031				2.31 2723	2.57 3031	2.57 3031				1.29 3031	1.29 3031	1.29 3031			
205.111	P_1 M_2	4.62 3069	4.64 3080	4.64 3080				2.31 3069	2.32 3080	2.32 3080				1.16 3080	1.16 3080	1.16 3080			
220.882	P_1 M_2	4.24 3031	4.24 3031	4.24 3031				2.12 3031	2.12 3031	2.12 3031				1.06 3031	1.06 3031	1.06 3031			
248.930	P_1 M_2	3.82 3080	3.82 3080	3.82 3080				1.91 3080	1.91 3080	1.91 3080				0.96 3080	0.96 3080	0.96 3080			
279.205	P_1 M_2	3.35 3031	3.35 3031					1.68 3031	1.68 3031					0.84 3031	0.84 3031				
314.659	P_1 M_2	3.02 3080	3.02 3080					1.51 3080	1.51 3080					0.76 3080	0.76 3080				

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 3080$ Nm

GKS 09 - 4 N

Dimensions page 6-126

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
100.551	P_1 M_2		3.45 1105	4.26 1364	8.73 2795	8.73 2795		1.87 1197	2.31 1479	4.73 3029	4.73 3029		1.25 1596	1.54 1972	2.37 3029	2.37 3029
113.320	P_1 M_2		3.74 1349	4.62 1666	8.32 3002	8.32 3002		1.87 1349	2.31 1666	4.16 3002	4.16 3002		1.25 1799	1.54 2222	2.08 3002	2.08 3002
123.275	P_1 M_2		3.74 1468	4.62 1813	7.70 3024	7.70 3024		1.87 1468	2.31 1813	3.85 3024	3.85 3024		1.25 1957	1.54 2417	1.93 3024	1.93 3024
138.929	P_1 M_2		3.74 1654	4.62 2043	6.82 3017	6.82 3017		1.87 1654	2.31 2043	3.41 3017	3.41 3017		1.25 2205	1.54 2724	1.71 3017	1.71 3017
151.012	P_1 M_2			4.62 2221	6.29 3024	6.29 3024			2.31 2221	3.14 3024	3.14 3024			1.54 2961	1.57 3024	1.57 3024
170.188	P_1 M_2			4.62 2503	5.57 3017	5.57 3017			2.31 2503	2.78 3017	2.78 3017			1.39 3017	1.39 3017	1.39 3017
204.596	P_1 M_2			4.62 3009	4.65 3031	4.65 3031			2.31 3009	2.33 3031	2.33 3031			1.16 3031	1.16 3031	1.16 3031
230.577	P_1 M_2			4.15 3048	4.15 3048	4.15 3048			2.08 3048	2.08 3048	2.08 3048			1.04 3048	1.04 3048	1.04 3048
248.439	P_1 M_2			3.83 3031	3.83 3031	3.83 3031			1.92 3031	1.92 3031	1.92 3031			0.96 3031	0.96 3031	0.96 3031
279.986	P_1 M_2			3.44 3071	3.44 3071	3.44 3071			1.72 3071	1.72 3071	1.72 3071			0.86 3071	0.86 3071	0.86 3071
323.365	P_1 M_2		2.94 3031	2.94 3031	2.94 3031			1.47 3031	1.47 3031	1.47 3031			0.74 3031	0.74 3031	0.74 3031	
364.427	P_1 M_2		2.65 3071	2.65 3071	2.65 3071			1.32 3071	1.32 3071	1.32 3071			0.66 3071	0.66 3071	0.66 3071	
402.234	P_1 M_2		2.37 3031	2.37 3031	2.37 3031			1.18 3031	1.18 3031	1.18 3031			0.59 3031	0.59 3031	0.59 3031	
453.311	P_1 M_2		2.13 3071	2.13 3071	2.13 3071			1.06 3071	1.06 3071	1.06 3071			0.53 3071	0.53 3071	0.53 3071	
520.538	P_1 M_2		1.83 3031	1.83 3031	1.83 3031			0.91 3031	0.91 3031	0.91 3031			0.46 3031	0.46 3031	0.46 3031	
586.638	P_1 M_2		1.65 3080	1.65 3080	1.65 3080			0.82 3080	0.82 3080	0.82 3080			0.41 3080	0.41 3080	0.41 3080	
631.744	P_1 M_2		1.51 3031	1.51 3031	1.51 3031			0.75 3031	0.75 3031	0.75 3031			0.38 3031	0.38 3031	0.38 3031	
711.965	P_1 M_2		1.36 3080	1.36 3080	1.36 3080			0.68 3080	0.68 3080	0.68 3080			0.34 3080	0.34 3080	0.34 3080	
817.551	P_1 M_2	1.16 3031	1.16 3031	1.16 3031			0.58 3031	0.58 3031	0.58 3031			0.29 3031	0.29 3031	0.29 3031		
921.367	P_1 M_2	1.05 3080	1.05 3080	1.05 3080			0.53 3080	0.53 3080	0.53 3080			0.26 3080	0.26 3080	0.26 3080		
992.209	P_1 M_2	0.96 3031	0.96 3031	0.96 3031			0.48 3031	0.48 3031	0.48 3031			0.24 3031	0.24 3031	0.24 3031		
1118.204	P_1 M_2	0.87 3080	0.87 3080	0.87 3080			0.43 3080	0.43 3080	0.43 3080			0.22 3080	0.22 3080	0.22 3080		
1254.197	P_1 M_2	0.76 3031	0.76 3031				0.38 3031	0.38 3031				0.19 3031	0.19 3031			
1413.461	P_1 M_2	0.68 3080	0.68 3080				0.34 3080	0.34 3080				0.17 3080	0.17 3080			

Thermal power limit not considered (see page 2-4)

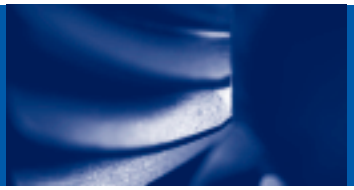
$M_{2\,perm} \leq 6072$ Nm

GKS 11 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2																
Drive size		□E	□F	□G	□H	□K	□E	□F	□G	□H	□K	□E	□F	□G	□H	□K
i	P_{1perm} [kW] M_{2perm} [Nm]															
12.094	P_1				57.4	57.4				35.4	35.4				17.7	17.7
	M_2				2250	2250				2770	2770				2770	2770
13.154	P_1				57.4	57.4				35.4	35.4				17.7	17.7
	M_2				2447	2447				3013	3013				3013	3013
15.874	P_1				48.8	48.8				30.0	30.0				15.0	15.0
	M_2				2509	2509				3089	3089				3089	3089
17.265	P_1				48.8	48.8				30.0	30.0				15.0	15.0
	M_2				2729	2729				3360	3360				3360	3360
19.515	P_1				57.4	57.4				35.4	35.4				17.7	17.7
	M_2				3630	3630				4470	4470				4470	4470
21.989	P_1				55.7	55.7				34.3	34.3				17.1	17.1
	M_2				3967	3967				4884	4884				4884	4884
25.615	P_1				48.8	48.8				30.0	30.0				15.0	15.0
	M_2				4049	4049				4985	4985				4985	4985
28.021	P_1			28.6	46.2	46.2			17.6	28.4	28.4			11.7	14.2	14.2
	M_2			2594	4193	4193			3194	5163	5163			4259	5163	5163
31.573	P_1			28.6	43.8	43.8			17.6	27.0	27.0			11.7	13.5	13.5
	M_2			2923	4484	4484			3599	5521	5521			4798	5521	5521
35.741	P_1		10.7	28.6	39.7	39.7		6.60	17.6	24.4	24.4		4.40	11.7	12.2	12.2
	M_2		1241	3309	4593	4593		1528	4074	5655	5655		2037	5432	5655	5655
40.272	P_1		10.7	28.6	36.5	36.5		6.60	17.6	22.5	22.5		4.40	11.3	11.3	11.3
	M_2		1398	3728	4767	4767		1721	4590	5869	5869		2295	5869	5869	5869
43.783	P_1			32.5	37.7	37.7			17.6	20.4	20.4			10.2	10.2	10.2
	M_2			4605	5352	5352			4991	5800	5800			5800	5800	5800
49.333	P_1			32.5	34.2	34.2			17.6	18.5	18.5			9.27	9.27	9.27
	M_2			5189	5466	5466			5623	5923	5923			5923	5923	5923
57.683	P_1		12.2	29.5	29.5			6.60	16.0	16.0			4.40	7.99	7.99	
	M_2		2275	5511	5511			2466	5972	5972			3287	5972	5972	
64.995	P_1		12.2	26.3	26.3			6.60	14.2	14.2			4.40	7.11	7.11	
	M_2		2564	5529	5529			2778	5992	5992			3704	5992	5992	
70.887	P_1		12.2	24.0	24.0			6.60	13.0	13.0			3.92	6.50	6.50	
	M_2		2796	5512	5512			3030	5973	5973			3600	5973	5973	
79.873	P_1		12.2	21.5	21.5			6.60	11.7	11.7			3.92	5.83	5.83	
	M_2		3150	5566	5566			3414	6032	6032			4057	6032	6032	
91.737	P_1	10.9	11.6	18.6			5.91	6.30	10.1			2.95	3.15	5.03		
	M_2	3239	3454	5513			3510	3743	5975			3510	3743	5975		
103.365	P_1	10.9	11.6	16.7			5.91	6.30	9.07			2.95	3.15	4.53		
	M_2	3649	3892	5603			3955	4218	6072			3955	4218	6072		
111.335	P_1	9.87	10.5	16.6			4.93	5.26	8.28			2.47	2.63	4.14		
	M_2	3559	3793	5975			3559	3793	5975			3559	3793	5975		
125.448	P_1	9.87	10.5	14.9			4.93	5.26	7.47			2.47	2.63	3.74		
	M_2	4010	4274	6072			4010	4274	6072			4010	4274	6072		
140.732	P_1	7.92	8.43				3.96	4.22				1.98	2.11			
	M_2	3609	3845				3609	3845				3609	3845			
158.571	P_1	7.92	8.43				3.96	4.22				1.98	2.11			
	M_2	4067	4332				4067	4332				4067	4332			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 6072$ Nm

GKS 11 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**□E**	**□F**	**□G**	**□H**	**□K**	**□E**	**□F**	**□G**	**□H**	**□K**	**□E**	**□F**	**□G**	**□H**	**□K**
i	P_{1perm} [kW] M_{2perm} [Nm]															
186.572	P_1 M_2	9.89 5975	9.89 5975	9.89 5975			4.94 5975	4.94 5975	4.94 5975			2.47 5975	2.47 5975	2.47 5975		
210.222	P_1 M_2	8.65 5892	8.65 5892	8.65 5892			4.33 5892	4.33 5892	4.33 5892			2.16 5892	2.16 5892	2.16 5892		
226.431	P_1 M_2	8.15 5975	8.15 5975	8.15 5975			4.07 5975	4.07 5975	4.07 5975			2.04 5975	2.04 5975	2.04 5975		
255.133	P_1 M_2	7.13 5892	7.13 5892	7.13 5892			3.56 5892	3.56 5892	3.56 5892			1.78 5892	1.78 5892	1.78 5892		
286.219	P_1 M_2	6.44 5975	6.44 5975				3.22 5975	3.22 5975				1.61 5975	1.61 5975			
322.500	P_1 M_2	5.64 5892	5.64 5892				2.82 5892	2.82 5892				1.41 5892	1.41 5892			

Thermal power limit not considered (see page 2-4)

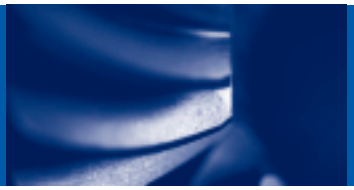
$M_{2\,perm} \leq 6072$ Nm

GKS 11 - 4 N

Dimensions page 6-126

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	80 71	90 80	100/112 80/90	100/112 90	132 100/112	80 71	90 80	100/112 80/90	100/112 90	132 100/112
For the geometrical assignment of servo/DC motors see section 2																
Drive size		□C	□D	□E	□F	□G	□C	□D	□E	□F	□G	□C	□D	□E	□F	□G
i	P_{1perm} [kW] M_{2perm} [Nm]															
102.119	P_1 M_2		4.26 1386	12.2 3959	12.2 3959	16.1 5218		2.31 1502	6.60 4291	6.60 4291	8.69 5655		1.54 2002	3.97 5160	4.15 5400	4.35 5655
115.063	P_1 M_2		4.62 1692	13.2 4835	13.2 4835	16.0 5869		2.31 1692	6.60 4835	6.60 4835	8.01 5869		1.54 2256	3.97 5814	4.00 5869	4.00 5869
125.095	P_1 M_2		4.62 1840	13.2 5256	13.2 5256	14.6 5800		2.31 1840	6.60 5256	6.60 5256	7.28 5800		1.54 2453	3.64 5800	3.64 5800	3.64 5800
140.952	P_1 M_2		4.62 2073	13.2 5922	13.2 5922	13.2 5923		2.31 2073	6.60 5922	6.60 5922	6.60 5923		1.54 2764	3.30 5923	3.30 5923	3.30 5923
153.242	P_1 M_2			11.9 5800	11.9 5800	11.9 5800			5.94 5800	5.94 5800	5.94 5800			2.97 5800	2.97 5800	2.97 5800
172.667	P_1 M_2			10.8 5923	10.8 5923	10.8 5923			5.39 5923	5.39 5923	5.39 5923			2.69 5923	2.69 5923	2.69 5923
201.890	P_1 M_2			9.29 5972	9.29 5972	9.29 5972			4.64 5972	4.64 5972	4.64 5972			2.32 5972	2.32 5972	2.32 5972
227.481	P_1 M_2			8.27 5992	8.27 5992	8.27 5992			4.14 5992	4.14 5992	4.14 5992			2.07 5992	2.07 5992	2.07 5992
248.106	P_1 M_2			7.56 5973	7.56 5973	7.56 5973			3.78 5973	3.78 5973	3.78 5973			1.89 5973	1.89 5973	1.89 5973
279.556	P_1 M_2			6.78 6032	6.78 6032	6.78 6032			3.39 6032	3.39 6032	3.39 6032			1.69 6032	1.69 6032	1.69 6032
322.931	P_1 M_2		4.62 4749	5.81 5973	5.81 5973			2.31 4749	2.90 5973	2.90 5973			1.45 5973	1.45 5973	1.45 5973	
363.866	P_1 M_2		4.62 5351	5.21 6032	5.21 6032			2.31 5351	2.60 6032	2.60 6032			1.30 6032	1.30 6032	1.30 6032	
395.787	P_1 M_2		4.62 5820	4.74 5973	4.74 5973			2.31 5820	2.37 5973	2.37 5973			1.19 5973	1.19 5973	1.19 5973	
445.958	P_1 M_2		4.25 6032	4.25 6032	4.25 6032			2.12 6032	2.12 6032	2.12 6032			1.06 6032	1.06 6032	1.06 6032	
512.195	P_1 M_2		3.66 5975	3.66 5975	3.66 5975			1.83 5975	1.83 5975	1.83 5975			0.92 5975	0.92 5975	0.92 5975	
577.122	P_1 M_2		3.30 6072	3.30 6072	3.30 6072			1.65 6072	1.65 6072	1.65 6072			0.83 6072	0.83 6072	0.83 6072	
621.619	P_1 M_2		3.02 5975	3.02 5975	3.02 5975			1.51 5975	1.51 5975	1.51 5975			0.76 5975	0.76 5975	0.76 5975	
700.416	P_1 M_2		2.72 6072	2.72 6072	2.72 6072			1.36 6072	1.36 6072	1.36 6072			0.68 6072	0.68 6072	0.68 6072	
816.455	P_1 M_2	2.30 5975	2.30 5975	2.30 5975			1.15 5975	1.15 5975	1.15 5975			0.57 5975	0.57 5975	0.57 5975		
919.949	P_1 M_2	2.07 6072	2.07 6072	2.07 6072			1.04 6072	1.04 6072	1.04 6072			0.52 6072	0.52 6072	0.52 6072		
990.879	P_1 M_2	1.89 5975	1.89 5975	1.89 5975			0.95 5975	0.95 5975	0.95 5975			0.47 5975	0.47 5975	0.47 5975		
1116.484	P_1 M_2	1.71 6072	1.71 6072	1.71 6072			0.85 6072	0.85 6072	0.85 6072			0.43 6072	0.43 6072	0.43 6072		
1252.516	P_1 M_2	1.50 5975	1.50 5975				0.75 5975	0.75 5975				0.37 5975	0.37 5975			
1411.286	P_1 M_2	1.35 6072	1.35 6072				0.68 6072	0.68 6072				0.34 6072	0.34 6072			

Thermal power limit not considered (see page 2-4)



$M_{2\,perm} \leq 11790$ Nm

GKS 14 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2										
Drive size		□G	□H	□K	□G	□H	□K	□G	□H	□K
i	P_{1perm} [kW] M_{2perm} [Nm]									
12.435	P_1			93.8			57.7			31.0
	M_2			3777			4651			4994
13.525	P_1			93.8			57.7			31.0
	M_2			4108			5058			5432
16.646	P_1		80.4	89.0		49.5	54.8		27.4	27.4
	M_2		4334	4797		5336	5906		5906	5906
18.311	P_1		80.4	83.9		49.5	51.7		25.8	25.8
	M_2		4767	4978		5870	6130		6130	6130
20.065	P_1			93.8			57.7			31.0
	M_2			6095			7505			8059
22.609	P_1			93.8			57.7			31.0
	M_2			6868			8456			9073
24.696	P_1		80.4	89.0		49.5	54.8		27.4	27.4
	M_2		6430	7117		7917	8763		8763	8763
27.165	P_1		80.4	83.9		49.5	51.7		25.8	25.8
	M_2		7073	7386		8709	9094		9094	9094
30.609	P_1		80.4	83.0		49.5	51.1		25.5	25.5
	M_2		7969	8229		9812	10132		10132	10132
34.692	P_1		72.1	72.1		44.4	44.4		22.2	22.2
	M_2		8099	8099		9973	9973		9973	9973
39.089	P_1		70.2	70.2		43.2	43.2		21.6	21.6
	M_2		8883	8883		10937	10937		10937	10937
42.531	P_1		71.9	71.9		39.0	39.0		19.5	19.5
	M_2		9908	9908		10737	10737		10737	10737
47.923	P_1		66.9	66.9		36.3	36.3		18.1	18.1
	M_2		10391	10391		11261	11261		11261	11261
56.251	P_1	32.5	58.3	58.3	17.6	31.6	31.6	10.8	15.8	15.8
	M_2	5916	10632	10632	6412	11522	11522	7860	11522	11522
63.382	P_1	32.5	51.6	51.6	17.6	28.0	28.0	10.8	14.0	14.0
	M_2	6666	10591	10591	7224	11477	11477	8856	11477	11477
68.942	P_1	32.5	47.3		17.6	25.6		9.26	12.8	
	M_2	7251	10569		7858	11454		8271	11454	
77.681	P_1	32.5	42.2		17.6	22.9		9.26	11.4	
	M_2	8170	10630		8854	11520		9319	11520	
90.551	P_1	26.8	36.1		14.5	19.6		7.26	9.79	
	M_2	7863	10601		8521	11488		8521	11488	
102.029	P_1	26.8	32.5		14.5	17.6		7.26	8.80	
	M_2	8860	10740		9601	11639		9601	11639	
109.896	P_1	22.4	30.6		12.1	16.6		6.07	8.28	
	M_2	7973	10879		8640	11790		8640	11790	
123.826	P_1	24.3	29.0		12.1	14.5		6.07	7.25	
	M_2	9735	11639		9735	11639		9735	11639	
138.913	P_1	19.5			9.74			4.87		
	M_2	8765			8765			8765		
156.522	P_1	19.5			9.74			4.87		
	M_2	9876			9876			9876		

Thermal power limit not considered (see page 2-4)

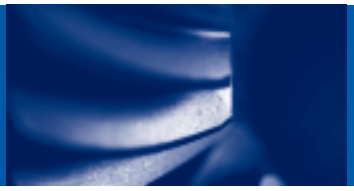
$M_{2\ perm} \leq 11790$ Nm

GKS 14 - 3 N

Dimensions page 6-118

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**□G**	**□H**	**□K**	**□G**	**□H**	**□K**	**□G**	**□H**	**□K**
i	P_{1perm} [kW] M_{2perm} [Nm]									
186.572	P_1 M_2	19.2 11609	19.2 11609		9.60 11609	9.60 11609		4.80 11609	4.80 11609	
210.222	P_1 M_2	17.0 11555	17.0 11555		8.48 11555	8.48 11555		4.24 11555	4.24 11555	
226.431	P_1 M_2	15.8 11609	15.8 11609		7.91 11609	7.91 11609		3.96 11609	3.96 11609	
255.133	P_1 M_2	14.0 11555	14.0 11555		6.99 11555	6.99 11555		3.50 11555	3.50 11555	
286.219	P_1 M_2	12.5 11609			6.26 11609			3.13 11609		
322.500	P_1 M_2	11.1 11555			5.53 11555			2.77 11555		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 11639$ Nm

GKS 14 - 4 N

Dimensions page 6-126

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132	80/90	100/112 80/90	100/112 90	132 100/112	160/180 132
For the geometrical assignment of servo/DC motors see section 2																
Drive size		□D	□E	□F	□G	□H	□D	□E	□F	□G	□H	□D	□E	□F	□G	□H
i	P_{1perm} [kW] M_{2perm} [Nm]															
97.467	P_1 M_2		12.2 3779	12.2 3779	29.7 9202	29.7 9202		6.60 4095	6.60 4095	16.1 9973	16.1 9973		4.40 5460	4.40 5460	8.03 9973	8.03 9973
109.822	P_1 M_2		12.2 4258	12.2 4258	28.9 10093	28.9 10093		6.60 4614	6.60 4614	15.6 10937	15.6 10937		4.40 6153	4.40 6153	7.82 10937	7.82 10937
119.493	P_1 M_2		13.2 5021	13.2 5021	28.2 10737	28.2 10737		6.60 5021	6.60 5021	14.1 10737	14.1 10737		4.40 6694	4.40 6694	7.05 10737	7.05 10737
134.640	P_1 M_2		13.2 5657	13.2 5657	26.3 11261	26.3 11261		6.60 5657	6.60 5657	13.1 11261	13.1 11261		4.40 7543	4.40 7543	6.57 11261	6.57 11261
158.039	P_1 M_2		13.2 6640	13.2 6640	22.9 11522	22.9 11522		6.60 6640	6.60 6640	11.5 11522	11.5 11522		4.40 8854	4.40 8854	5.72 11522	5.72 11522
178.072	P_1 M_2		13.2 7482	13.2 7482	20.2 11477	20.2 11477		6.60 7482	6.60 7482	10.1 11477	10.1 11477		4.40 9976	4.40 9976	5.06 11477	5.06 11477
193.754	P_1 M_2			13.2 8141	18.7 11522	18.7 11522			6.60 8141	9.34 11522	9.34 11522			4.40 10855	4.67 11522	4.67 11522
218.315	P_1 M_2			13.2 9173	16.5 11477	16.5 11477			6.60 9173	8.25 11477	8.25 11477			4.13 11477	4.13 11477	4.13 11477
237.467	P_1 M_2			13.2 9978	15.2 11454	15.2 11454			6.60 9978	7.57 11454	7.57 11454			3.79 11454	3.79 11454	3.79 11454
267.568	P_1 M_2			13.2 11242	13.5 11520	13.5 11520			6.60 11242	6.76 11520	6.76 11520			3.38 11520	3.38 11520	3.38 11520
321.729	P_1 M_2		11.2 11454	11.2 11454	11.2 11454			5.59 11454	5.59 11454	5.59 11454			2.80 11454	2.80 11454	2.80 11454	
362.512	P_1 M_2		9.98 11520	9.98 11520	9.98 11520			4.99 11520	4.99 11520	4.99 11520			2.50 11520	2.50 11520	2.50 11520	
390.672	P_1 M_2		9.21 11454	9.21 11454	9.21 11454			4.60 11454	4.60 11454	4.60 11454			2.30 11454	2.30 11454	2.30 11454	
440.193	P_1 M_2		8.22 11520	8.22 11520	8.22 11520			4.11 11520	4.11 11520	4.11 11520			2.05 11520	2.05 11520	2.05 11520	
513.121	P_1 M_2		7.03 11488	7.03 11488	7.03 11488			3.52 11488	3.52 11488	3.52 11488			1.76 11488	1.76 11488	1.76 11488	
578.164	P_1 M_2		6.32 11639	6.32 11639	6.32 11639			3.16 11639	3.16 11639	3.16 11639			1.58 11639	1.58 11639	1.58 11639	
622.742	P_1 M_2		5.79 11488	5.79 11488	5.79 11488			2.90 11488	2.90 11488	2.90 11488			1.45 11488	1.45 11488	1.45 11488	
701.681	P_1 M_2		5.21 11639	5.21 11639	5.21 11639			2.60 11639	2.60 11639	2.60 11639			1.30 11639	1.30 11639	1.30 11639	
805.901	P_1 M_2	4.48 11488	4.48 11488	4.48 11488			2.24 11488	2.24 11488	2.24 11488			1.12 11488	1.12 11488	1.12 11488		
908.058	P_1 M_2	4.03 11639	4.03 11639	4.03 11639			2.01 11639	2.01 11639	2.01 11639			1.01 11639	1.01 11639	1.01 11639		
978.071	P_1 M_2	3.69 11488	3.69 11488	3.69 11488			1.84 11488	1.84 11488	1.84 11488			0.92 11488	0.92 11488	0.92 11488		
1102.052	P_1 M_2	3.32 11639	3.32 11639	3.32 11639			1.66 11639	1.66 11639	1.66 11639			0.83 11639	0.83 11639	0.83 11639		
1236.326	P_1 M_2	2.92 11488	2.92 11488				1.46 11488	1.46 11488				0.73 11488	0.73 11488			
1393.043	P_1 M_2	2.62 11639	2.62 11639				1.31 11639	1.31 11639				0.66 11639	0.66 11639			

Thermal power limit not considered (see page 2-4)

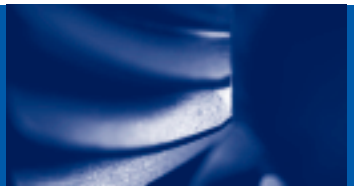
$M_{2\ perm} \leq 190$ Nm

GKS 04 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
5.123	P_1 M_2		2.36 39	3.88 64		1.45 48	2.39 79		0.73 48	1.20 79
7.026	P_1 M_2		2.36 54	3.30 75		1.45 66	2.03 93		0.73 66	1.02 93
8.167	P_1 M_2		2.36 62	3.88 103		1.45 77	2.39 126		0.73 77	1.20 126
8.991	P_1 M_2		2.71 79	2.87 84		1.67 97	1.77 103		0.83 97	0.88 103
9.836	P_1 M_2		2.68 85	2.71 86		1.65 105	1.67 106		0.83 105	0.83 106
11.730	P_1 M_2		2.36 90	3.85 146		1.45 110	2.37 180		0.73 110	1.18 180
13.067	P_1 M_2		2.36 100	3.17 134		1.45 123	1.95 165		0.73 123	0.97 165
14.333	P_1 M_2		2.71 126	2.87 133		1.67 155	1.77 164		0.83 155	0.88 164
16.087	P_1 M_2		2.36 123	2.82 147		1.45 151	1.74 181		0.73 151	0.87 181
17.920	P_1 M_2		2.32 135	2.32 135		1.43 166	1.43 166		0.72 166	0.72 166
20.588	P_1 M_2		2.22 148	2.22 148		1.36 182	1.36 182		0.68 182	0.68 182
22.522	P_1 M_2		2.03 148	2.03 148		1.25 182	1.25 182		0.62 182	0.62 182
25.088	P_1 M_2		1.67 136	1.67 136		1.03 167	1.03 167		0.51 167	0.51 167
28.727	P_1 M_2		1.60 149	1.60 149		0.98 183	0.98 183		0.49 183	0.49 183
32.000	P_1 M_2		1.31 136	1.31 136		0.81 167	0.81 167		0.40 167	0.40 167
35.191	P_1 M_2		1.30 149	1.30 149		0.80 183	0.80 183		0.40 183	0.40 183
39.200	P_1 M_2		1.07 136	1.07 136		0.66 168	0.66 168		0.33 168	0.33 168
44.240	P_1 M_2	1.05 150	1.05 150	1.05 150	0.65 185	0.65 185	0.65 185	0.32 185	0.32 185	0.32 185
50.943	P_1 M_2		0.90 148	0.90 148		0.55 182	0.55 182		0.28 182	0.28 182
56.976	P_1 M_2	0.82 152	0.82 152	0.82 152	0.51 187	0.51 187	0.51 187	0.25 187	0.25 187	0.25 187
64.978	P_1 M_2		0.71 149	0.71 149		0.44 183	0.44 183		0.22 183	0.22 183
72.210	P_1 M_2	0.66 154	0.66 154		0.41 190	0.41 190		0.20 190	0.20 190	
79.599	P_1 M_2		0.58 149	0.58 149		0.36 183	0.36 183		0.18 183	0.18 183
90.491	P_1 M_2	0.53 154	0.53 154		0.32 190	0.32 190		0.16 190	0.16 190	
100.067	P_1 M_2	0.46 150	0.46 150	0.46 150	0.29 185	0.29 185	0.29 185	0.14 185	0.14 185	0.14 185
111.467	P_1 M_2	0.38 138	0.38 138	0.38 138	0.24 170	0.24 170	0.24 170	0.12 170	0.12 170	0.12 170

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 190$ Nm

GKS 04 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
128.874	P_1 M_2	0.36 152	0.36 152	0.36 152	0.22 187	0.22 187	0.22 187	0.11 187	0.11 187	0.11 187
143.556	P_1 M_2	0.30 140	0.30 140	0.30 140	0.19 172	0.19 172	0.19 172	0.09 172	0.09 172	0.09 172
163.332	P_1 M_2	0.29 154	0.29 154		0.18 190	0.18 190		0.09 190	0.09 190	
181.939	P_1 M_2	0.24 141	0.24 141		0.15 174	0.15 174		0.07 174	0.07 174	
204.682	P_1 M_2	0.23 154	0.23 154		0.14 190	0.14 190		0.07 190	0.07 190	
228.000	P_1 M_2	0.20 144	0.20 144		0.12 177	0.12 177		0.06 177	0.06 177	
269.660	P_1 M_2	0.18 154			0.11 190			0.05 190		
300.381	P_1 M_2	0.15 145			0.09 178			0.05 178		

Thermal power limit not considered (see page 2-4)

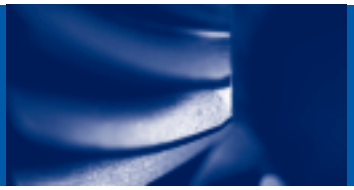
$M_{2\,perm} \leq 331$ Nm

GKS 05 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
6.863	P_1 M_2			5.39 120			3.32 147			1.66 147
9.412	P_1 M_2			4.39 134			2.70 165			1.35 165
10.569	P_1 M_2			5.39 184			3.32 227			1.66 227
11.667	P_1 M_2			5.39 204			3.32 251			1.66 251
13.177	P_1 M_2	2.36 101	3.15 134	3.15 134	1.45 124	1.94 165	1.94 165	0.73 124	0.97 165	0.97 165
14.494	P_1 M_2			4.39 206			2.70 254			1.35 254
16.000	P_1 M_2			4.39 227			2.70 280			1.35 280
17.054	P_1 M_2			4.61 255			2.84 313			1.42 313
19.216	P_1 M_2			3.88 241			2.39 297			1.19 297
23.388	P_1 M_2			3.53 267			2.17 329			1.09 329
26.353	P_1 M_2			2.84 242			1.75 298			0.87 298
29.931	P_1 M_2		2.76 268	2.76 268		1.70 330	1.70 330		0.85 330	0.85 330
32.744	P_1 M_2	2.36 250	2.53 269	2.53 269	1.45 308	1.56 331	1.56 331	0.73 308	0.78 331	0.78 331
36.894	P_1 M_2	2.05 245	2.05 245	2.05 245	1.26 302	1.26 302	1.26 302	0.63 302	0.63 302	0.63 302
41.765	P_1 M_2	1.99 269	1.99 269	1.99 269	1.22 331	1.22 331	1.22 331	0.61 331	0.61 331	0.61 331
47.059	P_1 M_2	1.62 247	1.62 247	1.62 247	1.00 304	1.00 304	1.00 304	0.50 304	0.50 304	0.50 304
51.162	P_1 M_2		1.62 269	1.62 269		1.00 331	1.00 331		0.50 331	0.50 331
57.647	P_1 M_2		1.34 249	1.34 249		0.82 307	0.82 307		0.41 307	0.41 307
66.592	P_1 M_2	1.25 269	1.25 269	1.25 269	0.77 331	0.77 331	0.77 331	0.38 331	0.38 331	0.38 331
75.033	P_1 M_2	1.04 252	1.04 252	1.04 252	0.64 310	0.64 310	0.64 310	0.32 310	0.32 310	0.32 310
82.833	P_1 M_2	1.00 269	1.00 269	1.00 269	0.62 331	0.62 331	0.62 331	0.31 331	0.31 331	0.31 331
93.333	P_1 M_2	0.85 256	0.85 256	0.85 256	0.52 315	0.52 315	0.52 315	0.26 315	0.26 315	0.26 315
107.196	P_1 M_2	0.77 269	0.77 269		0.48 331	0.48 331		0.24 331	0.24 331	
120.784	P_1 M_2	0.65 256	0.65 256		0.40 315	0.40 315		0.20 315	0.20 315	
130.097	P_1 M_2	0.64 269	0.64 269		0.39 331	0.39 331		0.20 331	0.20 331	
146.588	P_1 M_2	0.54 256	0.54 256		0.33 315	0.33 315		0.17 315	0.17 315	

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 331$ Nm

GKS 05 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
166.276	P_1 M_2	0.50 269			0.31 331			0.15 331		
187.353	P_1 M_2	0.42 256			0.26 315			0.13 315		
211.200	P_1 M_2	0.37 255	0.37 255		0.23 314	0.23 314		0.12 314	0.12 314	
227.484	P_1 M_2	0.31 226	0.31 226		0.19 278	0.19 278		0.09 278	0.09 278	
256.320	P_1 M_2	0.31 254	0.31 254		0.19 313	0.19 313		0.09 313	0.09 313	
290.745	P_1 M_2	0.24 225			0.15 277			0.07 277		
327.600	P_1 M_2	0.24 253			0.15 312			0.07 312		

Thermal power limit not considered (see page 2-4)

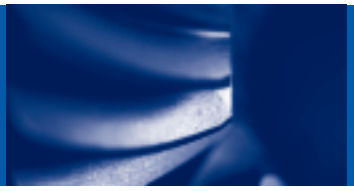
$M_{2\ perm} \leq 325$ Nm

GKS 05 - 4 W

Dimensions page 6-135

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
95.238	P_1 M_2	0.45 137	0.45 137	0.45 137	0.28 169	0.28 169	0.28 169	0.14 169	0.14 169	0.14 169
114.987	P_1 M_2	0.55 203	0.55 203	0.55 203	0.34 250	0.34 250	0.34 250	0.17 250	0.17 250	0.17 250
126.933	P_1 M_2	0.57 230	0.57 230	0.57 230	0.35 284	0.35 284	0.35 284	0.18 284	0.18 284	0.18 284
146.667	P_1 M_2	0.44 203	0.44 203	0.44 203	0.27 250	0.27 250	0.27 250	0.13 250	0.13 250	0.13 250
161.905	P_1 M_2	0.45 230	0.45 230	0.45 230	0.28 284	0.28 284	0.28 284	0.14 284	0.14 284	0.14 284
185.547	P_1 M_2	0.45 264	0.45 264	0.45 264	0.28 325	0.28 325	0.28 325	0.14 325	0.14 325	0.14 325
209.067	P_1 M_2	0.38 256	0.38 256	0.38 256	0.24 315	0.24 315	0.24 315	0.12 315	0.12 315	0.12 315
225.867	P_1 M_2	0.28 203	0.28 203	0.28 203	0.17 250	0.17 250	0.17 250	0.09 250	0.09 250	0.09 250
236.667	P_1 M_2	0.35 264	0.35 264	0.35 264	0.22 325	0.22 325	0.22 325	0.11 325	0.11 325	0.11 325
289.917	P_1 M_2		0.29 264	0.29 264		0.18 325	0.18 325		0.09 325	0.09 325
326.667	P_1 M_2		0.25 256	0.25 256		0.15 315	0.15 315		0.08 315	0.08 315
364.467	P_1 M_2	0.23 264	0.23 264	0.23 264	0.14 325	0.14 325	0.14 325	0.07 325	0.07 325	0.07 325
410.667	P_1 M_2	0.20 256	0.20 256	0.20 256	0.12 315	0.12 315	0.12 315	0.06 315	0.06 315	0.06 315
469.389	P_1 M_2	0.18 264	0.18 264	0.18 264	0.11 325	0.11 325	0.11 325	0.05 325	0.05 325	0.05 325
510.000	P_1 M_2	0.14 230	0.14 230		0.09 284	0.09 284		0.04 284	0.04 284	
528.889	P_1 M_2	0.15 256	0.15 256	0.15 256	0.09 315	0.09 315	0.09 315	0.05 315	0.05 315	0.05 315
594.894	P_1 M_2	0.14 264	0.14 264		0.09 325	0.09 325		0.04 325	0.04 325	
670.303	P_1 M_2	0.12 256	0.12 256		0.07 315	0.07 315		0.04 315	0.04 315	
820.760	P_1 M_2	0.10 264	0.10 264	0.10 264	0.06 325	0.06 325	0.06 325	0.03 325	0.03 325	0.03 325
924.800	P_1 M_2	0.09 256	0.09 256	0.09 256	0.05 315	0.05 315	0.05 315	0.03 315	0.03 315	0.03 315
1040.215	P_1 M_2	0.08 264	0.08 264		0.05 325	0.05 325		0.03 325	0.03 325	
1172.073	P_1 M_2	0.07 256	0.07 256		0.04 315	0.04 315		0.02 315	0.02 315	
1303.560	P_1 M_2	0.06 264	0.06 264		0.04 325	0.04 325		0.02 325	0.02 325	
1468.800	P_1 M2	0.06 256	0.06 256		0.03 315	0.03 315		0.02 315	0.02 315	
1717.389	P_1 M_2	0.05 264			0.03 325			0.02 325		
1935.086	P_1 M_2	0.04 256			0.03 315			0.01 315		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 702$ Nm

GKS 06 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
6.485	P_1 M2			10.2 214	10.2 214			6.26 263	6.26 263			3.13 263	3.13 263
9.196	P_1 M2			10.2 303	10.2 303			6.26 373	6.26 373			3.13 373	3.13 373
10.147	P_1 M2			10.2 334	10.2 334			6.26 412	6.26 412			3.13 412	3.13 412
11.382	P_1 M2		7.30 269	7.30 269	7.30 269		4.49 331	4.49 331	4.49 331		2.25 331	2.25 331	2.25 331
12.612	P_1 M2			8.47 346	8.47 346			5.21 426	5.21 426			2.61 426	2.61 426
14.824	P_1 M2			10.2 488	10.2 488			6.25 600	6.25 600			3.13 600	3.13 600
16.699	P_1 M2			9.07 491	9.07 491			5.58 604	5.58 604			2.79 604	2.79 604
17.809	P_1 M2		7.30 421	7.30 421	7.30 421		4.49 518	4.49 518	4.49 518		2.25 518	2.25 518	2.25 518
20.329	P_1 M2			8.20 540	8.20 540			5.05 665	5.05 665			2.53 665	2.53 665
22.902	P_1 M2			6.63 492	6.63 492			4.08 606	4.08 606			2.04 606	2.04 606
26.017	P_1 M2		6.54 551	6.54 551	6.54 551		4.03 679	4.03 679	4.03 679		2.01 679	2.01 679	2.01 679
28.461	P_1 M2		6.01 554	6.01 554	6.01 554		3.70 682	3.70 682	3.70 682		1.85 682	1.85 682	1.85 682
32.063	P_1 M2		4.77 495	4.77 495	4.77 495		2.94 610	2.94 610	2.94 610		1.47 610	1.47 610	1.47 610
36.303	P_1 M2	4.01 471	4.73 556	4.73 556	4.73 556	2.47 580	2.91 685	2.91 685	2.91 685	1.23 580	1.46 685	1.46 685	1.46 685
41.472	P_1 M2			4.17 560	4.17 560			2.56 689	2.56 689			1.28 689	1.28 689
44.471	P_1 M2		3.88 560	3.88 560	3.88 560		2.39 689	2.39 689	2.39 689		1.20 689	1.20 689	1.20 689
53.074	P_1 M2		3.28 564	3.28 564	3.28 564		2.02 695	2.02 695	2.02 695		1.01 695	1.01 695	1.01 695
57.882	P_1 M2	2.77 519	3.01 564	3.01 564		1.71 639	1.85 695	1.85 695		0.85 639	0.93 695	0.93 695	
65.207	P_1 M2	2.40 507	2.40 507	2.40 507		1.48 624	1.48 624	1.48 624		0.74 624	0.74 624	0.74 624	
72.000	P_1 M2	2.32 540	2.44 570	2.44 570		1.43 665	1.51 702	1.51 702		0.71 665	0.75 702	0.75 702	
81.111	P_1 M2	1.95 512	1.95 512	1.95 512		1.20 630	1.20 630	1.20 630		0.60 630	0.60 630	0.60 630	
93.177	P_1 M2	1.79 540	1.89 570			1.10 664	1.16 702			0.55 664	0.58 702		
104.967	P_1 M2	1.52 516	1.52 516			0.93 635	0.93 635			0.47 635	0.47 635		
113.082	P_1 M2	1.55 568	1.56 570			0.96 700	0.96 702			0.48 700	0.48 702		
127.392	P_1 M2	1.25 516	1.25 516			0.77 635	0.77 635			0.39 635	0.39 635		
142.941	P_1 M2	1.23 570				0.76 702				0.38 702			

Thermal power limit not considered (see page 2-4)

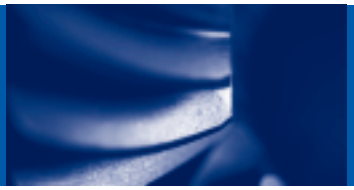
$M_{2\,perm} \leq 702$ Nm

GKS 06 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
161.029	P_1 M_2	0.99 516				0.61 635				0.30 635			
190.080	P_1 M_2	0.93 570	0.93 570			0.57 702	0.57 702			0.29 702	0.29 702		
214.133	P_1 M_2	0.74 516	0.74 516			0.46 635	0.46 635			0.23 635	0.23 635		
230.688	P_1 M_2	0.76 570	0.76 570			0.47 702	0.47 702			0.24 702	0.24 702		
259.880	P_1 M_2	0.61 516	0.61 516			0.38 635	0.38 635			0.19 635	0.19 635		
291.600	P_1 M_2	0.60 570				0.37 702				0.19 702			
328.500	P_1 M_2	0.49 516				0.30 635				0.15 635			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 702$ Nm

GKS 06 - 4 W

Dimensions page 6-135

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
103.721	P_1 M_2	0.96 317	1.68 556	1.68 556	0.59 390	1.04 685	1.04 685	0.30 390	0.52 685	0.52 685
113.205	P_1 M_2	0.96 346	1.21 436	1.21 436	0.59 425	0.75 537	0.75 537	0.30 425	0.37 537	0.37 537
127.059	P_1 M_2	0.96 388	1.38 560	1.38 560	0.59 478	0.85 689	0.85 689	0.30 478	0.43 689	0.43 689
140.816	P_1 M_2	0.96 430	0.97 436	0.97 436	0.59 529	0.60 537	0.60 537	0.30 529	0.30 537	0.30 537
155.647	P_1 M_2		1.13 560	1.13 560		0.70 689	0.70 689		0.35 689	0.35 689
174.336	P_1 M_2	0.79 436	0.79 436	0.79 436	0.48 537	0.48 537	0.48 537	0.24 537	0.24 537	0.24 537
202.588	P_1 M_2		0.88 564	0.88 564		0.54 695	0.54 695		0.27 695	0.27 695
224.524	P_1 M_2	0.61 436	0.61 436	0.61 436	0.38 537	0.38 537	0.38 537	0.19 537	0.19 537	0.19 537
252.000	P_1 M_2		0.71 570	0.71 570		0.44 702	0.44 702		0.22 702	0.22 702
279.286	P_1 M_2	0.49 436	0.49 436	0.49 436	0.30 537	0.30 537	0.30 537	0.15 537	0.15 537	0.15 537
316.800	P_1 M_2	0.57 570	0.57 570	0.57 570	0.35 702	0.35 702	0.35 702	0.17 702	0.17 702	0.17 702
361.429	P_1 M_2	0.38 436	0.38 436	0.38 436	0.23 537	0.23 537	0.23 537	0.12 537	0.12 537	0.12 537
408.000	P_1 M_2	0.44 570	0.44 570	0.44 570	0.27 702	0.27 702	0.27 702	0.14 702	0.14 702	0.14 702
458.067	P_1 M_2	0.30 436	0.30 436		0.18 537	0.18 537		0.09 537	0.09 537	
517.091	P_1 M_2	0.35 570	0.35 570		0.21 702	0.21 702		0.11 702	0.11 702	
555.927	P_1 M_2	0.25 436	0.25 436		0.15 537	0.15 537		0.08 537	0.08 537	
640.800	P_1 M_2	0.28 570	0.28 570	0.28 570	0.17 702	0.17 702	0.17 702	0.09 702	0.09 702	0.09 702
696.668	P_1 M_2	0.20 436	0.20 436		0.12 537	0.12 537		0.06 537	0.06 537	
812.137	P_1 M_2	0.22 570	0.22 570		0.14 702	0.14 702		0.07 702	0.07 702	
914.907	P_1 M_2	0.18 516	0.18 516		0.11 635	0.11 635		0.05 635	0.05 635	
1017.741	P_1 M_2	0.18 570	0.18 570		0.11 702	0.11 702		0.05 702	0.05 702	
1146.529	P_1 M_2	0.14 516	0.14 516		0.09 635	0.09 635		0.04 635	0.04 635	
1340.834	P_1 M_2	0.13 570			0.08 702			0.04 702		
1510.507	P_1 M_2	0.11 516			0.07 635			0.03 635		

Thermal power limit not considered (see page 2-4)

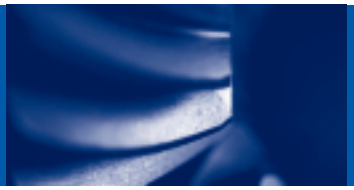
$M_{2\ perm} \leq 1330$ Nm

GKS 07 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
5.955	P_1 M_2			19.8 382	19.8 382			12.2 470	12.2 470			6.10 470	6.10 470
8.254	P_1 M_2			16.4 439	16.4 439			10.1 540	10.1 540			5.05 540	5.05 540
9.171	P_1 M_2			19.8 588	19.8 588			12.2 725	12.2 725			6.10 725	6.10 725
10.124	P_1 M_2			19.8 650	19.8 650			12.2 800	12.2 800			6.10 800	6.10 800
11.378	P_1 M_2		13.5 498	13.5 498	13.5 498		8.32 613	8.32 613	8.32 613		4.16 613	4.16 613	4.16 613
12.711	P_1 M_2			16.4 676	16.4 676			10.1 832	10.1 832			5.05 832	5.05 832
14.799	P_1 M_2			17.6 845	17.6 845			10.9 1040	10.9 1040			5.42 1040	5.42 1040
16.674	P_1 M_2			16.1 870	16.1 870			9.91 1071	9.91 1071			4.96 1071	4.96 1071
17.270	P_1 M_2		14.5 811	14.5 811	14.5 811		8.92 998	8.92 998	8.92 998		4.46 998	4.46 998	4.46 998
20.511	P_1 M_2			13.6 902	13.6 902			8.35 1110	8.35 1110			4.18 1110	4.18 1110
23.111	P_1 M_2			12.7 949	12.7 949			7.80 1168	7.80 1168			3.90 1168	3.90 1168
25.244	P_1 M_2		11.7 956	11.7 956	11.7 956		7.20 1177	7.20 1177	7.20 1177		3.60 1177	3.60 1177	3.60 1177
28.274	P_1 M_2		10.7 976	10.7 976	10.7 976		6.56 1202	6.56 1202	6.56 1202		3.28 1202	3.28 1202	3.28 1202
31.858	P_1 M_2		9.22 952	9.22 952	9.22 952		5.68 1172	5.68 1172	5.68 1172		2.84 1172	2.84 1172	2.84 1172
36.064	P_1 M_2	7.37 861	8.97 1048	8.97 1048	8.97 1048	4.54 1061	5.52 1290	5.52 1290	5.52 1290	2.27 1061	2.76 1290	2.76 1290	2.76 1290
40.906	P_1 M_2			7.91 1048	7.91 1048			4.87 1290	4.87 1290			2.43 1290	2.43 1290
44.178	P_1 M_2		7.38 1056	7.38 1056	7.38 1056		4.54 1300	4.54 1300	4.54 1300		2.27 1300	2.27 1300	2.27 1300
50.346	P_1 M_2		6.47 1056	6.47 1056	6.47 1056		3.99 1300	3.99 1300	3.99 1300		1.99 1300	1.99 1300	1.99 1300
57.501	P_1 M_2	5.17 963	5.71 1064	5.71 1064		3.18 1186	3.52 1310	3.52 1310		1.59 1186	1.76 1310	1.76 1310	
64.790	P_1 M_2	4.62 971	4.62 971	4.62 971		2.85 1195	2.85 1195	2.85 1195		1.42 1195	1.42 1195	1.42 1195	
70.474	P_1 M_2	4.46 1017	4.70 1072	4.70 1072		2.74 1252	2.89 1320	2.89 1320		1.37 1252	1.45 1320	1.45 1320	
79.407	P_1 M_2	3.80 979	3.80 979	3.80 979		2.34 1205	2.34 1205	2.34 1205		1.17 1205	1.17 1205	1.17 1205	
92.563	P_1 M_2	3.51 1052	3.60 1080			2.16 1295	2.22 1330			1.08 1295	1.11 1330		
104.296	P_1 M_2	2.92 987	2.92 987			1.80 1215	1.80 1215			0.90 1215	0.90 1215		
112.338	P_1 M_2	2.94 1068	2.97 1080			1.81 1315	1.83 1330			0.90 1315	0.91 1330		
126.578	P_1 M_2	2.41 987	2.41 987			1.48 1215	1.48 1215			0.74 1215	0.74 1215		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 1330$ Nm

GKS 07 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
140.548	P_1 M_2	2.37 1080	2.37 1080	2.37 1080		1.46 1330	1.46 1330	1.46 1330		0.73 1330	0.73 1330	0.73 1330	
158.364	P_1 M_2	1.92 987	1.92 987	1.92 987		1.18 1215	1.18 1215	1.18 1215		0.59 1215	0.59 1215	0.59 1215	
184.600	P_1 M_2	1.81 1080	1.81 1080			1.11 1330	1.11 1330			0.56 1330	0.56 1330		
208.000	P_1 M_2	1.46 987	1.46 987			0.90 1215	0.90 1215			0.45 1215	0.45 1215		
224.037	P_1 M_2	1.49 1080	1.49 1080			0.92 1330	0.92 1330			0.46 1330	0.46 1330		
252.436	P_1 M_2	1.21 987	1.21 987			0.74 1215	0.74 1215			0.37 1215	0.37 1215		
283.193	P_1 M_2	1.18 1080				0.73 1330				0.36 1330			
319.091	P_1 M_2	0.96 987				0.59 1215				0.29 1215			

Thermal power limit not considered (see page 2-4)

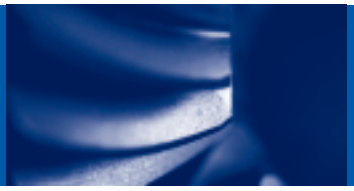
$M_{2\,perm} \leq 1330$ Nm

GKS 07 - 4 W

Dimensions page 6-135

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
103.039	P_1 M_2	2.31 758	3.19 1048	3.19 1048	1.42 933	1.97 1290	1.97 1290	0.71 933	0.98 1290	0.98 1290
112.391	P_1 M_2	2.31 827	2.39 855	2.39 855	1.42 1018	1.47 1053	1.47 1053	0.71 1018	0.74 1053	0.74 1053
126.222	P_1 M_2	2.31 928	2.63 1056	2.63 1056	1.42 1143	1.62 1300	1.62 1300	0.71 1143	0.81 1300	0.81 1300
137.748	P_1 M_2	1.95 855	1.95 855	1.95 855	1.20 1053	1.20 1053	1.20 1053	0.60 1053	0.60 1053	0.60 1053
154.622	P_1 M_2		2.14 1056	2.14 1056		1.32 1300	1.32 1300		0.66 1300	0.66 1300
179.201	P_1 M_2	1.50 855	1.50 855	1.50 855	0.92 1053	0.92 1053	0.92 1053	0.46 1053	0.46 1053	0.46 1053
201.254	P_1 M_2		1.66 1064	1.66 1064		1.02 1310	1.02 1310		0.51 1310	0.51 1310
222.909	P_1 M_2	1.21 855	1.21 855	1.21 855	0.74 1053	0.74 1053	0.74 1053	0.37 1053	0.37 1053	0.37 1053
246.659	P_1 M_2		1.37 1072	1.37 1072		0.84 1320	0.84 1320		0.42 1320	0.42 1320
273.199	P_1 M_2	0.98 855	0.98 855	0.98 855	0.61 1053	0.61 1053	0.61 1053	0.30 1053	0.30 1053	0.30 1053
321.049	P_1 M_2	1.05 1072	1.05 1072	1.05 1072	0.65 1320	0.65 1320	0.65 1320	0.32 1320	0.32 1320	0.32 1320
358.829	P_1 M_2	0.75 855	0.75 855	0.75 855	0.46 1053	0.46 1053	0.46 1053	0.23 1053	0.23 1053	0.23 1053
399.353	P_1 M_2	0.84 1072	0.84 1072	0.84 1072	0.52 1320	0.52 1320	0.52 1320	0.26 1320	0.26 1320	0.26 1320
464.367	P_1 M_2	0.58 855	0.58 855		0.36 1053	0.36 1053		0.18 1053	0.18 1053	
516.810	P_1 M_2	0.65 1072	0.65 1072		0.40 1320	0.40 1320		0.20 1320	0.20 1320	
563.573	P_1 M_2	0.48 855	0.48 855		0.29 1053	0.29 1053		0.15 1053	0.15 1053	
636.581	P_1 M_2	0.53 1080	0.53 1080	0.53 1080	0.33 1330	0.33 1330	0.33 1330	0.16 1330	0.16 1330	0.16 1330
683.972	P_1 M_2	0.39 855	0.39 855		0.24 1053	0.24 1053		0.12 1053	0.12 1053	
823.810	P_1 M_2	0.41 1080	0.41 1080		0.25 1330	0.25 1330		0.13 1330	0.13 1330	
928.237	P_1 M_2	0.33 987	0.33 987		0.21 1215	0.21 1215		0.10 1215	0.10 1215	
999.806	P_1 M_2	0.34 1080	0.34 1080		0.21 1330	0.21 1330		0.10 1330	0.10 1330	
1126.542	P_1 M_2	0.28 987	0.28 987		0.17 1215	0.17 1215		0.09 1215	0.09 1215	
1277.842	P_1 M_2	0.27 1080			0.16 1330			0.08 1330		
1439.822	P_1 M_2	0.22 987			0.13 1215			0.07 1215		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 3080$ Nm

GKS 09 - 3 W

Dimensions page 6-134

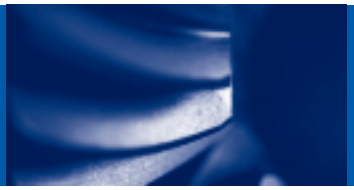
n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
12.283	P_1 M_2			33.0 1312	33.0 1312			20.3 1615	20.3 1615			10.2 1615	10.2 1615
13.360	P_1 M_2			33.0 1427	33.0 1427			20.3 1757	20.3 1757			10.2 1757	10.2 1757
16.122	P_1 M_2		28.0 1462	28.0 1462	28.0 1462		17.2 1801	17.2 1801	17.2 1801		8.62 1801	8.62 1801	8.62 1801
17.536	P_1 M_2		28.0 1591	28.0 1591	28.0 1591		17.2 1958	17.2 1958	17.2 1958		8.62 1958	8.62 1958	8.62 1958
19.541	P_1 M_2			33.0 2087	33.0 2087			20.3 2570	20.3 2570			10.2 2570	10.2 2570
22.022	P_1 M_2			30.4 2170	30.4 2170			18.7 2672	18.7 2672			9.36 2672	9.36 2672
25.649	P_1 M_2		28.0 2325	28.0 2325	28.0 2325		17.2 2862	17.2 2862	17.2 2862		8.61 2862	8.61 2862	8.61 2862
29.228	P_1 M_2		25.0 2367	25.0 2367	25.0 2367		15.4 2914	15.4 2914	15.4 2914		7.69 2914	7.69 2914	7.69 2914
32.940	P_1 M_2		22.7 2424	22.7 2424	22.7 2424		14.0 2984	14.0 2984	14.0 2984		6.99 2984	6.99 2984	6.99 2984
35.193	P_1 M_2	14.9 1697	21.6 2460	21.6 2460	21.6 2460	9.16 2089	13.3 3029	13.3 3029	13.3 3029	4.58 2089	6.64 3029	6.64 3029	6.64 3029
39.662	P_1 M_2	14.9 1912	19.0 2438	19.0 2438	19.0 2438	9.16 2355	11.7 3002	11.7 3002	11.7 3002	4.58 2355	5.84 3002	5.84 3002	5.84 3002
43.146	P_1 M_2		17.6 2456	17.6 2456	17.6 2456		10.8 3024	10.8 3024	10.8 3024		5.41 3024	5.41 3024	5.41 3024
48.625	P_1 M_2		15.6 2450	15.6 2450	15.6 2450		9.58 3017	9.58 3017	9.58 3017		4.79 3017	4.79 3017	4.79 3017
58.456	P_1 M_2	10.1 1913	13.0 2462	13.0 2462		6.22 2355	8.00 3031	8.00 3031		3.11 2355	4.00 3031	4.00 3031	
65.879	P_1 M_2	10.1 2155	11.6 2475	11.6 2475		6.22 2654	7.14 3048	7.14 3048		3.11 2654	3.57 3048	3.57 3048	
70.982	P_1 M_2	8.64 1986	10.7 2462	10.7 2462		5.32 2445	6.59 3031	6.59 3031		2.66 2445	3.30 3031	3.30 3031	
79.996	P_1 M_2	8.64 2238	9.62 2494	9.62 2494		5.32 2756	5.93 3071	5.93 3071		2.66 2756	2.96 3071	2.96 3071	
91.860	P_1 M_2	6.94 2064	8.27 2462			4.27 2542	5.09 3031			2.14 2542	2.55 3031		
103.524	P_1 M_2	6.94 2326	7.46 2501			4.27 2864	4.59 3080			2.14 2864	2.30 3080		
111.484	P_1 M_2	5.83 2105	6.82 2462			3.59 2591	4.20 3031			1.79 2591	2.10 3031		
125.641	P_1 M_2	5.83 2372	6.15 2501			3.59 2920	3.78 3080			1.79 2920	1.89 3080		
140.921	P_1 M_2	4.70 2146				2.89 2642				1.45 2642			
158.816	P_1 M_2	4.70 2418				2.89 2978				1.45 2978			
182.000	P_1 M_2	4.18 2462	4.18 2462			2.57 3031	2.57 3031			1.29 3031	1.29 3031		
205.111	P_1 M_2	3.76 2501	3.76 2501			2.32 3080	2.32 3080			1.16 3080	1.16 3080		
220.882	P_1 M_2	3.44 2462	3.44 2462			2.12 3031	2.12 3031			1.06 3031	1.06 3031		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 3080$ Nm

GKS 09 - 3 W													Dimensions page 6-134
n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
248.930	P_1 M_2	3.10 2501	3.10 2501			1.91 3080	1.91 3080			0.96 3080	0.96 3080		
279.205	P_1 M_2	2.72 2462				1.68 3031				0.84 3031			
314.659	P_1 M_2	2.45 2501				1.51 3080				0.76 3080			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 3080$ Nm

GKS 09 - 4 W

Dimensions page 6-135

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
100.551	P_1 M_2	4.01 1284	6.18 1979	7.68 2460	7.68 2460	2.47 1580	3.80 2436	4.73 3029	4.73 3029	1.23 1580	1.90 2436	2.37 3029	2.37 3029
113.320	P_1 M_2	4.01 1447	6.18 2230	6.76 2438	6.76 2438	2.47 1781	3.80 2746	4.16 3002	4.16 3002	1.23 1781	1.90 2746	2.08 3002	2.08 3002
123.275	P_1 M_2	4.01 1574	6.18 2426	6.26 2456	6.26 2456	2.47 1938	3.80 2987	3.85 3024	3.85 3024	1.23 1938	1.90 2987	1.93 3024	1.93 3024
138.929	P_1 M_2	4.01 1774	5.54 2450	5.54 2450	5.54 2450	2.47 2184	3.41 3017	3.41 3017	3.41 3017	1.23 2184	1.71 3017	1.71 3017	1.71 3017
151.012	P_1 M_2		5.11 2456	5.11 2456	5.11 2456		3.14 3024	3.14 3024	3.14 3024		1.57 3024	1.57 3024	1.57 3024
170.188	P_1 M_2		4.52 2450	4.52 2450	4.52 2450		2.78 3017	2.78 3017	2.78 3017		1.39 3017	1.39 3017	1.39 3017
204.596	P_1 M_2		3.78 2462	3.78 2462	3.78 2462		2.33 3031	2.33 3031	2.33 3031		1.16 3031	1.16 3031	1.16 3031
230.577	P_1 M_2		3.37 2475	3.37 2475	3.37 2475		2.08 3048	2.08 3048	2.08 3048		1.04 3048	1.04 3048	1.04 3048
248.439	P_1 M_2		3.11 2462	3.11 2462	3.11 2462		1.92 3031	1.92 3031	1.92 3031		0.96 3031	0.96 3031	0.96 3031
279.986	P_1 M_2		2.80 2494	2.80 2494	2.80 2494		1.72 3071	1.72 3071	1.72 3071		0.86 3071	0.86 3071	0.86 3071
323.365	P_1 M_2	2.39 2462	2.39 2462	2.39 2462		1.47 3031	1.47 3031	1.47 3031		0.74 3031	0.74 3031	0.74 3031	
364.427	P_1 M_2	2.15 2494	2.15 2494	2.15 2494		1.32 3071	1.32 3071	1.32 3071		0.66 3071	0.66 3071	0.66 3071	
402.234	P_1 M_2	1.92 2462	1.92 2462	1.92 2462		1.18 3031	1.18 3031	1.18 3031		0.59 3031	0.59 3031	0.59 3031	
453.311	P_1 M_2	1.73 2494	1.73 2494	1.73 2494		1.06 3071	1.06 3071	1.06 3071		0.53 3071	0.53 3071	0.53 3071	
520.538	P_1 M_2	1.49 2462	1.49 2462	1.49 2462		0.91 3031	0.91 3031	0.91 3031		0.46 3031	0.46 3031	0.46 3031	
586.638	P_1 M_2	1.34 2501	1.34 2501	1.34 2501		0.82 3080	0.82 3080	0.82 3080		0.41 3080	0.41 3080	0.41 3080	
631.744	P_1 M_2	1.22 2462	1.22 2462	1.22 2462		0.75 3031	0.75 3031	0.75 3031		0.38 3031	0.38 3031	0.38 3031	
711.965	P_1 M_2	1.10 2501	1.10 2501	1.10 2501		0.68 3080	0.68 3080	0.68 3080		0.34 3080	0.34 3080	0.34 3080	
817.551	P_1 M_2	0.95 2462	0.95 2462			0.58 3031	0.58 3031			0.29 3031	0.29 3031		
921.367	P_1 M_2	0.85 2501	0.85 2501			0.53 3080	0.53 3080			0.26 3080	0.26 3080		
992.209	P_1 M_2	0.78 2462	0.78 2462			0.48 3031	0.48 3031			0.24 3031	0.24 3031		
1118.204	P_1 M_2	0.70 2501	0.70 2501			0.43 3080	0.43 3080			0.22 3080	0.22 3080		
1254.197	P_1 M_2	0.62 2462				0.38 3031				0.19 3031			
1413.461	P_1 M_2	0.56 2501				0.34 3080				0.17 3080			

Thermal power limit not considered (see page 2-4)

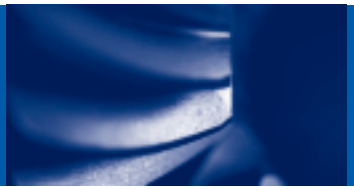
$M_{2\ perm} \leq 6072$ Nm

GKS 11 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1F	1G	1H	1K	1F	1G	1H	1K	1F	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]												
12.094	P_1 M_2			57.4 2250	57.4 2250			35.4 2770	35.4 2770			17.7 2770	17.7 2770
13.154	P_1 M_2			57.4 2447	57.4 2447			35.4 3013	35.4 3013			17.7 3013	17.7 3013
15.874	P_1 M_2			48.8 2509	48.8 2509			30.0 3089	30.0 3089			15.0 3089	15.0 3089
17.265	P_1 M_2			48.8 2729	48.8 2729			30.0 3360	30.0 3360			15.0 3360	15.0 3360
19.515	P_1 M_2			57.4 3630	57.4 3630			35.4 4470	35.4 4470			17.7 4470	17.7 4470
21.989	P_1 M_2			55.7 3967	55.7 3967			34.3 4884	34.3 4884			17.1 4884	17.1 4884
25.615	P_1 M_2			48.8 4049	48.8 4049			30.0 4985	30.0 4985			15.0 4985	15.0 4985
28.021	P_1 M_2		46.2 4193	46.2 4193	46.2 4193		28.4 5163	28.4 5163	28.4 5163		14.2 5163	14.2 5163	14.2 5163
31.573	P_1 M_2		43.8 4484	43.8 4484	43.8 4484		27.0 5521	27.0 5521	27.0 5521		13.5 5521	13.5 5521	13.5 5521
35.741	P_1 M_2	27.3 3160	39.7 4593	39.7 4593	39.7 4593	16.8 3890	24.4 5655	24.4 5655	24.4 5655	8.40 3890	12.2 5655	12.2 5655	12.2 5655
40.272	P_1 M_2	27.3 3560	36.5 4767	36.5 4767	36.5 4767	16.8 4383	22.5 5869	22.5 5869	22.5 5869	8.40 4383	11.3 5869	11.3 5869	11.3 5869
43.783	P_1 M_2		33.2 4711	33.2 4711	33.2 4711		20.4 5800	20.4 5800	20.4 5800		10.2 5800	10.2 5800	10.2 5800
49.333	P_1 M_2		30.1 4810	30.1 4810	30.1 4810		18.5 5923	18.5 5923	18.5 5923		9.27 5923	9.27 5923	9.27 5923
57.683	P_1 M_2	19.0 3548	26.0 4850	26.0 4850		11.7 4369	16.0 5972	16.0 5972		5.85 4369	7.99 5972	7.99 5972	
64.995	P_1 M_2	19.0 3998	23.1 4866	23.1 4866		11.7 4923	14.2 5992	14.2 5992		5.85 4923	7.11 5992	7.11 5992	
70.887	P_1 M_2	15.9 3645	21.1 4851	21.1 4851		9.77 4488	13.0 5973	13.0 5973		4.89 4488	6.50 5973	6.50 5973	
79.873	P_1 M_2	15.9 4107	18.9 4899	18.9 4899		9.77 5057	11.7 6032	11.7 6032		4.89 5057	5.83 6032	5.83 6032	
91.737	P_1 M_2	12.8 3790	16.3 4853			7.85 4666	10.1 5975			3.93 4666	5.03 5975		
103.365	P_1 M_2	12.8 4270	14.7 4931			7.85 5258	9.07 6072			3.93 5258	4.53 6072		
111.335	P_1 M_2	10.7 3840	13.5 4853			6.55 4728	8.28 5975			3.28 4728	4.14 5975		
125.448	P_1 M_2	10.7 4327	12.1 4931			6.55 5328	7.47 6072			3.28 5328	3.74 6072		
140.732	P_1 M_2	8.54 3893				5.26 4794				2.63 4794			
158.571	P_1 M_2	8.54 4387				5.26 5401				2.63 5401			
186.572	P_1 M_2	8.03 4853	8.03 4853			4.94 5975	4.94 5975			2.47 5975	2.47 5975		
210.222	P_1 M_2	7.03 4785	7.03 4785			4.33 5892	4.33 5892			2.16 5892	2.16 5892		
226.431	P_1 M_2	6.62 4853	6.62 4853			4.07 5975	4.07 5975			2.04 5975	2.04 5975		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 6072$ Nm

GKS 11 - 3 W

Dimensions page 6-134

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1F	1G	1H	1K	1F	1G	1H	1K	1F	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]												
255.133	P_1 M_2	5.79 4785	5.79 4785			3.56 5892	3.56 5892			1.78 5892	1.78 5892		
286.219	P_1 M_2	5.23 4853				3.22 5975				1.61 5975			
322.500	P_1 M_2	4.58 4785				2.82 5892				1.41 5892			

Thermal power limit not considered (see page 2-4)

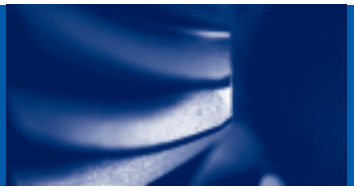
$M_{2\ perm} \leq 6072$ Nm

GKS 11 - 4 W

Dimensions page 6-135

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
102.119	P_1 M_2	7.37 2398	12.0 3897	14.1 4593	14.1 4593	4.54 2952	7.38 4798	8.69 5655	8.69 5655	2.27 2952	3.69 4798	4.35 5655	4.35 5655
115.063	P_1 M_2	7.37 2701	12.0 4391	13.0 4767	13.0 4767	4.54 3326	7.38 5406	8.01 5869	8.01 5869	2.27 3326	3.69 5406	4.00 5869	4.00 5869
125.095	P_1 M_2	7.37 2937	11.8 4711	11.8 4711	11.8 4711	4.54 3616	7.28 5800	7.28 5800	7.28 5800	2.27 3616	3.64 5800	3.64 5800	3.64 5800
140.952	P_1 M_2	7.37 3309	10.7 4810	10.7 4810	10.7 4810	4.54 4075	6.60 5923	6.60 5923	6.60 5923	2.27 4075	3.30 5923	3.30 5923	3.30 5923
153.242	P_1 M_2		9.65 4711	9.65 4711	9.65 4711		5.94 5800	5.94 5800	5.94 5800		2.97 5800	2.97 5800	2.97 5800
172.667	P_1 M_2		8.75 4810	8.75 4810	8.75 4810		5.39 5923	5.39 5923	5.39 5923		2.69 5923	2.69 5923	2.69 5923
201.890	P_1 M_2		7.54 4850	7.54 4850	7.54 4850		4.64 5972	4.64 5972	4.64 5972		2.32 5972	2.32 5972	2.32 5972
227.481	P_1 M_2		6.72 4866	6.72 4866	6.72 4866		4.14 5992	4.14 5992	4.14 5992		2.07 5992	2.07 5992	2.07 5992
248.106	P_1 M_2		6.14 4851	6.14 4851	6.14 4851		3.78 5973	3.78 5973	3.78 5973		1.89 5973	1.89 5973	1.89 5973
279.556	P_1 M_2		5.50 4899	5.50 4899	5.50 4899		3.39 6032	3.39 6032	3.39 6032		1.69 6032	1.69 6032	1.69 6032
322.931	P_1 M_2	4.72 4851	4.72 4851	4.72 4851		2.90 5973	2.90 5973	2.90 5973		1.45 5973	1.45 5973	1.45 5973	
363.866	P_1 M_2	4.23 4899	4.23 4899	4.23 4899		2.60 6032	2.60 6032	2.60 6032		1.30 6032	1.30 6032	1.30 6032	
395.787	P_1 M_2	3.85 4851	3.85 4851	3.85 4851		2.37 5973	2.37 5973	2.37 5973		1.19 5973	1.19 5973	1.19 5973	
445.958	P_1 M_2	3.45 4899	3.45 4899	3.45 4899		2.12 6032	2.12 6032	2.12 6032		1.06 6032	1.06 6032	1.06 6032	
512.195	P_1 M_2	2.98 4853	2.98 4853	2.98 4853		1.83 5975	1.83 5975	1.83 5975		0.92 5975	0.92 5975	0.92 5975	
577.122	P_1 M_2	2.68 4931	2.68 4931	2.68 4931		1.65 6072	1.65 6072	1.65 6072		0.83 6072	0.83 6072	0.83 6072	
621.619	P_1 M_2	2.45 4853	2.45 4853	2.45 4853		1.51 5975	1.51 5975	1.51 5975		0.76 5975	0.76 5975	0.76 5975	
700.416	P_1 M_2	2.21 4931	2.21 4931	2.21 4931		1.36 6072	1.36 6072	1.36 6072		0.68 6072	0.68 6072	0.68 6072	
816.455	P_1 M_2	1.87 4853	1.87 4853			1.15 5975	1.15 5975			0.57 5975	0.57 5975		
919.949	P_1 M_2	1.68 4931	1.68 4931			1.04 6072	1.04 6072			0.52 6072	0.52 6072		
990.879	P_1 M_2	1.54 4853	1.54 4853			0.95 5975	0.95 5975			0.47 5975	0.47 5975		
1116.484	P_1 M_2	1.39 4931	1.39 4931			0.85 6072	0.85 6072			0.43 6072	0.43 6072		
1252.516	P_1 M_2	1.22 4853				0.75 5975				0.37 5975			
1411.286	P_1 M_2	1.10 4931				0.68 6072				0.34 6072			

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 11790$ Nm

GKS 14 - 3 W

Dimensions page 6-134

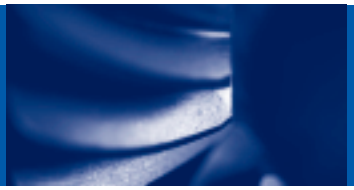
n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1G	1H	1K	1G	1H	1K	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]									
12.435	P_1 M_2			100.7 4056			62.0 4994			31.0 4994
13.525	P_1 M_2			100.7 4412			62.0 5432			31.0 5432
16.646	P_1 M_2		89.0 4797	89.0 4797		54.8 5906	54.8 5906		27.4 5906	27.4 5906
18.311	P_1 M_2		83.9 4978	83.9 4978		51.7 6130	51.7 6130		25.8 6130	25.8 6130
20.065	P_1 M_2			100.7 6545			62.0 8059			31.0 8059
22.609	P_1 M_2			100.6 7369			61.9 9073			31.0 9073
24.696	P_1 M_2		89.0 7117	89.0 7117		54.8 8763	54.8 8763		27.4 8763	27.4 8763
27.165	P_1 M_2		83.9 7386	83.9 7386		51.7 9094	51.7 9094		25.8 9094	25.8 9094
30.609	P_1 M_2		83.0 8229	83.0 8229		51.1 10132	51.1 10132		25.5 10132	25.5 10132
34.692	P_1 M_2		72.1 8099	72.1 8099		44.4 9973	44.4 9973		22.2 9973	22.2 9973
39.089	P_1 M_2		70.2 8883	70.2 8883		43.2 10937	43.2 10937		21.6 10937	21.6 10937
42.531	P_11 M_2		63.3 8720	63.3 8720		39.0 10737	39.0 10737		19.5 10737	19.5 10737
47.923	P_1 M_2		58.9 9146	58.9 9146		36.3 11261	36.3 11261		18.1 11261	18.1 11261
56.251	P_1 M_2	38.1 6934	51.4 9358	51.4 9358	23.4 8538	31.6 11522	31.6 11522	11.7 8538	15.8 11522	15.8 11522
63.382	P_1 M_2	38.1 7813	45.4 9321	45.4 9321	23.4 9621	28.0 11477	28.0 11477	11.7 9621	14.0 11477	14.0 11477
68.942	P_1 M_2	32.6 7270	41.7 9303		20.0 8952	25.6 11454		10.0 8952	12.8 11454	
77.681	P_1 M_2	32.6 8192	37.2 9356		20.0 10087	22.9 11520		10.0 10087	11.4 11520	
90.551	P_1 M_2	25.7 7526	31.8 9330		15.8 9267	19.6 11488		7.90 9267	9.79 11488	
102.029	P_1 M_2	25.7 8480	28.6 9453		15.8 10441	17.6 11639		7.90 10441	8.80 11639	
109.896	P_1 M_2	21.5 7656	26.9 9575		13.2 9427	16.6 11790		6.62 9427	8.28 11790	
123.826	P_1 M_2	21.5 8627	23.6 9453		13.2 10622	14.5 11639		6.62 10622	7.25 11639	
138.913	P_1 M_2	17.3 7793			10.7 9595			5.33 9595		
156.522	P_1 M_2	17.3 8781			10.7 10812			5.33 10812		
186.572	P_1 M_2	15.6 9429	15.6 9429		9.60 11609	9.60 11609		4.80 11609	4.80 11609	
210.222	P_1 M_2	13.8 9385	13.8 9385		8.48 11555	8.48 11555		4.24 11555	4.24 11555	
226.431	P_1 M_2	12.9 9429	12.9 9429		7.91 11609	7.91 11609		3.96 11609	3.96 11609	

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 11790$ Nm

GKS 14 - 3 W										Dimensions page 6-134
n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1G	1H	1K	1G	1H	1K	1G	1H	1K
i	P_{1perm} [kW] M_{2perm} [Nm]									
255.133	P_1 M_2	11.4 9385	11.4 9385		6.99 11555	6.99 11555		3.50 11555	3.50 11555	
286.219	P_1 M_2	10.2 9429			6.26 11609			3.13 11609		
322.500	P_1 M_2	8.98 9385			5.53 11555			2.77 11555		

Thermal power limit not considered (see page 2-4)



$M_{2\ perm} \leq 11639$ Nm

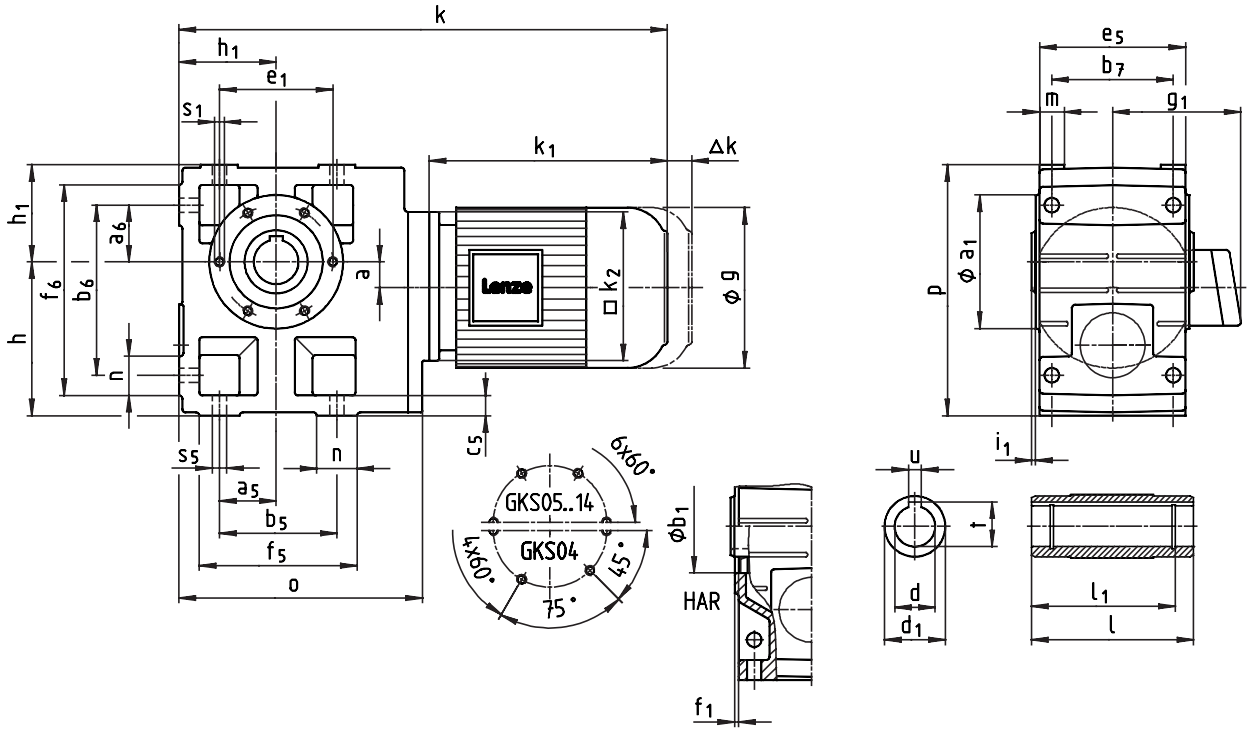
GKS 14 - 4 W

Dimensions page 6-135

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P_{1perm} [kW] M_{2perm} [Nm]												
97.467	P_1 M_2	14.9 4619	22.5 6982	26.1 8099	26.1 8099	9.16 5688	13.9 8597	16.1 9973	16.1 9973	4.58 5688	6.93 8597	8.03 9973	8.03 9973
109.822	P_1 M_2	14.9 5205	22.5 7868	25.4 8883	25.4 8883	9.16 6409	13.9 9687	15.6 10937	15.6 10937	4.58 6409	6.93 9687	7.82 10937	7.82 10937
119.493	P_1 M_2	14.9 5663	22.5 8560	22.9 8720	22.9 8720	9.16 6973	13.9 10540	14.1 10737	14.1 10737	4.58 6973	6.93 10540	7.05 10737	7.05 10737
134.640	P_1 M_2	14.9 6381	21.3 9146	21.3 9146	21.3 9146	9.16 7857	13.1 11261	13.1 11261	13.1 11261	4.58 7857	6.57 11261	6.57 11261	6.57 11261
158.039	P_1 M_2	14.9 7490	18.6 9358	18.6 9358	18.6 9358	9.16 9223	11.5 11522	11.5 11522	11.5 11522	4.58 9223	5.72 11522	5.72 11522	5.72 11522
178.072	P_1 M_2	14.9 8440	16.4 9321	16.4 9321	16.4 9321	9.16 10392	10.1 11477	10.1 11477	10.1 11477	4.58 10392	5.06 11477	5.06 11477	5.06 11477
193.754	P_1 M_2		15.2 9358	15.2 9358	15.2 9358		9.34 11522	9.34 11522	9.34 11522		4.67 11522	4.67 11522	4.67 11522
218.315	P_1 M_2		13.4 9321	13.4 9321	13.4 9321		8.25 11477	8.25 11477	8.25 11477		4.13 11477	4.13 11477	4.13 11477
237.467	P_1 M_2		12.3 9303	12.3 9303	12.3 9303		7.57 11454	7.57 11454	7.57 11454		3.79 11454	3.79 11454	3.79 11454
267.568	P_1 M_2		11.0 9356	11.0 9356	11.0 9356		6.76 11520	6.76 11520	6.76 11520		3.38 11520	3.38 11520	3.38 11520
321.729	P_1 M_2	9.08 9303	9.08 9303	9.08 9303		5.59 11454	5.59 11454	5.59 11454		2.80 11454	2.80 11454	2.80 11454	
362.512	P_1 M_2	8.10 9356	8.10 9356	8.10 9356		4.99 11520	4.99 11520	4.99 11520		2.50 11520	2.50 11520	2.50 11520	
390.672	P_1 M_2	7.48 9303	7.48 9303	7.48 9303		4.60 11454	4.60 11454	4.60 11454		2.30 11454	2.30 11454	2.30 11454	
440.193	P_1 M_2	6.67 9356	6.67 9356	6.67 9356		4.11 11520	4.11 11520	4.11 11520		2.05 11520	2.05 11520	2.05 11520	
513.121	P_1 M_2	5.71 9330	5.71 9330	5.71 9330		3.52 11488	3.52 11488	3.52 11488		1.76 11488	1.76 11488	1.76 11488	
578.164	P_1 M_2	5.13 9453	5.13 9453	5.13 9453		3.16 11639	3.16 11639	3.16 11639		1.58 11639	1.58 11639	1.58 11639	
622.742	P_1 M_2	4.71 9330	4.71 9330	4.71 9330		2.90 11488	2.90 11488	2.90 11488		1.45 11488	1.45 11488	1.45 11488	
701.681	P_1 M_2	4.23 9453	4.23 9453	4.23 9453		2.60 11639	2.60 11639	2.60 11639		1.30 11639	1.30 11639	1.30 11639	
805.901	P_1 M_2	3.64 9330	3.64 9330			2.24 11488	2.24 11488			1.12 11488	1.12 11488		
908.058	P_1 M_2	3.27 9453	3.27 9453			2.01 11639	2.01 11639			1.01 11639	1.01 11639		
978.071	P_1 M_2	3.00 9330	3.00 9330			1.84 11488	1.84 11488			0.92 11488	0.92 11488		
1102.052	P_1 M_2	2.69 9453	2.69 9453			1.66 11639	1.66 11639			0.83 11639	0.83 11639		
1236.326	P_1 M_2	2.37 9330				1.46 11488				0.73 11488			
1393.043	P_1 M_2	2.13 9453				1.31 11639				0.66 11639			

Thermal power limit not considered (see page 2-4)

GKS □□ - 3 M H□R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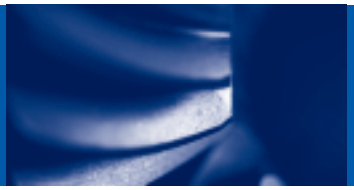


Geared motor **GKS □□ - 3 M H□R**			Motor frame size										
			063C12 063C32 063C42	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**	**180-22 180-32**
Motor	**g**		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

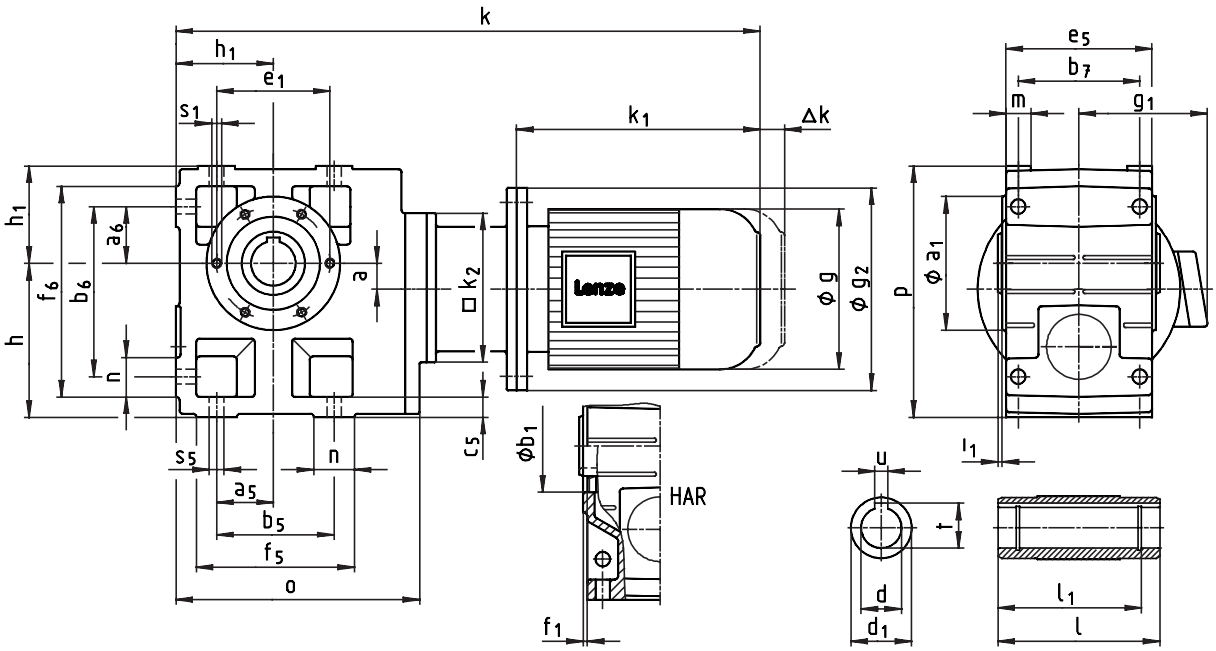
Gearbox size	Gearbox						Total length										
	o	**l***	**p***	**h***	**h_1**	**a**	**k**										
04	203	115	171	100	71	20	399	419	441	502							
05	232	140	205	125	80	23	419	439	461	522	556						
06	291	160	250	150	100	28	475	495	517	578	612	628	672				
07	354	200	310	190	120	34			573	634	668	684	728	776	853	897	
09	429	240	386	236	150	41				705	739	755	799	847	924	968	1040
11	527	290	485	300	185	54					830	846	890	938	1015	1059	1131
14	636	350	605	375	230	67						945	989	1037	1114	1158	1230

Gearbox size	Hollow shaft						Pitch circle						Foot											
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1**	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
04	25 30	115	45	100	8 8	28.3 33.3	105	75	90	3	2.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h-a$
** For additional attachments see section 8

GKS □□ - 3 M H□R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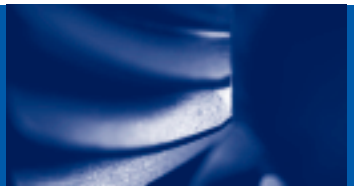


Geared motor **GKS□□ - 3 M H□R**			Motor frame size **200N32**	**225N12 225N22**
Motor	**g**		388	433
	g_1	Without option	291	319
		Brake motor	309	327
	g_2		400	450
	k_1		661	693
	k_2		300	300
	Δ k	Brake	175	200
		Separate fan	387	388
		Separate fan + brake	507	518

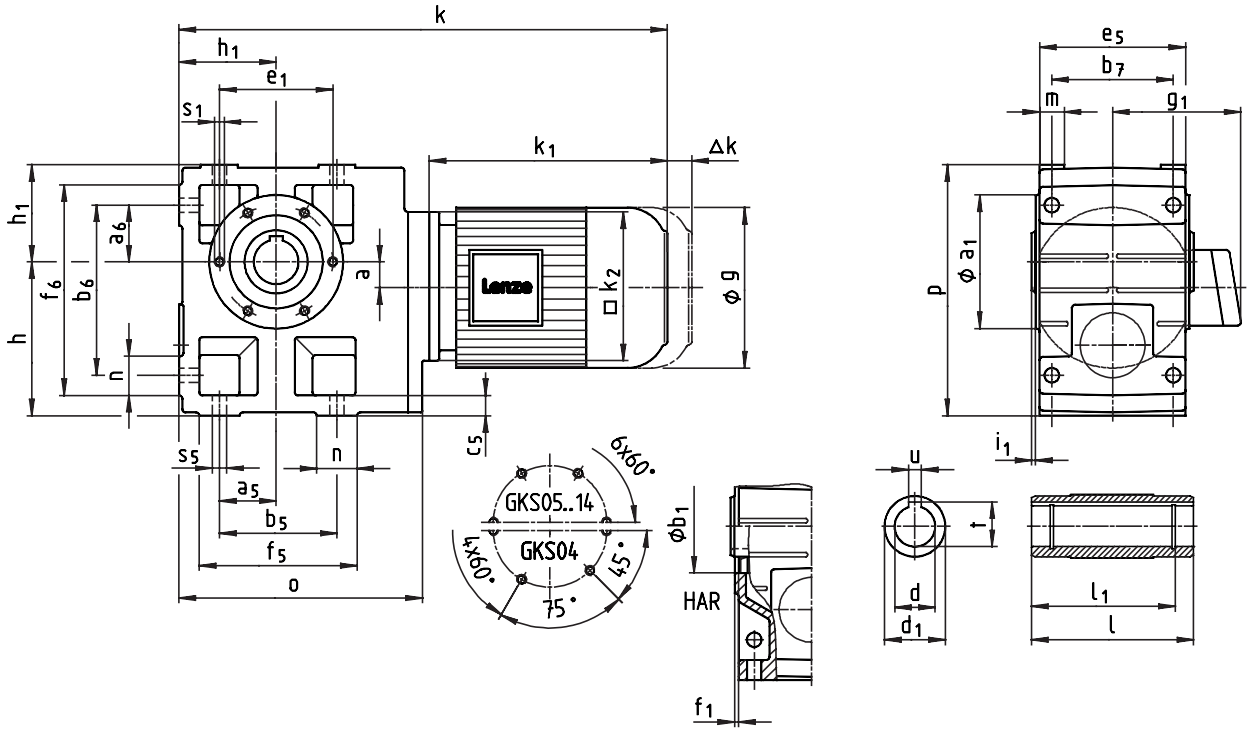
Gearbox size	Gearbox						Total length	
	o	**l***	**p***	**h**	**h_1**	**a**	**k**	
09	429	240	386	236	150	41	1353	
11	527	290	485	300	185	54	1444	1506
14	636	350	605	375	230	67	1543	1605

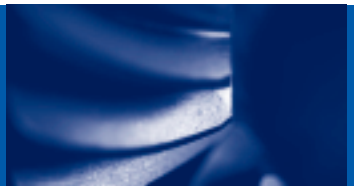
Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1**	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe dimension k_2

GKS □□ - 3 M H□R


k
h1
e1
s1
k1
Δk
h1
a6
f6
b6
h
n
a
□ k2
ϕ g
Lenze
s5
n
a5
b5
f5
o
c5
6x60°
GKS05..14
GKS04
4x60°
45°
75°
ϕb1
HAR
f1
e5
b7
m
g1
ϕ a1
p
i1
u
t
d
d1
l1
l



Geared motor **GKS □□ - 3 M H□R**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

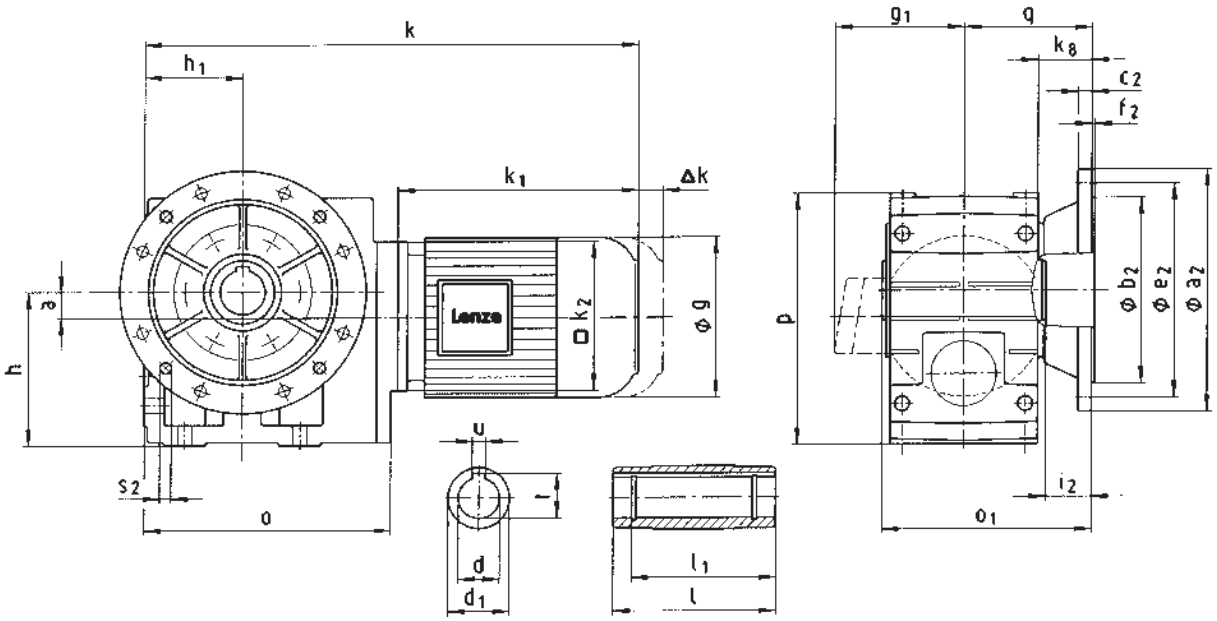
Gearbox size	Gearbox						Total length								
	o	**l***	**p***	**h***	**h_1**	**a**	**k**								
04	203	115	171	100	71	20	379	390	392	441	469				
05	232	140	205	125	80	23			412	461	489	527	557		
06	291	160	250	150	100	28			468	517	545	583	613	631	
07	354	200	310	190	120	34				573	601	639	669	687	782
09	429	240	386	236	150	41					672	710	740	758	853
11	527	290	485	300	185	54						801	831	849	944
14	636	350	605	375	230	67								948	1043

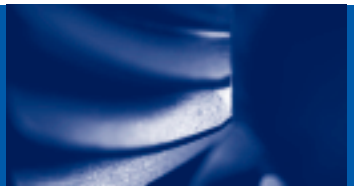
Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1**	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
04	25 30	115	45	100	8 8	28.3 33.3	105	75	90	3	2.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h-a$
** For additional attachments see section 8

GKS □□ - 3 M HAK


k
h1
k1
Δk
a
h
Lenze
□k2
ϕg
u
t
s2
o
d
d1
l1
l
g1
q
k8
c2
f2
ϕb2
ϕe2
ϕa2
p
i2
o1



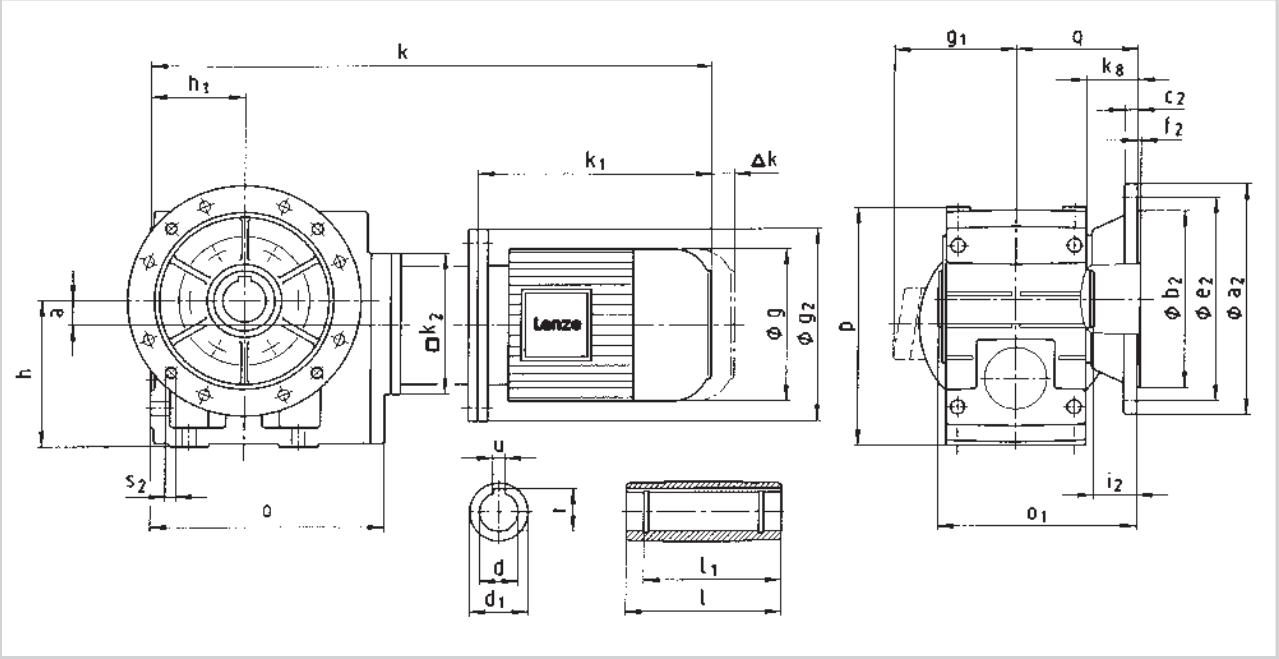
Geared motor **GKS □□ - 3 M HAK**			Motor frame size										
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox								Total length									
	o	o_1*	p*	h*	h_1	a	k_8	q	k									
04	203	148	171	100	71	20	38	90.5	399	419	441	502						
05	232	173	205	125	80	23	40	103	419	439	461	522	556					
06	291	201	250	150	100	28	49	121	475	495	517	578	612	628	672			
07	354	255	310	190	120	34	65	155			573	634	668	684	728	776	853	897
09	429	300	386	236	150	41	69	180				705	739	755	799	847	924	968	1040
11	527	350	485	300	185	54	70	205					830	846	890	938	1015	1059	1131
14	636	410	605	375	230	67	71	235						945	989	1037	1114	1158	1230

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h\text{-}a$
** For additional attachments see section 8



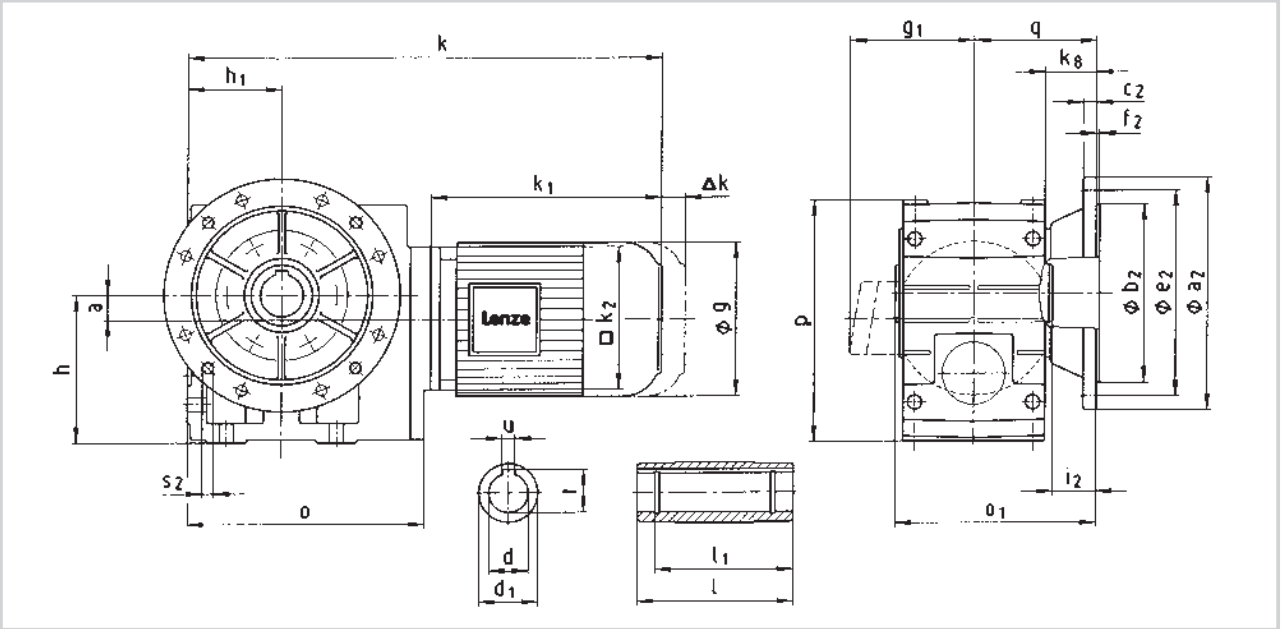
Geared motor **GKS□□ - 3 M HAK**			Motor frame size **200N32**	**225N12 225N22**
Motor	**g**		388	433
	g_1	Without option	291	319
		Brake motor	309	327
	g_2		400	450
	k_1		661	693
	k_2		300	300
	Δk	Brake	175	200
		Separate fan	387	388
		Separate fan + brake	507	518

Gearbox size	Gearbox								Total length
	o	**o_1***	**p***	**h**	**h_1**	**a**	**k_8**	**q**	**k**
09	429	300	386	236	150	41	69	180	1353
11	527	350	485	300	185	54	70	205	1444 / 1506
14	636	410	605	375	230	67	71	235	1543 / 1605

Gearbox size	Hollow shaft						Output flange						
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2



Geared motor **GKS □□ - 3 M HAK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

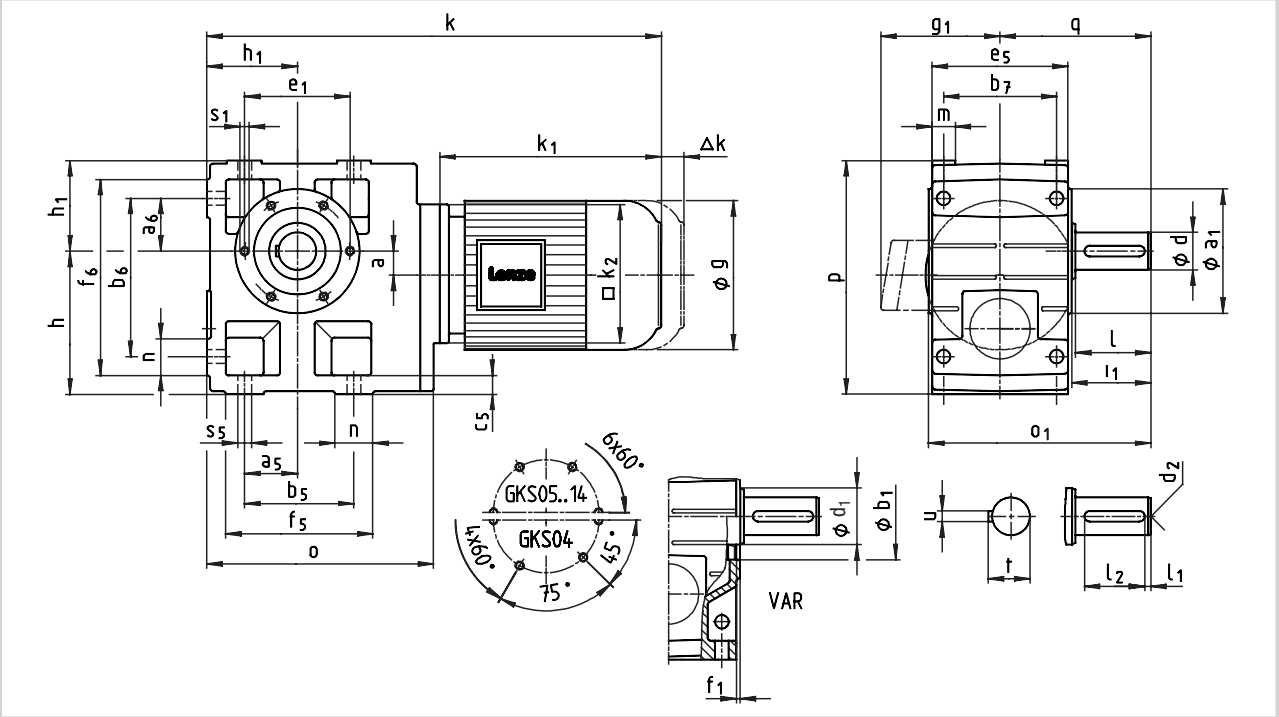
Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h*	h_1	a	k_8	q	k								
04	203	148	171	100	71	20	38	90.5	379	390	392	441	469				
05	232	173	205	125	80	23	40	103			412	461	489	527	557		
06	291	201	250	150	100	28	49	121			468	517	545	583	613	631	
07	354	255	310	190	120	34	65	155				573	601	639	669	687	782
09	429	300	386	236	150	41	69	180					672	710	740	758	853
11	527	350	485	300	185	54	70	205						801	831	849	944
14	636	410	605	375	230	67	71	235								948	1043

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h-a$

** For additional attachments see section 8



Geared motor			Motor frame size										
GKS □□ - 3 M V□R			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

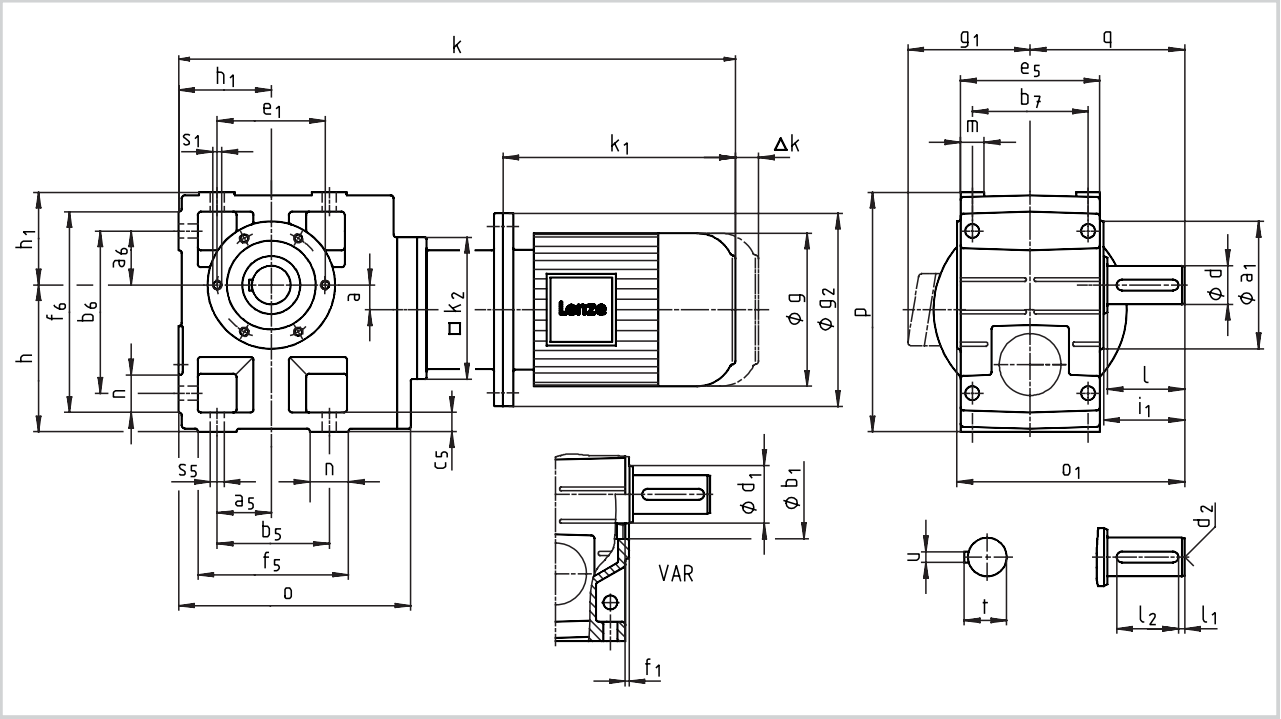
Gearbox size	Gearbox							Total length									
	o	o_1*	p*	h*	h_1	a	q	k									
04	203	163	171	100	71	20	107.5	399	419	441	502						
05	232	197	205	125	80	23	130	419	439	461	522	556					
06	291	236	250	150	100	28	160	475	495	517	578	612	628	672			
07	354	296	310	190	120	34	200			573	634	668	684	728	776	853	897
09	429	356	386	236	150	41	240				705	739	755	799	847	924	968	1040
11	527	445	485	300	185	54	305					830	846	890	938	1015	1059	1131
14	636	544	605	375	230	67	375						945	989	1037	1114	1158	1230

Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h\text{-}a$
** For additional attachments see section 8



Geared motor **GKS□□ - 3 M V□R**		Motor frame size **200N32**	**225N12 225N22**
Motor	**g**	388	433
	g1 Without option	291	319
	Brake motor	309	327
	g2	400	450
	k1	661	693
	k2	300	300
	Δk Brake	175	200
	Separate fan	387	388
	Separate fan + brake	507	518

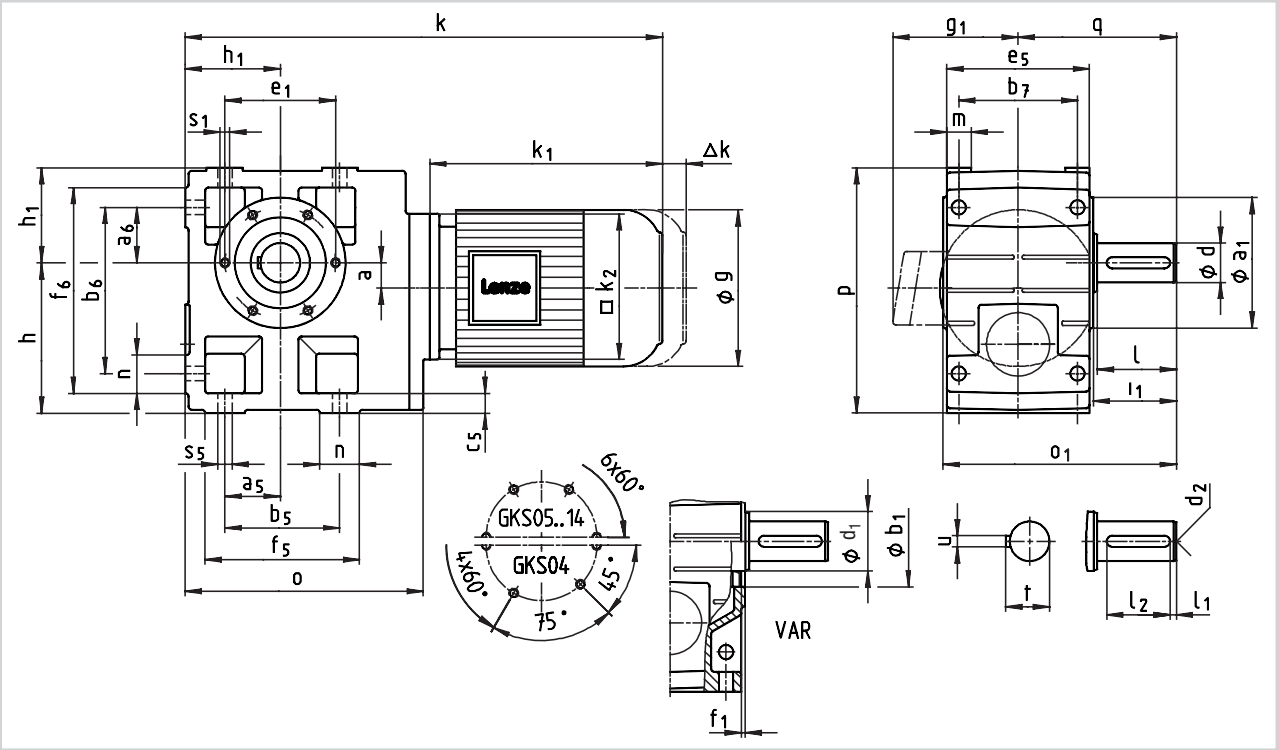
Gearbox size	Gearbox							Total length	
	o*	**o1***	**p***	**h**	**h1**	**a**	**q**	**k**	
09	429	356	386	236	150	41	240	1353	
11	527	445	485	300	185	54	305	1444	1506
14	636	544	605	375	230	67	375	1543	1605

Gearbox size	Solid shaft								Pitch circle					
	d	**l**	**d1**	**l1**	**l2**	**d2**	**u**	**t**	**a1**	**b1** H7	**e1**	**f1**	**i1**	**s1**
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35

Gearbox size	Foot											
	a5	**a6**	**b5**	**b6**	**b7**	**c5**	**e5**	**f5**	**f6**	**n**	**m**	**s5**
09	90	90	240	266	185	30	222	300	326	60	37	22
11	105	105	290	325	225	40	270	363	398	73	43	26
14	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm] d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2



Geared motor **GKS □□ - 3 M V□R**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk**	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

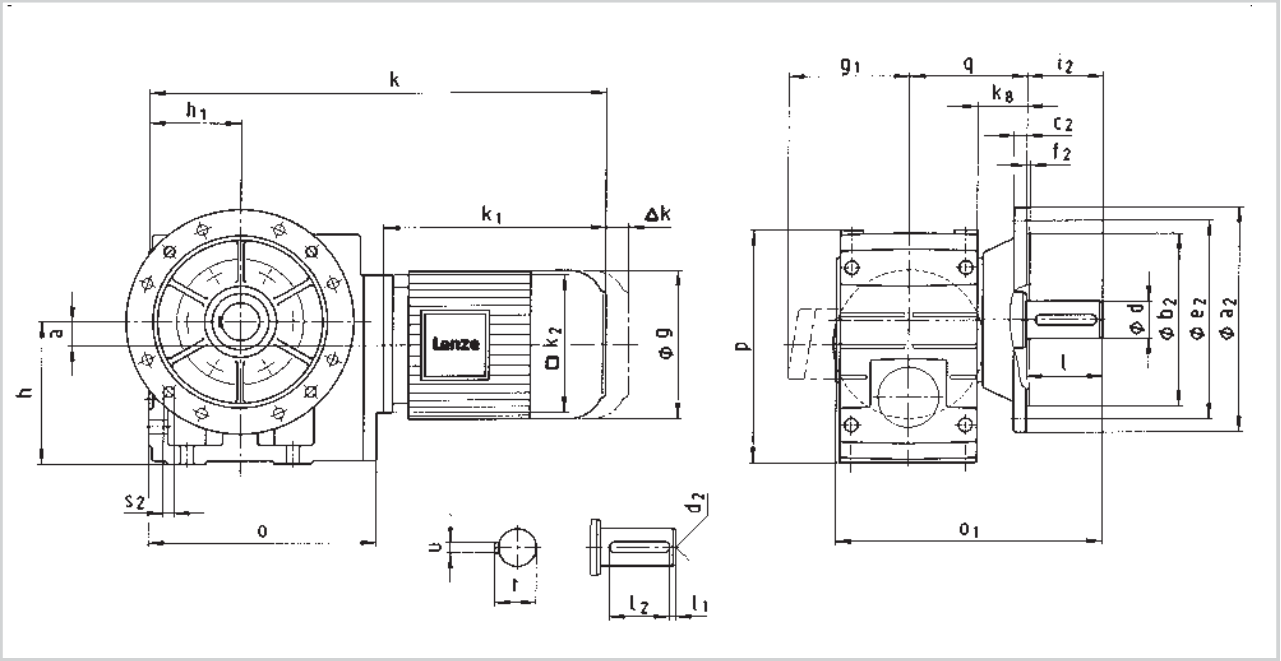
Gearbox size	Gearbox							Total length							
	o	o_1*	p*	h*	h_1	a	q	k							
04	203	163	171	100	71	20	107.5	379	390	392	441	469			
05	232	197	205	125	80	23	130			412	461	489	527	557	
06	291	236	250	150	100	28	160			468	517	545	583	613	631
07	354	296	310	190	120	34	200				573	601	639	669	687	782
09	429	356	386	236	150	41	240					672	710	740	758	853
11	527	445	485	300	185	54	305						801	831	849	944
14	636	544	605	375	230	67	375								948	1043

Gearbox size	Solid shaft								Pitch circle						Foot											
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2$ > h-a
** For additional attachments see section 8



Geared motor			Motor frame size										
GKS □□ - 3 M VAK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

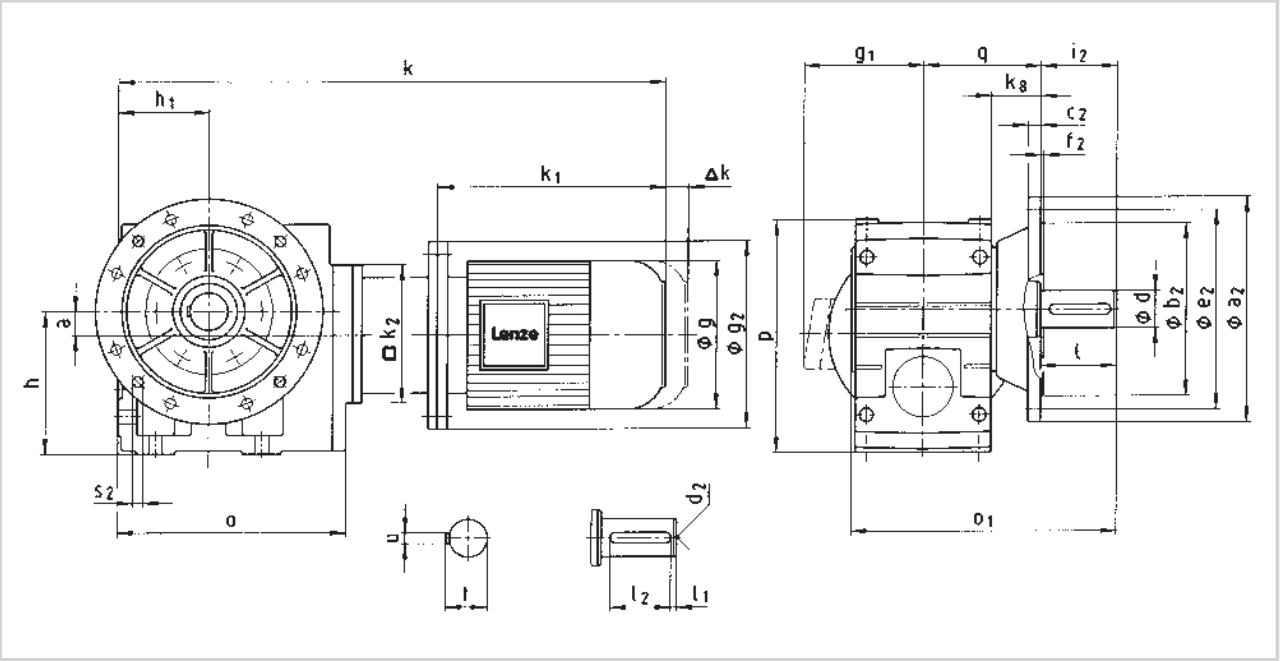
Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h*	h_1	a	k_8	q	k								
04	203	196	171	100	71	20	38	90.5	399	419	441	502					
05	232	230	205	125	80	23	40	103	419	439	461	522	556				
06	291	277	250	150	100	28	49	121	475	495	517	578	612	628	672		
07	354	351	310	190	120	34	65	155			573	634	668	684	728	776	853	897	
09	429	416	386	236	150	41	69	180				705	739	755	799	847	924	968	1040
11	527	505	485	300	185	54	70	205					830	846	890	938	1015	1059	1131
14	636	604	605	375	230	67	71	235						945	989	1037	1114	1158	1230

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2$ > h-a
** For additional attachments see section 8



Geared motor **GKS□□ - 3 M VAK**		Motor frame size **200N32**	**225N12 225N22**
Motor	g	388	433
	g_1 Without option	291	319
	Brake motor	309	327
	g_2	400	450
	k_1	661	693
	k_2	300	300
	Δk Brake	175	200
	Separate fan	387	388
	Separate fan + brake	507	518

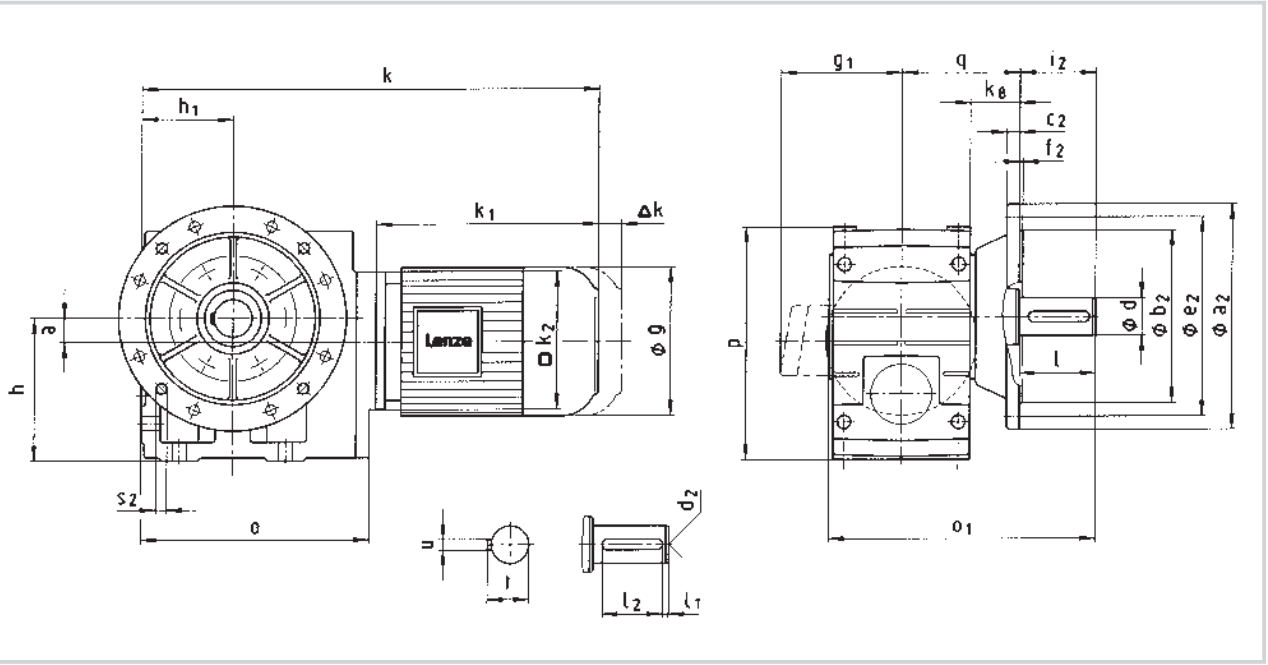
Gearbox size	Gearbox								Total length
	o	o_1*	p*	h	h_1	a	k_8	q	k
09	429	416	386	236	150	41	69	180	1353
11	527	505	485	300	185	54	70	205	1444 / 1506
14	636	604	605	375	230	67	71	235	1543 / 1605

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2



Geared motor **GKS □□ - 3 M VAK**			Motor frame size									
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

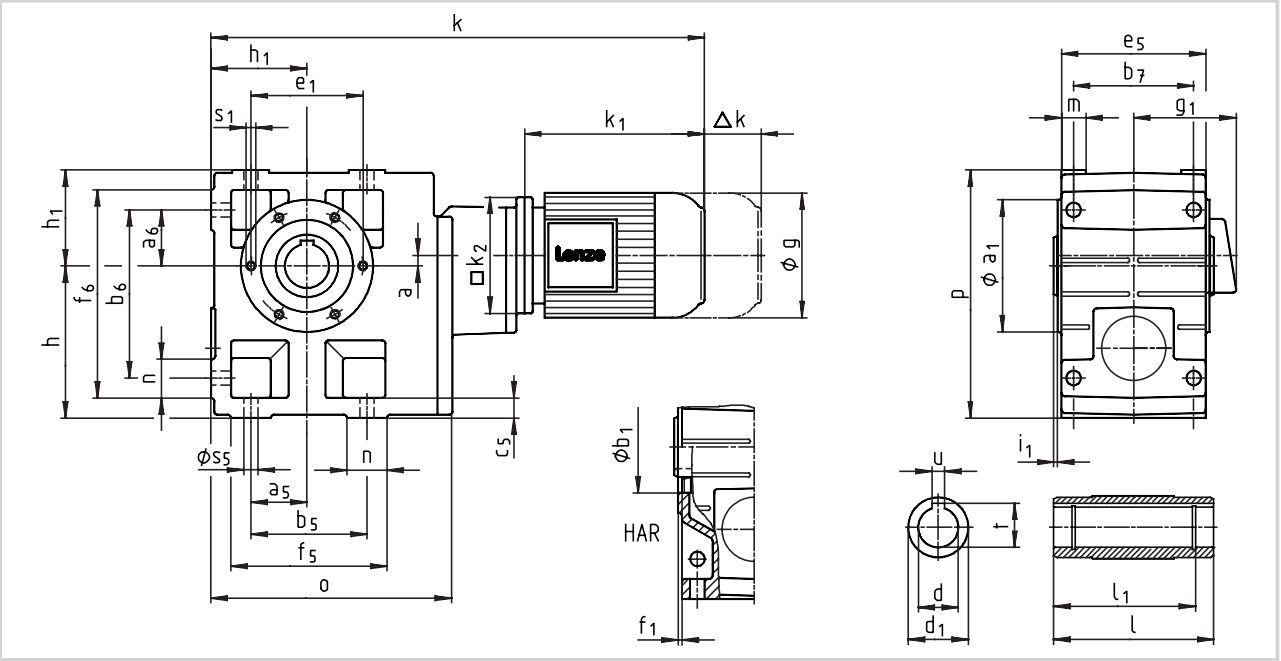
Gearbox size	Gearbox								Total length								
	o*	o_1*	p*	h*	h_1	a	k_8	q	k								
04	203	196	171	100	71	20	38	90.5	379	390	392	441	469				
05	232	230	205	125	80	23	40	103			412	461	489	527	557		
06	291	277	250	150	100	28	49	121			468	517	545	583	613	631	
07	354	351	310	190	120	34	65	155				573	601	639	669	687	782
09	429	416	386	236	150	41	69	180					672	710	740	758	853
11	527	505	485	300	185	54	70	205						801	831	849	944
14	636	604	605	375	230	67	71	235								948	1043

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2$ > h-a
** For additional attachments see section 8



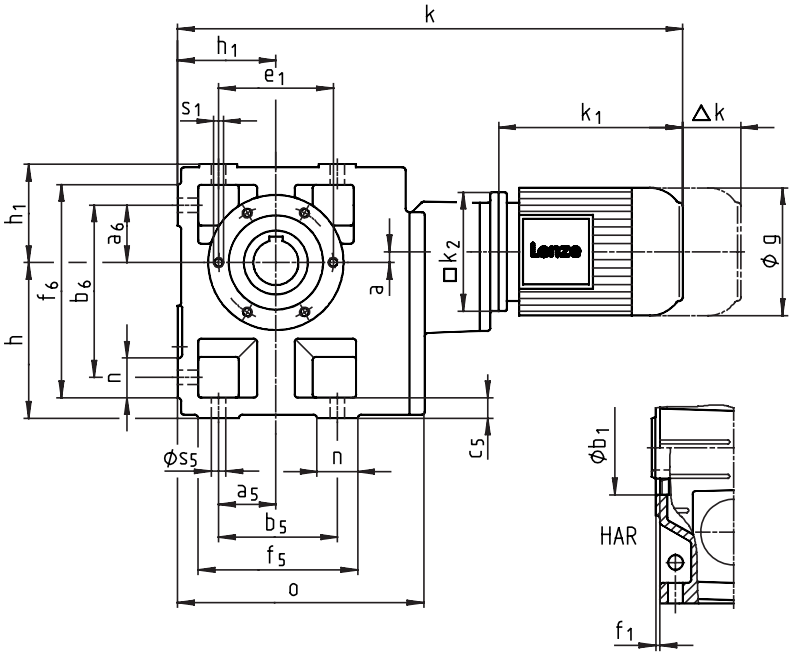
Geared motor **GKS □□ - 4 M H□R**		Motor frame size									
		063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g	123	138	156	176	196	220		261	310		355
	g_1 Without option	100	109	141	146	157	167		195	207		226
	Brake motor	107	116	130	135	146	156		195	207		226
	k_1	188	207	225	276	309	319	363	404	475	519	592
	k_2	120	120	145	180	180	222		265	300		300
	Δk** Brake	40	52	73	70	79	90		109	96		83
	Separate fan	130	128	128	127	109	102		115	96		83
	Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox						Total length									
	o	l*	p*	h	h_1	a	k									
05	226	140	205	125	80	13	496	515	538	599						
06	288	160	250	150	100	8	569	588	611	672						
07	351	200	310	190	120	11	636	655	678	739	772					
09	426	240	386	236	150	15	725	744	767	828	861	877	921			
11	523	290	485	300	185	16			877	938	971	987	1031	1080	1156	1200
14	632	350	605	375	230	22				1071	1104	1120	1164	1213	1289	1333	1406

Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8

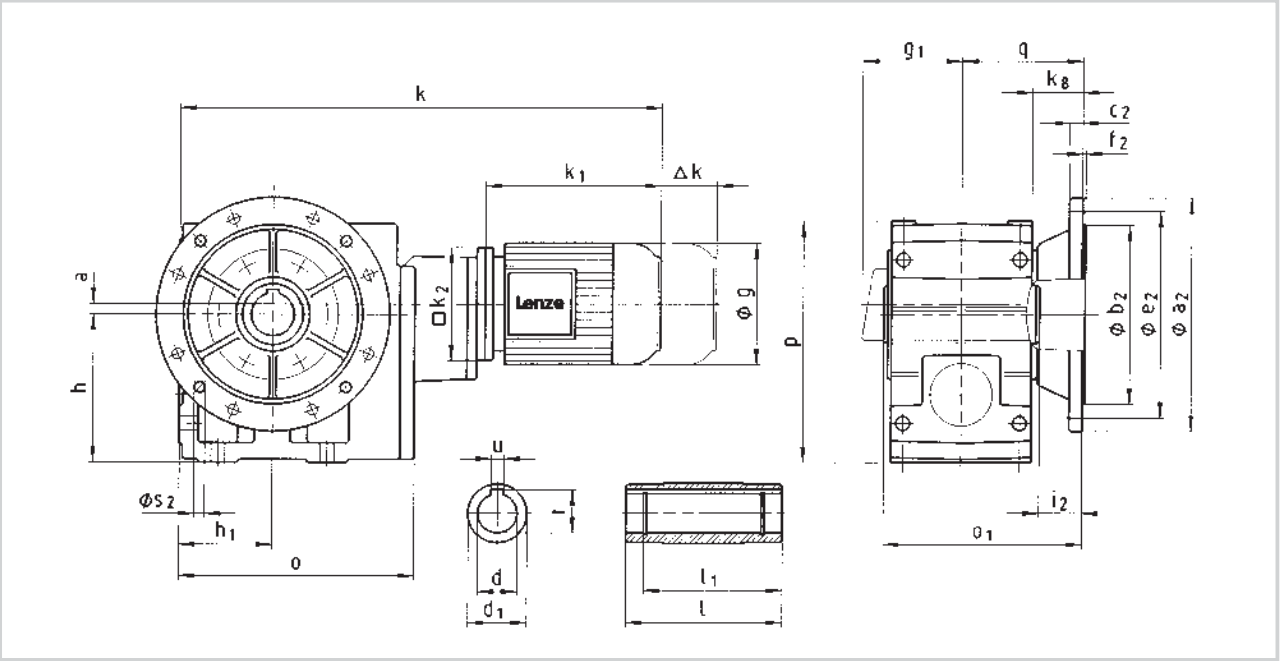


Geared motor **GKS □□ - 4 M H□R**			Motor frame size								
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	**g**		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox						Total length								
	o	**l***	**p***	**h**	**h_1**	**a**	**k**								
05	226	140	205	125	80	13	476	487	489	538	565				
06	288	160	250	150	100	8	549	560	562	611	638				
07	351	200	310	190	120	11			629	678	705	743	773		
09	426	240	386	236	150	15			718	767	794	832	862	881	
11	523	290	485	300	185	16				877	904	942	972	991	1085
14	632	350	605	375	230	22					1037	1075	1105	1124	1218

Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm] * Observe dimension k_2 ** For additional attachments see section 8



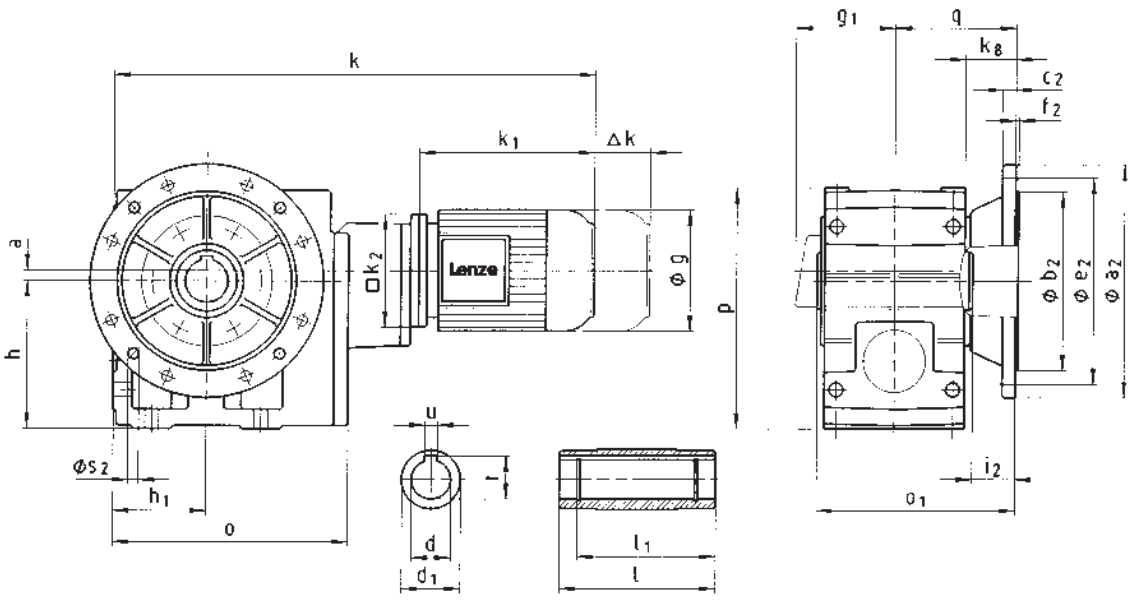
Geared motor			Motor frame size										
GKS □□ - 4 M HAK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk**	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h	h_1	a	k_8	q	k								
05	226	173	205	125	80	13	40	103	496	515	538	599					
06	288	201	250	150	100	8	49	121	569	588	611	672					
07	351	255	310	190	120	11	65	155	636	655	678	739	772				
09	426	300	386	236	150	15	69	180	725	744	767	828	861	877	921		
11	523	350	485	300	185	16	70	205			877	938	971	987	1031	1080	1156	1200	
14	632	410	605	375	230	22	71	235				1071	1104	1120	1164	1213	1289	1333	1406

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



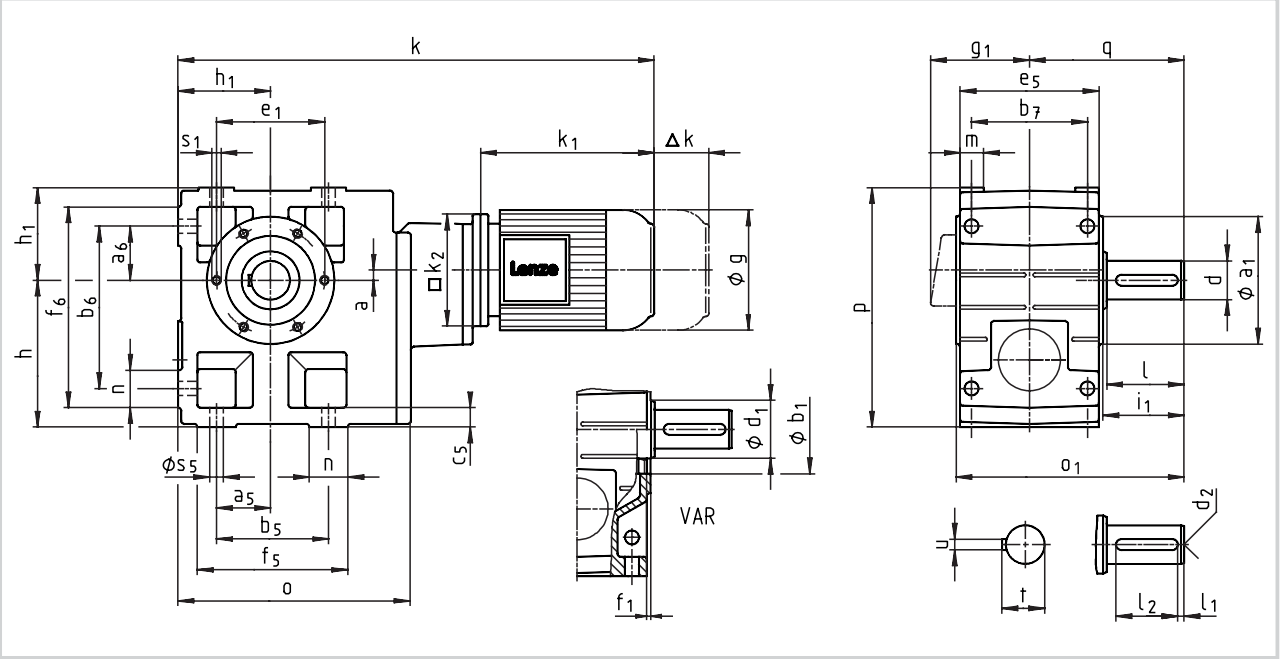
Geared motor **GKS □□ - 4 M HAK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h	h_1	a	k_8	q	k								
05	226	173	205	125	80	13	40	103	476	487	489	538	565				
06	288	201	250	150	100	8	49	121	549	560	562	611	638				
07	351	255	310	190	120	11	65	155			629	678	705	743	773		
09	426	300	386	236	150	15	69	180			718	767	794	832	862	881	
11	523	350	485	300	185	16	70	205				877	904	942	972	991	1085
14	632	410	605	375	230	22	71	235					1037	1075	1105	1124	1218

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



Geared motor		Motor frame size									
GKS □□ - 4 M V□R		063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g	123	138	156	176	196	220		261	310		355
	g_1 Without option	100	109	141	146	157	167		195	207		226
	Brake motor	107	116	130	135	146	156		195	207		226
	k_1	188	207	225	276	309	319	363	404	475	519	592
	k_2	120	120	145	180	180	222		265	300		300
	Δk** Brake	40	52	73	70	79	90		109	96		83
	Separate fan	130	128	128	127	109	102		115	96		83
	Separate fan + brake	170	165	184	180	170	183		201	208		198

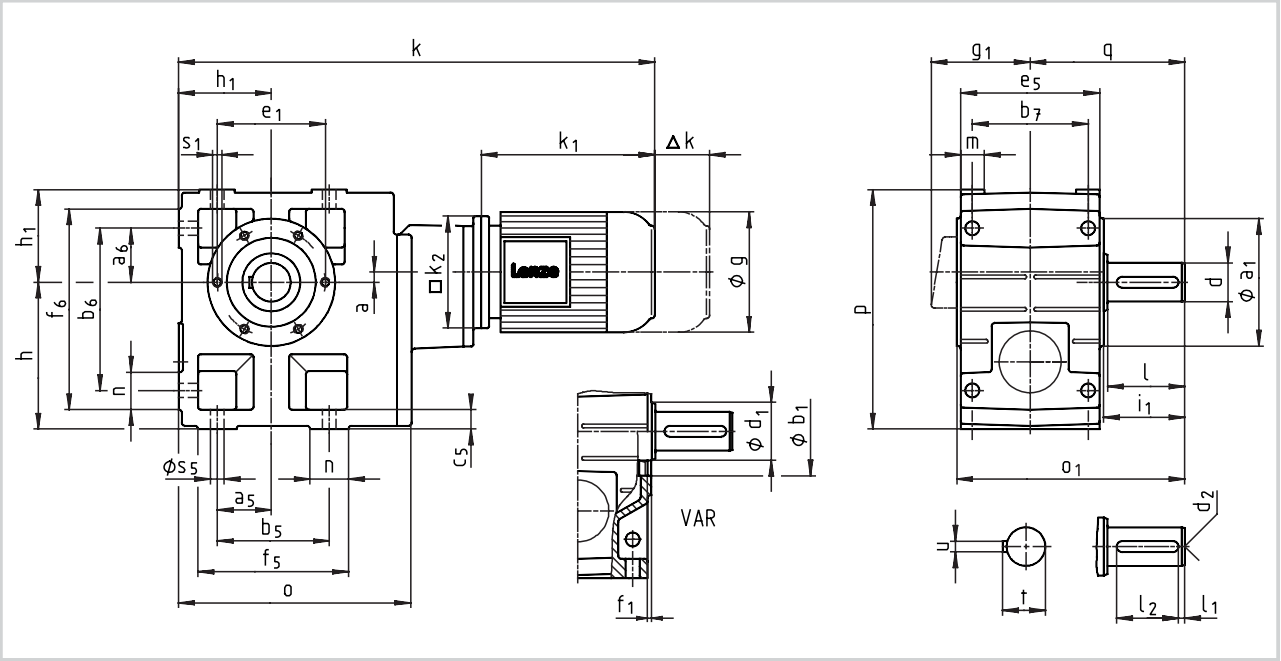
Gearbox size	Gearbox							Total length k									
	o	o_1*	p*	h	h_1	a	q										
05	226	197	205	125	80	13	130	496	515	538	599						
06	288	236	250	150	100	8	160	569	588	611	672						
07	351	296	310	190	120	11	200	636	655	678	739	772					
09	426	356	386	236	150	15	240	725	744	767	828	861	877	921			
11	523	445	485	300	185	16	305			877	938	971	987	1031	1080	1156	1200
14	632	544	605	375	230	22	375				1071	1104	1120	1164	1213	1289	1333	1406

Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k
** For additional attachments see section 8



Geared motor **GKS □□ - 4 M V□R**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

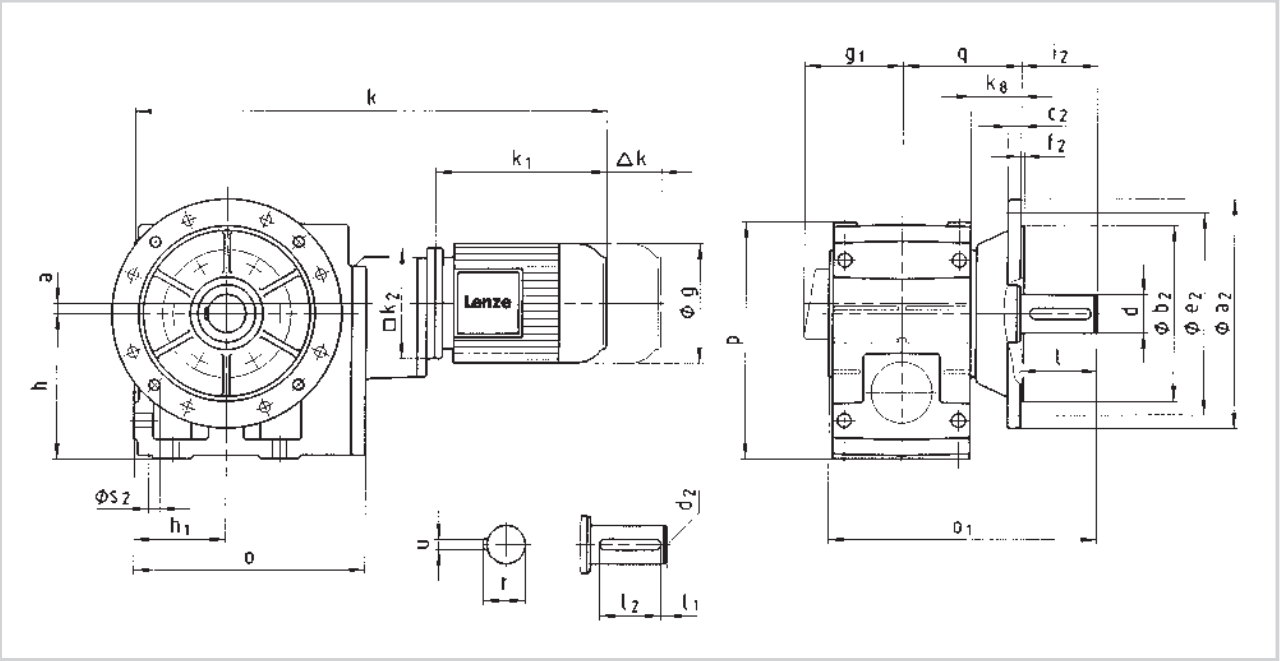
Gearbox size	Gearbox							Total length								
	o	o_1*	p*	h	h_1	a	q	k								
05	226	197	205	125	80	13	130	476	487	489	538	565				
06	288	236	250	150	100	8	160	549	560	562	611	638				
07	351	296	310	190	120	11	200			629	678	705	743	773		
09	426	356	386	236	150	15	240			718	767	794	832	862	881	
11	523	445	485	300	185	16	305				877	904	942	972	991	1085
14	632	544	605	375	230	22	375					1037	1075	1105	1124	1218

Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor			Motor frame size										
GKS □□ - 4 M VAK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
Motor	g		123	138	156	176	196	220		261	310		355
	g_1	Without option	100	109	141	146	157	167		195	207		226
		Brake motor	107	116	130	135	146	156		195	207		226
	k_1		188	207	225	276	309	319	363	404	475	519	592
	k_2		120	120	145	180	180	222		265	300		300
	Δk **	Brake	40	52	73	70	79	90		109	96		83
		Separate fan	130	128	128	127	109	102		115	96		83
		Separate fan + brake	170	165	184	180	170	183		201	208		198

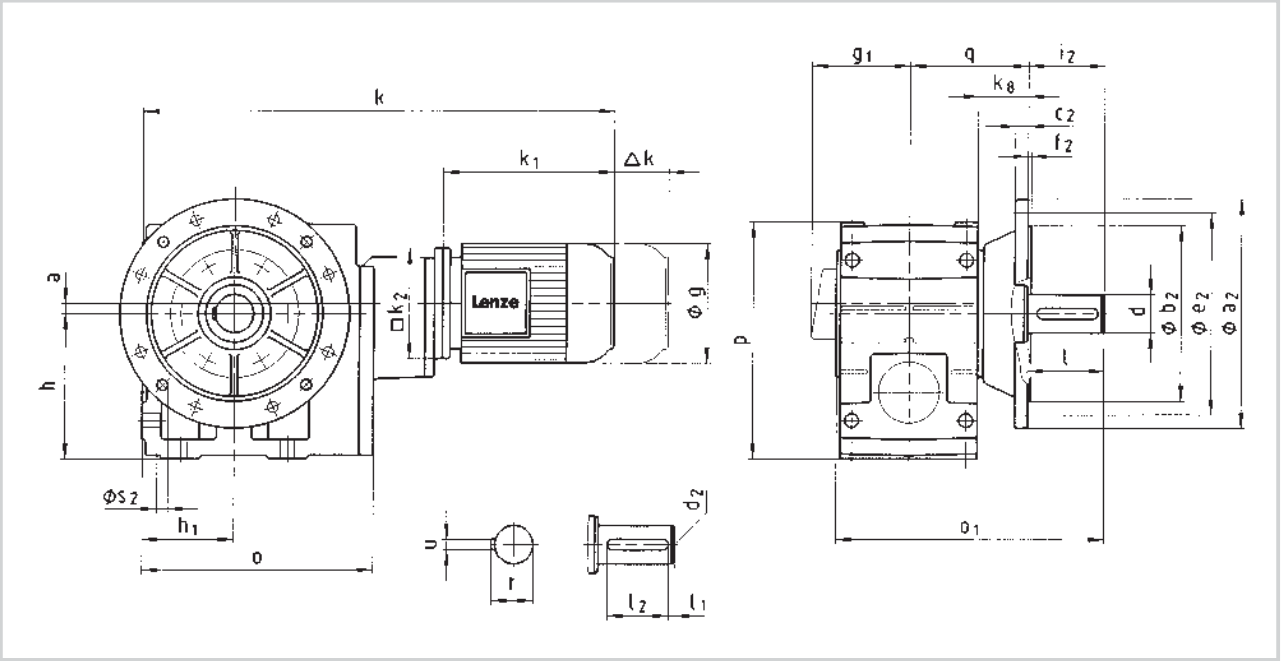
Gearbox size	Gearbox								Total length k								
	o	o_1*	p*	h	h_1	a	k_8	q									
05	226	230	205	125	80	13	40	103	496	515	538	599							
06	288	277	250	150	100	8	49	121	569	588	611	672							
07	351	351	310	190	120	11	65	155	636	655	678	739	772						
09	426	416	386	236	150	15	69	180	725	744	767	828	861	877	921				
11	523	505	485	300	185	16	70	205			877	938	971	987	1031	1080	1156	1200	
14	632	604	605	375	230	22	71	235				1071	1104	1120	1164	1213	1289	1333	1406

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k
** For additional attachments see section 8



Geared motor **GKS □□ - 4 M VAK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox								Total length							
	o	o_1*	p*	h	h_1	a	k_8	q	k							
05	226	230	205	125	80	13	40	103	476	487	489	538	565			
06	288	277	250	150	100	8	49	121	549	560	562	611	638			
07	351	351	310	190	120	11	65	155			629	678	705	743	773	
09	426	416	386	236	150	15	69	180			718	767	794	832	862	881
11	523	505	485	300	185	16	70	205				877	904	942	972	991	1085
14	632	604	605	375	230	22	71	235					1037	1075	1105	1124	1218

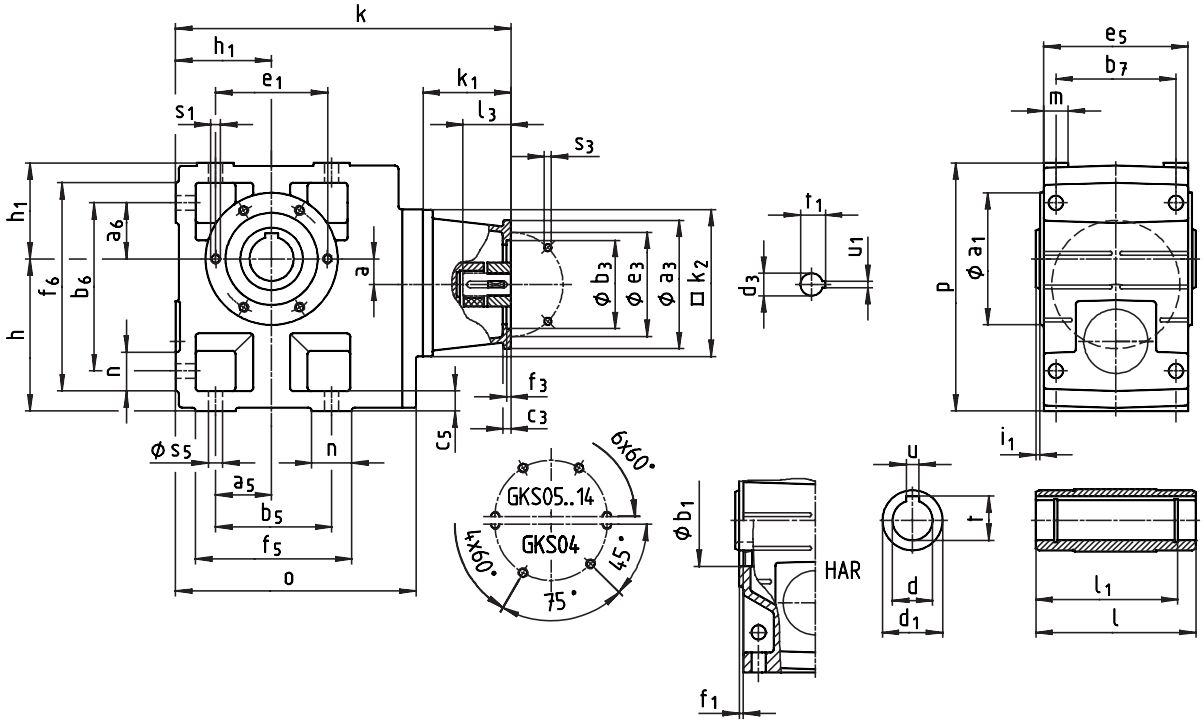
Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k
** For additional attachments see section 8

GKS □□ - 3 N H□R


k
h1
e1
s1
k1
l3
s3
h1
a6
h
f6
b6
n
a
ϕ b3
ϕ e3
ϕ a3
□ k2
t1
d3
u1
e5
b7
m
p
ϕ a1
i1
f3
c3
c5
ϕ s5
n
a5
b5
f5
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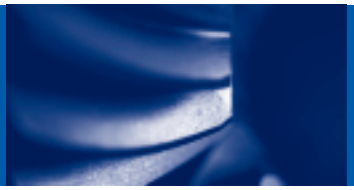
d
d1
l1
l

6



Gearbox				Drive size																				
GKS □□ - 3 N H□R corresponds to IEC motor				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
				63	71	63	80		71	71	90	80	100	90	80	100	90	132	100		160	180	132	200	225
													112			112			112						
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2		120	145	120	145				180		180			180		265			300			300	
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
			8 x																						17.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3	min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
			max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

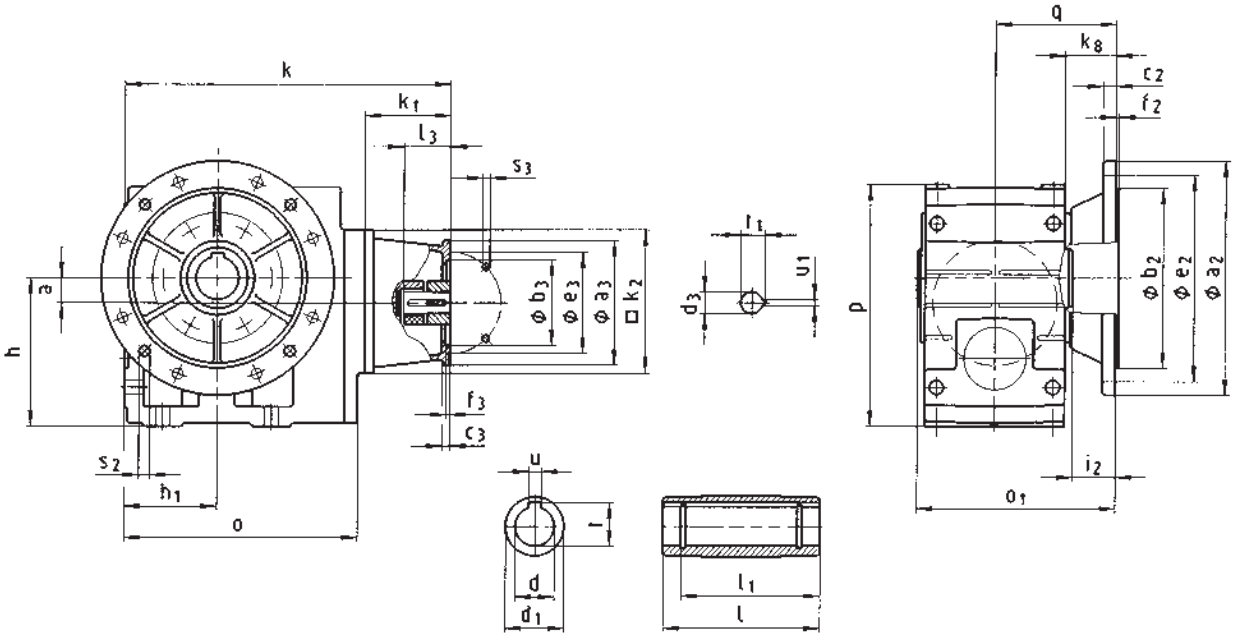
Gearbox size	Gearbox						Total length																	
	o	l*	p*	h*	h_1	a	k																	
04	203	115	171	100	71	20	287	294	287	308		342												
05	232	140	205	125	80	23		314		328		362	357											
06	291	160	250	150	100	28		370		384		418	413		442									
07	354	200	310	190	120	34				440		474	469		498		553	533	553	596		566		
09	429	240	386	236	150	41						545	540		569		624	604	624	667	667	637	692	
11	527	290	485	300	185	54							631		660		715	695	715	758	758	728	783	813
14	636	350	605	375	230	67											814	794	814	857	857	827	882	912

Gearbox size	Hollow shaft						Pitch circle						Foot											
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	115	45	100	8	28.3	105	75	90	3	2.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
	30				8	33.3																		
05	30	140	50	124	8	33.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
	35				10	38.3																		
06	40	160	65	140	12	43.3	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
	45				14	48.8																		
07	50	200	75	175	14	53.8	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
	55				16	59.3																		
09	60	240	95	210	18	64.4	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
	70				20	74.9																		
11	70	290	105	250	20	74.9	240	140	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
	80				22	85.4																		
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2$ > h-a

GKS □□ - 3 N HAK


k
k1
l3
s3
a
h
ϕ b3
ϕ e3
ϕ a3
□ k2
f3
c3
s2
h1
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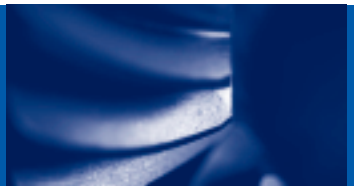
u1
d3
u
t
d
d1
l1
l
q
k8
c2
f2
p
ϕ b2
ϕ e2
ϕ a2
i2
o1



Gearbox				Drive size																				
GKS □□ - 3 N HAK corresponds to IEC motor				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200	225
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2		120	145	120	145				180		180			180		265			300			300	
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3	4 x 8 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	17.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3	min max	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60		80 80	60 60	80 80	110 110	110 110	80 80	110 110	140 140
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

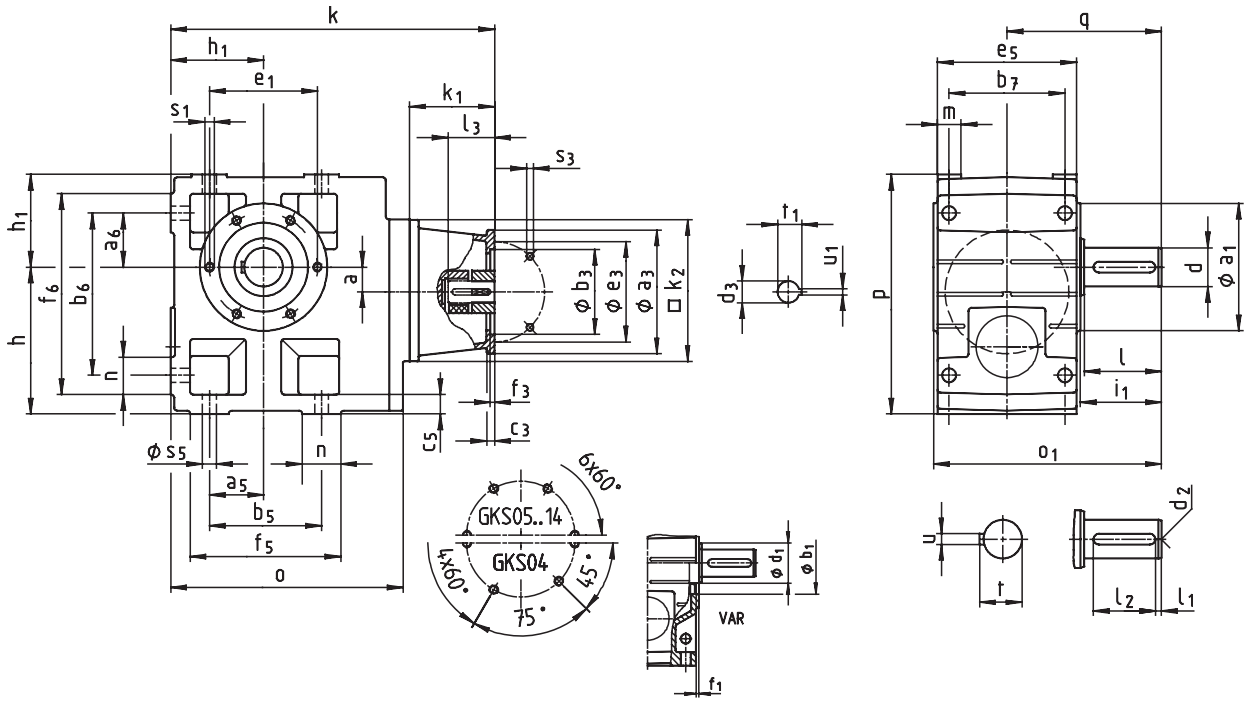
Gearbox size	Gearbox								Total length
	o	o_1*	p*	h*	h_1	a	k_8	q	k
04	203	148	171	100	71	20	38	90.5	287 294 287 308 342
05	232	173	205	125	80	23	40	103	314 328 362 357
06	291	201	250	150	100	28	49	121	370 384 418 413 442
07	354	255	310	190	120	34	65	155	440 474 469 498 553 533 553 596 566
09	429	300	386	236	150	41	69	180	545 540 569 624 604 624 667 667 637 692
11	527	350	485	300	185	54	70	205	631 660 715 695 715 758 758 728 783 813
14	636	410	605	375	230	67	71	235	814 794 814 857 857 827 882 912

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2$ > h-a

GKS □□ - 3 N V□R


k
h1
e1
s1
k1
l3
s3
h1
a6
f6
b6
h
n
a
ϕ b3
ϕ e3
ϕ a3
□ k2
t1
u1
d3
f3
c3
c5
ϕ s5
n
a5
b5
f5
o
6x60°
GKS05..14
GKS04
4x60°
45°
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ϕ d1
ϕ b1
VAR
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e5
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i1
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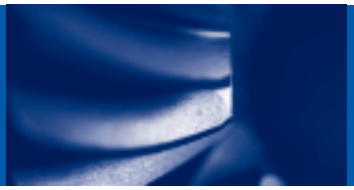
d2
l2
l1

6



Gearbox GKS □□ - 3 N V□R corresponds to IEC motor			Drive size																				
			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
			63	71	63	80		71	71	90	80	100	90	80	100	90	132	100		160	180	132	200	225
												112			112			112						
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2	120	145	120	145				180		180			180		265			300			300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	
		s_3 8 x																						17.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80	110	140
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80	110	140
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

Gearbox size	Gearbox							Total length
	o	o_1*	p*	h*	h_1	a	q	k
04	203	163	171	100	71	20	1075	287 294 287 308 342
05	232	197	205	125	80	23	130	314 328 362 357
06	291	236	250	150	100	28	160	370 384 418 413 442
07	354	296	310	190	120	34	200	440 474 469 498 553 533 553 596 566
09	429	356	386	236	150	41	240	545 540 569 624 604 624 667 667 637 692
11	527	445	485	300	185	54	305	631 660 715 695 715 758 758 728 783 813
14	636	544	605	375	230	67	375	814 794 814 857 857 827 882 912

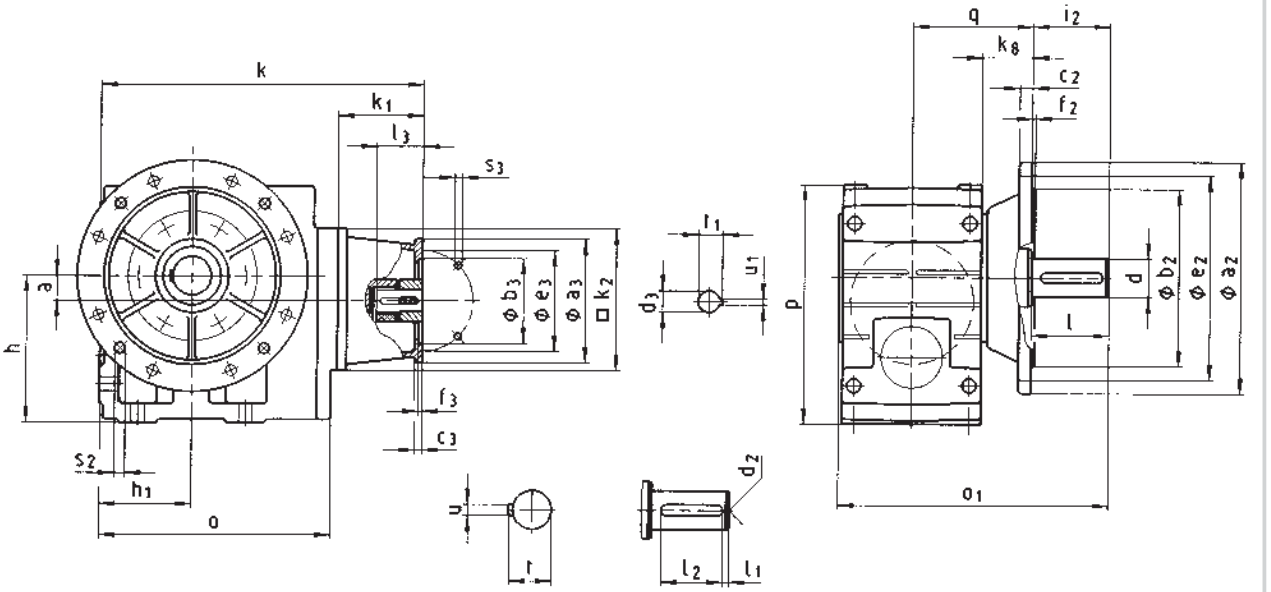
Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2$ > h-a

GKS □□ - 3 N VAK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s3
a
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f3
c3
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u1
d3
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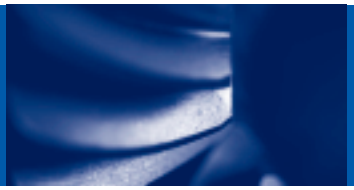
ϕ e2
ϕ a2
l
o1

6



Gearbox GKS □□ - 3 N VAK corresponds to IEC motor				Drive size																				
				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H	1K	2K
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132	200	225
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188	243	273
		k_2		120	145	120	145				180		180			180		265			300			300	
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300	400	450
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230	300	350
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18	20	
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265	350	400
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5	6	
		s_3	4 x 8 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5	17.5	17.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38	55	60
		l_3	min max	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60		80 80	60 60	80 80	110 110	110 110	80 80	110 110	140 140
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10	16	18
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41	59	64

Gearbox size	Gearbox								Total length
	o	o_1*	p*	h*	h_1	a	k_8	q	k
04	203	169	171	100	71	20	38	90.5	287 294 287 308 342
05	232	230	205	125	80	23	40	103	314 328 362 357
06	291	277	250	150	100	28	49	121	370 384 418 413 442
07	354	351	310	190	120	34	65	155	440 474 469 498 553 533 553 596 566
09	429	416	386	236	150	41	69	180	545 540 569 624 604 624 667 667 637 692
11	527	505	485	300	185	54	70	205	631 660 715 695 715 758 758 728 783 813
14	636	604	605	375	230	67	71	235	814 794 814 857 857 827 882 912

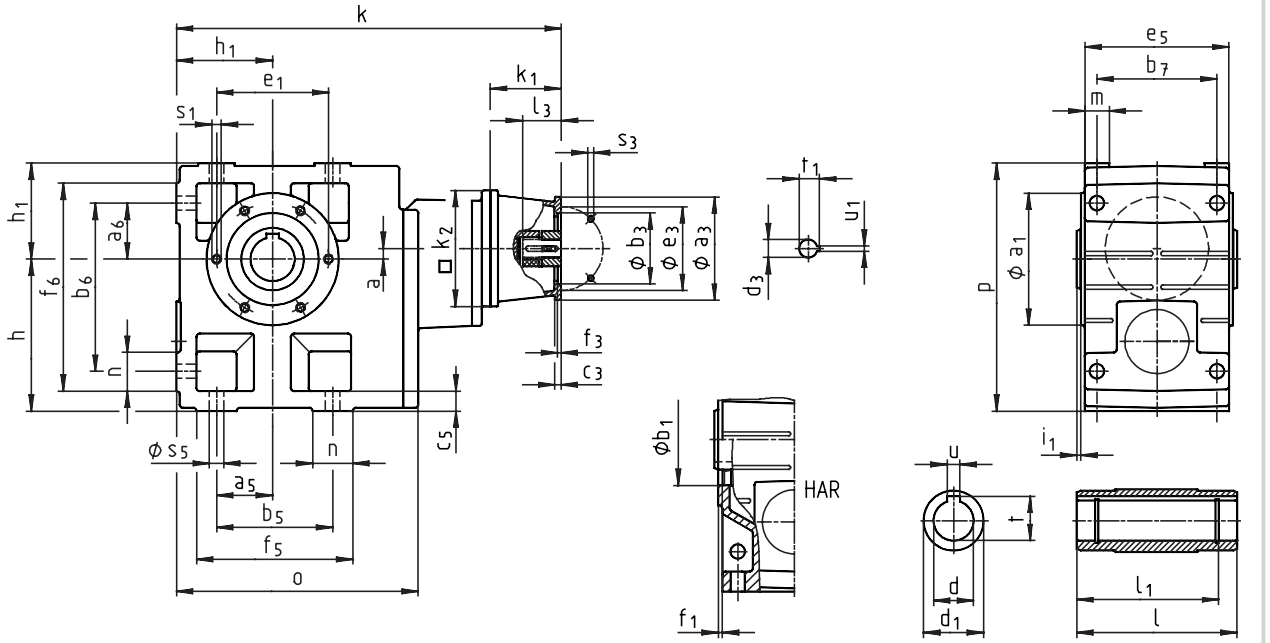
Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2$ > h-a

GKS □□ - 4 N H□R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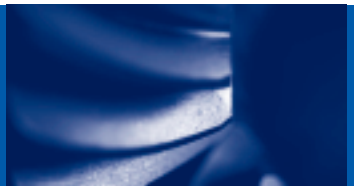


Gearbox GKS □□ - 4 N H□R corresponds to IEC motor				Drive size																		
				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing		k_1	75	77	75	91				115		110			139		180	160	180	218	218	188
			k_2	120	145	120	145				180		180			180		265			300		
	Flange		a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		H8	b_3	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
			c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
			e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
			f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		4 x	s_3	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts		d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		min max	l_3	23 23	30 30	23 23	25 40				50 50	40 50	30 60			30 60		80 80	60 60	80 80	110 110	110 110	80 80
			u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
			t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

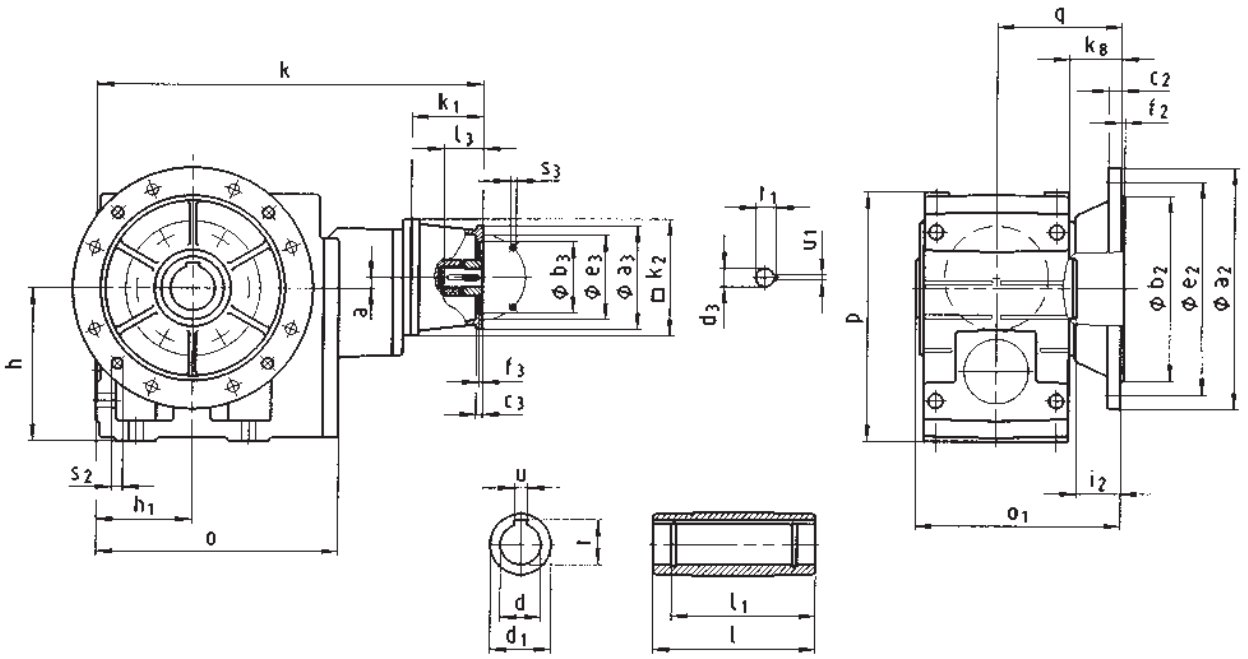
Gearbox size	Gearbox						Total length
	o	l*	p*	h	h_1	a	k
05	226	140	205	125	80	13	383 390 383 404 438
06	288	160	250	150	100	8	456 463 456 477 511
07	351	200	310	190	120	11	530 544 578 573
09	426	240	386	236	150	15	619 633 667 662 691
11	523	290	485	300	185	16	743 777 772 801 856 836 856
14	632	350	605	375	230	22	910 905 934 989 969 989 1032 1032 1002

Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	140	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	170	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe dimension k_2

GKS □□ - 4 N HAK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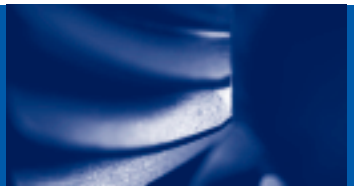


Gearbox **GKS □□ - 4 N HAK** corresponds to IEC motor			Drive size																		
			1A	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**2H**	**3H**
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2	120	145	120	145				180		180			180		265			300		
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	110	80
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	110	80
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

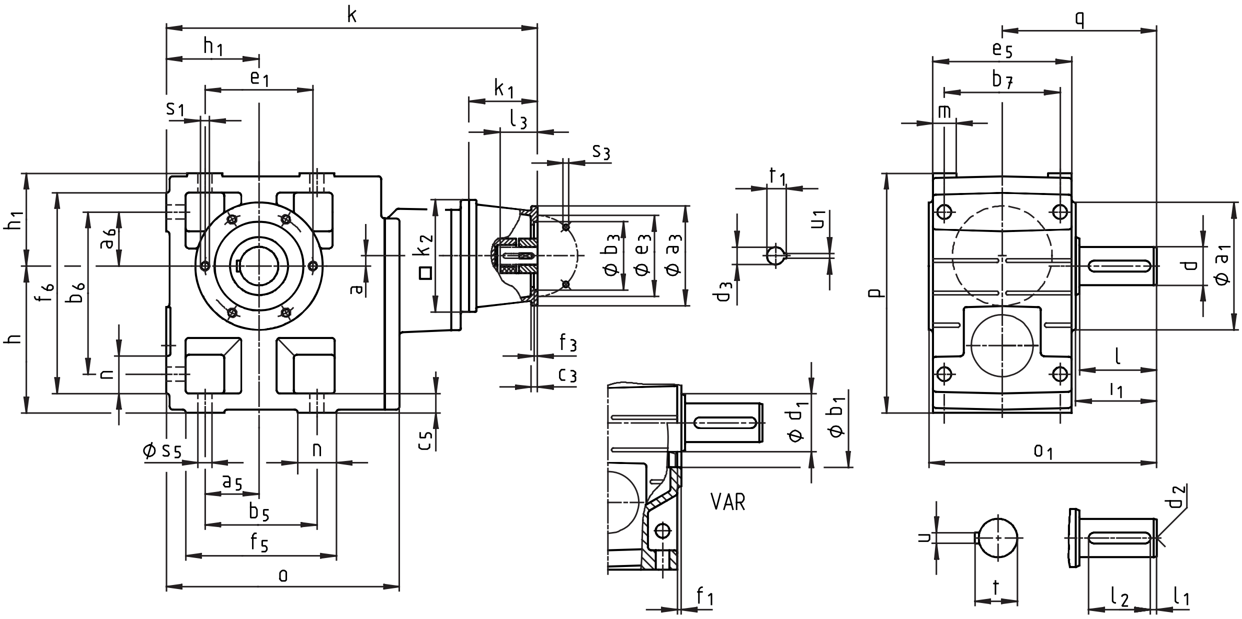
Gearbox size	Gearbox								Total length													
	o	**o_1***	**p***	**h**	**h_1**	**a**	**k_8**	**q**	**k**													
05	226	173	205	125	80	13	40	103	383	390	383	404		438								
06	288	201	250	150	100	8	49	121	456	463	456	477		511								
07	351	255	310	190	120	11	65	155		530		544		578	573							
09	426	300	386	236	150	15	69	180		619		633		667	662		691					
11	523	350	485	300	185	16	70	205				743		777	772		801	856	836	856		
14	632	410	605	375	230	22	71	235						910	905		934	989	969	989	1032	1032	1002

Gearbox size	Hollow shaft						Output flange						
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 17.5
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 17.5 8 x 17.5
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 17.5

Dimensions in [mm]

* Observe dimension k_2

GKS □□ - 4 N V□R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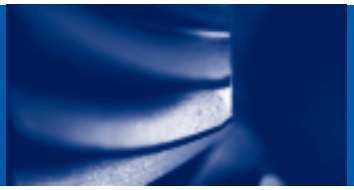


Gearbox GKS □□ - 4 N V□R corresponds to IEC motor				Drive size																		
				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing	k_1		75	77	75	91				115		110			139		180	160	180	218	218	188
		k_2		120	145	120	145				180		180			180		265			300		
	Flange	a_3		90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		b_3	H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
		c_3		7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
		e_3		75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
		f_3		3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		s_3	4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts	d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		l_3	min	23	30	23	25				50	40	30			30		80	60	80	110	110	80
			max	23	30	23	40				50	50	60			60		80	60	80	110	110	80
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

Gearbox size	Gearbox							Total length														
	o	o_1*	p*	h	h_1	a	q	k														
05	226	197	205	125	80	13	130	383	390	383	404		438									
06	288	236	250	150	100	8	160	456	463	456	477		511									
07	351	296	310	190	120	11	200		530		544		578	573								
09	426	356	386	236	150	15	240		619		633		667	662		691						
11	523	445	485	300	185	16	305				743		777	772		801		856	836	856		
14	632	544	605	375	230	22	375						910	905		934		989	969	989	1032	1032	1002

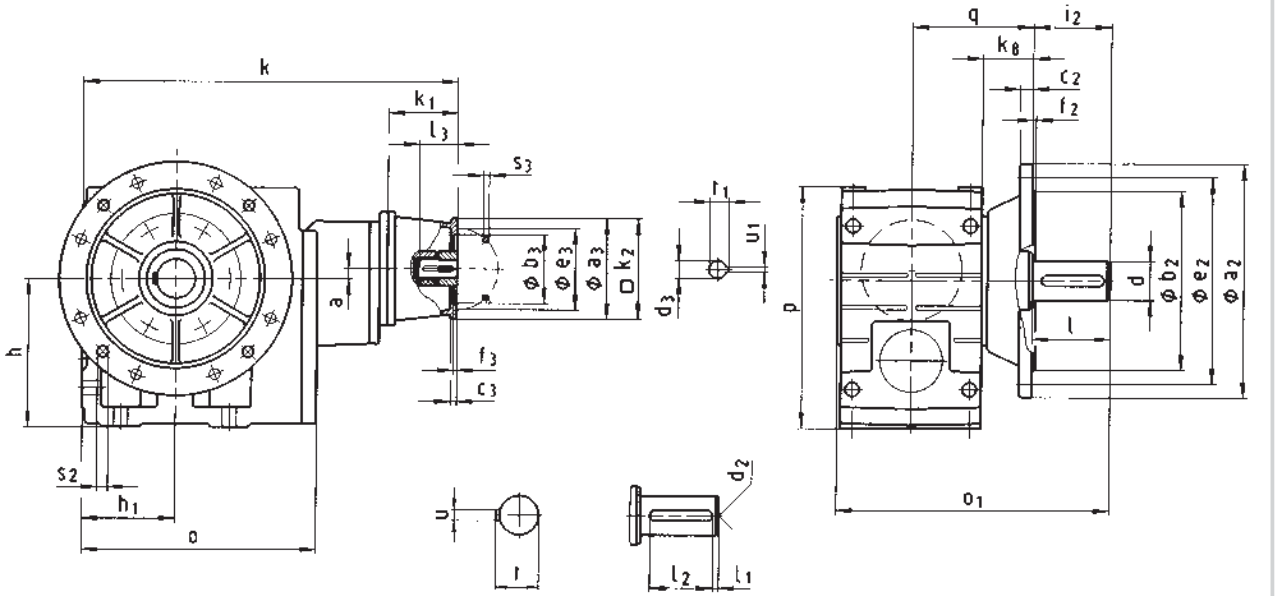
Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	85	240	140	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	170	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

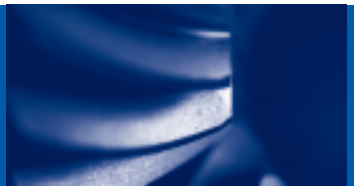
Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2

GKS □□ - 4 N VAK


k
k1
l3
s3
a
h
s2
h1
o
f3
c3
ϕ b3
ϕ e3
ϕ a3
□ k2
r1
u1
d3
u
t
d2
l2
l1
q
i2
k8
c2
f2
p
o1
d
ϕ b2
ϕ e2
ϕ a2
l



Gearbox				Drive size																		
GKS □□ - 4 N VAK corresponds to IEC motor				1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	2H	3H
				63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	180	132
	Housing		k_1	75	77	75	91				115		110			139		180	160	180	218	218	188
			k_2	120	145	120	145				180		180			180		265			300		
	Flange		a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	350	300
		H8	b_3	60	70	60	110	110	70	80	110		110			110		230	180	180	250	250	230
			c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	20	18
			e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	300	265
			f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	6	4.5
		4 x	s_3	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	17.5	13.5
	Required motor shafts		d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	48	38
		min	l_3	23	30	23	25				50	40	30			30		80	60	80	110	110	80
		max		23	30	23	40				50	50	60			60		80	60	80	110	110	80
			u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	14	10
			t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	51.5	41

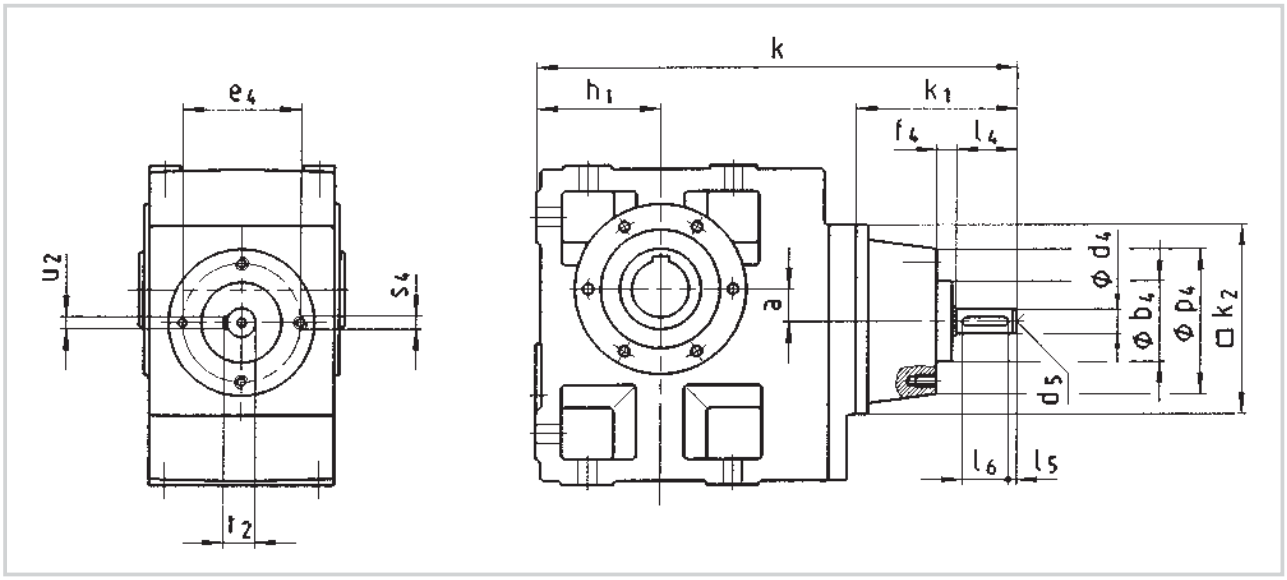
Gearbox size	Gearbox								Total length														
	o	o_1*	p*	h	h_1	a	k_8	q	k														
05	226	230	205	125	80	13	40	103	383	390	383	404		438									
06	288	277	250	150	100	8	49	121	456	463	456	477		511									
07	351	351	310	190	120	11	65	155		530		544		578		573							
09	426	416	386	236	150	15	69	180		619		633		667		662		691					
11	523	505	485	300	185	16	70	205				743		777		772		801	856	836	856		
14	632	604	605	375	230	22	71	235						910		905		934	989	969	989	1032	1032	1002

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 17.5
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 17.5 8 x 17.5
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 17.5

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2

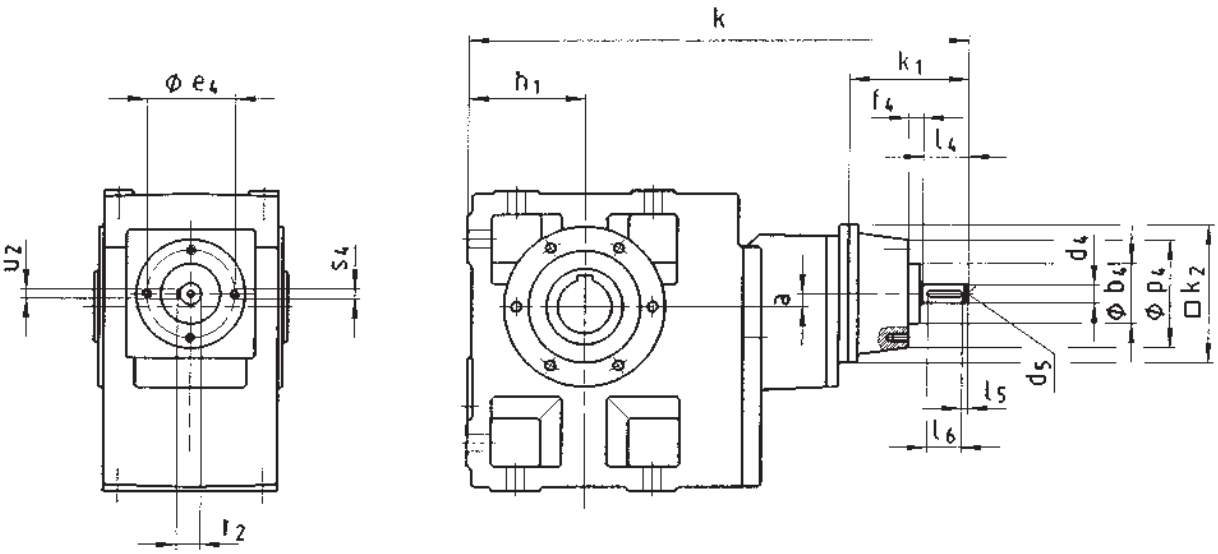


Gearbox GKS □□ - 3 W □□□			Drive size 1A	1B	1C	1D	1E	1F	1G	1H	1K
Housing	k_1		100	100	102	130	160	175	175	182	220
	k_2		115	115	145	145	180	222	222	300	300
Pitch circle with centring	p_4		80	86	90	120	142	178	216	262	262
	b_4	js8	52	52	52	65	78	98	125	155	155
	e_4		67	67	67	90	115	145	175	210	210
	f_4		12	12	12	12	22	23	23	23	32
	s_4	4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36	M20x36
Free input shaft	d_4	k6	14	14	14	19	24	28	38	42	48
	l_4		35	35	40	50	60	80	100	110	110
	l_5		4.5	4.5	4	4	6	7	8	8	8
	l_6		25	25	32	40	45	63	80	90	90
	d_5		M6	M6	M6	M6	M8	M10	M12	M16	M16
	u_2		5	5	5	6	8	8	10	12	14
	t_2		16	16	16	21.5	27	31	41	45	51.5

Gearbox size	Gearbox * h_1	a	Total length k								
04	71	20	287	287	319						
05	80	23		314	339	367					
06	100	28			395	423	463	484			
07	120	34				479	519	540	540		
09	150	41					590	611	611	631	
11	185	54						702	702	722	760
14	230	67							801	821	859

Dimensions in [mm]

* For further dimensions see Dimensions - Helical-bevel geared motors



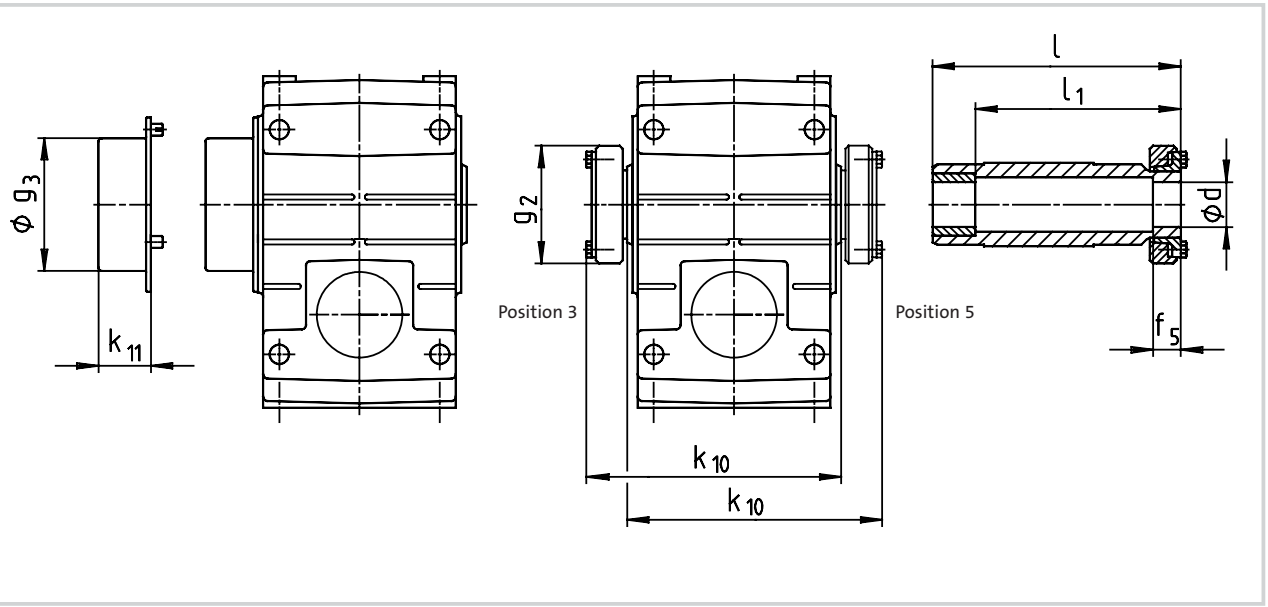
Gearbox GKS □□ - 4 W □□□			Drive size 1A	1B	1C	1D	1E	1F	1G	1H
Housing	k_1		100	100	102	130	160	175	175	182
	k_2		115	115	145	145	180	222	222	300
Pitch circle with centring	p_4		80	86	90	120	142	178	216	262
	b_4	js8	52	52	52	65	78	98	125	155
	e_4		67	67	67	90	115	145	175	210
	f_4		12	12	12	12	22	23	23	23
	s_4	4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36
Input shaft	d_4	k6	14	14	14	19	24	28	38	42
	l_4		35	35	40	50	60	80	100	110
	l_5		4.5	4.5	4	4	6	7	8	8
	l_6		25	25	32	40	45	63	80	90
	d_5		M6	M6	M6	M6	M8	M10	M12	M16
	u_2		5	5	5	6	8	8	10	12
	t_2		16	16	16	21.5	27	31	41	45

Gearbox size	Gearbox * h_1	Gearbox * a	Total length k							
05	80	13	383	383	415					
06	100	8	456	456	488					
07	120	11		530	555	583				
09	150	15			644	672	712	733		
11	185	16				782	822	843	843	
14	230	22					955	976	976	996

Dimensions in [mm]

* For further dimensions see Dimensions - Helical-bevel geared motors

Hollow shaft with shrink disc

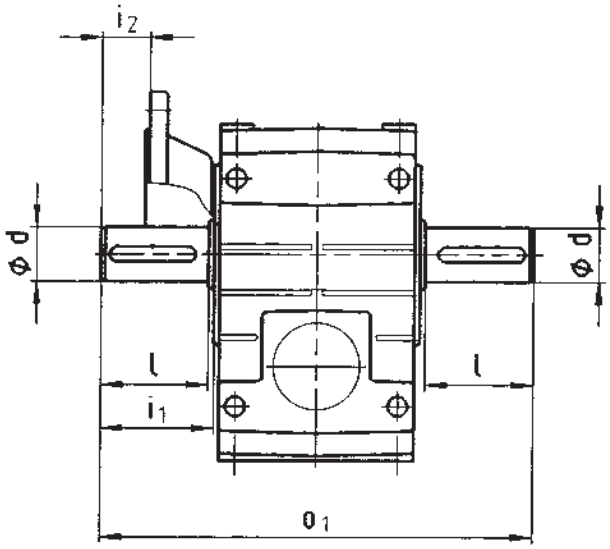


Gearbox size	Machine shaft*		Hollow shaft			Gearbox		Protective cover	
	d	Fit	l	l_1	f_5	g_2	k_{10}	g_3	k_{11}
04	25 30	h6	142	122	26	72	146	79	41
05	35	h6	168	148	28	80	171	90	43
06	40	h6	194	164	30	90	197	100	49
07	50	h6	232	192	26	110	234	124	49
09	65	h6	278	228	30	141	281	159	52
11	80	h6	338	238	42	170	65	344	191
14	100	h6	407	307	55	215	415	253	78

Dimensions in [mm]

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4) the torque values given in the selection tables can be transmitted without restriction. If less rigid materials are being used, please contact us. The average surface roughness R_z should not exceed 15 µm (turning is sufficient).

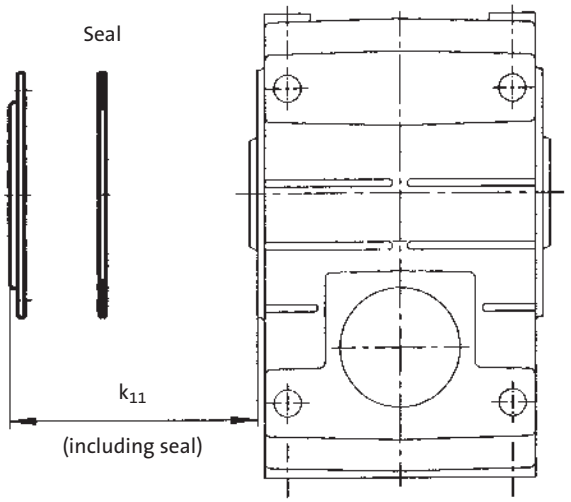
Gearbox with 2nd output shaft



Gearbox size	d	l	i_1	i_2	o_1
04	25	50	52.5	17	215
05	30	60	64	27	260
06	40	80	85	39	320
07	50	100	105	45	400
09	60	120	125	60	480
11	80	160	166	100	610
14	100	200	207	140	750

Dimensions in [mm]

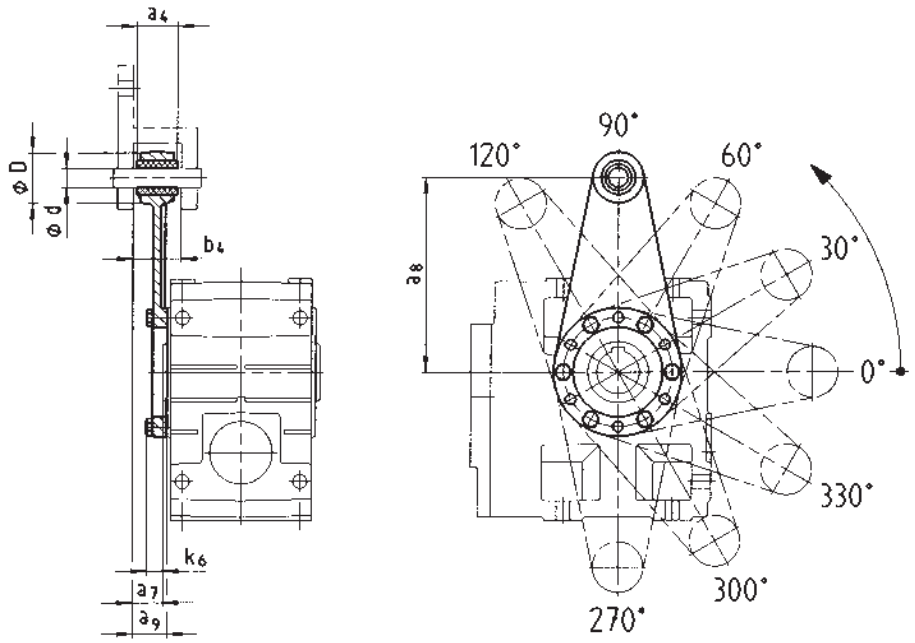
Jet-proof hollow shaft cover



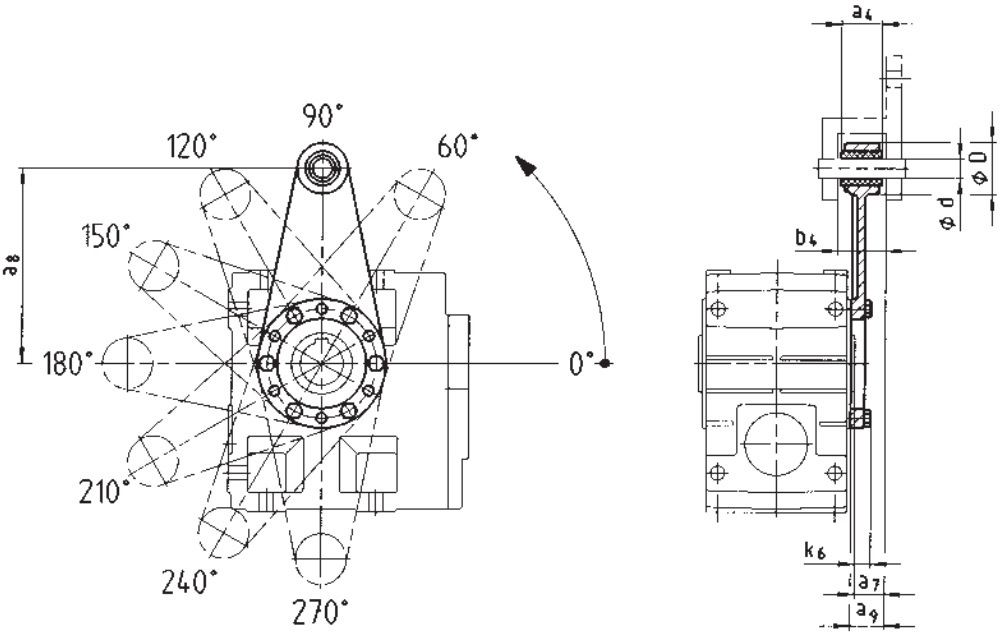
Gearbox size	Protective cover k_{11}
04	9
05	10
06	11
07	11
09	54
11	67
14	80

Dimensions in [mm]

Torque plate at pitch circle, position 3



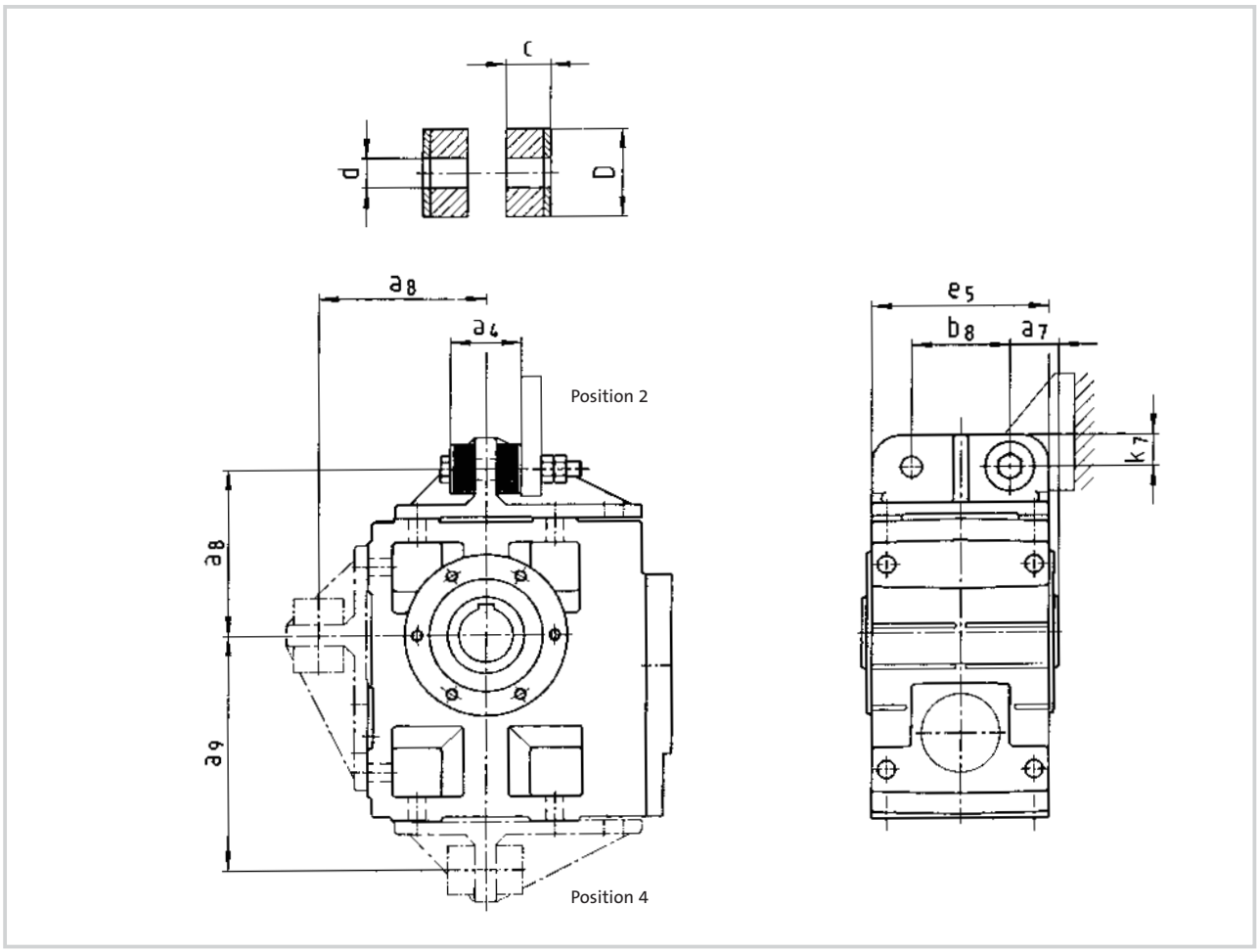
Torque plate at pitch circle, position 5



Gearbox size	Assembly space		Torque plate					
	a_7	b_4	a_4	a_8	a_9	d	D	k_6
04	24	34.5	30	130	26.5	12	35	16
05	23.5	38.5	34	160	27.5	16	45	15
06	28	44.5	40	200	33	20	50	18
07	32.5	50.5	46	250	37.5	25	65	21

Dimensions in [mm]

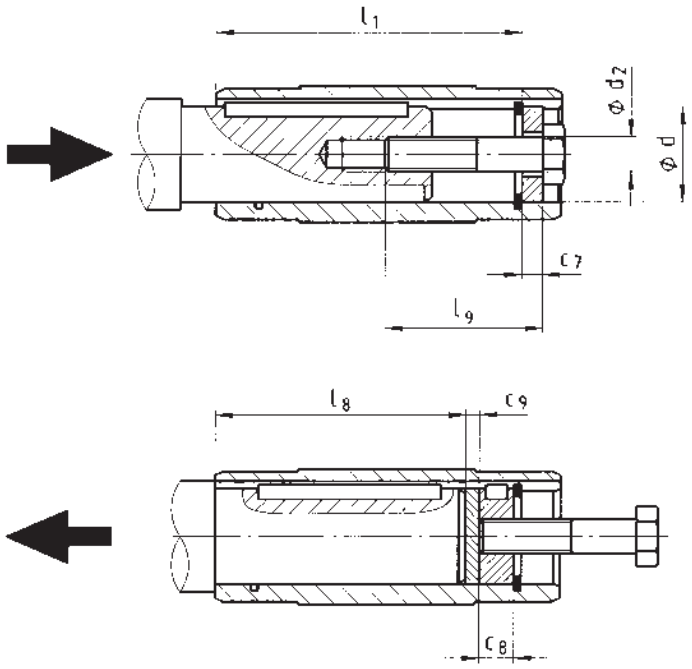
Torque plate at housing foot



Gearbox size	a_4	a_7	a_8	a_9	b_8	c	d	D	e_5	k_7
04	41	27.5	106	135	60	14.5	11	30	100	20
05	45	35	115	160	70	15	13	40	127	25
06	72	40	145	195	80	27	17	50	145	28
07	78	50	170	240	100	28	21	60	180	35
09	86	60	214	300	120	29	26	72	222	46
11	94	72.5	260	375	145	30	33	92	270	55
14	100	85	320	465	180	30	39	110	328	70

Dimensions in [mm]

Assembly kit for hollow shaft retention / Proposal for auxiliary tool



Helical-bevel gearboxes GKS □□

Gearbox size	Hollow shaft (design **H**)			Assembly kit for hollow shaft circlip (auxiliary tool assembly)			Auxiliary tool disassembly		Machine shaft
	l	**l_1**	**d** H7	**d_2**	**l_9**	**c_7**	**c_8**	**c_9**	**max l_8**
04	115	100	25 30	M10 M10	40	5 6	10	3	85
05	140	124	30 35	M10 M12	40 50	6 7	10 12	3	107
06	160	140	40 45	M16	60	8 9	16	4	118
07	200	175	50 55	M16 M20	60 80	10 11	16 20	5	148
09	240	210	60 70	M20	80	13 14	20	5	182
11	290	250	70 80	M20	80	14 16	20	6	221
14	350	305	100	M24	100	20	24	8	270

Dimensions in [mm]

Helical-worm gearboxes G-motion const

Technical data

Selection tables

Dimensions

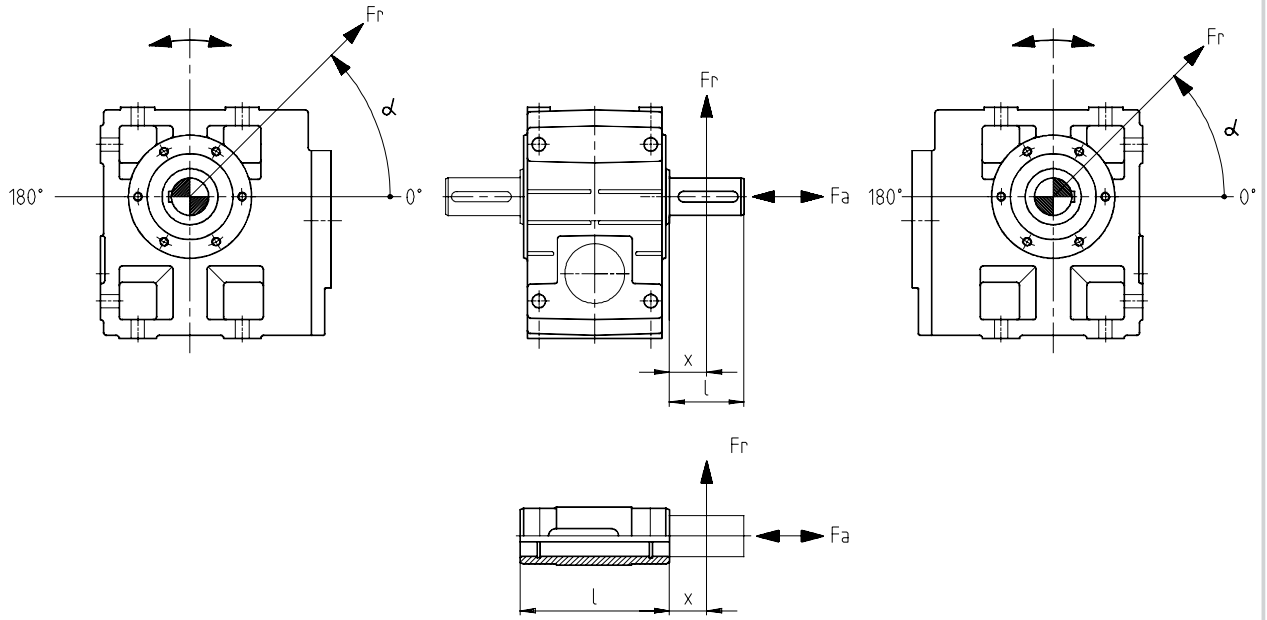
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

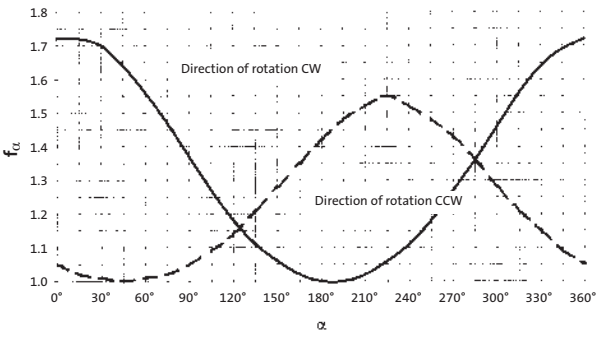
Permissible axial force

$F_{a_{perm}} = F_{a_{Tab}}$ at $F_r = 0$

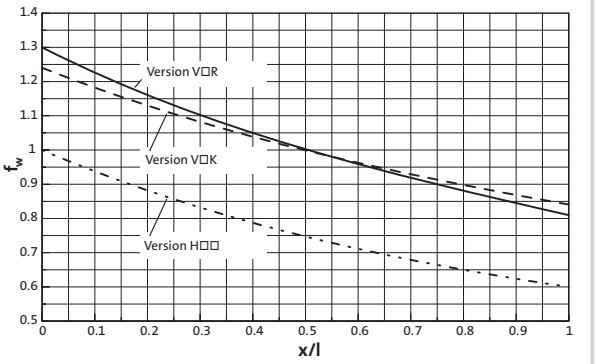
Contact Lenze if F_r **and** $F_a \neq 0$



f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft



VAK

Solid shaft with flange
Application of force F_r: Centre of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GSS 04		GSS 05		GSS 06		GSS 07	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
250	4100	3500	4900	2500	7000	2800	7900	2400
160	4400	4000	4900	3100	8100	3500	9100	3200
100	4700	4200	4900	4000	9400	4500	10600	4300
63	4700	4200	4900	4900	9400	5700	12400	5900
40	4700	4200	4900	5500	9400	7300	14000	8000
25	4700	4200	4900	5500	9400	8800	14000	10000
≤ 16	4700	4200	4900	5500	9400	8800	14000	10000
$F_{r\,max}$	4700	–	4900	–	9400	–	14000	–

VDR

Solid shaft without flange
Application of force F_r: Centre of of shaft journal (x = l/2)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GSS 04		GSS 05		GSS 06		GSS 07	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
250	3000	3700	2900	2800	3600	3200	4200	3100
160	3500	4200	3400	3500	4200	4100	5100	4100
100	4100	4900	4000	4400	5000	5200	6300	5500
63	4200	5500	4300	5500	5900	6500	7700	7200
40	4200	5500	4300	6000	6900	8200	9300	9500
25	4200	5500	4300	6000	8200	9000	11300	12500
≤ 16	4200	5500	4300	6000	8500	9000	12000	12500
$F_{r\,max}$	4200	–	4300	–	8500	–	12000	–

HDD

Hollow shaft
Application of force F_r: At hollow shaft end face (x = 0)
F_{aTab} only valid for $F_r = 0$

n_2 [min^{-1}]	GSS 04		GSS 05		GSS 06		GSS 07	
	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
250	3800	3700	3600	2800	4800	3200	5600	3100
160	4500	4200	4300	3500	5600	4100	6700	4100
100	5300	4900	5100	4400	6600	5200	8200	5500
63	6000	5500	6000	5500	7700	6500	10000	7200
40	6000	5500	7000	6000	9100	8200	12100	9500
25	6000	5500	7500	6000	10700	9000	14800	12500
≤ 16	6000	5500	7500	6000	11500	9000	16000	12500
$F_{r\,max}$	6000	–	7500	–	11500	–	16000	–

Neither radial nor axial forces are permitted on hollow shafts with shrink discs (SDD).

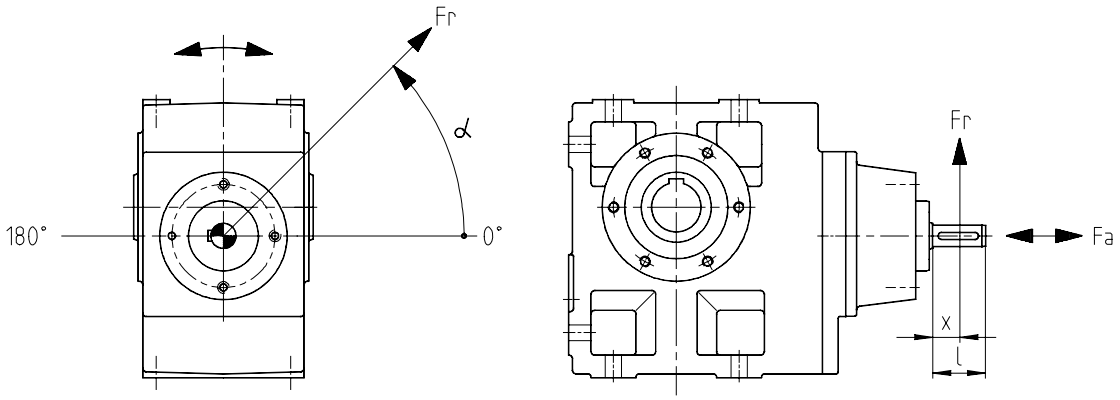
Permissible radial force

$F_{r_{perm}} = f_w \cdot f_\alpha \cdot F_{r_{Tab}} \leq f_w \cdot F_{r_{max}}$

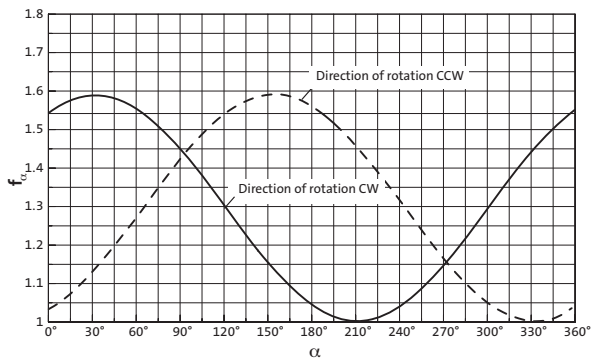
Permissible axial force

$F_{a_{perm}} = F_{a_{Tab}}$ at $F_r = 0$

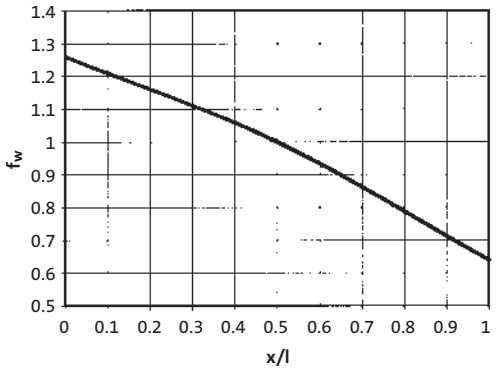
Contact Lenze if F_r **and** $F_a \neq 0$



f_α Effective direction factor at input shaft



f_W Additional load factor at input shaft



W	Application of force F_r: Centre of shaft journal (x = l/2) F_{aTab} only valid for F_r = 0											
	Drive size											
	1A 1B		1C		1D		1E		1F		1G	
n_1 [min^{-1}]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]	F_{rTab} [N]	F_{aTab} [N]
700	830	1200	1150	1400	1470	1500	2140	1600	3200	2800	4000	4500
1400	570	770	780	900	1000	740	1400	800	2200	1700	3200	2000
2800	440	530	590	620	770	470	940	460	1700	1100	2300	1600
$F_{r\,max}$	1850	–	1650	–	3000	–	4900	–	5600	–	8000	–

During start-up, the start-up efficiency η_A of a helical-worm gearbox is lower than its operative efficiency η at rated speed.

The start-up efficiency η_A must therefore always be considered when starting under load.

The start-up efficiency is determined by the oil temperature and the degree to which the tooth faces have been run-in.

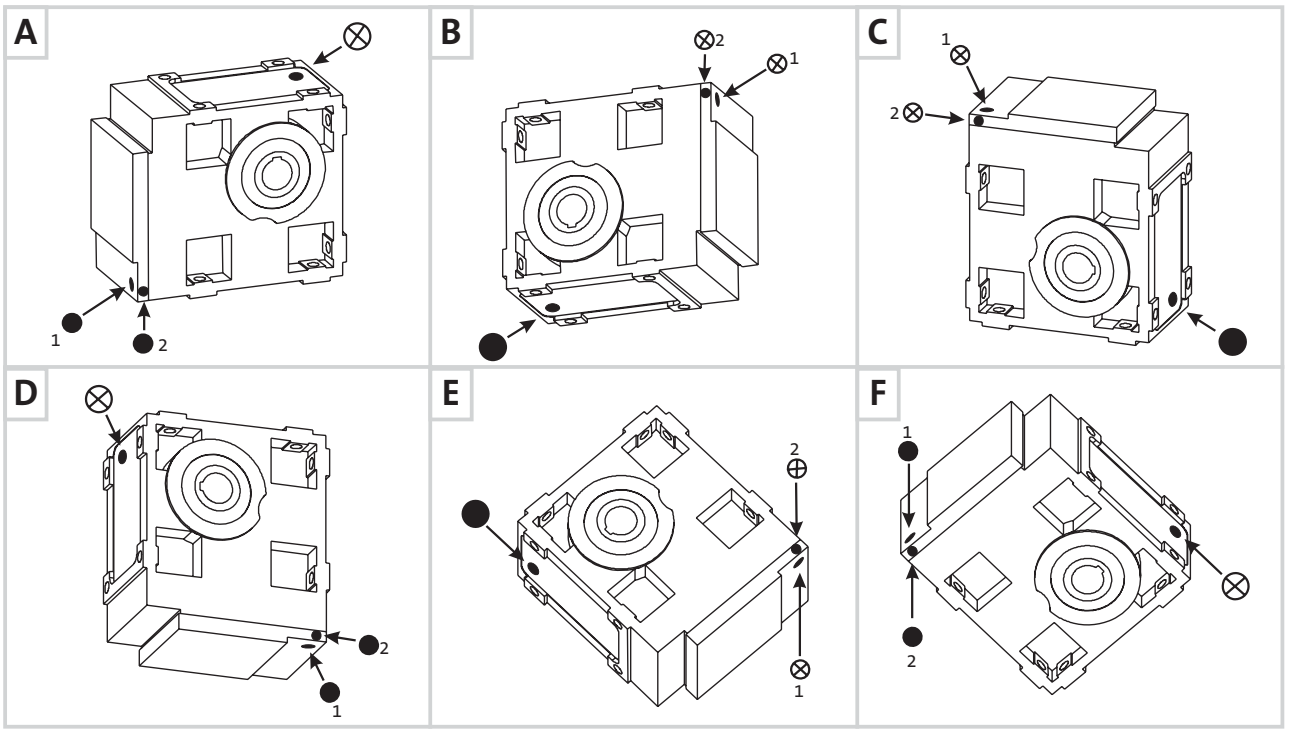
The values given in the tables are theoretical values and are valid with a tolerance of ± 10%.

Ratio i_{rated}	Start-up efficiency η_A
5.6	0.71
8	0.71
9	0.67
10	0.71
11.2	0.71
12.5	0.67
14	0.71
16	0.67
18	0.67
20	0.55
22.4	0.67
25	0.55
28	0.67
31.5	0.55
35.5	0.67

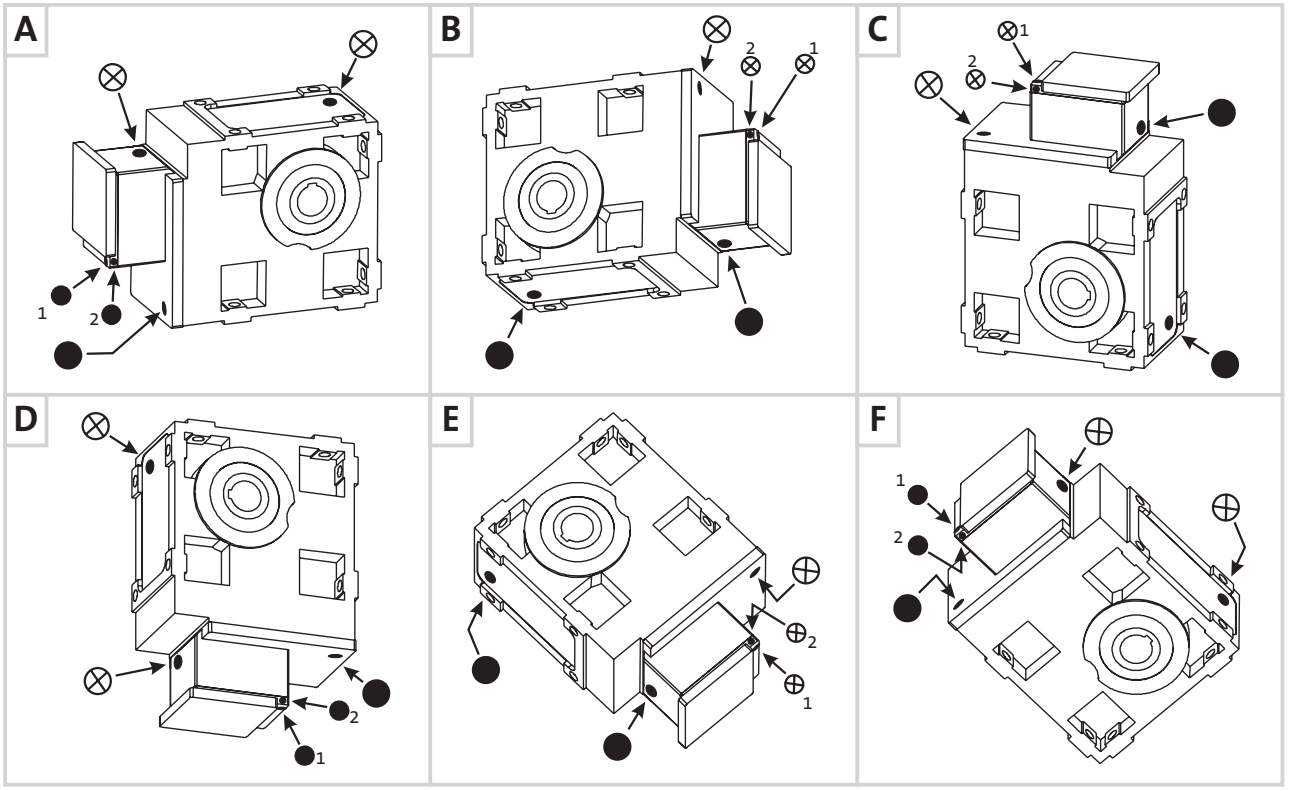
Ratio i_{rated}	Start-up efficiency η_A
40	0.55
45	0.67
50	0.55
56	0.55
63	0.55
71	0.55
80	0.55
90	0.55
100	0.55
112	0.55
125	0.55
140	0.55
160	0.55
180	0.55
200	0.55

Position of ventilation, oil filler plug and oil drain plug

Helical-worm gearboxes GSS 05 ... 07-2



Helical worm gearboxes GSS 05 ... 07-3



(**A ... F**) Mounting position

⊗ Ventilation/oil filler plug
● Oil drain plug

Pos. 1 or **2** depending on version
(see table on page 7-7)

On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.

On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

Helical-worm gearboxes

GSS	05	-2	M	□□□	090 100
			N	□□□	1D/2D 1E/2E/3E
	06	-2	M	□□□	112
			W	□□□	1F
	07	-2	M	□□□	160
			N	□□□	1H/3H
		-3	M	□□□	090 100
			N	□□□	1D/2D 1E/2E/3E

Helical-worm gearboxes GSS □□-2

Gearbox size	Geared motors GSS□□-2M **H□R** with motor frame size									
	063	071	080	090	100	112 C22/-31	112 C32/-41	132	160 -22	160 -32
04	16	18	23	30						
05	25	28	32	39	46					
06	38	40	44	52	59	71	77			
07			69	77	84	96	102	129	168	188

Gearbox size	Gearbox with mounting flange for IEC motors GSS□□-2N **H□R** with drive size										Gearbox with free input shaft GSS□□-2W **H□R** with drive size						
	1A	□B	□C	□D	□E	□F	1G 3G	2G	1H	3H	1A	1B	1C	1D	1E	1F	1G
04	15	15	18	21							13	14	16				
05		25	28	30	33							23	25	27			
06		37	40	43	45	47							37	39	43	51	
07			65	68	70	72	95	92	103	99				64	67	76	81

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Observe extra weights on page 7-9!

Helical-worm gearboxes GSS □□-3

Gearbox size	Geared motors GSS□□-3M **H□R** with motor frame size				
	063	071	080	090	100
05	26	29	34	40	
06	41	44	49	55	
07	71	73	77	84	91

Gearbox size	Gearbox with mounting flange for IEC motors GSS□□-3N **H□R** with drive size					Gearbox with free input shaft GSS□□-3W **H□R** with drive size			
	1A	□B	□C	□D	□E	1A	1B	1C	1D
05	25	26	29			23	24	26	
06	40	41	44	46		39	39	41	
07		70	73	75	78		68	70	72

Extra weights

Gearbox size	Solid shaft **V□□**	2nd output shaft end **V□□**	Hollow shaft with shrink disk **S□□**	Flange **□□K**	Torque plate Housing foot	Torque plate Pitch circle
04	0.6	0.2	0.6	2.5	1.3	0.9
05	1	0.3	0.8	4	2.2	1.3
06	2.5	0.8	1	7	3.7	2.1
07	5	1.5	1.5	11	6.6	3.7

Weights in [kg] with oil capacity for mounting position A. All data is approximate

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.12 kW					**GSS □□ - 2M**	**7-63**
n1=1425	132	8	5.4	10.827	GSS04 - 2M□□□ 063C12	
	103	10	5.0	13.810	GSS04 - 2M□□□ 063C12	
	82	12	5.4	17.360	GSS04 - 2M□□□ 063C12	
	64	15	5.0	22.143	GSS04 - 2M□□□ 063C12	
	42	22	5.5	34.100	GSS04 - 2M□□□ 063C12	
	36	23	5.4	39.200	GSS04 - 2M□□□ 063C12	
	32	29	4.6	43.917	GSS04 - 2M□□□ 063C12	
	29	29	5.0	50.000	GSS04 - 2M□□□ 063C12	
	21	41	4.2	68.200	GSS04 - 2M□□□ 063C12	
	19	45	3.9	77.000	GSS04 - 2M□□□ 063C12	
	16	52	3.3	87.833	GSS04 - 2M□□□ 063C12	
	14	57	3.1	99.167	GSS04 - 2M□□□ 063C12	
	13	66	2.7	111.318	GSS04 - 2M□□□ 063C12	
	11	72	2.5	125.682	GSS04 - 2M□□□ 063C12	
	10	82	2.2	139.500	GSS04 - 2M□□□ 063C12	
	9.1	89	2.0	157.500	GSS04 - 2M□□□ 063C12	
	7.8	106	1.7	183.786	GSS04 - 2M□□□ 063C12	
	6.9	116	1.5	207.500	GSS04 - 2M□□□ 063C12	
					GSS □□ - 3M	**7-71**
	6.4	131	2.7	222.133	GSS05 - 3M□□□ 063C12	
	5.7	148	2.4	250.952	GSS05 - 3M□□□ 063C12	
	5.0	163	2.2	283.333	GSS05 - 3M□□□ 063C12	
	4.6	169	4.1	310.689	GSS06 - 3M□□□ 063C12	
	4.1	187	3.7	350.778	GSS06 - 3M□□□ 063C12	
	3.7	218	1.6	386.467	GSS05 - 3M□□□ 063C12	
	3.3	239	1.5	436.333	GSS05 - 3M□□□ 063C12	
	3.3	230	3.0	436.333	GSS06 - 3M□□□ 063C12	
	2.9	272	1.3	497.722	GSS05 - 3M□□□ 063C12	
	2.9	263	2.7	497.722	GSS06 - 3M□□□ 063C12	
	2.5	298	1.2	561.944	GSS05 - 3M□□□ 063C12	
	2.5	290	2.4	561.944	GSS06 - 3M□□□ 063C12	
	2.3	335	1.1	630.803	GSS05 - 3M□□□ 063C12	
	2.3	327	2.2	630.803	GSS06 - 3M□□□ 063C12	
	2.0	367	1.0	712.197	GSS05 - 3M□□□ 063C12	
	2.0	361	2.0	712.197	GSS06 - 3M□□□ 063C12	
	1.8	407	0.9	790.500	GSS05 - 3M□□□ 063C12	
	1.8	415	1.7	816.333	GSS06 - 3M□□□ 063C12	
	1.6	445	0.8	892.500	GSS05 - 3M□□□ 063C12	
	1.6	459	1.6	921.667	GSS06 - 3M□□□ 063C12	
	1.4	512	1.4	1023.000	GSS06 - 3M□□□ 063C12	
	1.2	567	1.3	1155.000	GSS06 - 3M□□□ 063C12	
	1.2	614	1.2	1241.550	GSS06 - 3M□□□ 063C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.12 kW					**GSS □□ - 3M**	**7-71**
n1=1425	1.0	681	1.1	1401.750	GSS06 - 3M□□□ 063C12	
	0.9	797	0.9	1635.693	GSS06 - 3M□□□ 063C12	
	0.8	886	0.8	1846.750	GSS06 - 3M□□□ 063C12	
0.18 kW					**GSS □□ - 2M**	**7-63**
n1=2760	63	22	5.9	43.917	GSS04 - 2M□□□ 063-11	
	41	32	5.3	68.200	GSS04 - 2M□□□ 063-11	
	36	36	4.8	77.000	GSS04 - 2M□□□ 063-11	
	31	42	4.1	87.833	GSS04 - 2M□□□ 063-11	
	28	46	3.8	99.167	GSS04 - 2M□□□ 063-11	
	25	53	3.3	111.318	GSS04 - 2M□□□ 063-11	
	22	58	3.0	125.682	GSS04 - 2M□□□ 063-11	
	20	66	2.7	139.500	GSS04 - 2M□□□ 063-11	
	18	72	2.4	157.500	GSS04 - 2M□□□ 063-11	
	15	86	2.1	183.786	GSS04 - 2M□□□ 063-11	
	13	94	1.9	207.500	GSS04 - 2M□□□ 063-11	
n1=1365	126	12	3.4	10.827	GSS04 - 2M□□□ 063C32	
	99	16	3.2	13.810	GSS04 - 2M□□□ 063C32	
	79	19	3.4	17.360	GSS04 - 2M□□□ 063C32	
	62	24	3.2	22.143	GSS04 - 2M□□□ 063C32	
	40	36	3.5	34.100	GSS04 - 2M□□□ 063C32	
	35	37	3.4	39.200	GSS04 - 2M□□□ 063C32	
	31	46	2.9	43.917	GSS04 - 2M□□□ 063C32	
	27	47	3.2	50.000	GSS04 - 2M□□□ 063C32	
	20	65	2.7	68.200	GSS04 - 2M□□□ 063C32	
	18	72	2.5	77.000	GSS04 - 2M□□□ 063C32	
	16	83	2.1	87.833	GSS04 - 2M□□□ 063C32	
	14	91	2.0	99.167	GSS04 - 2M□□□ 063C32	
	12	104	1.7	111.318	GSS04 - 2M□□□ 063C32	
	11	114	1.6	125.682	GSS04 - 2M□□□ 063C32	
	9.8	129	1.4	139.500	GSS04 - 2M□□□ 063C32	
	8.7	141	1.3	157.500	GSS04 - 2M□□□ 063C32	
	7.4	168	1.1	183.786	GSS04 - 2M□□□ 063C32	
	6.6	183	1.0	207.500	GSS04 - 2M□□□ 063C32	
n1=870	6.2 6.3	197 209	0.9 1.7	139.500 137.950	GSS04 - 2M□□□ 071-13 GSS05 - 2M□□□ 071-13	
	5.5 5.6 5.6	214 230 223	0.8 1.6 3.1	157.500 155.750 155.750	GSS04 - 2M□□□ 071-13 GSS05 - 2M□□□ 071-13 GSS06 - 2M□□□ 071-13	
	4.9 5.0	260 252	1.4 2.8	176.313 174.375	GSS05 - 2M□□□ 071-13 GSS06 - 2M□□□ 071-13	
	4.4 4.4	286 279	1.3 2.5	199.063 196.875	GSS05 - 2M□□□ 071-13 GSS06 - 2M□□□ 071-13	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.18 kW					**GSS □□ - 3M**	**7-71**
n1=1365	6.1	208	1.7	222.133	GSS05 - 3M□□□ 063C32	
	5.4	235	1.5	250.952	GSS05 - 3M□□□ 063C32	
	4.8	258	1.4	283.333	GSS05 - 3M□□□ 063C32	
	5.1	233	3.0	269.500	GSS06 - 3M□□□ 063C32	
	4.4	270	2.6	310.689	GSS06 - 3M□□□ 063C32	
	3.9	299	2.4	350.778	GSS06 - 3M□□□ 063C32	
	3.5	344	1.0	386.467	GSS05 - 3M□□□ 063C32	
	3.5	331	2.1	386.467	GSS06 - 3M□□□ 063C32	
	3.1	377	1.0	436.333	GSS05 - 3M□□□ 063C32	
	3.1	365	1.9	436.333	GSS06 - 3M□□□ 063C32	
	2.7	429	0.8	497.722	GSS05 - 3M□□□ 063C32	
	2.7	417	1.7	497.722	GSS06 - 3M□□□ 063C32	
	2.4	460	1.6	561.944	GSS06 - 3M□□□ 063C32	
	2.2	518	1.4	630.803	GSS06 - 3M□□□ 063C32	
	1.9	572	1.3	712.197	GSS06 - 3M□□□ 063C32	
	1.7	656	1.1	816.333	GSS06 - 3M□□□ 063C32	
	1.5	725	1.0	921.667	GSS06 - 3M□□□ 063C32	
	1.3	808	0.9	1023.000	GSS06 - 3M□□□ 063C32	
	1.2	895	0.8	1155.000	GSS06 - 3M□□□ 063C32	
n1=870	1.0	1070	1.2	833.556	GSS07 - 3M□□□ 071-13	
	0.9	1184	1.1	941.111	GSS07 - 3M□□□ 071-13	
	0.9	1284	1.0	1011.633	GSS07 - 3M□□□ 071-13	
	0.8	1420	0.9	1142.167	GSS07 - 3M□□□ 071-13	
	0.7	1542	0.8	1227.755	GSS07 - 3M□□□ 071-13	
0.25 kW					**GSS □□ - 2M**	**7-63**
n1=2760	255	8	5.0	10.827	GSS04 - 2M□□□ 063-31	
	200	10	4.7	13.810	GSS04 - 2M□□□ 063-31	
	159	13	5.0	17.360	GSS04 - 2M□□□ 063-31	
	125	16	4.7	22.143	GSS04 - 2M□□□ 063-31	
	81	25	5.1	34.100	GSS04 - 2M□□□ 063-31	
	70	26	5.0	39.200	GSS04 - 2M□□□ 063-31	
	63	32	4.3	43.917	GSS04 - 2M□□□ 063-31	
	55	33	4.7	50.000	GSS04 - 2M□□□ 063-31	
	41	46	3.8	68.200	GSS04 - 2M□□□ 063-31	
	36	50	3.5	77.000	GSS04 - 2M□□□ 063-31	
	31	59	3.0	87.833	GSS04 - 2M□□□ 063-31	
	28	65	2.7	99.167	GSS04 - 2M□□□ 063-31	
	25	74	2.4	111.318	GSS04 - 2M□□□ 063-31	
	22	82	2.2	125.682	GSS04 - 2M□□□ 063-31	
	20	92	1.9	139.500	GSS04 - 2M□□□ 063-31	
	18	101	1.8	157.500	GSS04 - 2M□□□ 063-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.25 kW					**GSS □□ - 2M**	**7-63**
n1=2760	15	120	1.5	183.786	GSS04 - 2M□□□ 063-31	
	13	132	1.4	207.500	GSS04 - 2M□□□ 063-31	
n1=1370	243	9	4.5	5.639	GSS04 - 2M□□□ 063C42	
	177	12	4.5	7.733	GSS04 - 2M□□□ 063C42	
	152	13	4.5	9.042	GSS04 - 2M□□□ 063C42	
	138	15	5.2	9.897	GSS04 - 2M□□□ 063C42	
	127	17	4.5	10.827	GSS05 - 2M□□□ 063C42	
	111	18	4.5	12.400	GSS04 - 2M□□□ 063C42	
	99	21	4.8	13.810	GSS04 - 2M□□□ 063C42	
	86	23	5.2	15.869	GSS04 - 2M□□□ 063C42	
	79	26	4.5	17.360	GSS05 - 2M□□□ 063C42	
	67	27	4.5	20.417	GSS04 - 2M□□□ 063C42	
	62	32	4.8	22.143	GSS04 - 2M□□□ 063C42	
	55	34	4.5	24.800	GSS04 - 2M□□□ 063C42	
	51	39	4.3	27.125	GSS04 - 2M□□□ 063C42	
	43	43	4.1	31.738	GSS04 - 2M□□□ 063C42	
	40	50	3.5	34.100	GSS04 - 2M□□□ 063C42	
	35	52	3.4	39.200	GSS04 - 2M□□□ 063C42	
	31	64	2.8	43.917	GSS04 - 2M□□□ 063C42	
	27	66	2.7	50.000	GSS04 - 2M□□□ 063C42	
	25	73	2.4	54.250	GSS04 - 2M□□□ 063C42	
	22	80	2.2	61.250	GSS04 - 2M□□□ 063C42	
	20	91	2.0	68.200	GSS04 - 2M□□□ 063C42	
	18	100	1.8	77.000	GSS04 - 2M□□□ 063C42	
	17	110	3.2	79.722	GSS05 - 2M□□□ 063C42	
	16	116	1.5	87.833	GSS04 - 2M□□□ 063C42	
	16	122	2.9	87.833	GSS05 - 2M□□□ 063C42	
	14	127	1.4	99.167	GSS04 - 2M□□□ 063C42	
	14	136	2.6	99.167	GSS05 - 2M□□□ 063C42	
	12	145	1.2	111.318	GSS04 - 2M□□□ 063C42	
	12	158	2.2	113.667	GSS05 - 2M□□□ 063C42	
	11	159	1.1	125.682	GSS04 - 2M□□□ 063C42	
	11	174	2.0	128.333	GSS05 - 2M□□□ 063C42	
	9.8	180	1.0	139.500	GSS04 - 2M□□□ 063C42	
	9.9	190	1.9	137.950	GSS05 - 2M□□□ 063C42	
	9.9	182	3.2	137.950	GSS06 - 2M□□□ 063C42	
	8.7	196	0.9	157.500	GSS04 - 2M□□□ 063C42	
	8.8	210	1.7	155.750	GSS05 - 2M□□□ 063C42	
	8.8	202	3.2	155.750	GSS06 - 2M□□□ 063C42	
	7.8	240	1.4	176.313	GSS05 - 2M□□□ 063C42	
	7.9	228	2.6	174.375	GSS06 - 2M□□□ 063C42	
	6.9	265	1.4	199.063	GSS05 - 2M□□□ 063C42	
	7.0	254	2.6	196.875	GSS06 - 2M□□□ 063C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical-worm geared motor	Dimensions Page
0.25 kW					**GSS □□ - 2M**	7-63
n1=920	6.7	276	1.3	137.950	GSS05 - 2M□□□ 071-33	
	6.7	266	2.6	137.950	GSS06 - 2M□□□ 071-33	
	5.9	304	1.2	155.750	GSS05 - 2M□□□ 071-33	
	5.9	296	2.4	155.750	GSS06 - 2M□□□ 071-33	
	5.2	343	1.0	176.313	GSS05 - 2M□□□ 071-33	
	5.3	334	2.1	174.375	GSS06 - 2M□□□ 071-33	
	4.6	377	1.0	199.063	GSS05 - 2M□□□ 071-33	
	4.7	370	1.9	196.875	GSS06 - 2M□□□ 071-33	
					GSS □□ - 3M	7-71
n1=1370	6.2	289	1.2	222.133	GSS05 - 3M□□□ 063C42	
	6.2	269	2.6	220.000	GSS06 - 3M□□□ 063C42	
	5.5	326	1.1	250.952	GSS05 - 3M□□□ 063C42	
	5.7	294	2.4	238.700	GSS06 - 3M□□□ 063C42	
	4.8	359	1.0	283.333	GSS05 - 3M□□□ 063C42	
	5.1	327	2.2	269.500	GSS06 - 3M□□□ 063C42	
	4.5	390	0.9	307.417	GSS05 - 3M□□□ 063C42	
	4.4	378	1.9	310.689	GSS06 - 3M□□□ 063C42	
	4.3	402	3.0	321.673	GSS07 - 3M□□□ 063C42	
	4.0	429	0.8	347.083	GSS05 - 3M□□□ 063C42	
	3.9	418	1.7	350.778	GSS06 - 3M□□□ 063C42	
	3.8	447	2.7	363.179	GSS07 - 3M□□□ 063C42	
	3.5	462	1.5	386.467	GSS06 - 3M□□□ 063C42	
	3.5	488	2.5	394.245	GSS07 - 3M□□□ 063C42	
	3.1	510	1.4	436.333	GSS06 - 3M□□□ 063C42	
	3.1	542	2.3	445.116	GSS07 - 3M□□□ 063C42	
	2.8	582	1.2	497.722	GSS06 - 3M□□□ 063C42	
	2.8	599	2.1	490.403	GSS07 - 3M□□□ 063C42	
	2.4	641	1.1	561.944	GSS06 - 3M□□□ 063C42	
	2.5	664	1.9	553.681	GSS07 - 3M□□□ 063C42	
	2.2	721	1.0	630.803	GSS06 - 3M□□□ 063C42	
	2.2	760	1.6	634.639	GSS07 - 3M□□□ 063C42	
	1.9	796	0.9	712.197	GSS06 - 3M□□□ 063C42	
	1.9	842	1.5	716.528	GSS07 - 3M□□□ 063C42	
	1.6	977	1.3	833.556	GSS07 - 3M□□□ 063C42	
	1.5	1081	1.2	941.111	GSS07 - 3M□□□ 063C42	
	1.4	1168	1.1	1011.633	GSS07 - 3M□□□ 063C42	
	1.2	1292	1.0	1142.167	GSS07 - 3M□□□ 063C42	
	1.1	1399	0.9	1227.755	GSS07 - 3M□□□ 063C42	
	1.0	1546	0.8	1386.175	GSS07 - 3M□□□ 063C42	
0.37 kW					**GSS □□ - 2M**	7-63
n1=2840	139	19	5.8	20.417	GSS04 - 2M□□□ 071-11	
	115	24	5.3	24.800	GSS04 - 2M□□□ 071-11	
	105	28	5.8	27.125	GSS04 - 2M□□□ 071-11	
	90	31	4.5	31.738	GSS04 - 2M□□□ 071-11	
	83	36	4.8	34.100	GSS04 - 2M□□□ 071-11	
	72	38	3.9	39.200	GSS04 - 2M□□□ 071-11	
	65	46	3.8	43.917	GSS04 - 2M□□□ 071-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GSS □□ - 2M**	**7-63**
n1=2840	57	48	3.3	50.000	GSS04 - 2M□□□ 071-11	
	52	53	3.2	54.250	GSS04 - 2M□□□ 071-11	
	46	59	2.9	61.250	GSS04 - 2M□□□ 071-11	
	42	67	2.7	68.200	GSS04 - 2M□□□ 071-11	
	37	74	2.4	77.000	GSS04 - 2M□□□ 071-11	
	32	86	2.1	87.833	GSS04 - 2M□□□ 071-11	
	29	94	1.9	99.167	GSS04 - 2M□□□ 071-11	
	26 25	108 114	1.7 3.1	111.318 113.667	GSS04 - 2M□□□ 071-11 GSS05 - 2M□□□ 071-11	
	23 22	118 127	1.5 2.8	125.682 128.333	GSS04 - 2M□□□ 071-11 GSS05 - 2M□□□ 071-11	
	20 21	134 139	1.3 2.6	139.500 137.950	GSS04 - 2M□□□ 071-11 GSS05 - 2M□□□ 071-11	
	18 18	147 155	1.2 2.3	157.500 155.750	GSS04 - 2M□□□ 071-11 GSS05 - 2M□□□ 071-11	
	16	177	2.0	176.313	GSS05 - 2M□□□ 071-11	
	14	197	1.8	199.063	GSS05 - 2M□□□ 071-11	
n1=1410	250	12	4.0	5.639	GSS04 - 2M□□□ 071C32	
	182	17	4.0	7.733	GSS04 - 2M□□□ 071C32	
	156	19	4.0	9.042	GSS04 - 2M□□□ 071C32	
	143	22	4.5	9.897	GSS04 - 2M□□□ 071C32	
	130	24	4.0	10.827	GSS05 - 2M□□□ 071C32	
	114	26	4.0	12.400	GSS04 - 2M□□□ 071C32	
	102	31	4.2	13.810	GSS04 - 2M□□□ 071C32	
	89	34	4.5	15.869	GSS04 - 2M□□□ 071C32	
	81	37	4.0	17.360	GSS05 - 2M□□□ 071C32	
	69	39	3.8	20.417	GSS04 - 2M□□□ 071C32	
	64	47	3.7	22.143	GSS04 - 2M□□□ 071C32	
	57	49	3.4	24.800	GSS04 - 2M□□□ 071C32	
	52	57	3.1	27.125	GSS04 - 2M□□□ 071C32	
	44	62	2.8	31.738	GSS04 - 2M□□□ 071C32	
	41	72	2.5	34.100	GSS04 - 2M□□□ 071C32	
	36	75	2.3	39.200	GSS04 - 2M□□□ 071C32	
	32 32	93 95	1.9 3.2	43.917 43.917	GSS04 - 2M□□□ 071C32 GSS05 - 2M□□□ 071C32	
	28	96	1.9	50.000	GSS04 - 2M□□□ 071C32	
	26	106	1.7	54.250	GSS04 - 2M□□□ 071C32	
	23	116	1.5	61.250	GSS04 - 2M□□□ 071C32	
	21 20	132 143	1.4 2.5	68.200 70.611	GSS04 - 2M□□□ 071C32 GSS05 - 2M□□□ 071C32	
	18 18	145 159	1.2 2.2	77.000 79.722	GSS04 - 2M□□□ 071C32 GSS05 - 2M□□□ 071C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical-worm geared motor	Dimensions Page
0.37 kW					**GSS □□ - 2M**	**7-63**
n1=1410	16	168	1.1	87.833	GSS04 - 2M□□□ 071C32	
	16	178	2.0	87.833	GSS05 - 2M□□□ 071C32	
	14	184	1.0	99.167	GSS04 - 2M□□□ 071C32	
	14	198	1.8	99.167	GSS05 - 2M□□□ 071C32	
	13	210	0.9	111.318	GSS04 - 2M□□□ 071C32	
	12	229	1.6	113.667	GSS05 - 2M□□□ 071C32	
	12	218	3.2	113.667	GSS06 - 2M□□□ 071C32	
	11	253	1.4	128.333	GSS05 - 2M□□□ 071C32	
	11	244	2.9	128.333	GSS06 - 2M□□□ 071C32	
	10	275	1.3	137.950	GSS05 - 2M□□□ 071C32	
	10	264	2.7	137.950	GSS06 - 2M□□□ 071C32	
	9.1	303	1.2	155.750	GSS05 - 2M□□□ 071C32	
	9.1	294	2.4	155.750	GSS06 - 2M□□□ 071C32	
	8.0	347	1.0	176.313	GSS05 - 2M□□□ 071C32	
	8.1	330	2.1	174.375	GSS06 - 2M□□□ 071C32	
	7.1	383	0.9	199.063	GSS05 - 2M□□□ 071C32	
	7.2	368	1.9	196.875	GSS06 - 2M□□□ 071C32	
n1=900	7.0	387	0.9	128.333	GSS05 - 2M□□□ 080-13	
	7.0	376	1.9	128.333	GSS06 - 2M□□□ 080-13	
	7.0	387	3.1	128.333	GSS07 - 2M□□□ 080-13	
	6.5	420	0.9	137.950	GSS05 - 2M□□□ 080-13	
	6.5	407	1.8	137.950	GSS06 - 2M□□□ 080-13	
	6.5	417	2.9	137.950	GSS07 - 2M□□□ 080-13	
	5.8	453	1.6	155.750	GSS06 - 2M□□□ 080-13	
	5.8	465	2.6	155.750	GSS07 - 2M□□□ 080-13	
	5.2	509	1.4	174.375	GSS06 - 2M□□□ 080-13	
	5.2	525	2.3	174.375	GSS07 - 2M□□□ 080-13	
	4.6	565	1.3	196.875	GSS06 - 2M□□□ 080-13	
	4.6	585	2.1	196.875	GSS07 - 2M□□□ 080-13	
					GSS □□ - 3M	**7-71**
n1=1410	6.4	418	0.9	222.133	GSS05 - 3M□□□ 071C32	
	6.4	391	1.8	220.000	GSS06 - 3M□□□ 071C32	
	6.2	414	2.9	227.778	GSS07 - 3M□□□ 071C32	
	5.9	427	1.7	238.700	GSS06 - 3M□□□ 071C32	
	5.7	453	2.7	247.139	GSS07 - 3M□□□ 071C32	
	5.2	474	1.5	269.500	GSS06 - 3M□□□ 071C32	
	5.1	504	2.4	279.028	GSS07 - 3M□□□ 071C32	
	4.5	547	1.3	310.689	GSS06 - 3M□□□ 071C32	
	4.4	585	2.1	321.673	GSS07 - 3M□□□ 071C32	
	4.0	605	1.2	350.778	GSS06 - 3M□□□ 071C32	
	3.9	650	1.9	363.179	GSS07 - 3M□□□ 071C32	
	3.7	668	1.1	386.467	GSS06 - 3M□□□ 071C32	
	3.6	709	1.7	394.245	GSS07 - 3M□□□ 071C32	
	3.2	737	1.0	436.333	GSS06 - 3M□□□ 071C32	
	3.2	787	1.6	445.116	GSS07 - 3M□□□ 071C32	
	2.8	841	0.9	497.722	GSS06 - 3M□□□ 071C32	
	2.9	869	1.4	490.403	GSS07 - 3M□□□ 071C32	
	2.6	963	1.3	553.681	GSS07 - 3M□□□ 071C32	
	2.2	1101	1.1	634.639	GSS07 - 3M□□□ 071C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.37 kW					**GSS □□ - 3M**	**7-71**
n1=1410	2.0	1218	1.0	716.528	GSS07 - 3M□□□ 071C32	
	1.7	1413	0.9	833.556	GSS07 - 3M□□□ 071C32	
	1.5	1563	0.8	941.111	GSS07 - 3M□□□ 071C32	
0.55 kW					**GSS □□ - 2M**	**7-63**
n1=2840	504	9	5.4	5.639	GSS04 - 2M□□□ 071-31	
	367	12	5.4	7.733	GSS04 - 2M□□□ 071-31	
	314	14	5.4	9.042	GSS04 - 2M□□□ 071-31	
	262	17	5.4	10.827	GSS05 - 2M□□□ 071-31	
	229	19	5.4	12.400	GSS04 - 2M□□□ 071-31	
	206	22	5.6	13.810	GSS04 - 2M□□□ 071-31	
	179	25	5.6	15.869	GSS04 - 2M□□□ 071-31	
	164	27	5.3	17.360	GSS04 - 2M□□□ 071-31	
	139	29	3.9	20.417	GSS04 - 2M□□□ 071-31	
	128	35	4.5	22.143	GSS04 - 2M□□□ 071-31	
	115	37	3.6	24.800	GSS04 - 2M□□□ 071-31	
	105	43	3.9	27.125	GSS04 - 2M□□□ 071-31	
	90	47	3.0	31.738	GSS04 - 2M□□□ 071-31	
	83	54	3.3	34.100	GSS04 - 2M□□□ 071-31	
	72	57	2.6	39.200	GSS04 - 2M□□□ 071-31	
	65	69	2.6	43.917	GSS04 - 2M□□□ 071-31	
	57	72	2.2	50.000	GSS04 - 2M□□□ 071-31	
	52	80	2.2	54.250	GSS04 - 2M□□□ 071-31	
	46	88	2.0	61.250	GSS04 - 2M□□□ 071-31	
	42	100	1.8	68.200	GSS04 - 2M□□□ 071-31	
	40	105	2.9	70.611	GSS05 - 2M□□□ 071-31	
	37	110	1.6	77.000	GSS04 - 2M□□□ 071-31	
	36	117	2.7	79.722	GSS05 - 2M□□□ 071-31	
	32	128	1.4	87.833	GSS04 - 2M□□□ 071-31	
	32	131	2.6	87.833	GSS05 - 2M□□□ 071-31	
	29	141	1.3	99.167	GSS04 - 2M□□□ 071-31	
	29	146	2.4	99.167	GSS05 - 2M□□□ 071-31	
	26	161	1.1	111.318	GSS04 - 2M□□□ 071-31	
	25	171	2.1	113.667	GSS05 - 2M□□□ 071-31	
	23	177	1.0	125.682	GSS04 - 2M□□□ 071-31	
	22	190	1.9	128.333	GSS05 - 2M□□□ 071-31	
	20	200	0.9	139.500	GSS04 - 2M□□□ 071-31	
	21	208	1.7	137.950	GSS05 - 2M□□□ 071-31	
	18	219	0.8	157.500	GSS04 - 2M□□□ 071-31	
	18	232	1.5	155.750	GSS05 - 2M□□□ 071-31	
	18	224	3.1	155.750	GSS06 - 2M□□□ 071-31	
	16	266	1.4	176.313	GSS05 - 2M□□□ 071-31	
	16	252	2.8	174.375	GSS06 - 2M□□□ 071-31	
	14	295	1.2	199.063	GSS05 - 2M□□□ 071-31	
	14	282	2.5	196.875	GSS06 - 2M□□□ 071-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GSS □□ - 2M**	**7-63**
n1=1405	249	18	4.5	5.639	GSS04 - 2M□□□ 071C42	
	182	25	4.5	7.733	GSS04 - 2M□□□ 071C42	
	155	29	4.5	9.042	GSS04 - 2M□□□ 071C42	
	142	33	4.2	9.897	GSS04 - 2M□□□ 071C42	
	130	36	4.2	10.827	GSS04 - 2M□□□ 071C42	
	113	39	4.2	12.400	GSS04 - 2M□□□ 071C42	
	102	46	3.4	13.810	GSS04 - 2M□□□ 071C42	
	89	51	3.5	15.869	GSS04 - 2M□□□ 071C42	
	81	55	3.2	17.360	GSS04 - 2M□□□ 071C42	
	69	60	2.5	20.417	GSS04 - 2M□□□ 071C42	
	64	71	2.5	22.143	GSS04 - 2M□□□ 071C42	
	57	74	2.3	24.800	GSS04 - 2M□□□ 071C42	
	52	87	2.1	27.125	GSS04 - 2M□□□ 071C42	
	44	94	1.9	31.738	GSS04 - 2M□□□ 071C42	
	44	95	3.1	31.738	GSS05 - 2M□□□ 071C42	
	41	109	1.6	34.100	GSS04 - 2M□□□ 071C42	
	40	114	3.1	35.306	GSS05 - 2M□□□ 071C42	
	36	114	1.6	39.200	GSS04 - 2M□□□ 071C42	
	36	116	2.7	39.200	GSS05 - 2M□□□ 071C42	
	32	139	1.3	43.917	GSS04 - 2M□□□ 071C42	
	32	143	2.5	43.917	GSS05 - 2M□□□ 071C42	
	32	140	3.2	43.917	GSS06 - 2M□□□ 071C42	
	28	144	1.2	50.000	GSS04 - 2M□□□ 071C42	
	28	149	2.3	50.000	GSS05 - 2M□□□ 071C42	
	26	159	1.1	54.250	GSS04 - 2M□□□ 071C42	
	26	165	2.2	54.250	GSS05 - 2M□□□ 071C42	
	23	174	1.0	61.250	GSS04 - 2M□□□ 071C42	
	23	183	1.9	61.250	GSS05 - 2M□□□ 071C42	
	21	198	0.9	68.200	GSS04 - 2M□□□ 071C42	
	20	215	1.7	70.611	GSS05 - 2M□□□ 071C42	
	18	217	0.8	77.000	GSS04 - 2M□□□ 071C42	
	18	240	1.5	79.722	GSS05 - 2M□□□ 071C42	
	18	232	3.0	79.722	GSS06 - 2M□□□ 071C42	
	16	268	1.3	87.833	GSS05 - 2M□□□ 071C42	
	16	257	2.7	87.833	GSS06 - 2M□□□ 071C42	
	14	297	1.2	99.167	GSS05 - 2M□□□ 071C42	
	14	287	2.5	99.167	GSS06 - 2M□□□ 071C42	
	12	344	1.0	113.667	GSS05 - 2M□□□ 071C42	
	12	330	2.2	113.667	GSS06 - 2M□□□ 071C42	
	11	379	1.0	128.333	GSS05 - 2M□□□ 071C42	
	11	368	1.9	128.333	GSS06 - 2M□□□ 071C42	
	10	413	0.9	137.950	GSS05 - 2M□□□ 071C42	
	10	398	1.8	137.950	GSS06 - 2M□□□ 071C42	
	9.0	443	1.6	155.750	GSS06 - 2M□□□ 071C42	
	8.1	498	1.4	174.375	GSS06 - 2M□□□ 071C42	
	7.1	554	1.3	196.875	GSS06 - 2M□□□ 071C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.55 kW					**GSS □□ - 3M**	**7-71**
n1=1405	7.0	561	2.2	201.746	GSS07 - 3M□□□ 071C42	
	6.4	589	1.2	220.000	GSS06 - 3M□□□ 071C42	
	6.2	625	2.0	227.778	GSS07 - 3M□□□ 071C42	
	5.9	642	1.1	238.700	GSS06 - 3M□□□ 071C42	
	5.7	684	1.8	247.139	GSS07 - 3M□□□ 071C42	
	5.2	712	1.0	269.500	GSS06 - 3M□□□ 071C42	
	5.0	761	1.6	279.028	GSS07 - 3M□□□ 071C42	
	4.5	821	0.9	310.689	GSS06 - 3M□□□ 071C42	
	4.4	881	1.4	321.673	GSS07 - 3M□□□ 071C42	
	3.9	978	1.3	363.179	GSS07 - 3M□□□ 071C42	
	3.6	1066	1.2	394.245	GSS07 - 3M□□□ 071C42	
	3.2	1182	1.1	445.116	GSS07 - 3M□□□ 071C42	
	2.9	1304	1.0	490.403	GSS07 - 3M□□□ 071C42	
	2.5	1445	0.9	553.681	GSS07 - 3M□□□ 071C42	
0.75 kW					**GSS □□ - 2M**	**7-63**
n1=2850	505	12	5.8	5.639	GSS04 - 2M□□□ 080-11	
	315	19	5.9	9.042	GSS04 - 2M□□□ 080-11	
	263	23	6.0	10.827	GSS04 - 2M□□□ 080-11	
	230	27	4.9	12.400	GSS04 - 2M□□□ 080-11	
	206	30	5.0	13.810	GSS04 - 2M□□□ 080-11	
	180	34	4.1	15.869	GSS04 - 2M□□□ 080-11	
	164	37	3.9	17.360	GSS04 - 2M□□□ 080-11	
	140	40	2.9	20.417	GSS04 - 2M□□□ 080-11	
	129	48	3.3	22.143	GSS04 - 2M□□□ 080-11	
	115	50	2.6	24.800	GSS04 - 2M□□□ 080-11	
	105	59	2.9	27.125	GSS04 - 2M□□□ 080-11	
	90	64	2.2	31.738	GSS04 - 2M□□□ 080-11	
	84	74	2.4	34.100	GSS04 - 2M□□□ 080-11	
	73	78	1.9	39.200	GSS04 - 2M□□□ 080-11	
	73	77	3.1	39.200	GSS05 - 2M□□□ 080-11	
	65	95	1.9	43.917	GSS04 - 2M□□□ 080-11	
	57	99	1.6	50.000	GSS04 - 2M□□□ 080-11	
	57	99	2.7	50.000	GSS05 - 2M□□□ 080-11	
	53	109	1.6	54.250	GSS04 - 2M□□□ 080-11	
	53	110	2.6	54.250	GSS05 - 2M□□□ 080-11	
	47	121	1.4	61.250	GSS04 - 2M□□□ 080-11	
	47	122	2.4	61.250	GSS05 - 2M□□□ 080-11	
	42	137	1.3	68.200	GSS04 - 2M□□□ 080-11	
	40	144	2.2	70.611	GSS05 - 2M□□□ 080-11	
	37	151	1.2	77.000	GSS04 - 2M□□□ 080-11	
	36	160	2.0	79.722	GSS05 - 2M□□□ 080-11	
	32	175	1.0	87.833	GSS04 - 2M□□□ 080-11	
	32	180	1.9	87.833	GSS05 - 2M□□□ 080-11	
	29	192	0.9	99.167	GSS04 - 2M□□□ 080-11	
	29	200	1.7	99.167	GSS05 - 2M□□□ 080-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz n_2 [min^{-1}]	50 Hz M_2 [Nm]	50 Hz c	i	Helical-worm geared motor	Dimensions Page
0.75 kW					**GSS □□ - 2M**	**7-63**
n1=2850	25	234	1.5	113.667	GSS05 - 2M□□□ 080-11	
	25	227	3.1	113.667	GSS06 - 2M□□□ 080-11	
	22	260	1.4	128.333	GSS05 - 2M□□□ 080-11	
	22	254	2.8	128.333	GSS06 - 2M□□□ 080-11	
	21	284	1.3	137.950	GSS05 - 2M□□□ 080-11	
	21	275	2.6	137.950	GSS06 - 2M□□□ 080-11	
	18	317	1.1	155.750	GSS05 - 2M□□□ 080-11	
	18	308	2.3	155.750	GSS06 - 2M□□□ 080-11	
	16	346	2.1	174.375	GSS06 - 2M□□□ 080-11	
	15	386	1.8	196.875	GSS06 - 2M□□□ 080-11	
	15	393	3.1	196.875	GSS07 - 2M□□□ 080-11	
n1=1410	250	25	4.2	5.639	GSS04 - 2M□□□ 080C32	
	182	35	4.2	7.733	GSS04 - 2M□□□ 080C32	
	156	39	3.8	9.042	GSS04 - 2M□□□ 080C32	
	143	45	3.5	9.897	GSS04 - 2M□□□ 080C32	
	130	49	3.2	10.827	GSS04 - 2M□□□ 080C32	
	114	54	3.1	12.400	GSS04 - 2M□□□ 080C32	
	102	63	2.5	13.810	GSS04 - 2M□□□ 080C32	
	89	69	2.5	15.869	GSS04 - 2M□□□ 080C32	
	81	76	2.3	17.360	GSS04 - 2M□□□ 080C32	
	69	82	1.9	20.417	GSS04 - 2M□□□ 080C32	
	64	97	1.8	22.143	GSS04 - 2M□□□ 080C32	
	57	101	1.7	24.800	GSS04 - 2M□□□ 080C32	
	52	118	1.5	27.125	GSS04 - 2M□□□ 080C32	
	52	120	2.9	27.125	GSS05 - 2M□□□ 080C32	
	44	129	1.4	31.738	GSS04 - 2M□□□ 080C32	
	44	131	2.3	31.738	GSS05 - 2M□□□ 080C32	
	41	148	1.2	34.100	GSS04 - 2M□□□ 080C32	
	40	157	2.3	35.306	GSS05 - 2M□□□ 080C32	
	36	155	1.2	39.200	GSS04 - 2M□□□ 080C32	
	36	159	2.0	39.200	GSS05 - 2M□□□ 080C32	
	32	190	1.0	43.917	GSS04 - 2M□□□ 080C32	
	32	196	1.8	43.917	GSS05 - 2M□□□ 080C32	
	32	191	2.9	43.917	GSS06 - 2M□□□ 080C32	
	28	196	0.9	50.000	GSS04 - 2M□□□ 080C32	
	28	204	1.7	50.000	GSS05 - 2M□□□ 080C32	
	26	217	0.8	54.250	GSS04 - 2M□□□ 080C32	
	26	226	1.6	54.250	GSS05 - 2M□□□ 080C32	
	23	251	1.4	61.250	GSS05 - 2M□□□ 080C32	
	20	294	1.2	70.611	GSS05 - 2M□□□ 080C32	
	20	285	2.5	70.611	GSS06 - 2M□□□ 080C32	
	18	328	1.1	79.722	GSS05 - 2M□□□ 080C32	
	18	318	2.2	79.722	GSS06 - 2M□□□ 080C32	
	16	365	1.0	87.833	GSS05 - 2M□□□ 080C32	
	16	352	2.0	87.833	GSS06 - 2M□□□ 080C32	
	14	405	0.9	99.167	GSS05 - 2M□□□ 080C32	
	14	393	1.8	99.167	GSS06 - 2M□□□ 080C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
0.75 kW					**GSS □□ - 2M**	7-63
n1=1410	12	452	1.6	113.667	GSS06 - 2M□□□ 080C32	
	12	462	2.7	113.667	GSS07 - 2M□□□ 080C32	
	11	503	1.4	128.333	GSS06 - 2M□□□ 080C32	
	11	516	2.4	128.333	GSS07 - 2M□□□ 080C32	
	10	544	1.3	137.950	GSS06 - 2M□□□ 080C32	
	10	560	2.2	137.950	GSS07 - 2M□□□ 080C32	
	9.1	605	1.2	155.750	GSS06 - 2M□□□ 080C32	
	9.1	623	2.0	155.750	GSS07 - 2M□□□ 080C32	
	8.1	679	1.1	174.375	GSS06 - 2M□□□ 080C32	
	8.1	701	1.8	174.375	GSS07 - 2M□□□ 080C32	
	7.2	755	1.0	196.875	GSS06 - 2M□□□ 080C32	
	7.2	782	1.6	196.875	GSS07 - 2M□□□ 080C32	
					GSS □□ - 3M	7-71
	6.4	803	0.9	220.000	GSS06 - 3M□□□ 080C32	
	6.2	855	1.5	227.778	GSS07 - 3M□□□ 080C32	
	5.9	876	0.8	238.700	GSS06 - 3M□□□ 080C32	
	5.7	935	1.3	247.139	GSS07 - 3M□□□ 080C32	
	5.1	1039	1.2	279.028	GSS07 - 3M□□□ 080C32	
	4.4	1203	1.0	321.673	GSS07 - 3M□□□ 080C32	
	3.9	1335	0.9	363.179	GSS07 - 3M□□□ 080C32	
	3.6	1455	0.9	394.245	GSS07 - 3M□□□ 080C32	
1.1 kW					**GSS □□ - 2M**	7-63
n1=2810	498	18	3.9	5.639	GSS04 - 2M□□□ 080-31	
	363	25	4.2	7.733	GSS04 - 2M□□□ 080-31	
	311	29	4.0	9.042	GSS04 - 2M□□□ 080-31	
	284	32	4.3	9.897	GSS04 - 2M□□□ 080-31	
	260	35	4.0	10.827	GSS04 - 2M□□□ 080-31	
	227	40	3.3	12.400	GSS04 - 2M□□□ 080-31	
	204	46	3.4	13.810	GSS04 - 2M□□□ 080-31	
	177	52	2.8	15.869	GSS04 - 2M□□□ 080-31	
	162	56	2.6	17.360	GSS04 - 2M□□□ 080-31	
	138	61	1.9	20.417	GSS04 - 2M□□□ 080-31	
	127	72	2.2	22.143	GSS04 - 2M□□□ 080-31	
	113	75	1.8	24.800	GSS04 - 2M□□□ 080-31	
	104	88	1.9	27.125	GSS04 - 2M□□□ 080-31	
	104	88	3.2	27.125	GSS05 - 2M□□□ 080-31	
	89	97	1.5	31.738	GSS04 - 2M□□□ 080-31	
	89	96	2.4	31.738	GSS05 - 2M□□□ 080-31	
	82	111	1.6	34.100	GSS04 - 2M□□□ 080-31	
	80	115	2.6	35.306	GSS05 - 2M□□□ 080-31	
	72	117	1.3	39.200	GSS04 - 2M□□□ 080-31	
	72	116	2.1	39.200	GSS05 - 2M□□□ 080-31	
	64	142	1.3	43.917	GSS04 - 2M□□□ 080-31	
	64	144	2.3	43.917	GSS05 - 2M□□□ 080-31	
	56	148	1.1	50.000	GSS04 - 2M□□□ 080-31	
	56	149	1.8	50.000	GSS05 - 2M□□□ 080-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GSS □□ - 2M**	**7-63**
n1=2810	52	164	1.1	54.250	GSS04 - 2M□□□ 080-31	
	52	166	1.7	54.250	GSS05 - 2M□□□ 080-31	
	46	180	1.0	61.250	GSS04 - 2M□□□ 080-31	
	46	184	1.6	61.250	GSS05 - 2M□□□ 080-31	
	41	204	0.9	68.200	GSS04 - 2M□□□ 080-31	
	40	216	1.5	70.611	GSS05 - 2M□□□ 080-31	
	40	213	2.9	70.611	GSS06 - 2M□□□ 080-31	
	37	226	0.8	77.000	GSS04 - 2M□□□ 080-31	
	35	240	1.3	79.722	GSS05 - 2M□□□ 080-31	
	35	239	2.6	79.722	GSS06 - 2M□□□ 080-31	
	32	270	1.3	87.833	GSS05 - 2M□□□ 080-31	
	32	265	2.5	87.833	GSS06 - 2M□□□ 080-31	
	28	300	1.2	99.167	GSS05 - 2M□□□ 080-31	
	28	297	2.3	99.167	GSS06 - 2M□□□ 080-31	
	25	350	1.0	113.667	GSS05 - 2M□□□ 080-31	
	25	342	2.1	113.667	GSS06 - 2M□□□ 080-31	
	22	389	0.9	128.333	GSS05 - 2M□□□ 080-31	
	22	383	1.9	128.333	GSS06 - 2M□□□ 080-31	
	22	388	3.1	128.333	GSS07 - 2M□□□ 080-31	
	20	425	0.8	137.950	GSS05 - 2M□□□ 080-31	
	20	414	1.7	137.950	GSS06 - 2M□□□ 080-31	
	20	419	2.9	137.950	GSS07 - 2M□□□ 080-31	
	18	462	1.5	155.750	GSS06 - 2M□□□ 080-31	
	18	470	2.6	155.750	GSS07 - 2M□□□ 080-31	
	16	519	1.4	174.375	GSS06 - 2M□□□ 080-31	
	16	529	2.3	174.375	GSS07 - 2M□□□ 080-31	
	14	578	1.2	196.875	GSS06 - 2M□□□ 080-31	
	14	592	2.1	196.875	GSS07 - 2M□□□ 080-31	
n1=1390	247	37	3.9	5.639	GSS04 - 2M□□□ 080C42	
	180	52	3.0	7.733	GSS04 - 2M□□□ 080C42	
	154	59	2.6	9.042	GSS04 - 2M□□□ 080C42	
	140	67	2.4	9.897	GSS04 - 2M□□□ 080C42	
	128	74	2.2	10.827	GSS04 - 2M□□□ 080C42	
	112	82	2.1	12.400	GSS04 - 2M□□□ 080C42	
	101	95	1.7	13.810	GSS04 - 2M□□□ 080C42	
	101	94	2.9	13.810	GSS05 - 2M□□□ 080C42	
	88	104	1.7	15.869	GSS04 - 2M□□□ 080C42	
	88	104	2.8	15.869	GSS05 - 2M□□□ 080C42	
	80	114	1.6	17.360	GSS04 - 2M□□□ 080C42	
	80	114	2.7	17.360	GSS05 - 2M□□□ 080C42	
	68	123	1.2	20.417	GSS04 - 2M□□□ 080C42	
	68	123	2.0	20.417	GSS05 - 2M□□□ 080C42	
	63	145	1.2	22.143	GSS04 - 2M□□□ 080C42	
	63	147	2.3	22.143	GSS05 - 2M□□□ 080C42	
	63	145	4.5	22.143	GSS07 - 2M□□□ 080C42	
	56	152	1.1	24.800	GSS04 - 2M□□□ 080C42	
	56	153	1.8	24.800	GSS05 - 2M□□□ 080C42	
	51	177	1.0	27.125	GSS04 - 2M□□□ 080C42	
	51	180	2.0	27.125	GSS05 - 2M□□□ 080C42	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.1 kW					**GSS □□ - 2M**	7-63
n1=1390	44	193	0.9	31.738	GSS04 - 2M□□□ 080C42	
	44	196	1.5	31.738	GSS05 - 2M□□□ 080C42	
	44	194	3.1	31.738	GSS06 - 2M□□□ 080C42	
	39	235	1.5	35.306	GSS05 - 2M□□□ 080C42	
	39	229	3.1	35.306	GSS06 - 2M□□□ 080C42	
	36	239	1.3	39.200	GSS05 - 2M□□□ 080C42	
	36	238	2.6	39.200	GSS06 - 2M□□□ 080C42	
	32	293	1.2	43.917	GSS05 - 2M□□□ 080C42	
	32	285	2.5	43.917	GSS06 - 2M□□□ 080C42	
	32	283	3.1	43.271	GSS07 - 2M□□□ 080C42	
	28	306	1.2	50.000	GSS05 - 2M□□□ 080C42	
	28	303	2.3	50.000	GSS06 - 2M□□□ 080C42	
	26	338	1.1	54.250	GSS05 - 2M□□□ 080C42	
	26	331	2.1	54.250	GSS06 - 2M□□□ 080C42	
	23	375	1.0	61.250	GSS05 - 2M□□□ 080C42	
	23	370	1.9	61.250	GSS06 - 2M□□□ 080C42	
	20	440	0.8	70.611	GSS05 - 2M□□□ 080C42	
	20	428	1.7	70.611	GSS06 - 2M□□□ 080C42	
	20	434	2.8	70.611	GSS07 - 2M□□□ 080C42	
	17	478	1.5	79.722	GSS06 - 2M□□□ 080C42	
	17	487	2.5	79.722	GSS07 - 2M□□□ 080C42	
	16	528	1.4	87.833	GSS06 - 2M□□□ 080C42	
	16	531	2.3	86.542	GSS07 - 2M□□□ 080C42	
	14	589	1.2	99.167	GSS06 - 2M□□□ 080C42	
	14	594	2.1	97.708	GSS07 - 2M□□□ 080C42	
	12	676	1.1	113.667	GSS06 - 2M□□□ 080C42	
	12	694	1.8	113.667	GSS07 - 2M□□□ 080C42	
	11	753	1.0	128.333	GSS06 - 2M□□□ 080C42	
	11	774	1.6	128.333	GSS07 - 2M□□□ 080C42	
	10	814	0.9	137.950	GSS06 - 2M□□□ 080C42	
	10	840	1.5	137.950	GSS07 - 2M□□□ 080C42	
	8.9	934	1.3	155.750	GSS07 - 2M□□□ 080C42	
	8.0	1051	1.2	174.375	GSS07 - 2M□□□ 080C42	
	7.1	1171	1.1	196.875	GSS07 - 2M□□□ 080C42	
					GSS □□ - 3M	7-71
	6.9	1150	1.1	201.746	GSS07 - 3M□□□ 080C42	
	6.1	1280	1.0	227.778	GSS07 - 3M□□□ 080C42	
	5.6	1398	0.9	247.139	GSS07 - 3M□□□ 080C42	
	5.0	1554	0.8	279.028	GSS07 - 3M□□□ 080C42	
1.5 kW					**GSS □□ - 2M**	7-63
n1=2840	504	25	2.9	5.639	GSS04 - 2M□□□ 090-11	
	367	34	3.1	7.733	GSS04 - 2M□□□ 090-11	
	314	40	3.0	9.042	GSS04 - 2M□□□ 090-11	
	287	44	3.2	9.897	GSS04 - 2M□□□ 090-11	
	262	48	3.0	10.827	GSS04 - 2M□□□ 090-11	
	229	55	2.4	12.400	GSS04 - 2M□□□ 090-11	
	206	62	2.5	13.810	GSS04 - 2M□□□ 090-11	
	179	70	2.1	15.869	GSS04 - 2M□□□ 090-11	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GSS □□ - 2M**	**7-63**
n1=2840	164	77	1.9	17.360	GSS04 - 2M□□□ 090-11	
	164	76	3.2	17.360	GSS05 - 2M□□□ 090-11	
	139	82	1.4	20.417	GSS04 - 2M□□□ 090-11	
	139	80	2.2	20.417	GSS05 - 2M□□□ 090-11	
	128	98	1.7	22.143	GSS04 - 2M□□□ 090-11	
	128	97	2.7	22.143	GSS05 - 2M□□□ 090-11	
	115	102	1.3	24.800	GSS04 - 2M□□□ 090-11	
	115	101	2.1	24.800	GSS05 - 2M□□□ 090-11	
	105	120	1.4	27.125	GSS04 - 2M□□□ 090-11	
	105	120	2.3	27.125	GSS05 - 2M□□□ 090-11	
	90	131	1.1	31.738	GSS04 - 2M□□□ 090-11	
	90	130	1.8	31.738	GSS05 - 2M□□□ 090-11	
	90	131	3.1	31.738	GSS06 - 2M□□□ 090-11	
	80	156	2.0	35.306	GSS05 - 2M□□□ 090-11	
	72	158	1.0	39.200	GSS04 - 2M□□□ 090-11	
	72	158	1.6	39.200	GSS05 - 2M□□□ 090-11	
	72	160	2.9	39.200	GSS06 - 2M□□□ 090-11	
	65	195	1.7	43.917	GSS05 - 2M□□□ 090-11	
	57	200	0.8	50.000	GSS04 - 2M□□□ 090-11	
	57	203	1.3	50.000	GSS05 - 2M□□□ 090-11	
	57	205	2.6	50.000	GSS06 - 2M□□□ 090-11	
	52	225	1.3	54.250	GSS05 - 2M□□□ 090-11	
	52	224	2.5	54.250	GSS06 - 2M□□□ 090-11	
	46	249	1.2	61.250	GSS05 - 2M□□□ 090-11	
	46	251	2.3	61.250	GSS06 - 2M□□□ 090-11	
	40	293	1.1	70.611	GSS05 - 2M□□□ 090-11	
	40	290	2.1	70.611	GSS06 - 2M□□□ 090-11	
	36	326	1.0	79.722	GSS05 - 2M□□□ 090-11	
	36	325	1.9	79.722	GSS06 - 2M□□□ 090-11	
	32	366	0.9	87.833	GSS05 - 2M□□□ 090-11	
	32	361	1.9	87.833	GSS06 - 2M□□□ 090-11	
	29	406	0.9	99.167	GSS05 - 2M□□□ 090-11	
	29	404	1.7	99.167	GSS06 - 2M□□□ 090-11	
	29	402	3.0	97.708	GSS07 - 2M□□□ 090-11	
	25	465	1.5	113.667	GSS06 - 2M□□□ 090-11	
	25	471	2.6	113.667	GSS07 - 2M□□□ 090-11	
	22	519	1.4	128.333	GSS06 - 2M□□□ 090-11	
	22	528	2.3	128.333	GSS07 - 2M□□□ 090-11	
	21	561	1.3	137.950	GSS06 - 2M□□□ 090-11	
	21	571	2.2	137.950	GSS07 - 2M□□□ 090-11	
	18	626	1.1	155.750	GSS06 - 2M□□□ 090-11	
	18	640	1.9	155.750	GSS07 - 2M□□□ 090-11	
	16	719	1.7	174.375	GSS07 - 2M□□□ 090-11	
	14	804	1.5	196.875	GSS07 - 2M□□□ 090-11	
n1=1390	247	52	2.8	5.639	GSS04 - 2M□□□ 090C32	
	180	72	2.2	7.733	GSS04 - 2M□□□ 090C32	
	154	82	1.9	9.042	GSS04 - 2M□□□ 090C32	
	154	81	3.0	9.042	GSS05 - 2M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
1.5 kW					**GSS □□ - 2M**	**7-63**
n1=1390	140	92	1.7	9.897	GSS04 - 2M□□□ 090C32	
	140	91	2.9	9.897	GSS05 - 2M□□□ 090C32	
	128	101	1.6	10.827	GSS04 - 2M□□□ 090C32	
	128	100	2.7	10.827	GSS05 - 2M□□□ 090C32	
	112	112	1.5	12.400	GSS04 - 2M□□□ 090C32	
	112	112	2.5	12.400	GSS05 - 2M□□□ 090C32	
	101	130	1.2	13.810	GSS04 - 2M□□□ 090C32	
	101	129	2.1	13.810	GSS05 - 2M□□□ 090C32	
	88	143	1.3	15.869	GSS04 - 2M□□□ 090C32	
	88	143	2.1	15.869	GSS05 - 2M□□□ 090C32	
	80	156	1.2	17.360	GSS04 - 2M□□□ 090C32	
	80	157	2.0	17.360	GSS05 - 2M□□□ 090C32	
	68	168	0.9	20.417	GSS04 - 2M□□□ 090C32	
	68	168	1.5	20.417	GSS05 - 2M□□□ 090C32	
	63	198	0.9	22.143	GSS04 - 2M□□□ 090C32	
	63	201	1.7	22.143	GSS05 - 2M□□□ 090C32	
	63	198	4.1	22.143	GSS07 - 2M□□□ 090C32	
	56	208	0.8	24.800	GSS04 - 2M□□□ 090C32	
	56	210	1.3	24.800	GSS05 - 2M□□□ 090C32	
	51	247	1.5	27.125	GSS05 - 2M□□□ 090C32	
	51	242	2.9	27.125	GSS06 - 2M□□□ 090C32	
	44	269	1.1	31.738	GSS05 - 2M□□□ 090C32	
	44	267	2.2	31.738	GSS06 - 2M□□□ 090C32	
	39	322	1.1	35.306	GSS05 - 2M□□□ 090C32	
	39	316	2.2	35.306	GSS06 - 2M□□□ 090C32	
	36	327	1.0	39.200	GSS05 - 2M□□□ 090C32	
	36	327	1.9	39.200	GSS06 - 2M□□□ 090C32	
	32	401	0.9	43.917	GSS05 - 2M□□□ 090C32	
	32	392	1.8	43.917	GSS06 - 2M□□□ 090C32	
	32	388	2.8	43.271	GSS07 - 2M□□□ 090C32	
	28	418	0.8	50.000	GSS05 - 2M□□□ 090C32	
	28	416	1.7	50.000	GSS06 - 2M□□□ 090C32	
	28	420	2.9	50.000	GSS07 - 2M□□□ 090C32	
	26	454	1.6	54.250	GSS06 - 2M□□□ 090C32	
	23	507	1.4	61.250	GSS06 - 2M□□□ 090C32	
	20	587	1.2	70.611	GSS06 - 2M□□□ 090C32	
	20	597	2.1	70.611	GSS07 - 2M□□□ 090C32	
	17	654	1.1	79.722	GSS06 - 2M□□□ 090C32	
	17	669	1.8	79.722	GSS07 - 2M□□□ 090C32	
	16	723	1.0	87.833	GSS06 - 2M□□□ 090C32	
	16	729	1.7	86.542	GSS07 - 2M□□□ 090C32	
	14	806	0.9	99.167	GSS06 - 2M□□□ 090C32	
	14	816	1.5	97.708	GSS07 - 2M□□□ 090C32	
	12	952	1.3	113.667	GSS07 - 2M□□□ 090C32	
	11	1062	1.2	128.333	GSS07 - 2M□□□ 090C32	
	10	1151	1.1	137.950	GSS07 - 2M□□□ 090C32	
	8.9	1279	1.0	155.750	GSS07 - 2M□□□ 090C32	
	8.0	1438	0.9	174.375	GSS07 - 2M□□□ 090C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GSS □□ - 2M**	**7-63**
n1=2840	504	37	2.0	5.639	GSS04 - 2M□□□ 090-31	
	367	51	2.1	7.733	GSS04 - 2M□□□ 090-31	
	314	59	2.0	9.042	GSS04 - 2M□□□ 090-31	
	314	57	2.8	9.042	GSS05 - 2M□□□ 090-31	
	287	65	2.2	9.897	GSS04 - 2M□□□ 090-31	
	287	65	3.1	9.897	GSS05 - 2M□□□ 090-31	
	262	72	2.0	10.827	GSS04 - 2M□□□ 090-31	
	262	71	3.0	10.827	GSS05 - 2M□□□ 090-31	
	229	81	1.7	12.400	GSS04 - 2M□□□ 090-31	
	229	79	2.7	12.400	GSS05 - 2M□□□ 090-31	
	206	92	1.7	13.810	GSS04 - 2M□□□ 090-31	
	206	92	2.8	13.810	GSS05 - 2M□□□ 090-31	
	179	104	1.4	15.869	GSS04 - 2M□□□ 090-31	
	179	102	2.3	15.869	GSS05 - 2M□□□ 090-31	
	164	113	1.3	17.360	GSS04 - 2M□□□ 090-31	
	164	112	2.2	17.360	GSS05 - 2M□□□ 090-31	
	139	121	1.0	20.417	GSS04 - 2M□□□ 090-31	
	139	118	1.5	20.417	GSS05 - 2M□□□ 090-31	
	128	144	1.1	22.143	GSS04 - 2M□□□ 090-31	
	128	144	1.8	22.143	GSS05 - 2M□□□ 090-31	
	128	142	4.9	22.143	GSS07 - 2M□□□ 090-31	
	115	151	0.9	24.800	GSS04 - 2M□□□ 090-31	
	115	149	1.4	24.800	GSS05 - 2M□□□ 090-31	
	105	176	1.0	27.125	GSS04 - 2M□□□ 090-31	
	105	177	1.6	27.125	GSS05 - 2M□□□ 090-31	
	105	175	3.1	27.125	GSS06 - 2M□□□ 090-31	
	90	192	1.2	31.738	GSS05 - 2M□□□ 090-31	
	90	195	2.1	31.738	GSS06 - 2M□□□ 090-31	
	80	231	1.3	35.306	GSS05 - 2M□□□ 090-31	
	80	229	2.7	35.306	GSS06 - 2M□□□ 090-31	
	72	233	1.1	39.200	GSS05 - 2M□□□ 090-31	
	72	238	2.0	39.200	GSS06 - 2M□□□ 090-31	
	65	288	1.2	43.917	GSS05 - 2M□□□ 090-31	
	65	284	2.3	43.917	GSS06 - 2M□□□ 090-31	
	57	299	0.9	50.000	GSS05 - 2M□□□ 090-31	
	57	303	1.8	50.000	GSS06 - 2M□□□ 090-31	
	57	305	2.8	50.000	GSS07 - 2M□□□ 090-31	
	52	331	0.9	54.250	GSS05 - 2M□□□ 090-31	
	52	331	1.7	54.250	GSS06 - 2M□□□ 090-31	
	46	367	0.8	61.250	GSS05 - 2M□□□ 090-31	
	46	371	1.6	61.250	GSS06 - 2M□□□ 090-31	
	40	429	1.5	70.611	GSS06 - 2M□□□ 090-31	
	40	434	2.6	70.611	GSS07 - 2M□□□ 090-31	
	36	481	1.3	79.722	GSS06 - 2M□□□ 090-31	
	36	487	2.4	79.722	GSS07 - 2M□□□ 090-31	
	32	533	1.3	87.833	GSS06 - 2M□□□ 090-31	
	33	532	2.3	86.542	GSS07 - 2M□□□ 090-31	
	29	596	1.2	99.167	GSS06 - 2M□□□ 090-31	
	29	596	2.1	97.708	GSS07 - 2M□□□ 090-31	
	25	686	1.0	113.667	GSS06 - 2M□□□ 090-31	
	25	698	1.8	113.667	GSS07 - 2M□□□ 090-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GSS □□ - 2M**	**7-63**
n1=2840	22	766	0.9	128.333	GSS06 - 2M□□□ 090-31	
	22	782	1.6	128.333	GSS07 - 2M□□□ 090-31	
	21	827	0.9	137.950	GSS06 - 2M□□□ 090-31	
	21	844	1.5	137.950	GSS07 - 2M□□□ 090-31	
	18	945	1.3	155.750	GSS07 - 2M□□□ 090-31	
	16	1061	1.2	174.375	GSS07 - 2M□□□ 090-31	
	14	1186	1.1	196.875	GSS07 - 2M□□□ 090-31	
n1=1440	255	73	3.0	5.639	GSS05 - 2M□□□ 100C12	
	186	101	2.6	7.733	GSS05 - 2M□□□ 100C12	
	159	115	2.1	9.042	GSS05 - 2M□□□ 100C12	
	146	131	2.1	9.897	GSS05 - 2M□□□ 100C12	
	133	143	1.9	10.827	GSS05 - 2M□□□ 100C12	
	116	159	1.7	12.400	GSS05 - 2M□□□ 100C12	
	116	158	3.2	12.400	GSS06 - 2M□□□ 100C12	
	104	184	1.5	13.810	GSS05 - 2M□□□ 100C12	
	101	189	2.7	14.286	GSS06 - 2M□□□ 100C12	
	91	204	1.5	15.869	GSS05 - 2M□□□ 100C12	
	91	203	2.9	15.869	GSS06 - 2M□□□ 100C12	
	83	224	1.4	17.360	GSS05 - 2M□□□ 100C12	
	83	222	2.8	17.360	GSS06 - 2M□□□ 100C12	
	71	240	1.1	20.417	GSS05 - 2M□□□ 100C12	
	71	244	2.0	20.417	GSS06 - 2M□□□ 100C12	
	65	286	1.2	22.143	GSS05 - 2M□□□ 100C12	
	65	282	2.3	22.143	GSS06 - 2M□□□ 100C12	
	65	280	4.2	22.143	GSS07 - 2M□□□ 100C12	
	58	298	0.9	24.800	GSS05 - 2M□□□ 100C12	
	58	298	1.9	24.800	GSS06 - 2M□□□ 100C12	
	53	351	1.0	27.125	GSS05 - 2M□□□ 100C12	
	53	346	2.0	27.125	GSS06 - 2M□□□ 100C12	
	45	383	0.8	31.738	GSS05 - 2M□□□ 100C12	
	45	381	1.6	31.738	GSS06 - 2M□□□ 100C12	
	47	376	2.8	31.000	GSS07 - 2M□□□ 100C12	
	41	450	1.6	35.306	GSS06 - 2M□□□ 100C12	
	41	451	2.7	35.306	GSS07 - 2M□□□ 100C12	
	37	466	1.4	39.200	GSS06 - 2M□□□ 100C12	
	37	472	2.5	39.200	GSS07 - 2M□□□ 100C12	
	33	558	1.3	43.917	GSS06 - 2M□□□ 100C12	
	33	552	2.2	43.271	GSS07 - 2M□□□ 100C12	
	29	592	1.2	50.000	GSS06 - 2M□□□ 100C12	
	29	601	2.1	50.000	GSS07 - 2M□□□ 100C12	
	27	646	1.1	54.250	GSS06 - 2M□□□ 100C12	
	27	657	1.9	54.250	GSS07 - 2M□□□ 100C12	
	24	722	1.0	61.250	GSS06 - 2M□□□ 100C12	
	24	736	1.7	61.250	GSS07 - 2M□□□ 100C12	
	20	834	0.9	70.611	GSS06 - 2M□□□ 100C12	
	20	851	1.5	70.611	GSS07 - 2M□□□ 100C12	
	18	954	1.3	79.722	GSS07 - 2M□□□ 100C12	
	17	1038	1.2	86.542	GSS07 - 2M□□□ 100C12	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
2.2 kW					**GSS □□ - 2M**	**7-63**
n1=1440	15	1161	1.1	97.708	GSS07 - 2M□□□ 100C12	
	13	1354	0.9	113.667	GSS07 - 2M□□□ 100C12	
	11	1509	0.8	128.333	GSS07 - 2M□□□ 100C12	
3 kW					**GSS □□ - 2M**	**7-63**
n1=2850	505	50	2.7	5.639	GSS05 - 2M□□□ 100-31	
	369	69	2.4	7.733	GSS05 - 2M□□□ 100-31	
	315	78	2.0	9.042	GSS05 - 2M□□□ 100-31	
	315	80	3.1	9.042	GSS06 - 2M□□□ 100-31	
	288	89	2.2	9.897	GSS05 - 2M□□□ 100-31	
	263	98	2.2	10.827	GSS05 - 2M□□□ 100-31	
	230	109	2.0	12.400	GSS05 - 2M□□□ 100-31	
	230	110	2.8	12.400	GSS06 - 2M□□□ 100-31	
	206	125	2.0	13.810	GSS05 - 2M□□□ 100-31	
	180	140	1.7	15.869	GSS05 - 2M□□□ 100-31	
	180	141	2.7	15.869	GSS06 - 2M□□□ 100-31	
	164	154	1.6	17.360	GSS05 - 2M□□□ 100-31	
	164	154	2.6	17.360	GSS06 - 2M□□□ 100-31	
	140	161	1.1	20.417	GSS05 - 2M□□□ 100-31	
	140	169	1.8	20.417	GSS06 - 2M□□□ 100-31	
	129	197	1.3	22.143	GSS05 - 2M□□□ 100-31	
	129	196	2.4	22.143	GSS06 - 2M□□□ 100-31	
	129	195	3.6	22.143	GSS07 - 2M□□□ 100-31	
	115	203	1.1	24.800	GSS05 - 2M□□□ 100-31	
	115	208	1.7	24.800	GSS06 - 2M□□□ 100-31	
	105	242	1.2	27.125	GSS05 - 2M□□□ 100-31	
	105	241	2.3	27.125	GSS06 - 2M□□□ 100-31	
	90	262	0.9	31.738	GSS05 - 2M□□□ 100-31	
	90	266	1.6	31.738	GSS06 - 2M□□□ 100-31	
	92	261	2.4	31.000	GSS07 - 2M□□□ 100-31	
	81	313	2.0	35.306	GSS06 - 2M□□□ 100-31	
	81	312	3.2	35.306	GSS07 - 2M□□□ 100-31	
	73	325	1.5	39.200	GSS06 - 2M□□□ 100-31	
	73	328	2.2	39.200	GSS07 - 2M□□□ 100-31	
	65	389	1.7	43.917	GSS06 - 2M□□□ 100-31	
	66	382	3.0	43.271	GSS07 - 2M□□□ 100-31	
	57	414	1.3	50.000	GSS06 - 2M□□□ 100-31	
	57	419	2.1	50.000	GSS07 - 2M□□□ 100-31	
	53	452	1.3	54.250	GSS06 - 2M□□□ 100-31	
	53	458	2.1	54.250	GSS07 - 2M□□□ 100-31	
	47	506	1.2	61.250	GSS06 - 2M□□□ 100-31	
	47	512	2.0	61.250	GSS07 - 2M□□□ 100-31	
	40	586	1.1	70.611	GSS06 - 2M□□□ 100-31	
	40	595	1.9	70.611	GSS07 - 2M□□□ 100-31	
	36	656	1.0	79.722	GSS06 - 2M□□□ 100-31	
	36	666	1.8	79.722	GSS07 - 2M□□□ 100-31	
	32	727	0.9	87.833	GSS06 - 2M□□□ 100-31	
	33	729	1.7	86.542	GSS07 - 2M□□□ 100-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
3 kW					**GSS □□ - 2M**	**7-63**
n1=2850	29	813	0.8	99.167	GSS06 - 2M□□□ 100-31	
	29	815	1.5	97.708	GSS07 - 2M□□□ 100-31	
	25	954	1.3	113.667	GSS07 - 2M□□□ 100-31	
	22	1068	1.2	128.333	GSS07 - 2M□□□ 100-31	
	21	1152	1.1	137.950	GSS07 - 2M□□□ 100-31	
	18	1290	1.0	155.750	GSS07 - 2M□□□ 100-31	
n1=1430	254	102	2.2	5.639	GSS05 - 2M□□□ 100C32	
	185	140	1.9	7.733	GSS05 - 2M□□□ 100C32	
	158	159	1.6	9.042	GSS05 - 2M□□□ 100C32	
	158	160	2.6	9.042	GSS06 - 2M□□□ 100C32	
	145	181	1.5	9.897	GSS05 - 2M□□□ 100C32	
	140	185	2.8	10.238	GSS06 - 2M□□□ 100C32	
	132	198	1.4	10.827	GSS05 - 2M□□□ 100C32	
	128	203	2.5	11.200	GSS06 - 2M□□□ 100C32	
	115	220	1.3	12.400	GSS05 - 2M□□□ 100C32	
	115	219	2.4	12.400	GSS06 - 2M□□□ 100C32	
	104	254	1.1	13.810	GSS05 - 2M□□□ 100C32	
	100	261	2.0	14.286	GSS06 - 2M□□□ 100C32	
	90	282	1.1	15.869	GSS05 - 2M□□□ 100C32	
	90	281	2.1	15.869	GSS06 - 2M□□□ 100C32	
	82	309	1.0	17.360	GSS05 - 2M□□□ 100C32	
	82	307	2.0	17.360	GSS06 - 2M□□□ 100C32	
	82	306	3.2	17.360	GSS07 - 2M□□□ 100C32	
	70	337	1.4	20.417	GSS06 - 2M□□□ 100C32	
	65	395	0.9	22.143	GSS05 - 2M□□□ 100C32	
	65	391	1.7	22.143	GSS06 - 2M□□□ 100C32	
	65	389	3.0	22.143	GSS07 - 2M□□□ 100C32	
	58	412	1.4	24.800	GSS06 - 2M□□□ 100C32	
	53	478	1.5	27.125	GSS06 - 2M□□□ 100C32	
	53	478	2.6	27.125	GSS07 - 2M□□□ 100C32	
	45	525	1.2	31.738	GSS06 - 2M□□□ 100C32	
	46	521	2.0	31.000	GSS07 - 2M□□□ 100C32	
	41	621	1.2	35.306	GSS06 - 2M□□□ 100C32	
	41	624	2.0	35.306	GSS07 - 2M□□□ 100C32	
	37	643	1.0	39.200	GSS06 - 2M□□□ 100C32	
	37	653	1.8	39.200	GSS07 - 2M□□□ 100C32	
	33	770	0.9	43.917	GSS06 - 2M□□□ 100C32	
	33	764	1.6	43.271	GSS07 - 2M□□□ 100C32	
	29	817	0.9	50.000	GSS06 - 2M□□□ 100C32	
	29	831	1.5	50.000	GSS07 - 2M□□□ 100C32	
	26	891	0.8	54.250	GSS06 - 2M□□□ 100C32	
	26	908	1.4	54.250	GSS07 - 2M□□□ 100C32	
	23	1016	1.2	61.250	GSS07 - 2M□□□ 100C32	
	20	1175	1.1	70.611	GSS07 - 2M□□□ 100C32	
	18	1315	1.0	79.722	GSS07 - 2M□□□ 100C32	
	17	1432	0.9	86.542	GSS07 - 2M□□□ 100C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GSS □□ - 2M**	**7-63**
n1=2830	502	68	2.0	5.639	GSS05 - 2M□□□ 100-41	
	485	70	2.7	5.833	GSS06 - 2M□□□ 100-41	
	366	94	1.8	7.733	GSS05 - 2M□□□ 100-41	
	354	97	2.7	8.000	GSS06 - 2M□□□ 100-41	
	313	106	1.5	9.042	GSS05 - 2M□□□ 100-41	
	313	108	2.3	9.042	GSS06 - 2M□□□ 100-41	
	286	121	1.7	9.897	GSS05 - 2M□□□ 100-41	
	276	124	2.6	10.238	GSS06 - 2M□□□ 100-41	
	261	132	1.6	10.827	GSS05 - 2M□□□ 100-41	
	253	136	2.5	11.200	GSS06 - 2M□□□ 100-41	
	228	147	1.5	12.400	GSS05 - 2M□□□ 100-41	
	228	149	2.1	12.400	GSS06 - 2M□□□ 100-41	
	205	169	1.5	13.810	GSS05 - 2M□□□ 100-41	
	198	174	2.6	14.286	GSS06 - 2M□□□ 100-41	
	178	189	1.3	15.869	GSS05 - 2M□□□ 100-41	
	178	190	2.0	15.869	GSS06 - 2M□□□ 100-41	
	183	185	3.0	15.500	GSS07 - 2M□□□ 100-41	
	163	207	1.2	17.360	GSS05 - 2M□□□ 100-41	
	163	208	1.9	17.360	GSS06 - 2M□□□ 100-41	
	163	208	2.9	17.360	GSS07 - 2M□□□ 100-41	
	139	217	0.8	20.417	GSS05 - 2M□□□ 100-41	
	139	228	1.3	20.417	GSS06 - 2M□□□ 100-41	
	128	265	1.0	22.143	GSS05 - 2M□□□ 100-41	
	128	266	1.8	22.143	GSS06 - 2M□□□ 100-41	
	128	265	2.7	22.143	GSS07 - 2M□□□ 100-41	
	114	281	1.2	24.800	GSS06 - 2M□□□ 100-41	
	104	325	0.9	27.125	GSS05 - 2M□□□ 100-41	
	104	325	1.7	27.125	GSS06 - 2M□□□ 100-41	
	104	325	2.6	27.125	GSS07 - 2M□□□ 100-41	
	89	359	1.2	31.738	GSS06 - 2M□□□ 100-41	
	91	353	1.8	31.000	GSS07 - 2M□□□ 100-41	
	80	423	1.5	35.306	GSS06 - 2M□□□ 100-41	
	80	423	2.4	35.306	GSS07 - 2M□□□ 100-41	
	72	439	1.1	39.200	GSS06 - 2M□□□ 100-41	
	72	444	1.7	39.200	GSS07 - 2M□□□ 100-41	
	64	525	1.3	43.917	GSS06 - 2M□□□ 100-41	
	65	517	2.3	43.271	GSS07 - 2M□□□ 100-41	
	57	558	1.0	50.000	GSS06 - 2M□□□ 100-41	
	57	565	1.6	50.000	GSS07 - 2M□□□ 100-41	
	52	610	0.9	54.250	GSS06 - 2M□□□ 100-41	
	52	618	1.6	54.250	GSS07 - 2M□□□ 100-41	
	46	682	0.9	61.250	GSS06 - 2M□□□ 100-41	
	46	692	1.5	61.250	GSS07 - 2M□□□ 100-41	
	40	804	1.4	70.611	GSS07 - 2M□□□ 100-41	
	36	899	1.3	79.722	GSS07 - 2M□□□ 100-41	
	33	983	1.3	86.542	GSS07 - 2M□□□ 100-41	
	29	1099	1.1	97.708	GSS07 - 2M□□□ 100-41	
	25	1286	1.0	113.667	GSS07 - 2M□□□ 100-41	
	22	1439	0.9	128.333	GSS07 - 2M□□□ 100-41	
	21	1552	0.8	137.950	GSS07 - 2M□□□ 100-41	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
4 kW					**GSS □□ - 2M**	7-63
n1=1450	249	139	2.5	5.833	GSS06 - 2M□□□ 112C22	
	181	191	2.5	8.000	GSS06 - 2M□□□ 112C22	
	160	212	2.0	9.042	GSS06 - 2M□□□ 112C22	
	160	212	2.9	9.086	GSS07 - 2M□□□ 112C22	
	142	246	2.1	10.238	GSS06 - 2M□□□ 112C22	
	130	269	1.9	11.200	GSS06 - 2M□□□ 112C22	
	130	268	3.2	11.200	GSS07 - 2M□□□ 112C22	
	117	290	1.8	12.400	GSS06 - 2M□□□ 112C22	
	115	294	2.7	12.594	GSS07 - 2M□□□ 112C22	
	102	345	1.5	14.286	GSS06 - 2M□□□ 112C22	
	102	344	2.6	14.286	GSS07 - 2M□□□ 112C22	
	91	371	1.6	15.869	GSS06 - 2M□□□ 112C22	
	94	362	2.5	15.500	GSS07 - 2M□□□ 112C22	
	84	406	1.5	17.360	GSS06 - 2M□□□ 112C22	
	84	406	2.5	17.360	GSS07 - 2M□□□ 112C22	
	71	446	1.1	20.417	GSS06 - 2M□□□ 112C22	
	71	453	1.7	20.517	GSS07 - 2M□□□ 112C22	
	66	516	1.3	22.143	GSS06 - 2M□□□ 112C22	
	66	516	2.3	22.143	GSS07 - 2M□□□ 112C22	
	59	544	1.0	24.800	GSS06 - 2M□□□ 112C22	
	58	560	1.6	25.188	GSS07 - 2M□□□ 112C22	
	54	631	1.1	27.125	GSS06 - 2M□□□ 112C22	
	54	633	2.0	27.125	GSS07 - 2M□□□ 112C22	
	46	693	0.9	31.738	GSS06 - 2M□□□ 112C22	
	47	689	1.5	31.000	GSS07 - 2M□□□ 112C22	
	41	825	1.5	35.306	GSS07 - 2M□□□ 112C22	
	37	863	1.4	39.200	GSS07 - 2M□□□ 112C22	
	34	1009	1.2	43.271	GSS07 - 2M□□□ 112C22	
	29	1098	1.1	50.000	GSS07 - 2M□□□ 112C22	
	27	1198	1.0	54.250	GSS07 - 2M□□□ 112C22	
	24	1341	0.9	61.250	GSS07 - 2M□□□ 112C22	
	21	1549	0.8	70.611	GSS07 - 2M□□□ 112C22	
5.5 kW					**GSS □□ - 2M**	7-63
n1=2890	495	95	2.0	5.833	GSS06 - 2M□□□ 112-31	
	361	131	2.0	8.000	GSS06 - 2M□□□ 112-31	
	356	134	3.0	8.125	GSS07 - 2M□□□ 112-31	
	320	146	1.7	9.042	GSS06 - 2M□□□ 112-31	
	318	146	2.8	9.086	GSS07 - 2M□□□ 112-31	
	282	169	1.9	10.238	GSS06 - 2M□□□ 112-31	
	289	165	2.9	10.000	GSS07 - 2M□□□ 112-31	
	258	185	1.9	11.200	GSS06 - 2M□□□ 112-31	
	258	185	2.8	11.200	GSS07 - 2M□□□ 112-31	
	233	201	1.6	12.400	GSS06 - 2M□□□ 112-31	
	230	204	2.4	12.594	GSS07 - 2M□□□ 112-31	
	202	236	1.9	14.286	GSS06 - 2M□□□ 112-31	
	202	237	2.6	14.286	GSS07 - 2M□□□ 112-31	
	182	258	1.5	15.869	GSS06 - 2M□□□ 112-31	
	187	252	2.2	15.500	GSS07 - 2M□□□ 112-31	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GSS □□ - 2M**	**7-63**
n1=2890	167	282	1.4	17.360	GSS06 - 2M□□□ 112-31	
	167	282	2.1	17.360	GSS07 - 2M□□□ 112-31	
	142	308	1.0	20.417	GSS06 - 2M□□□ 112-31	
	141	313	1.6	20.517	GSS07 - 2M□□□ 112-31	
	131	359	1.3	22.143	GSS06 - 2M□□□ 112-31	
	131	360	2.0	22.143	GSS07 - 2M□□□ 112-31	
	117	380	0.9	24.800	GSS06 - 2M□□□ 112-31	
	115	388	1.4	25.188	GSS07 - 2M□□□ 112-31	
	107	440	1.3	27.125	GSS06 - 2M□□□ 112-31	
	107	441	1.9	27.125	GSS07 - 2M□□□ 112-31	
	91	485	0.9	31.738	GSS06 - 2M□□□ 112-31	
	93	478	1.3	31.000	GSS07 - 2M□□□ 112-31	
	82	573	1.8	35.306	GSS07 - 2M□□□ 112-31	
	74	593	0.8	39.200	GSS06 - 2M□□□ 112-31	
	74	601	1.2	39.200	GSS07 - 2M□□□ 112-31	
	67	701	1.7	43.271	GSS07 - 2M□□□ 112-31	
	58	765	1.2	50.000	GSS07 - 2M□□□ 112-31	
	53	836	1.2	54.250	GSS07 - 2M□□□ 112-31	
	47	936	1.1	61.250	GSS07 - 2M□□□ 112-31	
	41	1087	1.1	70.611	GSS07 - 2M□□□ 112-31	
	36	1215	1.0	79.722	GSS07 - 2M□□□ 112-31	
	33	1329	0.9	86.542	GSS07 - 2M□□□ 112-31	
	30	1485	0.8	97.708	GSS07 - 2M□□□ 112-31	
n1=1445	248	193	1.8	5.833	GSS06 - 2M□□□ 112C32	
	247	194	2.7	5.862	GSS07 - 2M□□□ 112C32	
	181	265	1.8	8.000	GSS06 - 2M□□□ 112C32	
	178	270	2.5	8.125	GSS07 - 2M□□□ 112C32	
	160	294	1.4	9.042	GSS06 - 2M□□□ 112C32	
	159	295	2.1	9.086	GSS07 - 2M□□□ 112C32	
	141	341	1.5	10.238	GSS06 - 2M□□□ 112C32	
	145	333	2.4	10.000	GSS07 - 2M□□□ 112C32	
	129	374	1.4	11.200	GSS06 - 2M□□□ 112C32	
	129	373	2.3	11.200	GSS07 - 2M□□□ 112C32	
	117	402	1.3	12.400	GSS06 - 2M□□□ 112C32	
	115	409	1.9	12.594	GSS07 - 2M□□□ 112C32	
	101	479	1.1	14.286	GSS06 - 2M□□□ 112C32	
	101	478	1.9	14.286	GSS07 - 2M□□□ 112C32	
	91	514	1.2	15.869	GSS06 - 2M□□□ 112C32	
	93	504	1.8	15.500	GSS07 - 2M□□□ 112C32	
	83	563	1.1	17.360	GSS06 - 2M□□□ 112C32	
	83	564	1.8	17.360	GSS07 - 2M□□□ 112C32	
	70	629	1.2	20.517	GSS07 - 2M□□□ 112C32	
	65	715	0.9	22.143	GSS06 - 2M□□□ 112C32	
	65	717	1.7	22.143	GSS07 - 2M□□□ 112C32	
	57	777	1.2	25.188	GSS07 - 2M□□□ 112C32	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
5.5 kW					**GSS □□ - 2M**	**7-63**
n1=1445	53	874	0.8	27.125	GSS06 - 2M□□□ 112C32	
	53	879	1.4	27.125	GSS07 - 2M□□□ 112C32	
	47	955	1.1	31.000	GSS07 - 2M□□□ 112C32	
	41	1143	1.1	35.306	GSS07 - 2M□□□ 112C32	
	37	1195	1.0	39.200	GSS07 - 2M□□□ 112C32	
	33	1397	0.9	43.271	GSS07 - 2M□□□ 112C32	
	29	1520	0.8	50.000	GSS07 - 2M□□□ 112C32	
7.5 kW					**GSS □□ - 2M**	**7-63**
n1=2900	497	130	1.5	5.833	GSS06 - 2M□□□ 112-41	
	495	131	2.4	5.862	GSS07 - 2M□□□ 112-41	
	363	179	1.5	8.000	GSS06 - 2M□□□ 112-41	
	357	183	2.2	8.125	GSS07 - 2M□□□ 112-41	
	321	200	1.3	9.042	GSS06 - 2M□□□ 112-41	
	319	201	2.0	9.086	GSS07 - 2M□□□ 112-41	
	283	231	1.4	10.238	GSS06 - 2M□□□ 112-41	
	290	226	2.1	10.000	GSS07 - 2M□□□ 112-41	
	259	253	1.4	11.200	GSS06 - 2M□□□ 112-41	
	259	253	2.0	11.200	GSS07 - 2M□□□ 112-41	
	234	275	1.2	12.400	GSS06 - 2M□□□ 112-41	
	230	279	1.7	12.594	GSS07 - 2M□□□ 112-41	
	203	323	1.4	14.286	GSS06 - 2M□□□ 112-41	
	203	324	1.9	14.286	GSS07 - 2M□□□ 112-41	
	183	352	1.1	15.869	GSS06 - 2M□□□ 112-41	
	187	344	1.6	15.500	GSS07 - 2M□□□ 112-41	
	167	385	1.1	17.360	GSS06 - 2M□□□ 112-41	
	167	385	1.6	17.360	GSS07 - 2M□□□ 112-41	
	141	427	1.2	20.517	GSS07 - 2M□□□ 112-41	
	131	490	1.0	22.143	GSS06 - 2M□□□ 112-41	
	131	492	1.5	22.143	GSS07 - 2M□□□ 112-41	
	115	530	1.1	25.188	GSS07 - 2M□□□ 112-41	
	107	600	0.9	27.125	GSS06 - 2M□□□ 112-41	
	107	602	1.4	27.125	GSS07 - 2M□□□ 112-41	
	94	653	1.0	31.000	GSS07 - 2M□□□ 112-41	
	82	783	1.3	35.306	GSS07 - 2M□□□ 112-41	
	74	819	0.9	39.200	GSS07 - 2M□□□ 112-41	
	67	957	1.2	43.271	GSS07 - 2M□□□ 112-41	
	58	1043	0.8	50.000	GSS07 - 2M□□□ 112-41	
	54	1140	0.8	54.250	GSS07 - 2M□□□ 112-41	
	47	1276	0.8	61.250	GSS07 - 2M□□□ 112-41	
n1=1455	248	264	2.0	5.862	GSS07 - 2M□□□ 132C22	
	179	368	1.8	8.125	GSS07 - 2M□□□ 132C22	
	160	402	1.6	9.086	GSS07 - 2M□□□ 132C22	
	146	454	1.7	10.000	GSS07 - 2M□□□ 132C22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
7.5 kW					**GSS □□ - 2M**	**7-63**
n1=1455	130	508	1.7	11.200	GSS07 - 2M□□□ 132C22	
	116	557	1.4	12.594	GSS07 - 2M□□□ 132C22	
	102	650	1.6	14.286	GSS07 - 2M□□□ 132C22	
	94	686	1.4	15.500	GSS07 - 2M□□□ 132C22	
	84	768	1.3	17.360	GSS07 - 2M□□□ 132C22	
	71	854	0.9	20.517	GSS07 - 2M□□□ 132C22	
	66	976	1.2	22.143	GSS07 - 2M□□□ 132C22	
	58	1056	0.9	25.188	GSS07 - 2M□□□ 132C22	
	54	1195	1.0	27.125	GSS07 - 2M□□□ 132C22	
	47	1298	0.8	31.000	GSS07 - 2M□□□ 132C22	
9.2 kW					**GSS □□ - 2M**	**7-63**
n1=2925	499	160	2.0	5.862	GSS07 - 2M□□□ 132-21	
	360	224	1.8	8.125	GSS07 - 2M□□□ 132-21	
	322	245	1.7	9.086	GSS07 - 2M□□□ 132-21	
	293	276	1.7	10.000	GSS07 - 2M□□□ 132-21	
	261	309	1.7	11.200	GSS07 - 2M□□□ 132-21	
	232	341	1.4	12.594	GSS07 - 2M□□□ 132-21	
	205	396	1.6	14.286	GSS07 - 2M□□□ 132-21	
	189	420	1.3	15.500	GSS07 - 2M□□□ 132-21	
	169	470	1.3	17.360	GSS07 - 2M□□□ 132-21	
	143	521	1.0	20.517	GSS07 - 2M□□□ 132-21	
	132	600	1.2	22.143	GSS07 - 2M□□□ 132-21	
	116	646	0.9	25.188	GSS07 - 2M□□□ 132-21	
	108	734	1.1	27.125	GSS07 - 2M□□□ 132-21	
	94	795	0.8	31.000	GSS07 - 2M□□□ 132-21	
n1=1450	247	327	1.6	5.862	GSS07 - 2M□□□ 132C32	
	179	454	1.5	8.125	GSS07 - 2M□□□ 132C32	
	160	496	1.3	9.086	GSS07 - 2M□□□ 132C32	
	145	560	1.4	10.000	GSS07 - 2M□□□ 132C32	
	130	628	1.4	11.200	GSS07 - 2M□□□ 132C32	
	115	688	1.2	12.594	GSS07 - 2M□□□ 132C32	
	102	802	1.3	14.286	GSS07 - 2M□□□ 132C32	
	94	846	1.1	15.500	GSS07 - 2M□□□ 132C32	
	84	947	1.1	17.360	GSS07 - 2M□□□ 132C32	
	66	1204	1.0	22.143	GSS07 - 2M□□□ 132C32	
	54	1474	0.8	27.125	GSS07 - 2M□□□ 132C32	
11 kW					**GSS □□ - 2M**	**7-63**
n1=1460	249	389	1.4	5.862	GSS07 - 2M□□□ 160-22	
	180	541	1.3	8.125	GSS07 - 2M□□□ 160-22	

Thermal power limit not considered (see page 2-4)

P_1	50 Hz			i	Helical-worm geared motor	Dimensions Page
	n_2 [min^{-1}]	M_2 [Nm]	c			
11 kW					**GSS □□ - 2M**	**7-63**
n1=1460	161	591	1.1	9.086	GSS07 - 2M□□□ 160-22	
	146	667	1.2	10.000	GSS07 - 2M□□□ 160-22	
	130	747	1.2	11.200	GSS07 - 2M□□□ 160-22	
	116	819	1.0	12.594	GSS07 - 2M□□□ 160-22	
	94	1007	0.9	15.500	GSS07 - 2M□□□ 160-22	
	84	1127	0.9	17.360	GSS07 - 2M□□□ 160-22	
15 kW					**GSS □□ - 2M**	**7-63**
n1=1460	249	533	1.0	5.862	GSS07 - 2M□□□ 160-32	
	180	740	0.9	8.125	GSS07 - 2M□□□ 160-32	
	146	912	0.9	10.000	GSS07 - 2M□□□ 160-32	
	130	1023	0.8	11.200	GSS07 - 2M□□□ 160-32	

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 180$ Nm

GSS 04 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
5.639	P_1 M_2 η		2.75 47 0.89	3.74 64 0.89	4.26 73 0.89		1.37 48 0.91	1.87 65 0.91	2.31 80 0.91		0.73 51 0.91	1.25 88 0.91	1.54 108 0.91
7.733	P_1 M_2 η		2.75 65 0.90	3.74 88 0.90	4.57 108 0.90		1.37 66 0.91	1.87 90 0.91	2.31 111 0.91		0.73 70 0.92	1.25 120 0.92	1.54 149 0.92
9.042	P_1 M_2 η		2.75 75 0.89	3.74 102 0.89	4.36 120 0.89		1.37 75 0.88	1.87 102 0.88	2.31 126 0.88		0.73 78 0.87	1.25 134 0.87	1.54 166 0.87
9.897	P_1 M_2 η		2.75 84 0.90	3.74 114 0.90	4.62 141 0.90		1.37 85 0.91	1.87 115 0.91	2.31 142 0.91		0.78 96 0.92	1.21 149 0.92	1.30 161 0.92
10.827	P_1 M_2 η		2.75 92 0.90	3.74 125 0.90	4.39 147 0.90		1.37 93 0.91	1.87 126 0.91	2.31 156 0.91		0.74 100 0.92	1.15 156 0.92	1.20 162 0.92
12.400	P_1 M_2 η		2.75 103 0.89	3.60 135 0.89	3.60 135 0.89		1.37 102 0.88	1.87 139 0.88	2.29 170 0.88		0.73 106 0.87	1.23 180 0.87	1.23 180 0.87
13.810	P_1 M_2 η		2.50 107 0.91	3.72 159 0.91	3.72 159 0.91		1.25 108 0.91	1.87 161 0.91	1.89 163 0.91		0.63 107 0.91	0.94 162 0.91	0.94 162 0.91
15.869	P_1 M_2 η		2.75 132 0.89	3.04 146 0.89	3.04 146 0.89		1.37 130 0.88	1.87 177 0.88	1.90 180 0.88		0.78 145 0.86	0.97 180 0.86	0.97 180 0.86
17.360	P_1 M_2 η		2.75 144 0.89	2.87 150 0.89	2.87 150 0.89		1.37 142 0.88	1.74 180 0.88	1.74 180 0.88		0.74 151 0.86	0.89 180 0.86	0.89 180 0.86
20.417	P_1 M_2 η		2.13 119 0.80	2.13 119 0.80	2.13 119 0.80		1.37 153 0.80	1.38 153 0.80	1.38 153 0.80		0.73 158 0.78	0.83 180 0.78	0.83 180 0.78
22.143	P_1 M_2 η		2.44 162 0.88	2.44 162 0.88	2.44 162 0.88		1.25 164 0.87	1.37 180 0.87	1.37 180 0.87		0.63 160 0.85	0.70 180 0.85	0.70 180 0.85
24.800	P_1 M_2 η		1.93 134 0.82	1.93 134 0.82	1.93 134 0.82		1.24 171 0.81	1.24 171 0.81	1.24 171 0.81		0.67 180 0.79	0.67 180 0.79	0.67 180 0.79
27.125	P_1 M_2 η		2.13 173 0.88	2.13 173 0.88	2.13 173 0.88		1.08 172 0.86	1.13 180 0.86	1.13 180 0.86		0.54 167 0.84	0.58 180 0.84	0.58 180 0.84
31.738	P_1 M_2 η		1.64 146 0.82	1.64 146 0.82	1.64 146 0.82		1.04 180 0.80	1.04 180 0.80	1.04 180 0.80		0.53 180 0.78	0.53 180 0.78	0.53 180 0.78
34.100	P_1 M_2 η	1.29 132 0.88	1.77 180 0.88	1.77 180 0.88		0.65 129 0.86	0.90 179 0.86	0.90 180 0.86		0.32 125 0.83	0.45 174 0.83	0.47 180 0.83	
39.200	P_1 M_2 η		1.41 150 0.80	1.41 150 0.80	1.41 150 0.80		0.86 180 0.78	0.86 180 0.78	0.86 180 0.78		0.45 180 0.75	0.45 180 0.75	0.45 180 0.75

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 180$ Nm

GSS 04 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
43.917	P_1 M_2 η	1.08 141 0.87	1.38 180 0.87	1.38 180 0.87		0.54 138 0.85	0.71 180 0.85	0.71 180 0.85		0.27 133 0.82	0.36 177 0.82	0.37 180 0.82	
50.000	P_1 M_2 η		1.21 163 0.79	1.21 163 0.79	1.21 163 0.79		0.69 180 0.77	0.69 180 0.77	0.69 180 0.77		0.36 180 0.74	0.36 180 0.74	0.36 180 0.74
54.250	P_1 M_2 η		1.17 175 0.81	1.17 175 0.81	1.17 175 0.81		0.62 180 0.79	0.62 180 0.79	0.62 180 0.79		0.32 180 0.75	0.32 180 0.75	0.32 180 0.75
61.250	P_1 M_2 η		1.06 174 0.79	1.06 174 0.79	1.06 174 0.79		0.57 180 0.76	0.57 180 0.76	0.57 180 0.76		0.30 180 0.73	0.30 180 0.73	0.30 180 0.73
68.200	P_1 M_2 η	0.97 180 0.80	0.97 180 0.80	0.97 180 0.80		0.50 180 0.78	0.50 180 0.78	0.50 180 0.78		0.26 180 0.74	0.26 180 0.74	0.26 180 0.74	
77.000	P_1 M_2 η	0.88 180 0.78	0.88 180 0.78	0.88 180 0.78		0.46 180 0.75	0.46 180 0.75	0.46 180 0.75		0.24 180 0.72	0.24 180 0.72	0.24 180 0.72	
87.833	P_1 M_2 η	0.76 180 0.79	0.76 180 0.79	0.76 180 0.79		0.39 180 0.76	0.39 180 0.76	0.39 180 0.76		0.21 180 0.73	0.21 180 0.73	0.21 180 0.73	
99.167	P_1 M_2 η	0.69 180 0.77	0.69 180 0.77	0.69 180 0.77		0.36 180 0.74	0.36 180 0.74	0.36 180 0.74		0.19 180 0.70	0.19 180 0.70	0.19 180 0.70	
111.318	P_1 M_2 η	0.60 180 0.79	0.60 180 0.79			0.32 180 0.75	0.32 180 0.75			0.17 180 0.71	0.17 180 0.71		
125.682	P_1 M_2 η	0.55 180 0.76	0.55 180 0.76			0.29 180 0.73	0.29 180 0.73			0.15 180 0.68	0.15 180 0.68		
139.500	P_1 M_2 η	0.49 180 0.78	0.49 180 0.78			0.26 180 0.74	0.26 180 0.74			0.14 180 0.69	0.14 180 0.69		
157.500	P_1 M_2 η	0.45 180 0.75	0.45 180 0.75			0.24 180 0.71	0.24 180 0.71			0.13 180 0.67	0.13 180 0.67		
183.786	P_1 M_2 η	0.38 180 0.76				0.20 180 0.73				0.10 169 0.67			
207.500	P_1 M_2 η	0.35 180 0.74				0.18 180 0.70				0.10 180 0.64			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 360$ Nm

GSS 05 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	71 100/112	80 71	90 80	100/112	71 80/90	80 71	90 80	100/112	71 80/90	80 80	90 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
5.639	P_1 M_2 η			4.62 80 0.90	7.85 136 0.90			2.31 81 0.91	5.68 199 0.91			1.54 108 0.92	2.84 200 0.92
7.733	P_1 M_2 η			4.62 110 0.91	7.13 170 0.91			2.31 111 0.91	5.54 267 0.91			1.54 149 0.92	2.77 268 0.92
9.042	P_1 M_2 η			4.62 124 0.87	6.00 161 0.87			2.31 126 0.89	4.60 251 0.89			1.54 169 0.89	2.84 311 0.89
9.897	P_1 M_2 η		3.74 115 0.91	4.62 142 0.91	6.63 203 0.91		1.87 116 0.92	2.31 143 0.92	4.39 271 0.92		1.25 149 0.89	1.54 184 0.89	2.19 263 0.89
10.827	P_1 M_2 η	2.75 92 0.91	3.74 126 0.91	4.62 155 0.91	6.45 217 0.91	1.37 93 0.92	1.87 126 0.92	2.31 156 0.92	4.03 272 0.92	0.73 96 0.90	1.25 165 0.90	1.54 204 0.90	2.01 267 0.90
12.400	P_1 M_2 η			4.62 172 0.88	5.86 218 0.88			2.31 173 0.89	3.71 279 0.89			1.54 231 0.89	2.36 354 0.89
13.810	P_1 M_2 η	2.75 118 0.91	3.74 161 0.91	4.62 199 0.91	6.01 258 0.91	1.37 119 0.92	1.87 161 0.92	2.31 199 0.92	3.18 275 0.92	0.77 133 0.91	1.20 207 0.91	1.54 264 0.91	1.59 273 0.91
15.869	P_1 M_2 η		3.74 179 0.88	4.62 221 0.88	4.95 237 0.88		1.87 180 0.89	2.31 222 0.89	3.14 301 0.89		1.25 239 0.89	1.54 296 0.89	1.87 360 0.89
17.360	P_1 M_2 η	2.75 144 0.89	3.74 196 0.89	4.62 242 0.89	4.67 245 0.89	1.37 144 0.89	1.87 196 0.89	2.31 243 0.89	2.96 311 0.89	0.73 153 0.89	1.25 262 0.89	1.54 323 0.89	1.71 360 0.89
20.417	P_1 M_2 η			3.21 175 0.79	3.21 175 0.79			2.26 253 0.81	2.26 253 0.81			1.46 330 0.81	1.46 330 0.81
22.143	P_1 M_2 η	2.75 184 0.89	3.74 250 0.89	3.97 266 0.89	3.97 266 0.89	1.37 184 0.89	1.87 251 0.89	2.31 310 0.89	2.51 337 0.89	0.77 207 0.89	1.20 322 0.89	1.35 360 0.89	1.35 360 0.89
24.800	P_1 M_2 η			3.11 214 0.81	3.11 214 0.81			2.01 280 0.82	2.01 280 0.82			1.29 360 0.82	1.29 360 0.82
27.125	P_1 M_2 η		3.46 284 0.89	3.46 284 0.89	3.46 284 0.89		1.87 307 0.89	2.19 360 0.89	2.19 360 0.89		1.03 337 0.88	1.10 360 0.88	1.10 360 0.88
31.738	P_1 M_2 η		2.65 235 0.82	2.65 235 0.82	2.65 235 0.82		1.71 305 0.82	1.71 305 0.82	1.71 305 0.82		1.01 360 0.82	1.01 360 0.82	1.01 360 0.82
35.306	P_1 M_2 η	2.13 228 0.89	2.90 310 0.89	2.90 310 0.89		1.07 228 0.89	1.66 354 0.89	1.69 360 0.89		0.53 224 0.87	0.83 349 0.87	0.86 360 0.87	
39.200	P_1 M_2 η	2.31 248 0.81	2.31 248 0.81	2.31 248 0.81	2.31 248 0.81	1.37 298 0.81	1.49 323 0.81	1.49 323 0.81	1.49 323 0.81	0.73 315 0.81	0.83 360 0.81	0.83 360 0.81	0.83 360 0.81

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 360$ Nm

GSS 05 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	71 100/112	80 71	90 80	100/112	71 80/90	80 71	90 80	100/112	71 80/90	80 80	90 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
43.917	P_1 M_2 η	1.78 237 0.89	2.51 334 0.89	2.51 334 0.89		0.89 237 0.89	1.36 360 0.89	1.36 360 0.89		0.45 231 0.86	0.69 358 0.86	0.70 360 0.86	
50.000	P_1 M_2 η	1.97 272 0.81	1.97 272 0.81	1.97 272 0.81	1.97 272 0.81	1.28 353 0.81	1.28 353 0.81	1.28 353 0.81	1.28 353 0.81	0.66 360 0.80	0.66 360 0.80	0.66 360 0.80	0.66 360 0.80
54.250	P_1 M_2 η		1.89 288 0.82	1.89 288 0.82	1.89 288 0.82		1.18 360 0.82	1.18 360 0.82	1.18 360 0.82		0.60 360 0.81	0.60 360 0.81	0.60 360 0.81
61.250	P_1 M_2 η		1.74 293 0.81	1.74 293 0.81	1.74 293 0.81		1.06 360 0.81	1.06 360 0.81	1.06 360 0.81		0.54 360 0.79	0.54 360 0.79	0.54 360 0.79
70.611	P_1 M_2 η	1.59 316 0.82	1.59 316 0.82	1.59 316 0.82		0.91 360 0.82	0.91 360 0.82	0.91 360 0.82		0.47 360 0.80	0.47 360 0.80	0.47 360 0.80	
79.722	P_1 M_2 η	1.47 323 0.81	1.47 323 0.81	1.47 323 0.81		0.82 360 0.81	0.82 360 0.81	0.82 360 0.81		0.43 360 0.78	0.43 360 0.78	0.43 360 0.78	
87.833	P_1 M_2 η	1.39 342 0.82	1.39 342 0.82	1.39 342 0.82		0.73 360 0.82	0.73 360 0.82	0.73 360 0.82		0.38 360 0.79	0.38 360 0.79	0.38 360 0.79	
99.167	P_1 M_2 η	1.28 350 0.81	1.28 350 0.81	1.28 350 0.81		0.66 360 0.80	0.66 360 0.80	0.66 360 0.80		0.35 360 0.77	0.35 360 0.77	0.35 360 0.77	
113.667	P_1 M_2 η	1.13 360 0.83	1.13 360 0.83			0.57 360 0.81	0.57 360 0.81			0.30 360 0.77	0.30 360 0.77		
128.333	P_1 M_2 η	1.02 360 0.81	1.02 360 0.81			0.52 360 0.79	0.52 360 0.79			0.28 360 0.75	0.28 360 0.75		
137.950	P_1 M_2 η	0.93 360 0.82	0.93 360 0.82			0.48 360 0.80	0.48 360 0.80			0.26 360 0.75	0.26 360 0.75		
155.750	P_1 M_2 η	0.84 360 0.81	0.84 360 0.81			0.44 360 0.78	0.44 360 0.78			0.23 360 0.73	0.23 360 0.73		
176.313	P_1 M_2 η	0.73 360 0.82				0.38 360 0.79				0.20 352 0.73			
199.063	P_1 M_2 η	0.66 360 0.80				0.35 360 0.77				0.19 360 0.71			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 360$ Nm

GSS 05 - 3 N

Dimensions page 7-83

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**1A**	**□B**	**□C**	**1A**	**□B**	**□C**	**1A**	**□B**	**□C**
i	P_{1perm} [kW] M_{2perm} [Nm]]									
125.476	P_1 M_2 η		0.77 285 0.86	0.77 285 0.86		0.48 339 0.83	0.48 339 0.83		0.24 319 0.78	0.24 319 0.78
153.708	P_1 M_2 η		0.67 302 0.86	0.67 302 0.86		0.41 356 0.82	0.41 356 0.82		0.21 334 0.77	0.21 334 0.77
193.233	P_1 M_2 η	0.58 321 0.85	0.58 321 0.85	0.58 321 0.85	0.34 360 0.80	0.34 360 0.80	0.34 360 0.80	0.18 353 0.75	0.18 353 0.75	0.18 353 0.75
222.133	P_1 M_2 η		0.61 360 0.79	0.61 360 0.79		0.32 360 0.75	0.32 360 0.75		0.17 360 0.68	0.17 360 0.68
250.952	P_1 M_2 η		0.53 360 0.79	0.53 360 0.79		0.28 360 0.75	0.28 360 0.75		0.15 360 0.68	0.15 360 0.68
283.333	P_1 M_2 η		0.48 360 0.77	0.48 360 0.77		0.26 360 0.73	0.26 360 0.73		0.14 360 0.66	0.14 360 0.66
307.417	P_1 M_2 η		0.44 360 0.78	0.44 360 0.78		0.24 360 0.73	0.24 360 0.73		0.13 360 0.66	0.13 360 0.66
347.083	P_1 M_2 η		0.40 360 0.76	0.40 360 0.76		0.22 360 0.71	0.22 360 0.71		0.12 360 0.64	0.12 360 0.64
386.467	P_1 M_2 η	0.36 360 0.77	0.36 360 0.77	0.36 360 0.77	0.19 360 0.71	0.19 360 0.71	0.19 360 0.71	0.11 360 0.64	0.11 360 0.64	0.11 360 0.64
436.333	P_1 M_2 η	0.32 360 0.75	0.32 360 0.75	0.32 360 0.75	0.18 360 0.69	0.18 360 0.69	0.18 360 0.69	0.10 360 0.62	0.10 360 0.62	0.10 360 0.62
497.722	P_1 M_2 η	0.28 360 0.75	0.28 360 0.75	0.28 360 0.75	0.16 360 0.68	0.16 360 0.68	0.16 360 0.68	0.09 360 0.62	0.09 360 0.62	0.09 360 0.62
561.945	P_1 M_2 η	0.26 360 0.73	0.26 360 0.73	0.26 360 0.73	0.14 360 0.66	0.14 360 0.66	0.14 360 0.66	0.08 360 0.60	0.08 360 0.60	0.08 360 0.60
630.803	P_1 M_2 η	0.23 360 0.73	0.23 360 0.73		0.13 360 0.66	0.13 360 0.66		0.07 360 0.60	0.07 360 0.60	
712.197	P_1 M_2 η	0.21 360 0.71	0.21 360 0.71		0.12 360 0.64	0.12 360 0.64		0.06 360 0.58	0.06 360 0.58	
790.500	P_1 M_2 η	0.19 360 0.71	0.19 360 0.71		0.10 360 0.64	0.10 360 0.64		0.06 360 0.58	0.06 360 0.58	
892.500	P_1 M_2 η	0.17 360 0.68	0.17 360 0.68		0.10 360 0.62	0.10 360 0.62		0.05 360 0.55	0.05 360 0.55	

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 360$ Nm

GSS 05 - 3 N

Dimensions page 7-83

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71
For the geometrical assignment of servo/DC motors see section 2										
Drive size		**1A**	**□B**	**□C**	**1A**	**□B**	**□C**	**1A**	**□B**	**□C**
i	P_{1perm} [kW] M_{2perm} [Nm]									
1041.452	P_1 M_2 η	0.15 360 0.68			0.08 360 0.61			0.05 360 0.55		
1175.833	P_1 M_2 η	0.14 360 0.66			0.08 360 0.59			0.04 360 0.53		

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 720$ Nm

GSS 06 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
5.833	P_1 M_2 η				10.5 190 0.91	10.5 190 0.91				6.60 241 0.92	6.60 241 0.92				4.40 323 0.92	4.40 323 0.92
8.000	P_1 M_2 η				10.7 267 0.91	10.7 267 0.91				6.60 331 0.92	6.60 331 0.92				4.40 443 0.92	4.40 443 0.92
9.042	P_1 M_2 η				9.17 254 0.90	9.17 254 0.90				6.60 365 0.90	6.60 365 0.90				4.40 484 0.89	4.40 484 0.89
10.238	P_1 M_2 η			4.62 148 0.92	10.2 326 0.92	10.2 326 0.92			2.31 149 0.92	6.60 424 0.92	6.60 424 0.92			1.54 193 0.90	4.01 504 0.90	4.06 510 0.90
11.200	P_1 M_2 η			4.62 162 0.92	9.90 347 0.92	9.90 347 0.92			2.31 163 0.92	6.60 464 0.92	6.60 464 0.92			1.54 214 0.91	3.72 517 0.91	3.72 517 0.91
12.400	P_1 M_2 η				8.37 318 0.90	8.37 318 0.90				6.60 500 0.90	6.60 500 0.90				4.40 659 0.89	4.40 659 0.89
14.286	P_1 M_2 η		3.74 167 0.92	4.62 207 0.92	10.2 456 0.92	10.2 456 0.92		1.87 168 0.92	2.31 208 0.92	5.88 528 0.92	5.88 528 0.92		1.25 223 0.92	1.54 276 0.92	2.94 527 0.92	2.94 527 0.92
15.869	P_1 M_2 η			4.62 225 0.90	7.81 380 0.90	7.81 380 0.90			2.31 223 0.89	6.26 605 0.89	6.26 605 0.89			1.54 294 0.88	3.77 720 0.88	3.77 720 0.88
17.360	P_1 M_2 η			4.62 246 0.90	7.62 405 0.90	7.62 405 0.90			2.31 244 0.89	5.90 624 0.89	5.90 624 0.89			1.54 321 0.88	3.45 720 0.88	3.45 720 0.88
20.417	P_1 M_2 η				5.17 299 0.83	5.17 299 0.83				4.23 488 0.83	4.23 488 0.83				2.86 650 0.82	2.86 650 0.82
22.143	P_1 M_2 η		3.74 253 0.90	4.62 313 0.90	7.12 482 0.90	7.12 482 0.90		1.87 251 0.89	2.31 310 0.89	5.02 673 0.89	5.02 673 0.89		1.25 329 0.87	1.54 406 0.87	2.73 720 0.87	2.73 720 0.87
24.800	P_1 M_2 η				4.92 350 0.84	4.92 350 0.84				3.98 561 0.83	3.98 561 0.83				2.58 715 0.82	2.58 715 0.82
27.125	P_1 M_2 η			4.62 382 0.90	6.74 558 0.90	6.74 558 0.90			2.31 378 0.89	4.38 718 0.89	4.38 718 0.89			1.54 494 0.87	2.24 720 0.87	2.24 720 0.87
31.738	P_1 M_2 η			4.60 418 0.84	4.60 418 0.84	4.60 418 0.84			2.31 414 0.83	3.40 609 0.83	3.40 609 0.83			1.54 541 0.81	2.05 720 0.81	2.05 720 0.81
35.306	P_1 M_2 η		3.74 402 0.89	4.62 496 0.89	5.79 622 0.89			1.87 396 0.88	2.31 489 0.88	3.40 720 0.88			1.02 423 0.86	1.36 563 0.86	1.74 720 0.86	
39.200	P_1 M_2 η			4.28 474 0.83	4.28 474 0.83	4.28 474 0.83			2.31 505 0.82	2.91 637 0.82	2.91 637 0.82			1.54 657 0.80	1.69 720 0.80	1.69 720 0.80

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 720$ Nm

GSS 06 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}					1400 min^{-1}					700 min^{-1}				
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90
For the geometrical assignment of servo/DC motors see section 2																
Drive size		**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**	**1B**	**□C**	**□D**	**□E**	**□F**
i	P_{1perm} [kW] M_{2perm} [Nm]															
43.917	P_1 M_2 η		3.42 455 0.89	4.55 605 0.89	5.01 666 0.89			1.71 448 0.87	2.27 595 0.87	2.75 720 0.87			0.86 436 0.85	1.14 580 0.85	1.41 720 0.85	
50.000	P_1 M_2 η		3.74 527 0.83	3.86 544 0.83	3.86 544 0.83	3.86 544 0.83		1.87 519 0.81	2.31 641 0.81	2.50 693 0.81	2.50 693 0.81		1.25 669 0.79	1.34 720 0.79	1.34 720 0.79	1.34 720 0.79
54.250	P_1 M_2 η			3.74 576 0.83	3.74 576 0.83	3.74 576 0.83			2.31 699 0.82	2.38 720 0.82	2.38 720 0.82			1.23 720 0.79	1.23 720 0.79	1.23 720 0.79
61.250	P_1 M_2 η			3.39 584 0.82	3.39 584 0.82	3.39 584 0.82			2.13 720 0.81	2.13 720 0.81	2.13 720 0.81			1.11 720 0.78	1.11 720 0.78	1.11 720 0.78
70.611	P_1 M_2 η		3.16 630 0.83	3.16 630 0.83	3.16 630 0.83			1.85 720 0.81	1.85 720 0.81	1.85 720 0.81			0.96 720 0.78	0.96 720 0.78	0.96 720 0.78	
79.722	P_1 M_2 η		2.87 638 0.82	2.87 638 0.82	2.87 638 0.82			1.66 720 0.80	1.66 720 0.80	1.66 720 0.80			0.86 720 0.77	0.86 720 0.77	0.86 720 0.77	
87.833	P_1 M_2 η		2.76 680 0.82	2.76 680 0.82	2.76 680 0.82			1.50 720 0.80	1.50 720 0.80	1.50 720 0.80			0.78 720 0.77	0.78 720 0.77	0.78 720 0.77	
99.167	P_1 M_2 η		2.50 688 0.81	2.50 688 0.81	2.50 688 0.81			1.35 720 0.79	1.35 720 0.79	1.35 720 0.79			0.71 720 0.76	0.71 720 0.76	0.71 720 0.76	
113.667	P_1 M_2 η	1.76 558 0.82	2.28 720 0.82	2.28 720 0.82			0.88 538 0.79	1.18 720 0.79	1.18 720 0.79			0.44 517 0.76	0.61 720 0.76	0.61 720 0.76		
128.333	P_1 M_2 η	1.76 622 0.81	2.04 720 0.81	2.04 720 0.81			0.88 598 0.78	1.06 720 0.78	1.06 720 0.78			0.44 573 0.74	0.55 720 0.74	0.55 720 0.74		
137.950	P_1 M_2 η	1.47 560 0.81	1.89 720 0.81	1.89 720 0.81			0.74 540 0.78	0.98 720 0.78	0.98 720 0.78			0.37 517 0.75	0.51 720 0.75	0.51 720 0.75		
155.750	P_1 M_2 η	1.47 624 0.80	1.70 720 0.80	1.70 720 0.80			0.74 600 0.77	0.88 720 0.77	0.88 720 0.77			0.37 572 0.73	0.46 720 0.73	0.46 720 0.73		
174.375	P_1 M_2 η	1.18 561 0.80	1.52 720 0.80				0.59 538 0.77	0.79 720 0.77				0.30 513 0.73	0.41 720 0.73			
196.875	P_1 M_2 η	1.18 624 0.79	1.36 720 0.79				0.59 598 0.76	0.71 720 0.76				0.30 566 0.72	0.38 720 0.72			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 720$ Nm

GSS 06 - 3 N

Dimensions page 7-83

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
126.531	P_1 M_2 η		2.15 720 0.78	2.15 720 0.78	2.15 720 0.78		1.12 720 0.75	1.12 720 0.75	1.12 720 0.75		0.58 720 0.72	0.58 720 0.72	0.58 720 0.72
142.857	P_1 M_2 η		1.93 720 0.77	1.93 720 0.77	1.93 720 0.77		1.01 720 0.73	1.01 720 0.73	1.01 720 0.73		0.53 720 0.70	0.53 720 0.70	0.53 720 0.70
155.000	P_1 M_2 η		1.77 720 0.77	1.77 720 0.77	1.77 720 0.77		0.92 720 0.74	0.92 720 0.74	0.92 720 0.74		0.48 720 0.71	0.48 720 0.71	0.48 720 0.71
175.000	P_1 M_2 η		1.59 720 0.76	1.59 720 0.76	1.59 720 0.76		0.83 720 0.73	0.83 720 0.73	0.83 720 0.73		0.44 720 0.69	0.44 720 0.69	0.44 720 0.69
194.857	P_1 M_2 η	1.29 652 0.76	1.43 720 0.76	1.43 720 0.76		0.65 626 0.73	0.74 720 0.73	0.74 720 0.73		0.32 593 0.69	0.39 720 0.69	0.39 720 0.69	
220.000	P_1 M_2 η	1.28 720 0.75	1.28 720 0.75	1.28 720 0.75		0.65 697 0.72	0.67 720 0.72	0.67 720 0.72		0.32 653 0.67	0.36 720 0.67	0.36 720 0.67	
238.700	P_1 M_2 η	1.18 720 0.75	1.18 720 0.75	1.18 720 0.75		0.61 720 0.72	0.61 720 0.72	0.61 720 0.72		0.32 711 0.68	0.33 720 0.68	0.33 720 0.68	
269.500	P_1 M_2 η	1.06 720 0.74	1.06 720 0.74	1.06 720 0.74		0.55 720 0.71	0.55 720 0.71	0.55 720 0.71		0.30 720 0.66	0.30 720 0.66	0.30 720 0.66	
310.689	P_1 M_2 η	0.92 720 0.74	0.92 720 0.74	0.92 720 0.74		0.48 720 0.71	0.48 720 0.71	0.48 720 0.71		0.26 720 0.66	0.26 720 0.66	0.26 720 0.66	
350.778	P_1 M_2 η	0.83 720 0.73	0.83 720 0.73	0.83 720 0.73		0.44 720 0.69	0.44 720 0.69	0.44 720 0.69		0.24 720 0.64	0.24 720 0.64	0.24 720 0.64	
386.467	P_1 M_2 η	0.75 720 0.73	0.75 720 0.73	0.75 720 0.73		0.40 720 0.69	0.40 720 0.69	0.40 720 0.69		0.21 720 0.64	0.21 720 0.64	0.21 720 0.64	
436.333	P_1 M_2 η	0.67 720 0.72	0.67 720 0.72	0.67 720 0.72		0.36 720 0.67	0.36 720 0.67	0.36 720 0.67		0.19 720 0.63	0.19 720 0.63	0.19 720 0.63	
497.722	P_1 M_2 η	0.59 720 0.72	0.59 720 0.72	0.59 720 0.72		0.32 720 0.67	0.32 720 0.67	0.32 720 0.67		0.17 720 0.63	0.17 720 0.63	0.17 720 0.63	
561.945	P_1 M_2 η	0.53 720 0.71	0.53 720 0.71	0.53 720 0.71		0.29 720 0.66	0.29 720 0.66	0.29 720 0.66		0.15 720 0.62	0.15 720 0.62	0.15 720 0.62	
630.803	P_1 M_2 η	0.48 720 0.71	0.48 720 0.71			0.26 720 0.66	0.26 720 0.66			0.14 720 0.62	0.14 720 0.62		
712.197	P_1 M_2 η	0.43 720 0.69	0.43 720 0.69			0.23 720 0.64	0.23 720 0.64			0.12 720 0.60	0.12 720 0.60		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 720$ Nm

GSS 06 - 3 N

Dimensions page 7-83

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**	**1A**	**□B**	**□C**	**□D**
i	P_{1perm} [kW] M_{2perm} [Nm]												
816.333	P_1 M_2 η	0.38 720 0.69	0.38 720 0.69			0.20 720 0.64	0.20 720 0.64			0.11 720 0.61	0.11 720 0.61		
921.667	P_1 M_2 η	0.34 720 0.67	0.34 720 0.67			0.18 720 0.63	0.18 720 0.63			0.10 720 0.60	0.10 720 0.60		
1023.000	P_1 M_2 η	0.31 720 0.67	0.31 720 0.67			0.17 720 0.63	0.17 720 0.63			0.09 720 0.60	0.09 720 0.60		
1155.000	P_1 M_2 η	0.28 720 0.65	0.28 720 0.65			0.15 720 0.61	0.15 720 0.61			0.08 720 0.59	0.08 720 0.59		
1241.550	P_1 M_2 η	0.26 720 0.66	0.26 720 0.66			0.14 720 0.62	0.14 720 0.62			0.07 720 0.59	0.07 720 0.59		
1401.750	P_1 M_2 η	0.24 720 0.64	0.24 720 0.64			0.12 720 0.61	0.12 720 0.61			0.07 720 0.58	0.07 720 0.58		
1635.693	P_1 M_2 η	0.20 720 0.64				0.11 720 0.61				0.06 720 0.59			
1846.750	P_1 M_2 η	0.18 720 0.63				0.10 720 0.60				0.05 720 0.58			

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 1250$ Nm

GSS 07 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**	**□C**	**□D**	**□E**	**□F**	**□G**	**□H**
i	P_{1perm} [kW] M_{2perm} [Nm]																		
5.862	P_1				13.2	17.6	17.6				6.60	14.6	14.6				4.40	11.2	12.1
	M_2				243	324	324				244	539	539				327	830	896
	η				0.92	0.92	0.92				0.93	0.93	0.93				0.93	0.93	0.93
8.125	P_1				13.2	16.1	16.1				6.60	13.3	13.3				4.40	10.5	10.5
	M_2				338	412	412				339	685	685				453	1079	1079
	η				0.92	0.92	0.92				0.93	0.93	0.93				0.93	0.93	0.93
9.086	P_1				13.2	14.7	14.7				6.60	11.2	11.2				4.40	9.38	9.38
	M_2				370	412	412				370	628	628				491	1047	1047
	η				0.90	0.90	0.90				0.90	0.90	0.90				0.90	0.90	0.90
10.000	P_1			13.2	13.2	15.2	15.2			6.60	6.60	12.6	12.6			4.40	4.40	8.58	8.58
	M_2			416	416	480	480			418	418	797	797			547	547	1067	1067
	η			0.93	0.93	0.93	0.93			0.93	0.93	0.93	0.93			0.91	0.91	0.91	0.91
11.200	P_1			13.2	13.2	14.7	14.7			6.60	6.60	12.2	12.2			4.40	4.40	7.70	7.70
	M_2			467	467	521	521			468	468	866	866			618	618	1083	1083
	η			0.93	0.93	0.93	0.93			0.93	0.93	0.93	0.93			0.92	0.92	0.92	0.92
12.594	P_1				12.6	12.6	12.6				6.60	10.3	10.3				4.40	8.12	8.12
	M_2				490	490	490				512	799	799				677	1250	1250
	η				0.91	0.91	0.91				0.90	0.90	0.90				0.90	0.90	0.90
14.286	P_1		4.62	13.2	13.2	13.8			2.31	6.60	6.60	11.4			1.54	3.97	4.15	6.07	
	M_2		209	596	596	623			209	598	598	1036			279	718	751	1099	
	η		0.93	0.93	0.93	0.93			0.93	0.93	0.93	0.93			0.93	0.93	0.93	0.93	
15.500	P_1			11.7	11.7	11.7	11.7			6.60	6.60	9.76	9.76			4.40	4.40	6.61	6.61
	M_2			559	559	559	559			629	629	931	931			831	831	1250	1250
	η			0.91	0.91	0.91	0.91			0.90	0.90	0.90	0.90			0.89	0.89	0.89	0.89
17.360	P_1			11.3	11.3	11.3	11.3			6.60	6.60	9.48	9.48			4.40	4.40	5.92	5.92
	M_2			607	607	607	607			704	704	1012	1012			929	929	1250	1250
	η			0.90	0.90	0.90	0.90			0.90	0.90	0.90	0.90			0.89	0.89	0.89	0.89
20.517	P_1				8.47	8.47	8.47				6.46	6.46	6.46				4.40	5.12	5.12
	M_2				500	500	500				764	764	764				1032	1201	1201
	η				0.84	0.84	0.84				0.85	0.85	0.85				0.84	0.84	0.84
22.143	P_1		4.62	10.7	10.7	10.7			2.31	6.60	6.60	8.93			1.54	3.97	4.15	4.67	
	M_2		315	727	727	727			313	894	894	1211			412	1062	1112	1250	
	η		0.90	0.90	0.90	0.90			0.90	0.90	0.90	0.90			0.89	0.89	0.89	0.89	
25.188	P_1				7.64	7.64	7.64				6.25	6.25	6.25				4.33	4.33	4.33
	M_2				559	559	559				913	913	913				1250	1250	1250
	η				0.85	0.85	0.85				0.85	0.85	0.85				0.84	0.84	0.84
27.125	P_1			10.1	10.1	10.1				6.60	6.60	7.54				3.41	3.58	3.83	
	M_2			844	844	844				1093	1093	1250				1113	1168	1250	
	η			0.90	0.90	0.90				0.90	0.90	0.90				0.88	0.88	0.88	
31.000	P_1			7.07	7.07	7.07	7.07			5.94	5.94	5.94	5.94			3.54	3.54	3.54	3.54
	M_2			637	637	637	637			1065	1065	1065	1065			1250	1250	1250	1250
	η			0.85	0.85	0.85	0.85			0.85	0.85	0.85	0.85			0.84	0.84	0.84	0.84
35.306	P_1		4.62	9.45	9.45				2.31	5.49	5.75				1.54	2.75	2.88		
	M_2		501	1025	1025				496	1179	1235				648	1156	1212		
	η		0.90	0.90	0.90				0.89	0.89	0.89				0.87	0.87	0.87		
39.200	P_1			6.54	6.54	6.54	6.54			5.24	5.24	5.24	5.24			2.84	2.84	2.84	2.84
	M_2			739	739	739	739			1175	1175	1175	1175			1250	1250	1250	1250
	η			0.85	0.85	0.85	0.85			0.84	0.84	0.84	0.84			0.82	0.82	0.82	0.82

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 1250$ Nm

GSS 07 - 2 N

Dimensions page 7-79

n_1		2800 min^{-1}						1400 min^{-1}						700 min^{-1}					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment of servo/DC motors see section 2																			
Drive size		□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H
i	P_{1perm} [kW] M_{2perm} [Nm]																		
43.271	P_1		4.62	8.98	8.98				2.31	4.70	4.77				1.43	2.35	2.44		
	M_2		612	1190	1190				605	1231	1250				734	1207	1250		
	η		0.90	0.90	0.90				0.89	0.89	0.89				0.87	0.87	0.87		
50.000	P_1		4.62	6.14	6.14	6.14			2.31	4.39	4.39	4.39			1.54	2.25	2.25	2.25	
	M_2		664	882	882	882			657	1250	1250	1250			855	1250	1250	1250	
	η		0.84	0.84	0.84	0.84			0.84	0.84	0.84	0.84			0.81	0.81	0.81	0.81	
54.250	P_1			6.14	6.14	6.14				4.03	4.03	4.03				2.07	2.07	2.07	
	M_2			965	965	965				1250	1250	1250				1250	1250	1250	
	η			0.85	0.85	0.85				0.84	0.84	0.84				0.82	0.82	0.82	
61.250	P_1			5.82	5.82	5.82				3.60	3.60	3.60				1.86	1.86	1.86	
	M_2			1023	1023	1023				1250	1250	1250				1250	1250	1250	
	η			0.84	0.84	0.84				0.83	0.83	0.83				0.81	0.81	0.81	
70.611	P_1		4.62	5.69	5.69				2.31	3.12	3.12				1.54	1.60	1.60		
	M_2		943	1161	1161				924	1250	1250				1201	1250	1250		
	η		0.85	0.85	0.85				0.83	0.83	0.83				0.81	0.81	0.81		
79.722	P_1		4.62	5.16	5.16				2.31	2.79	2.79				1.44	1.44	1.44		
	M_2		1053	1177	1177				1033	1250	1250				1250	1250	1250		
	η		0.84	0.84	0.84				0.82	0.82	0.82				0.80	0.80	0.80		
86.542	P_1		4.62	5.01	5.01				2.31	2.57	2.57				1.32	1.32	1.32		
	M_2		1151	1248	1248				1124	1250	1250				1250	1250	1250		
	η		0.84	0.84	0.84				0.82	0.82	0.82				0.80	0.80	0.80		
97.708	P_1		4.49	4.49	4.49				2.30	2.30	2.30				1.19	1.19	1.19		
	M_2		1250	1250	1250				1250	1250	1250				1250	1250	1250		
	η		0.84	0.84	0.84				0.82	0.82	0.82				0.79	0.79	0.79		
113.667	P_1	3.37	3.85	3.85				1.69	1.98	1.98				0.84	1.03	1.03			
	M_2	1094	1250	1250				1066	1250	1250				1026	1250	1250			
	η	0.84	0.84	0.84				0.82	0.82	0.82				0.79	0.79	0.79			
128.333	P_1	3.37	3.44	3.44				1.69	1.78	1.78				0.84	0.92	0.92			
	M_2	1223	1250	1250				1186	1250	1250				1140	1250	1250			
	η	0.83	0.83	0.83				0.80	0.80	0.80				0.77	0.77	0.77			
137.950	P_1	2.81	3.19	3.19				1.41	1.64	1.64				0.70	0.85	0.85			
	M_2	1101	1250	1250				1072	1250	1250				1030	1250	1250			
	η	0.83	0.83	0.83				0.81	0.81	0.81				0.78	0.78	0.78			
155.750	P_1	2.81	2.86	2.86				1.41	1.48	1.48				0.70	0.77	0.77			
	M_2	1231	1250	1250				1190	1250	1250				1142	1250	1250			
	η	0.82	0.82	0.82				0.80	0.80	0.80				0.76	0.76	0.76			
174.375	P_1	2.26	2.55					1.13	1.32					0.56	0.69				
	M_2	1106	1250					1072	1250					1028	1250				
	η	0.82	0.82					0.80	0.80					0.77	0.77				
196.875	P_1	2.26	2.28					1.13	1.18					0.56	0.62				
	M_2	1235	1250					1193	1250					1139	1250				
	η	0.82	0.82					0.79	0.79					0.75	0.75				

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 1250$ Nm

GSS 07 - 3 N

Dimensions page 7-83

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	71 100/112	80 71	90 80	100/112	71 80/90	80 71	90 80	100/112	71 80/90	80 80	90 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
126.531	P_1 M_2 η	2.75 946 0.80	3.63 1250 0.80	3.63 1250 0.80	3.63 1250 0.80	1.37 921 0.78	1.87 1250 0.78	1.87 1250 0.78	1.87 1250 0.78	0.77 996 0.75	0.97 1250 0.75	0.97 1250 0.75	0.97 1250 0.75
142.857	P_1 M_2 η	2.75 1058 0.79	3.25 1250 0.79	3.25 1250 0.79	3.25 1250 0.79	1.37 1023 0.76	1.68 1250 0.76	1.68 1250 0.76	1.68 1250 0.76	0.77 1105 0.73	0.87 1250 0.73	0.87 1250 0.73	0.87 1250 0.73
155.000	P_1 M_2 η	2.75 1150 0.79	2.99 1250 0.79	2.99 1250 0.79	2.99 1250 0.79	1.37 1121 0.77	1.53 1250 0.77	1.53 1250 0.77	1.53 1250 0.77	0.77 1206 0.74	0.80 1250 0.74	0.80 1250 0.74	0.80 1250 0.74
175.000	P_1 M_2 η	2.67 1250 0.78	2.67 1250 0.78	2.67 1250 0.78	2.67 1250 0.78	1.37 1240 0.76	1.39 1250 0.76	1.39 1250 0.76	1.39 1250 0.76	0.72 1250 0.73	0.72 1250 0.73	0.72 1250 0.73	0.72 1250 0.73
201.746	P_1 M_2 η	2.13 1150 0.78	2.32 1250 0.78	2.32 1250 0.78		1.07 1109 0.76	1.20 1250 0.76	1.20 1250 0.76		0.53 1063 0.72	0.63 1250 0.72	0.63 1250 0.72	
227.778	P_1 M_2 η	2.08 1250 0.77	2.08 1250 0.77	2.08 1250 0.77		1.07 1232 0.74	1.08 1250 0.74	1.08 1250 0.74		0.53 1176 0.71	0.57 1250 0.71	0.57 1250 0.71	
247.139	P_1 M_2 η	1.91 1250 0.78	1.91 1250 0.78	1.91 1250 0.78		0.99 1250 0.75	0.99 1250 0.75	0.99 1250 0.75		0.52 1250 0.71	0.52 1250 0.71	0.52 1250 0.71	
279.028	P_1 M_2 η	1.72 1250 0.77	1.72 1250 0.77	1.72 1250 0.77		0.89 1250 0.74	0.89 1250 0.74	0.89 1250 0.74		0.47 1250 0.70	0.47 1250 0.70	0.47 1250 0.70	
321.673	P_1 M_2 η	1.48 1250 0.77	1.48 1250 0.77	1.48 1250 0.77		0.77 1250 0.74	0.77 1250 0.74	0.77 1250 0.74		0.41 1250 0.69	0.41 1250 0.69	0.41 1250 0.69	
363.179	P_1 M_2 η	1.34 1250 0.75	1.34 1250 0.75	1.34 1250 0.75		0.70 1250 0.72	0.70 1250 0.72	0.70 1250 0.72		0.37 1250 0.68	0.37 1250 0.68	0.37 1250 0.68	
394.245	P_1 M_2 η	1.23 1250 0.76	1.23 1250 0.76	1.23 1250 0.76		0.64 1250 0.73	0.64 1250 0.73	0.64 1250 0.73		0.34 1250 0.68	0.34 1250 0.68	0.34 1250 0.68	
445.116	P_1 M_2 η	1.11 1250 0.75	1.11 1250 0.75	1.11 1250 0.75		0.58 1250 0.71	0.58 1250 0.71	0.58 1250 0.71		0.31 1250 0.66	0.31 1250 0.66	0.31 1250 0.66	
490.403	P_1 M_2 η	1.00 1250 0.75	1.00 1250 0.75	1.00 1250 0.75		0.53 1250 0.71	0.53 1250 0.71	0.53 1250 0.71		0.28 1250 0.67	0.28 1250 0.67	0.28 1250 0.67	
553.681	P_1 M_2 η	0.90 1250 0.74	0.90 1250 0.74	0.90 1250 0.74		0.48 1250 0.70	0.48 1250 0.70	0.48 1250 0.70		0.25 1250 0.65	0.25 1250 0.65	0.25 1250 0.65	
634.639	P_1 M_2 η	0.78 1250 0.74	0.78 1250 0.74			0.42 1250 0.69	0.42 1250 0.69			0.22 1250 0.65	0.22 1250 0.65		
716.528	P_1 M_2 η	0.71 1250 0.72	0.71 1250 0.72			0.38 1250 0.68	0.38 1250 0.68			0.20 1250 0.64	0.20 1250 0.64		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 1250$ Nm

GSS 07 - 3 N

Dimensions page 7-83

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
IEC connection		71	71 100/112	80 71	90 80	100/112	71 80/90	80 71	90 80	100/112	71 80/90	80 80	90 80/90
For the geometrical assignment of servo/DC motors see section 2													
Drive size		**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**	**1B**	**□C**	**□D**	**□E**
i	P_{1perm} [kW] M_{2perm} [Nm]												
833.556	P_1 M_2 η	0.61 1250 0.72	0.61 1250 0.72			0.33 1250 0.68	0.33 1250 0.68			0.17 1250 0.64	0.17 1250 0.64		
941.111	P_1 M_2 η	0.55 1250 0.71	0.55 1250 0.71			0.30 1250 0.66	0.30 1250 0.66			0.16 1250 0.62	0.16 1250 0.62		
1011.633	P_1 M_2 η	0.51 1250 0.71	0.51 1250 0.71			0.27 1250 0.66	0.27 1250 0.66			0.14 1250 0.63	0.14 1250 0.63		
1142.167	P_1 M_2 η	0.46 1250 0.70	0.46 1250 0.70			0.25 1250 0.65	0.25 1250 0.65			0.13 1250 0.62	0.13 1250 0.62		
1227.755	P_1 M_2 η	0.43 1250 0.70	0.43 1250 0.70			0.23 1250 0.65	0.23 1250 0.65			0.12 1250 0.62	0.12 1250 0.62		
1386.175	P_1 M_2 η	0.39 1250 0.68	0.39 1250 0.68			0.21 1250 0.64	0.21 1250 0.64			0.11 1250 0.61	0.11 1250 0.61		
1569.181	P_1 M_2 η	0.34 1250 0.68				0.18 1250 0.64				0.10 1250 0.62			
1771.656	P_1 M_2 η	0.31 1250 0.67				0.17 1250 0.63				0.09 1250 0.60			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 180$ Nm

GSS 04 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
5.639	P_1		2.90	4.26		1.45	2.39		0.73	1.20
	M_2		50	73		51	83		51	84
	η		0.89	0.89		0.91	0.91		0.91	0.91
7.733	P_1		2.90	4.57		1.45	2.39		0.73	1.20
	M_2		69	108		70	115		70	115
	η		0.90	0.90		0.91	0.91		0.92	0.92
9.042	P_1		2.90	4.36		1.45	2.39		0.73	1.20
	M_2		80	120		79	130		78	129
	η		0.89	0.89		0.88	0.88		0.87	0.87
9.897	P_1		3.34	4.03		1.67	2.01		0.83	1.01
	M_2		102	123		103	124		103	124
	η		0.90	0.90		0.91	0.91		0.92	0.92
10.827	P_1		3.30	3.84		1.65	1.92		0.83	0.96
	M_2		110	128		111	130		111	130
	η		0.90	0.90		0.91	0.91		0.92	0.92
12.400	P_1		2.90	3.60		1.45	2.29		0.73	1.20
	M_2		109	135		108	170		106	175
	η		0.89	0.89		0.88	0.88		0.87	0.87
13.810	P_1		2.80	3.24		1.40	1.62		0.70	0.81
	M_2		120	139		121	140		120	139
	η		0.91	0.91		0.91	0.91		0.91	0.91
15.869	P_1		3.04	3.04		1.67	1.90		0.83	0.97
	M_2		146	146		158	180		155	180
	η		0.89	0.89		0.88	0.88		0.86	0.86
17.360	P_1		2.87	2.87		1.65	1.74		0.83	0.89
	M_2		150	150		171	180		168	180
	η		0.89	0.89		0.88	0.88		0.86	0.86
20.417	P_1		2.13	2.13		1.38	1.38		0.73	0.83
	M_2		119	119		153	153		158	180
	η		0.80	0.80		0.80	0.80		0.78	0.78
22.143	P_1		2.44	2.44		1.37	1.37		0.70	0.70
	M_2		162	162		180	180		180	180
	η		0.88	0.88		0.87	0.87		0.85	0.85
24.800	P_1		1.93	1.93		1.24	1.24		0.67	0.67
	M_2		134	134		171	171		180	180
	η		0.82	0.82		0.81	0.81		0.79	0.79
27.125	P_1		2.13	2.13		1.13	1.13		0.58	0.58
	M_2		173	173		180	180		180	180
	η		0.88	0.88		0.86	0.86		0.84	0.84
31.738	P_1		1.64	1.64		1.04	1.04		0.53	0.53
	M_2		146	146		180	180		180	180
	η		0.82	0.82		0.80	0.80		0.78	0.78
34.100	P_1	1.29	1.77	1.77	0.65	0.90	0.90	0.32	0.47	0.47
	M_2	132	180	180	129	180	180	125	180	180
	η	0.88	0.88	0.88	0.86	0.86	0.86	0.83	0.83	0.83
39.200	P_1		1.41	1.41		0.86	0.86		0.45	0.45
	M_2		150	150		180	180		180	180
	η		0.80	0.80		0.78	0.78		0.75	0.75
43.917	P_1	1.08	1.38	1.38	0.54	0.71	0.71	0.27	0.37	0.37
	M_2	141	180	180	138	180	180	133	180	180
	η	0.87	0.87	0.87	0.85	0.85	0.85	0.82	0.82	0.82
50.000	P_1		1.21	1.21		0.69	0.69		0.36	0.36
	M_2		163	163		180	180		180	180
	η		0.79	0.79		0.77	0.77		0.74	0.74

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 180$ Nm

GSS 04 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
54.250	P_1		1.17	1.17		0.62	0.62		0.32	0.32
	M_2		175	175		180	180		180	180
			0.81	0.81		0.79	0.79		0.75	0.75
61.250	P_1		1.06	1.06		0.57	0.57		0.30	0.30
	M_2		174	174		180	180		180	180
	η		0.79	0.79		0.76	0.76		0.73	0.73
68.200	P_1	0.97	0.97	0.97	0.50	0.50	0.50	0.26	0.26	0.26
	M_2	180	180	180	180	180	180	180	180	180
	η	0.80	0.80	0.80	0.78	0.78	0.78	0.74	0.74	0.74
77.000	P_1	0.88	0.88	0.88	0.46	0.46	0.46	0.24	0.24	0.24
	M_2	180	180	180	180	180	180	180	180	180
	η	0.78	0.78	0.78	0.75	0.75	0.75	0.72	0.72	0.72
87.833	P_1	0.76	0.76	0.76	0.39	0.39	0.39	0.21	0.21	0.21
	M_2	180	180	180	180	180	180	180	180	180
	η	0.79	0.79	0.79	0.76	0.76	0.76	0.73	0.73	0.73
99.167	P_1	0.69	0.69	0.69	0.36	0.36	0.36	0.19	0.19	0.19
	M_2	180	180	180	180	180	180	180	180	180
	η	0.77	0.77	0.77	0.74	0.74	0.74	0.70	0.70	0.70
111.318	P_1	0.60	0.60		0.32	0.32		0.17	0.17	
	M_2	180	180		180	180		180	180	
	η	0.79	0.79		0.75	0.75		0.71	0.71	
125.682	P_1	0.55	0.55		0.29	0.29		0.15	0.15	
	M_2	180	180		180	180		180	180	
	η	0.76	0.76		0.73	0.73		0.68	0.68	
139.500	P_1	0.49	0.49		0.26	0.26		0.14	0.14	
	M_2	180	180		180	180		180	180	
	η	0.78	0.78		0.74	0.74		0.69	0.69	
157.500	P_1	0.45	0.45		0.24	0.24		0.13	0.13	
	M_2	180	180		180	180		180	180	
	η	0.75	0.75		0.71	0.71		0.67	0.67	
183.786	P_1	0.38			0.20			0.10		
	M_2	180			180			169		
	η	0.76			0.73			0.67		
207.500	P_1	0.35			0.18			0.10		
	M_2	180			180			180		
	η	0.74			0.70			0.64		

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 360$ Nm

GSS 05 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
5.639	P_1			7.85			4.56			2.28
	M_2			136			160			161
	η			0.90			0.91			0.92
7.733	P_1			7.13			4.56			2.28
	M_2			170			220			221
	η			0.91			0.91			0.92
9.042	P_1			6.00			4.56			2.28
	M_2			161			249			250
	η			0.87			0.89			0.89
9.897	P_1		4.98	6.63		2.49	3.87		1.24	1.93
	M_2		153	203		154	239		149	232
	η		0.91	0.91		0.92	0.92		0.89	0.89
10.827	P_1	2.90	4.75	6.45	1.45	2.38	3.70	0.73	1.19	1.85
	M_2	98	160	217	98	161	250	96	158	246
	η	0.91	0.91	0.91	0.92	0.92	0.92	0.90	0.90	0.90
12.400	P_1			5.86			3.71			2.28
	M_2			218			279			343
	η			0.88			0.89			0.89
13.810	P_1	2.84	4.01	6.01	1.42	2.01	3.14	0.71	1.00	1.57
	M_2	122	172	258	123	173	271	122	172	270
	η	0.91	0.91	0.91	0.92	0.92	0.92	0.91	0.91	0.91
15.869	P_1		4.95	4.95		2.49	3.14		1.24	1.87
	M_2		237	237		239	301		239	360
	η		0.88	0.88		0.89	0.89		0.89	0.89
17.360	P_1	2.90	4.67	4.67	1.45	2.38	2.96	0.73	1.19	1.71
	M_2	152	245	245	153	250	311	153	250	360
	η	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
20.417	P_1			3.21			2.26			1.46
	M_2			175			253			330
	η			0.79			0.81			0.81
22.143	P_1	2.84	3.97	3.97	1.42	2.01	2.51	0.71	1.00	1.35
	M_2	190	266	266	191	269	337	190	268	360
	η	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
24.800	P_1			3.11			2.01			1.29
	M_2			214			280			360
	η			0.81			0.82			0.82
27.125	P_1		3.45	3.46		1.72	2.19		0.86	1.10
	M_2		283	284		283	360		281	360
	η		0.89	0.89		0.89	0.89		0.88	0.88
31.738	P_1		2.65	2.65		1.71	1.71		1.01	1.01
	M_2		235	235		305	305		360	360
	η		0.82	0.82		0.82	0.82		0.82	0.82
35.306	P_1	1.98	2.77	2.90	0.99	1.38	1.69	0.50	0.69	0.86
	M_2	212	296	310	212	296	360	208	291	360
	η	0.89	0.89	0.89	0.89	0.89	0.89	0.87	0.87	0.87
39.200	P_1	2.31	2.31	2.31	1.45	1.49	1.49	0.73	0.83	0.83
	M_2	248	248	248	314	323	323	315	360	360
	η	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
43.917	P_1	1.66	2.31	2.51	0.83	1.16	1.36	0.42	0.58	0.70
	M_2	221	307	334	221	307	360	215	299	360
	η	0.89	0.89	0.89	0.89	0.89	0.89	0.86	0.86	0.86
50.000	P_1	1.97	1.97	1.97	1.28	1.28	1.28	0.66	0.66	0.66
	M_2	272	272	272	353	353	353	360	360	360
	η	0.81	0.81	0.81	0.81	0.81	0.81	0.80	0.80	0.80

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 360$ Nm

GSS 05 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
54.250	P_1		1.89	1.89		1.18	1.18		0.60	0.60
	M_2		288	288		360	360		360	360
	η		0.82	0.82		0.82	0.82		0.81	0.81
61.250	P_1		1.74	1.74		1.06	1.06		0.54	0.54
	M_2		293	293		360	360		360	360
	η		0.81	0.81		0.81	0.81		0.79	0.79
70.611	P_1	1.59	1.59	1.59	0.91	0.91	0.91	0.47	0.47	0.47
	M_2	316	316	316	360	360	360	360	360	360
	η	0.82	0.82	0.82	0.82	0.82	0.82	0.80	0.80	0.80
79.722	P_1	1.47	1.47	1.47	0.82	0.82	0.82	0.43	0.43	0.43
	M_2	323	323	323	360	360	360	360	360	360
	η	0.81	0.81	0.81	0.81	0.81	0.81	0.78	0.78	0.78
87.833	P_1	1.39	1.39	1.39	0.73	0.73	0.73	0.38	0.38	0.38
	M_2	342	342	342	360	360	360	360	360	360
	η	0.82	0.82	0.82	0.82	0.82	0.82	0.79	0.79	0.79
99.167	P_1	1.28	1.28	1.28	0.66	0.66	0.66	0.35	0.35	0.35
	M_2	350	350	350	360	360	360	360	360	360
	η	0.81	0.81	0.81	0.80	0.80	0.80	0.77	0.77	0.77
113.667	P_1	1.13	1.13		0.57	0.57		0.30	0.30	
	M_2	360	360		360	360		360	360	
	η	0.83	0.83		0.81	0.81		0.77	0.77	
128.333	P_1	1.02	1.02		0.52	0.52		0.28	0.28	
	M_2	360	360		360	360		360	360	
	η	0.81	0.81		0.79	0.79		0.75	0.75	
137.950	P_1	0.93	0.93		0.48	0.48		0.26	0.26	
	M_2	360	360		360	360		360	360	
	η	0.82	0.82		0.80	0.80		0.75	0.75	
155.750	P_1	0.84	0.84		0.44	0.44		0.23	0.23	
	M_2	360	360		360	360		360	360	
	η	0.81	0.81		0.78	0.78		0.73	0.73	
176.313	P_1	0.73			0.38			0.20		
	M_2	360			360			352		
	η	0.82			0.79			0.73		
199.063	P_1	0.66			0.35			0.19		
	M_2	360			360			360		
	η	0.80			0.77			0.71		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 360$ Nm

GSS 05 - 3 W

Dimensions page 7-88

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
125.476	P_1		0.77	0.77		0.48	0.48		0.24	0.24
	M_2		285	285		339	339		319	319
	η		0.86	0.86		0.83	0.83		0.78	0.78
153.708	P_1		0.67	0.67		0.41	0.41		0.21	0.21
	M_2		302	302		356	356		334	334
	η		0.86	0.86		0.82	0.82		0.77	0.77
193.233	P_1	0.58	0.58	0.58	0.34	0.34	0.34	0.18	0.18	0.18
	M_2	321	321	321	360	360	360	353	353	353
	η	0.85	0.85	0.85	0.80	0.80	0.80	0.75	0.75	0.75
222.133	P_1		0.61	0.61		0.32	0.32		0.17	0.17
	M_2		360	360		360	360		360	360
	η		0.79	0.79		0.75	0.75		0.68	0.68
250.952	P_1		0.53	0.53		0.28	0.28		0.15	0.15
	M_2		360	360		360	360		360	360
	η		0.79	0.79		0.75	0.75		0.68	0.68
283.333	P_1		0.48	0.48		0.26	0.26		0.14	0.14
	M_2		360	360		360	360		360	360
	η		0.77	0.77		0.73	0.73		0.66	0.66
307.417	P_1		0.44	0.44		0.24	0.24		0.13	0.13
	M_2		360	360		360	360		360	360
	η		0.78	0.78		0.73	0.73		0.66	0.66
347.083	P_1		0.40	0.40		0.22	0.22		0.12	0.12
	M_2		360	360		360	360		360	360
	η		0.76	0.76		0.71	0.71		0.64	0.64
386.467	P_1	0.36	0.36	0.36	0.19	0.19	0.19	0.11	0.11	0.11
	M_2	360	360	360	360	360	360	360	360	360
	η	0.77	0.77	0.77	0.71	0.71	0.71	0.64	0.64	0.64
436.333	P_1	0.32	0.32	0.32	0.18	0.18	0.18	0.10	0.10	0.10
	M_2	360	360	360	360	360	360	360	360	360
	η	0.75	0.75	0.75	0.69	0.69	0.69	0.62	0.62	0.62
497.722	P_1	0.28	0.28	0.28	0.16	0.16	0.16	0.09	0.09	0.09
	M_2	360	360	360	360	360	360	360	360	360
	η	0.75	0.75	0.75	0.68	0.68	0.68	0.62	0.62	0.62
561.945	P_1	0.26	0.26	0.26	0.14	0.14	0.14	0.08	0.08	0.08
	M_2	360	360	360	360	360	360	360	360	360
	η	0.73	0.73	0.73	0.66	0.66	0.66	0.60	0.60	0.60
630.803	P_1	0.23	0.23		0.13	0.13		0.07	0.07	
	M_2	360	360		360	360		360	360	
	η	0.73	0.73		0.66	0.66		0.60	0.60	
712.197	P_1	0.21	0.21		0.12	0.12		0.06	0.06	
	M_2	360	360		360	360		360	360	
	η	0.71	0.71		0.64	0.64		0.58	0.58	
790.500	P_1	0.19	0.19		0.10	0.10		0.06	0.06	
	M_2	360	360		360	360		360	360	
	η	0.71	0.71		0.64	0.64		0.58	0.58	
892.500	P_1	0.17	0.17		0.10	0.10		0.05	0.05	
	M_2	360	360		360	360		360	360	
	η	0.68	0.68		0.62	0.62		0.55	0.55	
1041.452	P_1	0.15			0.08			0.05		
	M_2	360			360			360		
	η	0.68			0.61			0.55		
1175.833	P_1	0.14			0.08			0.04		
	M_2	360			360			360		
	η	0.66			0.59			0.53		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 720$ Nm

GSS 06 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
5.833	P_1			10.5	10.5			8.82	9.75			4.41	6.67
	M_2			190	190			322	356			323	489
	η			0.91	0.91			0.92	0.92			0.92	0.92
8.000	P_1			10.7	10.7			8.82	9.74			4.41	5.13
	M_2			267	267			442	489			444	517
	η			0.91	0.91			0.92	0.92			0.92	0.92
9.042	P_1			9.17	9.17			7.53	7.53			4.41	5.82
	M_2			254	254			417	417			485	640
	η			0.90	0.90			0.90	0.90			0.89	0.89
10.238	P_1		9.31	10.2	10.2		4.66	7.50	8.11		2.33	3.75	4.06
	M_2		298	326	326		300	483	522		293	472	510
	η		0.92	0.92	0.92		0.92	0.92	0.92		0.90	0.90	0.90
11.200	P_1		8.95	9.90	9.90		4.48	7.12	7.45		2.24	3.56	3.72
	M_2		313	347	347		315	501	524		311	494	517
	η		0.92	0.92	0.92		0.92	0.92	0.92		0.91	0.91	0.91
12.400	P_1			8.37	8.37			6.91	6.91			4.41	4.70
	M_2			318	318			523	523			661	705
	η			0.90	0.90			0.90	0.90			0.89	0.89
14.286	P_1	4.94	7.61	10.2	10.2	2.47	3.80	5.88	5.88	1.23	1.90	2.94	2.94
	M_2	221	341	456	456	222	342	528	528	221	341	527	527
	η	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
15.869	P_1		7.81	7.81	7.81		4.66	6.26	6.26		2.33	3.75	3.77
	M_2		380	380	380		450	605	605		445	717	720
	η		0.90	0.90	0.90		0.89	0.89	0.89		0.88	0.88	0.88
17.360	P_1		7.62	7.62	7.62		4.48	5.90	5.90		2.24	3.45	3.45
	M_2		405	405	405		473	624	624		467	720	720
	η		0.90	0.90	0.90		0.89	0.89	0.89		0.88	0.88	0.88
20.417	P_1			5.17	5.17			4.23	4.23			2.86	2.86
	M_2			299	299			488	488			650	650
	η			0.83	0.83			0.83	0.83			0.82	0.82
22.143	P_1	4.94	7.12	7.12	7.12	2.47	3.80	5.02	5.02	1.23	1.90	2.73	2.73
	M_2	334	482	482	482	331	510	673	673	326	502	720	720
	η	0.90	0.90	0.90	0.90	0.89	0.89	0.89	0.89	0.87	0.87	0.87	0.87
24.800	P_1			4.92	4.92			3.98	3.98			2.58	2.58
	M_2			350	350			561	561			715	715
	η			0.84	0.84			0.83	0.83			0.82	0.82
27.125	P_1		6.58	6.74	6.74		3.29	4.38	4.38		1.65	2.24	2.24
	M_2		545	558	558		539	718	718		528	720	720
	η		0.90	0.90	0.90		0.89	0.89	0.89		0.87	0.87	0.87
31.738	P_1		4.60	4.60	4.60		3.40	3.40	3.40		2.05	2.05	2.05
	M_2		418	418	418		609	609	609		720	720	720
	η		0.84	0.84	0.84		0.83	0.83	0.83		0.81	0.81	0.81
35.306	P_1	3.41	5.30	5.79		1.71	2.65	3.40		0.85	1.33	1.74	
	M_2	366	570	622		361	562	720		353	549	720	
	η	0.89	0.89	0.89		0.88	0.88	0.88		0.86	0.86	0.86	
39.200	P_1		4.28	4.28	4.28		2.91	2.91	2.91		1.69	1.69	1.69
	M_2		474	474	474		637	637	637		720	720	720
	η		0.83	0.83	0.83		0.82	0.82	0.82		0.80	0.80	0.80
43.917	P_1	2.85	4.45	5.01		1.43	2.23	2.75		0.71	1.11	1.41	
	M_2	379	592	666		373	583	720		363	568	720	
	η	0.89	0.89	0.89		0.87	0.87	0.87		0.85	0.85	0.85	
50.000	P_1	3.86	3.86	3.86	3.86	2.47	2.50	2.50	2.50	1.23	1.34	1.34	1.34
	M_2	544	544	544	544	685	693	693	693	663	720	720	720
	η	0.83	0.83	0.83	0.83	0.81	0.81	0.81	0.81	0.79	0.79	0.79	0.79

Thermal power limit not considered (see page 2-4)

$M_{2\,perm} \leq 720$ Nm

GSS 06 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P_{1perm} [kW] M_{2perm} [Nm]												
54.250	P_1		3.74	3.74	3.74		2.38	2.38	2.38		1.23	1.23	1.23
	M_2		576	576	576		720	720	720		720	720	720
	η		0.83	0.83	0.83		0.82	0.82	0.82		0.79	0.79	0.79
61.250	P_1		3.39	3.39	3.39		2.13	2.13	2.13		1.11	1.11	1.11
	M_2		584	584	584		720	720	720		720	720	720
	η		0.82	0.82	0.82		0.81	0.81	0.81		0.78	0.78	0.78
70.611	P_1	3.16	3.16	3.16		1.71	1.85	1.85		0.85	0.96	0.96	
	M_2	630	630	630		664	720	720		639	720	720	
	η	0.83	0.83	0.83		0.81	0.81	0.81		0.78	0.78	0.78	
79.722	P_1	2.87	2.87	2.87		1.66	1.66	1.66		0.85	0.86	0.86	
	M_2	638	638	638		720	720	720		710	720	720	
	η	0.82	0.82	0.82		0.80	0.80	0.80		0.77	0.77	0.77	
87.833	P_1	2.76	2.76	2.76		1.43	1.50	1.50		0.71	0.78	0.78	
	M_2	680	680	680		682	720	720		655	720	720	
	η	0.82	0.82	0.82		0.80	0.80	0.80		0.77	0.77	0.77	
99.167	P_1	2.50	2.50	2.50		1.35	1.35	1.35		0.71	0.71	0.71	
	M_2	688	688	688		720	720	720		720	720	720	
	η	0.81	0.81	0.81		0.79	0.79	0.79		0.76	0.76	0.76	
113.667	P_1	2.20	2.28			1.10	1.18			0.55	0.61		
	M_2	697	720			672	720			646	720		
	η	0.82	0.82			0.79	0.79			0.76	0.76		
128.333	P_1	2.04	2.04			1.06	1.06			0.55	0.55		
	M_2	720	720			720	720			715	720		
	η	0.81	0.81			0.78	0.78			0.74	0.74		
137.950	P_1	1.89	1.89			0.96	0.98			0.48	0.51		
	M_2	720	720			700	720			670	720		
	η	0.81	0.81			0.78	0.78			0.75	0.75		
155.750	P_1	1.70	1.70			0.88	0.88			0.46	0.46		
	M_2	720	720			720	720			720	720		
	η	0.80	0.80			0.77	0.77			0.73	0.73		
174.375	P_1	1.52				0.77				0.38			
	M_2	720				698				665			
	η	0.80				0.77				0.73			
196.875	P_1	1.36				0.71				0.38			
	M_2	720				720				720			
	η	0.79				0.76				0.72			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 720$ Nm

GSS 06 - 3 W

Dimensions page 7-88

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
126.531	P_1		2.15	2.15		1.12	1.12		0.58	0.58
	M_2		720	720		720	720		720	720
	η		0.78	0.78		0.75	0.75		0.72	0.72
142.857	P_1		1.93	1.93		1.01	1.01		0.53	0.53
	M_2		720	720		720	720		720	720
	η		0.77	0.77		0.73	0.73		0.70	0.70
155.000	P_1		1.77	1.77		0.92	0.92		0.48	0.48
	M_2		720	720		720	720		720	720
	η		0.77	0.77		0.74	0.74		0.71	0.71
175.000	P_1		1.59	1.59		0.83	0.83		0.44	0.44
	M_2		720	720		720	720		720	720
	η		0.76	0.76		0.73	0.73		0.69	0.69
194.857	P_1	1.29	1.43	1.43	0.65	0.74	0.74	0.32	0.39	0.39
	M_2	652	720	720	626	720	720	593	720	720
	η	0.76	0.76	0.76	0.73	0.73	0.73	0.69	0.69	0.69
220.000	P_1	1.28	1.28	1.28	0.65	0.67	0.67	0.32	0.36	0.36
	M_2	720	720	720	697	720	720	653	720	720
	η	0.75	0.75	0.75	0.72	0.72	0.72	0.67	0.67	0.67
238.700	P_1	1.18	1.18	1.18	0.61	0.61	0.61	0.32	0.33	0.33
	M_2	720	720	720	720	720	720	711	720	720
	η	0.75	0.75	0.75	0.72	0.72	0.72	0.68	0.68	0.68
269.500	P_1	1.06	1.06	1.06	0.55	0.55	0.55	0.30	0.30	0.30
	M_2	720	720	720	720	720	720	720	720	720
	η	0.74	0.74	0.74	0.71	0.71	0.71	0.66	0.66	0.66
310.689	P_1	0.92	0.92	0.92	0.48	0.48	0.48	0.26	0.26	0.26
	M_2	720	720	720	720	720	720	720	720	720
	η	0.74	0.74	0.74	0.71	0.71	0.71	0.66	0.66	0.66
350.778	P_1	0.83	0.83	0.83	0.44	0.44	0.44	0.24	0.24	0.24
	M_2	720	720	720	720	720	720	720	720	720
	η	0.73	0.73	0.73	0.69	0.69	0.69	0.64	0.64	0.64
386.467	P_1	0.75	0.75	0.75	0.40	0.40	0.40	0.21	0.21	0.21
	M_2	720	720	720	720	720	720	720	720	720
	η	0.73	0.73	0.73	0.69	0.69	0.69	0.64	0.64	0.64
436.333	P_1	0.67	0.67	0.67	0.36	0.36	0.36	0.19	0.19	0.19
	M_2	720	720	720	720	720	720	720	720	720
	η	0.72	0.72	0.72	0.67	0.67	0.67	0.63	0.63	0.63
497.722	P_1	0.59	0.59	0.59	0.32	0.32	0.32	0.17	0.17	0.17
	M_2	720	720	720	720	720	720	720	720	720
	η	0.72	0.72	0.72	0.67	0.67	0.67	0.63	0.63	0.63
561.945	P_1	0.53	0.53	0.53	0.29	0.29	0.29	0.15	0.15	0.15
	M_2	720	720	720	720	720	720	720	720	720
	η	0.71	0.71	0.71	0.66	0.66	0.66	0.62	0.62	0.62
630.803	P_1	0.48	0.48		0.26	0.26		0.14	0.14	
	M_2	720	720		720	720		720	720	
	η	0.71	0.71		0.66	0.66		0.62	0.62	
712.197	P_1	0.43	0.43		0.23	0.23		0.12	0.12	
	M_2	720	720		720	720		720	720	
	η	0.69	0.69		0.64	0.64		0.60	0.60	
816.333	P_1	0.38	0.38		0.20	0.20		0.11	0.11	
	M_2	720	720		720	720		720	720	
	η	0.69	0.69		0.64	0.64		0.61	0.61	
921.667	P_1	0.34	0.34		0.18	0.18		0.10	0.10	
	M_2	720	720		720	720		720	720	
	η	0.67	0.67		0.63	0.63		0.60	0.60	

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 720$ Nm

GSS 06 - 3 W

Dimensions page 7-88

n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C
i	P_{1perm} [kW] M_{2perm} [Nm]									
1023.000	P_1	0.31	0.31		0.17	0.17		0.09	0.09	
	M_2	720	720		720	720		720	720	
	η	0.67	0.67		0.63	0.63		0.60	0.60	
1155.000	P_1	0.28	0.28		0.15	0.15		0.08	0.08	
	M_2	720	720		720	720		720	720	
	η	0.65	0.65		0.61	0.61		0.59	0.59	
1241.550	P_1	0.26	0.26		0.14	0.14		0.07	0.07	
	M_2	720	720		720	720		720	720	
	η	0.66	0.66		0.62	0.62		0.59	0.59	
1401.750	P_1	0.24	0.24		0.12	0.12		0.07	0.07	
	M_2	720	720		720	720		720	720	
	η	0.64	0.64		0.61	0.61		0.58	0.58	
1635.693	P_1	0.20			0.11			0.06		
	M_2	720			720			720		
	η	0.64			0.61			0.59		
1846.750	P_1	0.18			0.10			0.05		
	M_2	720			720			720		
	η	0.63			0.60			0.58		

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 1250$ Nm

GSS 07 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
5.862	P_1			17.6	17.6			14.6	14.6			8.07	12.1
	M_2			324	324			539	539			599	896
	η			0.92	0.92			0.93	0.93			0.93	0.93
8.125	P_1			16.1	16.1			13.3	13.3			8.07	10.5
	M_2			412	412			685	685			831	1079
	η			0.92	0.92			0.93	0.93			0.93	0.93
9.086	P_1			14.7	14.7			11.2	11.2			8.07	9.38
	M_2			412	412			628	628			900	1047
	η			0.90	0.90			0.90	0.90			0.90	0.90
10.000	P_1		15.2	15.2	15.2		9.39	12.6	12.6		4.69	7.09	8.58
	M_2		480	480	480		595	797	797		584	882	1067
	η		0.93	0.93	0.93		0.93	0.93	0.93		0.91	0.91	0.91
11.200	P_1		14.7	14.7	14.7		8.73	12.2	12.2		4.37	6.60	7.70
	M_2		521	521	521		620	866	866		614	928	1083
	η		0.93	0.93	0.93		0.93	0.93	0.93		0.92	0.92	0.92
12.594	P_1			12.6	12.6			10.3	10.3			8.07	8.12
	M_2			490	490			799	799			1242	1250
	η			0.91	0.91			0.90	0.90			0.90	0.90
14.286	P_1	9.08	13.8	13.8	13.8	4.54	7.38	11.1	11.4	2.27	3.69	5.57	6.07
	M_2	410	623	623	623	411	668	1009	1036	411	668	1007	1099
	η	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
15.500	P_1		11.7	11.7	11.7		9.39	9.76	9.76		4.69	6.61	6.61
	M_2		559	559	559		896	931	931		887	1250	1250
	η		0.91	0.91	0.91		0.90	0.90	0.90		0.89	0.89	0.89
17.360	P_1		11.3	11.3	11.3		8.73	9.48	9.48		4.37	5.92	5.92
	M_2		607	607	607		932	1012	1012		922	1250	1250
	η		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
20.517	P_1			8.47	8.47			6.46	6.46			5.12	5.12
	M_2			500	500			764	764			1201	1201
	η			0.84	0.84			0.85	0.85			0.84	0.84
22.143	P_1	9.08	10.7	10.7	10.7	4.54	7.38	8.93	8.93	2.27	3.69	4.67	4.67
	M_2	620	727	727	727	615	1000	1211	1211	608	988	1250	1250
	η	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.89	0.89	0.89	0.89
25.188	P_1			7.64	7.64			6.25	6.25			4.33	4.33
	M_2			559	559			913	913			1250	1250
	η			0.85	0.85			0.85	0.85			0.84	0.84
27.125	P_1		10.1	10.1	10.1		6.35	7.54	7.54		3.18	3.83	3.83
	M_2		844	844	844		1052	1250	1250		1035	1250	1250
	η		0.90	0.90	0.90		0.90	0.90	0.90		0.88	0.88	0.88
31.000	P_1		7.07	7.07	7.07		5.94	5.94	5.94		3.54	3.54	3.54
	M_2		637	637	637		1065	1065	1065		1250	1250	1250
	η		0.85	0.85	0.85		0.85	0.85	0.85		0.84	0.84	0.84
35.306	P_1	6.37	9.45	9.45		3.18	5.14	5.82		1.59	2.57	2.97	
	M_2	690	1025	1025		683	1104	1250		670	1082	1250	
	η	0.90	0.90	0.90		0.89	0.89	0.89		0.87	0.87	0.87	
39.200	P_1		6.54	6.54	6.54		5.24	5.24	5.24		2.84	2.84	2.84
	M_2		739	739	739		1175	1175	1175		1250	1250	1250
	η		0.85	0.85	0.85		0.84	0.84	0.84		0.82	0.82	0.82
43.271	P_1	5.49	8.75	8.98		2.74	4.37	4.77		1.37	2.19	2.44	
	M_2	727	1159	1190		718	1145	1250		704	1122	1250	
	η	0.90	0.90	0.90		0.89	0.89	0.89		0.87	0.87	0.87	
50.000	P_1	6.14	6.14	6.14	6.14	4.39	4.39	4.39	4.39	2.25	2.25	2.25	2.25
	M_2	882	882	882	882	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.81	0.81	0.81	0.81

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 1250$ Nm

GSS 07 - 2 W

Dimensions page 7-87

n_1		2800 min^{-1}				1400 min^{-1}				700 min^{-1}			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P_{1perm} [kW] M_{2perm} [Nm]												
54.250	P_1 M_2		6.14 965 0.85	6.14 965 0.85	6.14 965 0.84		4.03 1250 0.84	4.03 1250 0.84	4.03 1250 0.82		2.07 1250 0.82	2.07 1250 0.82	2.07 1250 0.85
61.250	P_1 M_2		5.82 1023 0.84	5.82 1023 0.84	5.82 1023 0.84		3.60 1250 0.83	3.60 1250 0.83	3.60 1250 0.83		1.86 1250 0.81	1.86 1250 0.81	1.86 1250 0.81
70.611	P_1 M_2 η	5.69 1161 0.85	5.69 1161 0.85	5.69 1161 0.85		3.12 1250 0.83	3.12 1250 0.83	3.12 1250 0.83		1.59 1241 0.81	1.60 1250 0.81	1.60 1250 0.81	
79.722	P_1 M_2 η	5.16 1177 0.84	5.16 1177 0.84	5.16 1177 0.84		2.79 1250 0.82	2.79 1250 0.82	2.79 1250 0.82		1.44 1250 0.80	1.44 1250 0.80	1.44 1250 0.80	
86.542	P_1 M_2 η	5.01 1248 0.84	5.01 1248 0.84	5.01 1248 0.84		2.57 1250 0.82	2.57 1250 0.82	2.57 1250 0.82		1.32 1250 0.80	1.32 1250 0.80	1.32 1250 0.80	
97.708	P_1 M_2 η	4.49 1250 0.84	4.49 1250 0.84	4.49 1250 0.84		2.30 1250 0.82	2.30 1250 0.82	2.30 1250 0.82		1.19 1250 0.79	1.19 1250 0.79	1.19 1250 0.79	
113.667	P_1 M_2 η	3.85 1250 0.84	3.85 1250 0.84			1.98 1250 0.82	1.98 1250 0.82			1.03 1250 0.79	1.03 1250 0.79		
128.333	P_1 M_2 η	3.44 1250 0.83	3.44 1250 0.83			1.78 1250 0.80	1.78 1250 0.80			0.92 1250 0.77	0.92 1250 0.77		
137.950	P_1 M_2 η	3.19 1250 0.83	3.19 1250 0.83			1.64 1250 0.81	1.64 1250 0.81			0.85 1250 0.78	0.85 1250 0.78		
155.750	P_1 M_2 η	2.86 1250 0.82	2.86 1250 0.82			1.48 1250 0.80	1.48 1250 0.80			0.77 1250 0.76	0.77 1250 0.76		
174.375	P_1 M_2 η	2.55 1250 0.82				1.32 1250 0.80				0.69 1250 0.77			
196.875	P_1 M_2 η	2.28 1250 0.82				1.18 1250 0.79				0.62 1250 0.75			

Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 1250$ Nm

GSS 07 - 3 W

Dimensions page 7-88

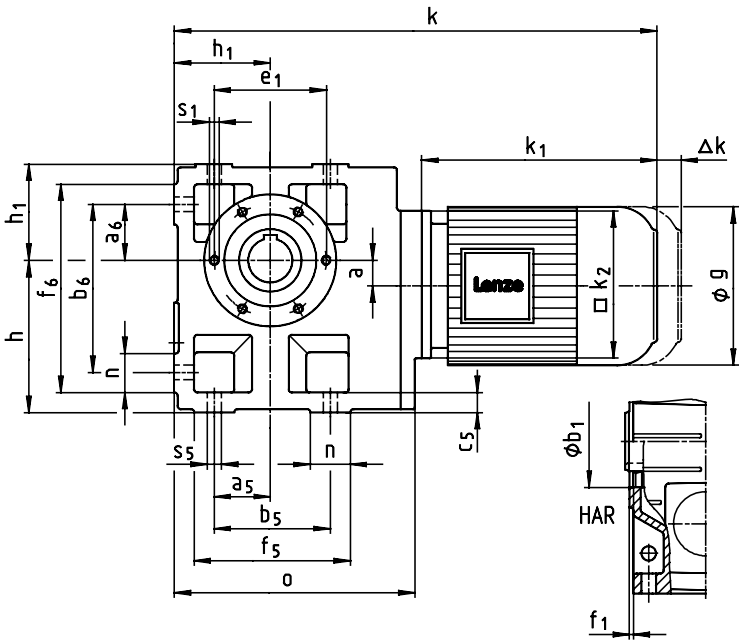
n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
126.531	P_1	2.84	3.63	3.63	1.42	1.87	1.87	0.71	0.97	0.97
	M_2	979	1250	1250	953	1250	1250	917	1250	1250
	η	0.80	0.80	0.80	0.78	0.78	0.78	0.75	0.75	0.75
142.857	P_1	2.84	3.25	3.25	1.42	1.68	1.68	0.71	0.87	0.87
	M_2	1095	1250	1250	1059	1250	1250	1017	1250	1250
	η	0.79	0.79	0.79	0.76	0.76	0.76	0.73	0.73	0.73
155.000	P_1	2.84	2.99	2.99	1.42	1.53	1.53	0.71	0.80	0.80
	M_2	1190	1250	1250	1160	1250	1250	1110	1250	1250
	η	0.79	0.79	0.79	0.77	0.77	0.77	0.74	0.74	0.74
175.000	P_1	2.67	2.67	2.67	1.39	1.39	1.39	0.71	0.72	0.72
	M_2	1250	1250	1250	1250	1250	1250	1231	1250	1250
	η	0.78	0.78	0.78	0.76	0.76	0.76	0.73	0.73	0.73
201.746	P_1	1.98	2.32	2.32	0.99	1.20	1.20	0.50	0.63	0.63
	M_2	1068	1250	1250	1029	1250	1250	987	1250	1250
	η	0.78	0.78	0.78	0.76	0.76	0.76	0.72	0.72	0.72
227.778	P_1	1.98	2.08	2.08	0.99	1.08	1.08	0.50	0.57	0.57
	M_2	1191	1250	1250	1144	1250	1250	1092	1250	1250
	η	0.77	0.77	0.77	0.74	0.74	0.74	0.71	0.71	0.71
247.139	P_1	1.91	1.91	1.91	0.99	0.99	0.99	0.50	0.52	0.52
	M_2	1250	1250	1250	1249	1250	1250	1187	1250	1250
	η	0.78	0.78	0.78	0.75	0.75	0.75	0.71	0.71	0.71
279.028	P_1	1.72	1.72	1.72	0.89	0.89	0.89	0.47	0.47	0.47
	M_2	1250	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.77	0.77	0.77	0.74	0.74	0.74	0.70	0.70	0.70
321.673	P_1	1.48	1.48	1.48	0.77	0.77	0.77	0.41	0.41	0.41
	M_2	1250	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.77	0.77	0.77	0.74	0.74	0.74	0.69	0.69	0.69
363.179	P_1	1.34	1.34	1.34	0.70	0.70	0.70	0.37	0.37	0.37
	M_2	1250	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.75	0.75	0.75	0.72	0.72	0.72	0.68	0.68	0.68
394.245	P_1	1.23	1.23	1.23	0.64	0.64	0.64	0.34	0.34	0.34
	M_2	1250	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.76	0.76	0.76	0.73	0.73	0.73	0.68	0.68	0.68
445.116	P_1	1.11	1.11	1.11	0.58	0.58	0.58	0.31	0.31	0.31
	M_2	1250	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.75	0.75	0.75	0.71	0.71	0.71	0.66	0.66	0.66
490.403	P_1	1.00	1.00	1.00	0.53	0.53	0.53	0.28	0.28	0.28
	M_2	1250	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.75	0.75	0.75	0.71	0.71	0.71	0.67	0.67	0.67
553.681	P_1	0.90	0.90	0.90	0.48	0.48	0.48	0.25	0.25	0.25
	M_2	1250	1250	1250	1250	1250	1250	1250	1250	1250
	η	0.74	0.74	0.74	0.70	0.70	0.70	0.65	0.65	0.65
634.639	P_1	0.78	0.78		0.42	0.42		0.22	0.22	
	M_2	1250	1250		1250	1250		1250	1250	
	η	0.74	0.74		0.69	0.69		0.65	0.65	
716.528	P_1	0.71	0.71		0.38	0.38		0.20	0.20	
	M_2	1250	1250		1250	1250		1250	1250	
	η	0.72	0.72		0.68	0.68		0.64	0.64	
833.556	P_1	0.61	0.61		0.33	0.33		0.17	0.17	
	M_2	1250	1250		1250	1250		1250	1250	
	η	0.72	0.72		0.68	0.68		0.64	0.64	
941.111	P_1	0.55	0.55		0.30	0.30		0.16	0.16	
	M_2	1250	1250		1250	1250		1250	1250	
	η	0.71	0.71		0.66	0.66		0.62	0.62	

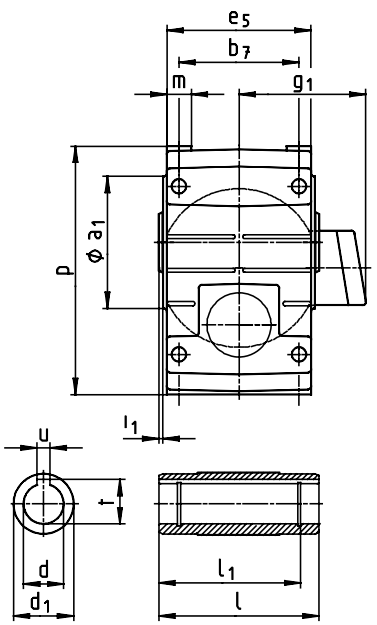
Thermal power limit not considered (see page 2-4)

$M_{2\ perm} \leq 1250$ Nm

GSS 07 - 3 W										Dimensions page 7-88
n_1		2800 min^{-1}			1400 min^{-1}			700 min^{-1}		
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D
i	P_{1perm} [kW] M_{2perm} [Nm]									
1011.633	P_1 M_2 η	0.51 1250 0.71	0.51 1250 0.71		0.27 1250 0.66	0.27 1250 0.66		0.14 1250 0.63	0.14 1250 0.63	
1142.167	P_1 M_2 η	0.46 1250 0.70	0.46 1250 0.70		0.25 1250 0.65	0.25 1250 0.65		0.13 1250 0.62	0.13 1250 0.62	
1227.755	P_1 M_2 η	0.43 1250 0.70	0.43 1250 0.70		0.23 1250 0.65	0.23 1250 0.65		0.12 1250 0.62	0.12 1250 0.62	
1386.175	P_1 M_2 η	0.39 1250 0.68	0.39 1250 0.68		0.21 1250 0.64	0.21 1250 0.64		0.11 1250 0.61	0.11 1250 0.61	
1569.181	P_1 M_2 η	0.34 1250 0.68			0.18 1250 0.64			0.10 1250 0.62		
1771.656	P_1 M_2 η	0.31 1250 0.67			0.17 1250 0.63			0.09 1250 0.60		

Thermal power limit not considered (see page 2-4)





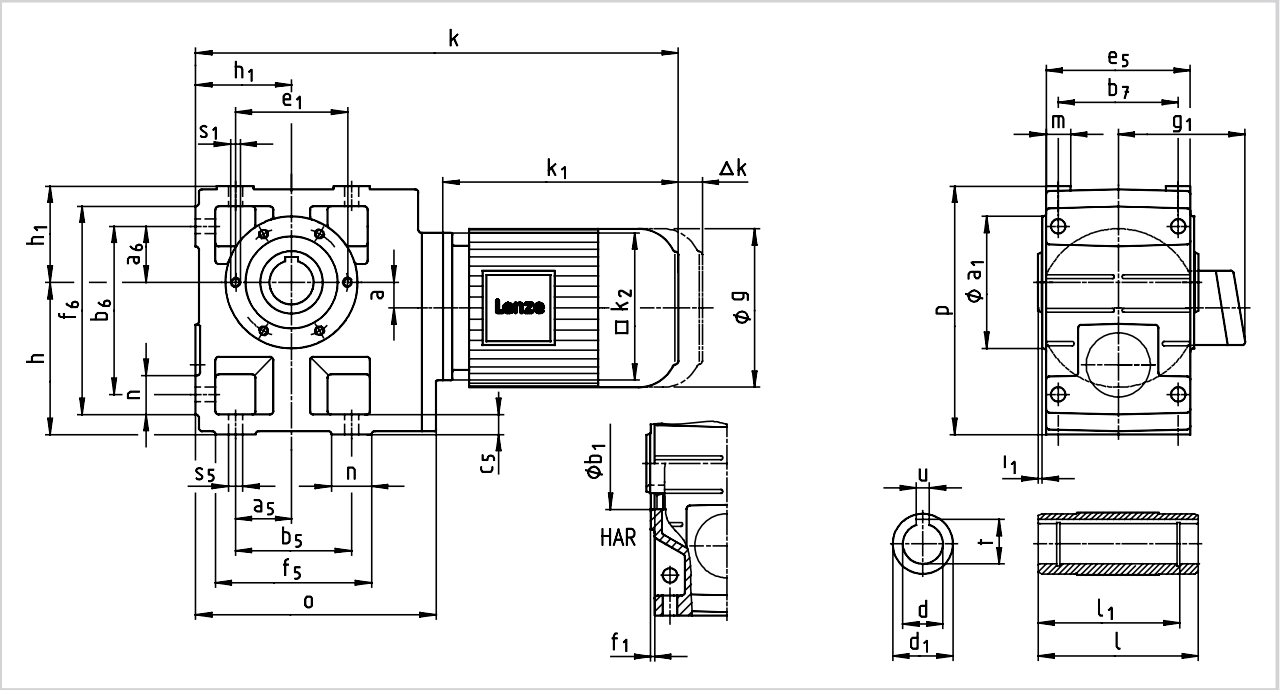
Geared motor **GSS □□ - 2 M H□R**			Motor frame size 063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32
Motor	g		123	138	156	176	196	220		261	310	
	g_1	Without option	100	109	141	146	157	167		195	207	
		Brake motor	107	116	130	135	146	156		195	207	
	k_1		188	207	225	276	309	319	363	404	475	519
	k_2		120	120	145	180	180	222		265	300	
	Δk **	Brake	40	52	73	70	79	90		109	96	
		Separate fan	130	128	128	127	109	102		115	96	
		Separate fan + brake	170	165	184	180	170	183		201	208	

Gearbox size	Gearbox						Total length									
	o	l*	p*	h*	h_1	a	k									
04	181	115	171	100	71	20	378	397	420	481						
05	212	140	205	125	80	23	399	419	441	502	536					
06	255	160	250	150	100	26	439	459	481	542	576	592	636			
07	305	200	310	190	120	33			524	585	619	635	679	727	804	848

Gearbox size	Hollow shaft						Pitch circle						Foot											
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25 30	115	45	100	8 8	28.3 33.3	105	75	90	3	2.5	M6x12	45	45	90	119	85	14	100	112	141	22	20	9
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h\text{-}a$
** For additional attachments see section 8



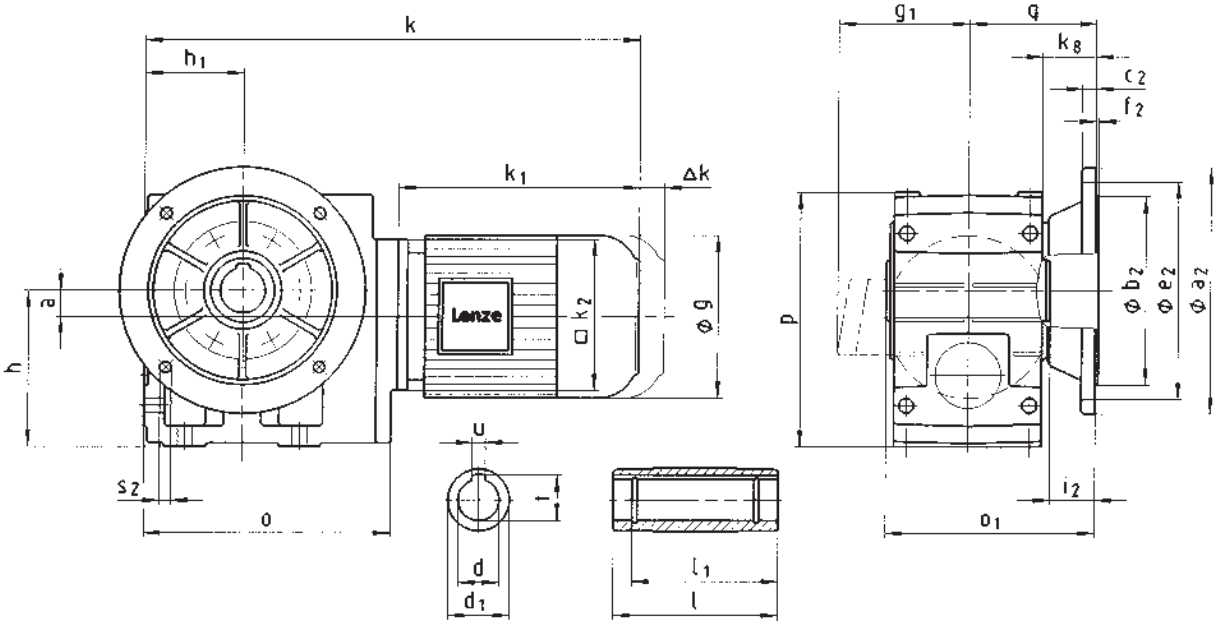
Geared motor **GSS □□ - 2 M H□R**		Motor frame size								
		063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	g	129		142	156	178	194		222	262
	g_1 Without option	105		131	131	141	158		165	197
	g_1 Brake motor	105		131	131	140	159		165	197
	k_1	193	204	176	225	242	280	310	323	409
	k_2	100		145	145	180	180		222	265
	Δk** Brake	56		66	68	74	94		101	127
	Separate fan	71		80	94	101	97		95	104
	Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox						Total length							
	o	l*	p*	h*	h_1	a	k							
04	181	115	171	100	71	20	358	369	371	420	447			
05	212	140	205	125	80	23			392	441	469	507	537	
06	255	160	250	150	100	26			432	481	509	547	577	595
07	305	200	310	190	120	33				524	552	590	620	638	733

Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	l	d_1	l_1	u JS9	t +0.2	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25 30	115	45	100	8 8	28.3 33.3	105	75	90	3	2.5	M6x12	45	45	90	119	85	14	100	112	141	22	20	9
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h\text{-}a$
** For additional attachments see section 8



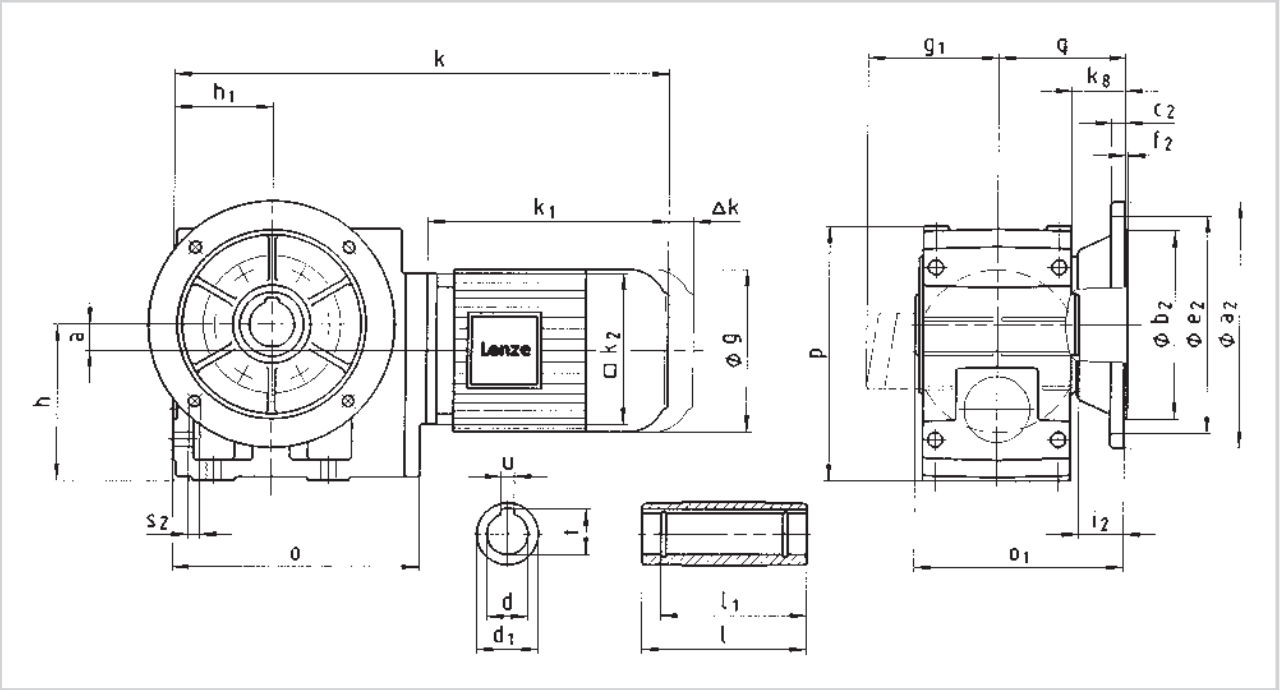
Geared motor **GSS □□ - 2 M HAK**			Motor frame size									
			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32
Motor	g		123	138	156	176	196	220		261	310	
	g_1	Without option	100	109	141	146	157	167		195	207	
		Brake motor	107	116	130	135	146	156		195	207	
	k_1		188	207	225	276	309	319	363	404	475	519
	k_2		120	120	145	180	180	222		265	300	
	Δk **	Brake	40	52	73	70	79	90		109	96	
		Separate fan	130	128	128	127	109	102		115	96	
		Separate fan + brake	170	165	184	180	170	183		201	208	

Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h*	h_1	a	k_8	q	k								
04	181	148	171	100	71	20	38	90.5	378	397	420	481					
05	212	173	205	125	80	23	40	103	399	419	441	502	536				
06	255	201	250	150	100	26	49	121	439	459	481	542	576	592	636		
07	305	255	310	190	120	33	65	155			524	585	619	635	679	727	804	848

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 H7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h-a$
** For additional attachments see section 8



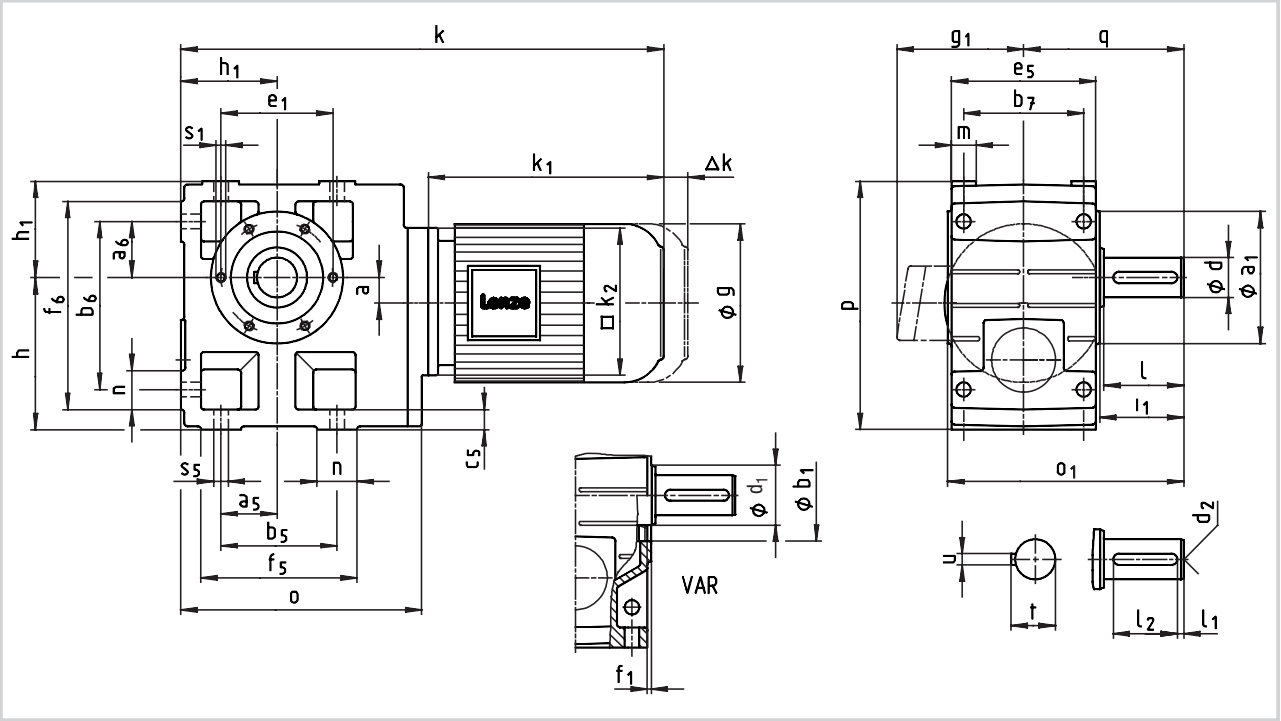
Geared motor **GSS □□ - 2 M HAK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk**	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

Gearbox size	Gearbox								Total length						
	o	o_1*	p*	h*	h_1	a	k_8	q	k						
04	181	148	171	100	71	20	38	90.5	358	369	371	420	447		
05	212	173	205	125	80	23	40	103			392	441	469	507	537
06	255	201	250	150	100	26	49	121			432	481	509	547	577	595	
07	305	255	310	190	120	33	65	155				524	552	590	620	638	733

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 H7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14

Dimensions in [mm]

* Observe dimension k_2. With gearbox size 04 and motor size frame 090, dimension $k_2/2 > h\text{-}a$
** For additional attachments see section 8



Geared motor			Motor frame size									
GSS □□ - 2 M V□R			**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**
Motor	g		123	138	156	176	196	220		261	310	
	g_1	Without option	100	109	141	146	157	167		195	207	
		Brake motor	107	116	130	135	146	156		195	207	
	k_1		188	207	225	276	309	319	363	404	475	519
	k_2		120	120	145	180	180	222		265	300	
	Δk **	Brake	40	52	73	70	79	90		109	96	
		Separate fan	130	128	128	127	109	102		115	96	
		Separate fan + brake	170	165	184	180	170	183		201	208	

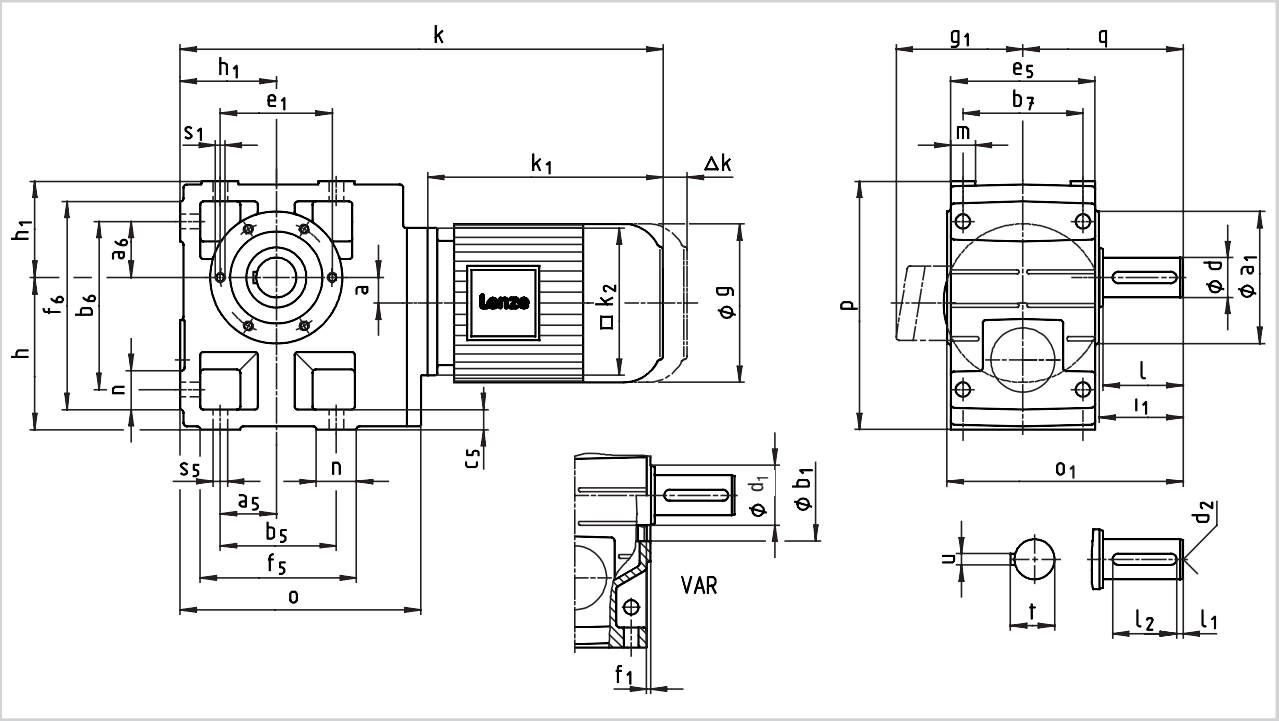
Gearbox size	Gearbox							Total length									
	o	o_1*	p*	h*	h_1	a	q	k									
04	181	163	171	100	71	20	107.5	378	397	420	481						
05	212	197	205	125	80	23	130	399	419	441	502	536					
06	255	236	250	150	100	26	160	439	459	481	542	576	592	636			
07	305	296	310	190	120	33	200			524	585	619	635	679	727	804	848

Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	90	119	85	14	100	112	141	22	20	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

$d \leq 50$ mm: k_6
$d > 50$ mm: m_6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h\text{-}a$
** For additional attachments see section 8



Geared motor **GSS □□ - 2 M V□R**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk**	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

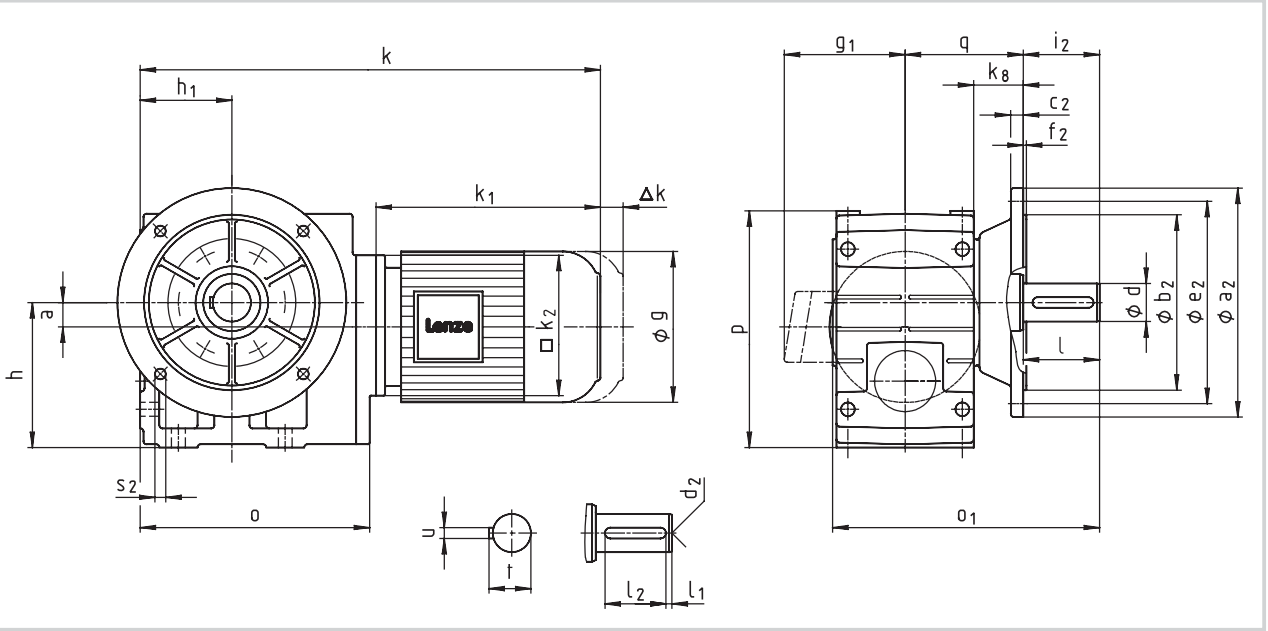
Gearbox size	Gearbox							Total length							
	o	o_1*	p*	h*	h_1	a	q	k							
04	181	163	171	100	71	20	107.5	358	369	371	420	447			
05	212	197	205	125	80	23	130			392	441	469	507	537	
06	255	236	250	150	100	26	160			432	481	509	547	577	595
07	305	296	310	190	120	33	200				524	552	590	620	638	733

Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	90	119	85	14	100	112	141	22	20	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2 > h-a$
** For additional attachments see section 8



Geared motor			Motor frame size									
GSS □□ - 2 M VAK			063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32
Motor	g		123	138	156	176	196	220		261	310	
	g_1	Without option	100	109	141	146	157	167		195	207	
		Brake motor	107	116	130	135	146	156		195	207	
	k_1		188	207	225	276	309	319	363	404	475	519
	k_2		120	120	145	180	180	222		265	300	
	Δk **	Brake	40	52	73	70	79	90		109	96	
		Separate fan	130	128	128	127	109	102		115	96	
		Separate fan + brake	170	165	184	180	170	183		201	208	

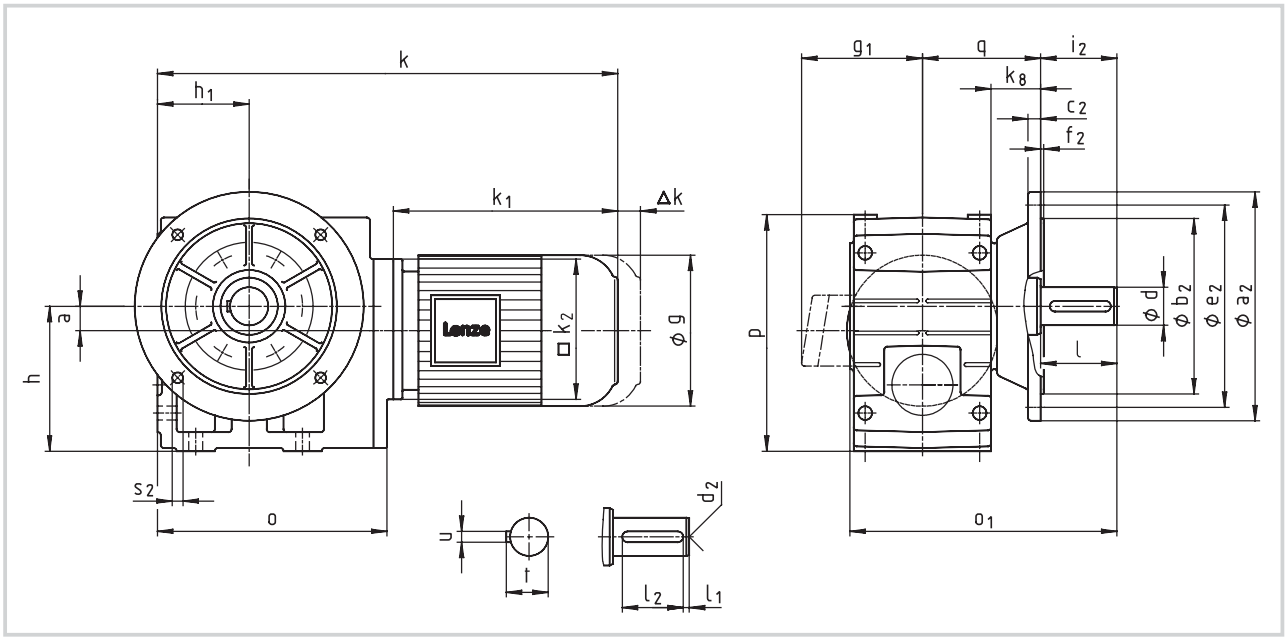
Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h*	h_1	a	k_8	q	k								
04	181	196	171	100	71	20	38	90.5	378	397	420	481					
05	212	230	205	125	80	23	40	103	399	419	441	502	536				
06	255	277	250	150	100	26	49	121	439	459	481	542	576	592	636		
07	305	351	310	190	120	33	65	155			524	585	619	635	679	727	804	848

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2$ > h-a
** For additional attachments see section 8



Geared motor **GSS □□ - 2 M VAK**			Motor frame size								
			063-11	063-31	071-1□ 071-3□	080-1□ 080-3□	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g		129		142	156	178	194		222	262
	g_1	Without option	105		131	131	141	158		165	197
		Brake motor	105		131	131	140	159		165	197
	k_1		193	204	176	225	242	280	310	323	409
	k_2		100		145	145	180	180		222	265
	Δk **	Brake	56		66	68	74	94		101	127
		Separate fan	71		80	94	101	97		95	104
		Separate fan + brake	118		134	150	164	169		183	218

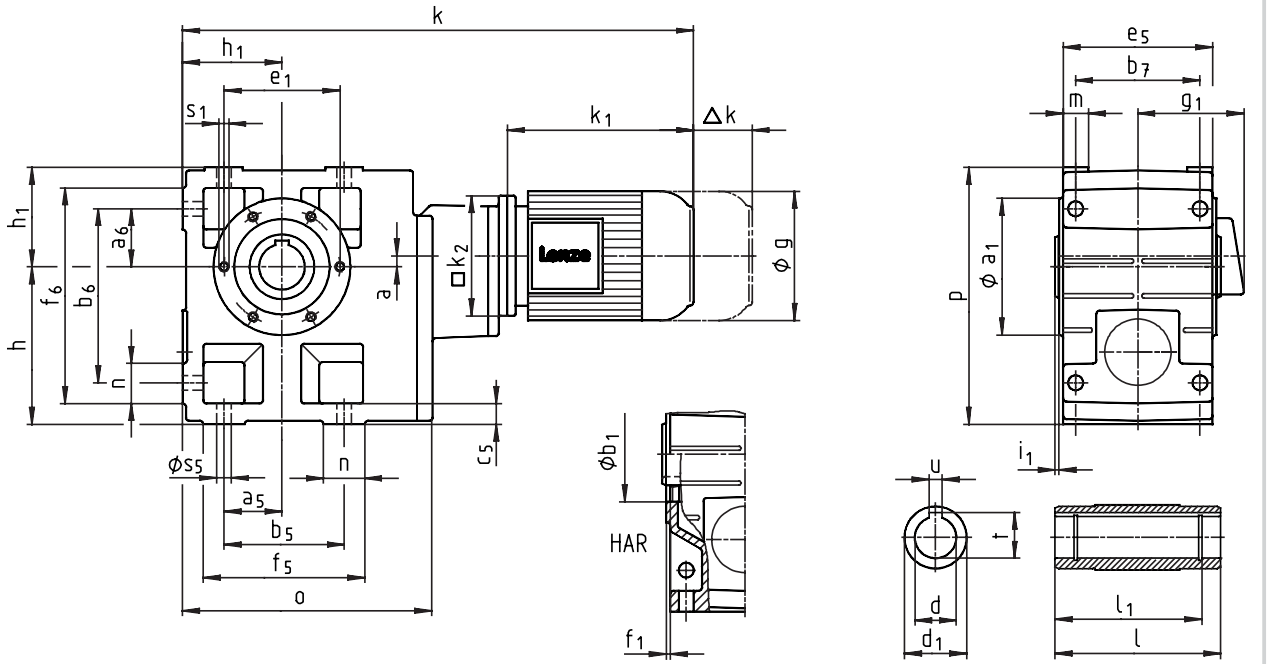
Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h*	h_1	a	k_8	q	k								
04	181	196	171	100	71	20	38	90.5	358	369	371	420	447				
05	212	230	205	125	80	23	40	103			392	441	469	507	537		
06	255	277	250	150	100	26	49	121			432	481	509	547	577	595	
07	305	351	310	190	120	33	65	155				524	552	590	620	638	733

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14

Dimensions in [mm]

d ≤ 50 mm: k_6
d > 50 mm: m_6

* Observe dimension k_2. With gearbox size 04 and motor frame size 090, dimension $k_2/2$ > h-a
** For additional attachments see section 8



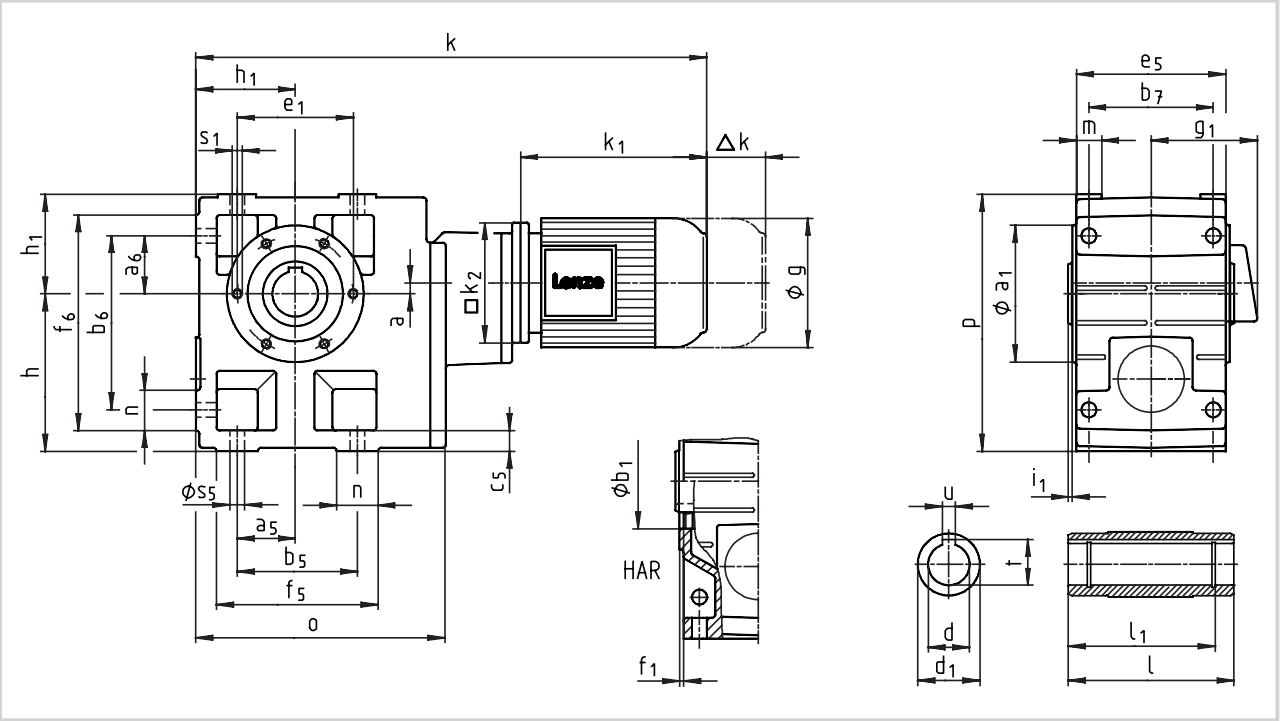
Geared motor **GSS □□ - 3 M H□R**			Motor frame size **063C12** **063C32** **063C42**	**071C32** **071C42**	**080C32** **080C42**	**090C32**	**100C12** **100C32**
Motor	**g**		123	138	156	176	196
	g_1	Without option	100	109	141	146	157
		Brake motor	107	116	130	135	146
	k_1		188	207	225	276	309
	k_2		120	120	145	180	180
	Δk **	Brake	40	52	73	70	79
		Separate fan	130	128	128	127	109
		Separate fan + brake	170	165	184	180	170

Gearbox size	Gearbox						Total length				
	o	**l***	**p***	**h**	**h_1**	**a**	**k**				
05	209	140	205	125	80	13	476	495	518	579	
06	252	160	250	150	100	10	533	552	575	636	
07	299	200	310	190	120	12	587	606	629	690	723

Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



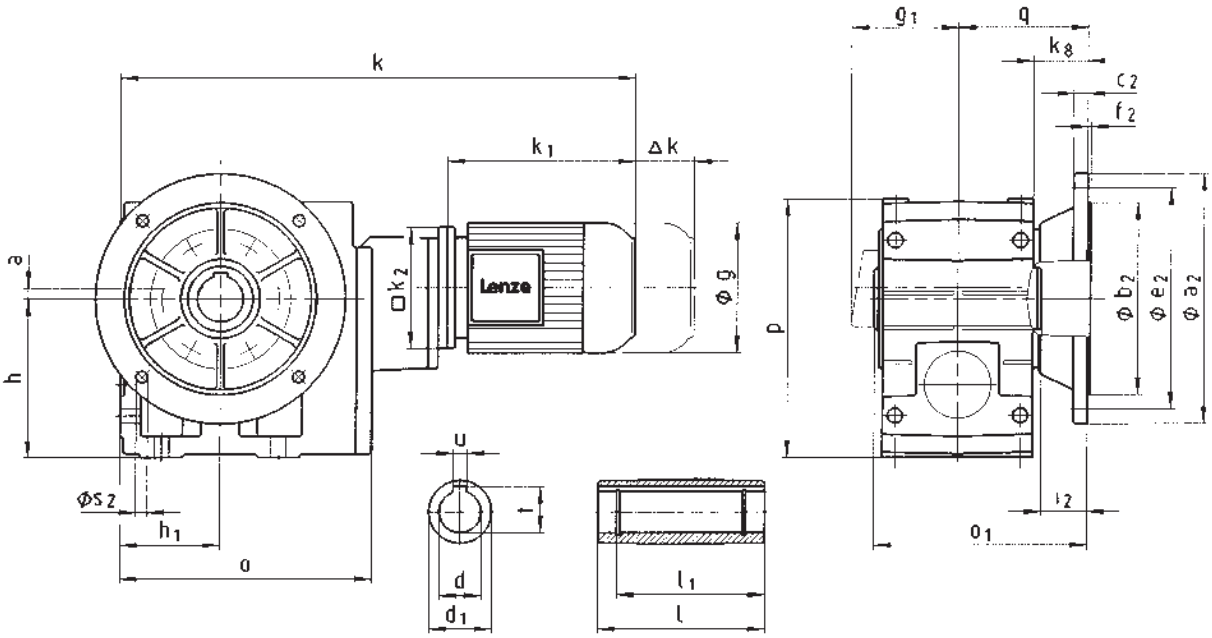
Geared motor **GSS □□ - 3 M H□R**			Motor frame size						
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**
Motor	**g**		129		142	156	178	194	
	g_1	Without option	105		131	131	141	158	
		Brake motor	105		131	131	140	159	
	k_1		193	204	176	225	242	280	310
	k_2		100		145	145	180	180	
	Δk**	Brake	56		66	68	74	94	
		Separate fan	71		80	94	101	97	
		Separate fan + brake	118		134	150	164	169	

Gearbox size	Gearbox						Total length						
	o	**l***	**p***	**h**	**h_1**	**a**	**k**						
05	209	140	205	125	80	13	456	467	469	518	545		
06	252	160	250	150	100	10	513	524	526	575	602		
07	299	200	310	190	120	12			580	629	656	694	724

Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



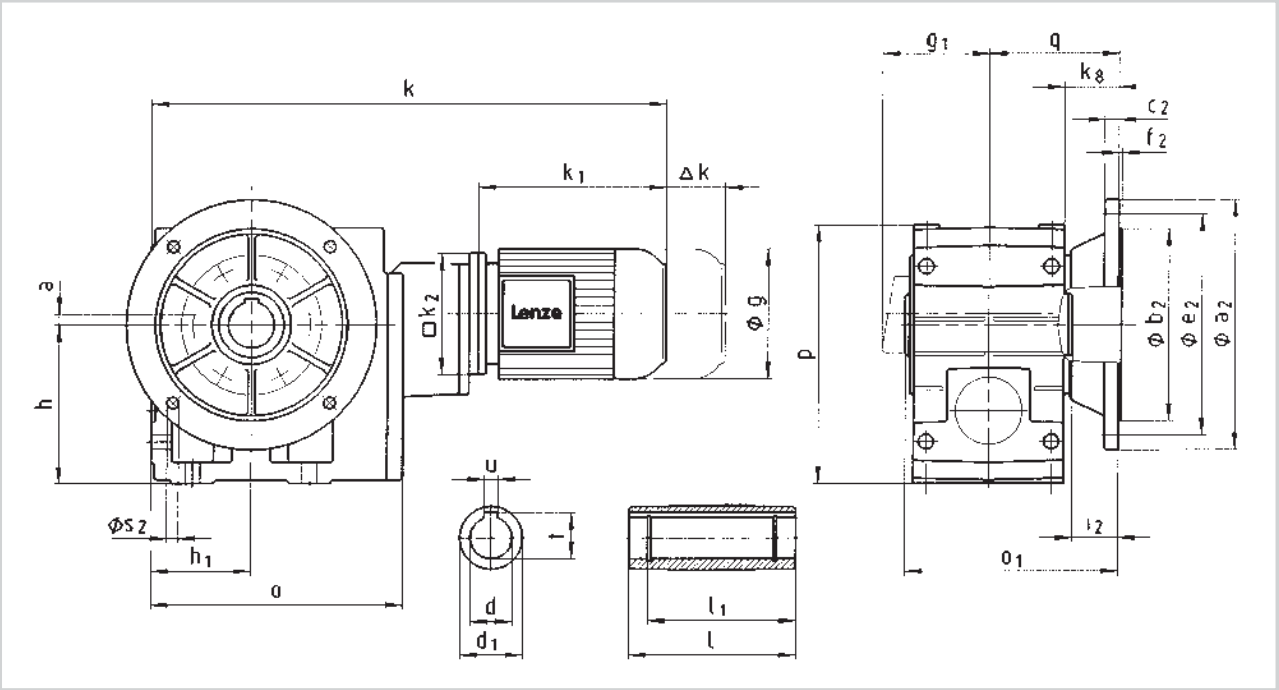
Geared motor **GSS □□ - 3 M HAK**			Motor frame size 063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32
Motor	g		123	138	156	176	196
	g_1	Without option	100	109	141	146	157
		Brake motor	107	116	130	135	146
	k_1		188	207	225	276	309
	k_2		120	120	145	180	180
	Δk **	Brake	40	52	73	70	79
		Separate fan	130	128	128	127	109
		Separate fan + brake	170	165	184	180	170

Gearbox size	Gearbox								Total length				
	o	o_1*	p*	h	h_1	a	k_8	q	k				
05	209	173	205	125	80	13	40	103	476	495	518	579	
06	252	201	250	150	100	10	49	121	533	552	575	636	
07	299	255	310	190	120	12	65	155	587	606	629	690	723

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



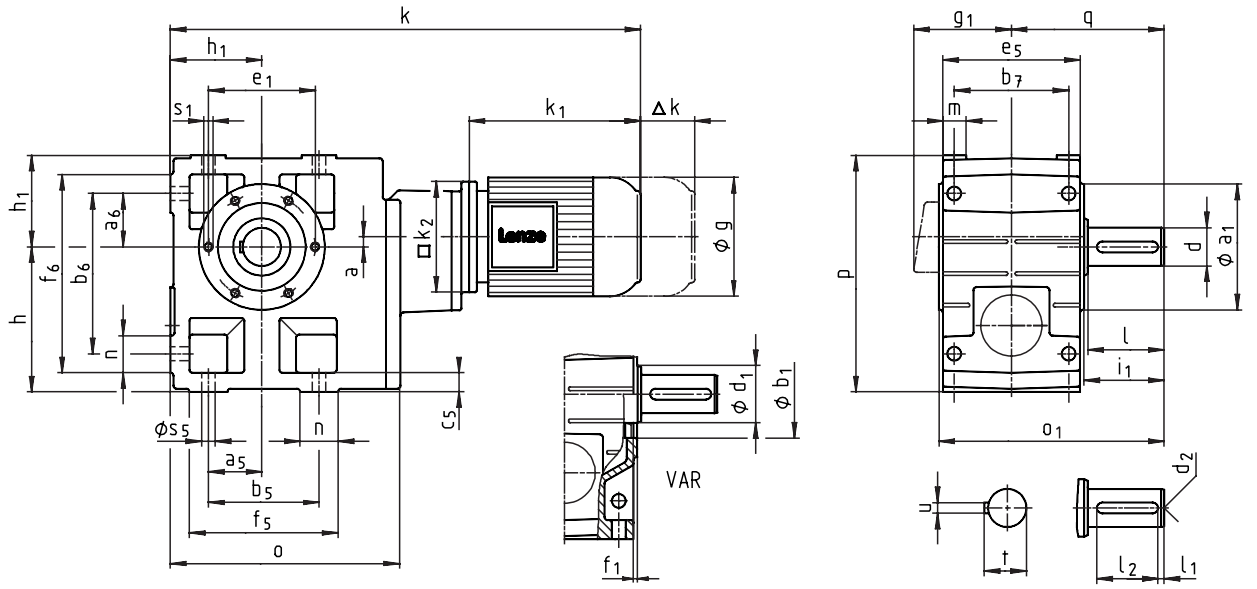
Geared motor **GSS □□ - 3 M HAK**			Motor frame size						
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**
Motor	g		129		142	156	178	194	
	g_1	Without option	105		131	131	141	158	
		Brake motor	105		131	131	140	159	
	k_1		193	204	176	225	242	280	310
	k_2		100		145	145	180	180	
	Δk**	Brake	56		66	68	74	94	
		Separate fan	71		80	94	101	97	
		Separate fan + brake	118		134	150	164	169	

Gearbox size	Gearbox								Total length						
	o	o_1*	p*	h	h_1	a	k_8	q	k						
05	209	173	205	125	80	13	40	103	456	467	469	518	545		
06	252	201	250	150	100	10	49	121	513	524	526	575	602		
07	299	255	310	190	120	12	65	155			580	629	656	694	724

Gearbox size	Hollow shaft						Output flange						
	d h7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14

Dimensions in [mm]

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GSS □□ - 3 M V□R**		Motor frame size **063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**
Motor	**g**	123	138	156	176	196
	g_1 Without option	100	109	141	146	157
	Brake motor	107	116	130	135	146
	k_1	188	207	225	276	309
	k_2	120	120	145	180	180
	Δk ** Brake	40	52	73	70	79
	Separate fan	130	128	128	127	109
	Separate fan + brake	170	165	184	180	170

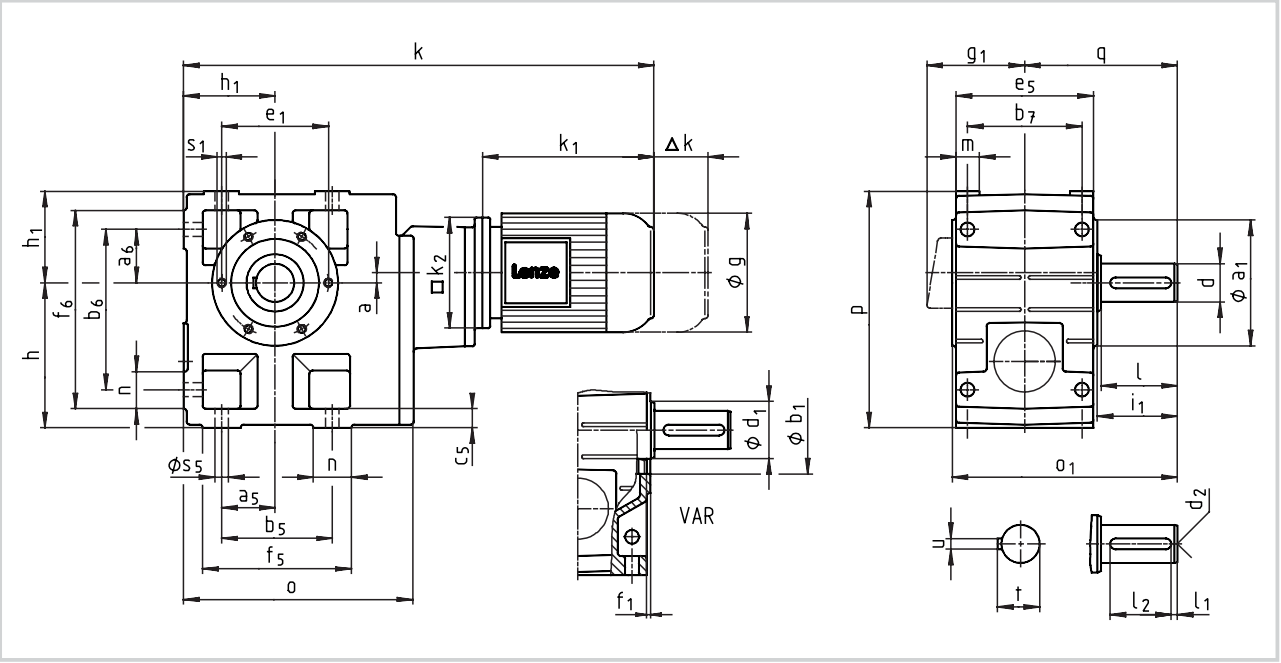
Gearbox size	Gearbox							Total length				
	o	**o_1***	**p***	**h**	**h_1**	**a**	**q**	**k**				
05	209	197	205	125	80	13	130	476	495	518	579	
06	252	236	250	150	100	10	160	533	552	575	636	
07	299	296	310	190	120	12	200	587	606	629	690	723

Gearbox size	Solid shaft								Pitch circle						Foot											
	d	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GSS □□ - 3 M V□R**			Motor frame size						
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**
Motor	**g**		129		142	156	178	194	
	g_1	Without option	105		131	131	141	158	
		Brake motor	105		131	131	140	159	
	k_1		193	204	176	225	242	280	310
	k_2		100		145	145	180	180	
	Δk **	Brake	56		66	68	74	94	
		Separate fan	71		80	94	101	97	
		Separate fan + brake	118		134	150	164	169	

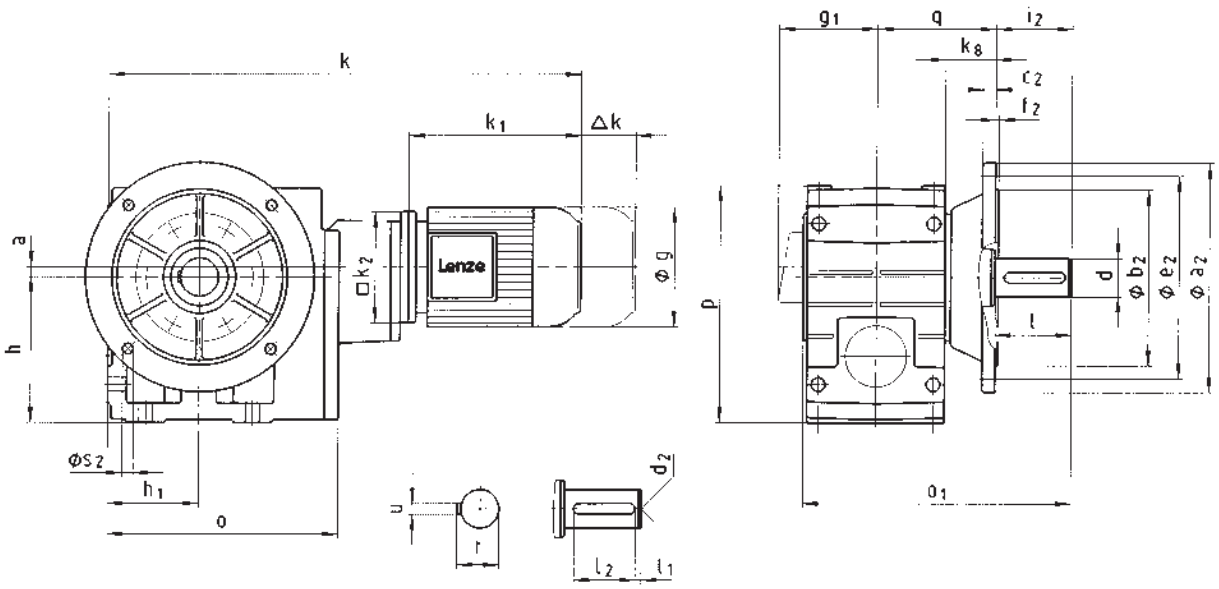
Gearbox size	Gearbox							Total length						
	o	**o_1***	**p***	**h***	**h_1**	**a**	**q**	**k**						
05	209	197	205	125	80	13	130	456	467	469	518	545		
06	252	236	250	150	100	10	160	513	524	526	575	602		
07	299	296	310	190	120	12	200			580	629	656	694	724

Gearbox size	Solid shaft								Pitch circle						Foot											
	d	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GSS □□ - 3 M VAK**			Motor frame size **063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**
Motor	g		123	138	156	176	196
	g_1	Without option	100	109	141	146	157
		Brake motor	107	116	130	135	146
	k_1		188	207	225	276	309
	k_2		120	120	145	180	180
	Δk **	Brake	40	52	73	70	79
		Separate fan	130	128	128	127	109
		Separate fan + brake	170	165	184	180	170

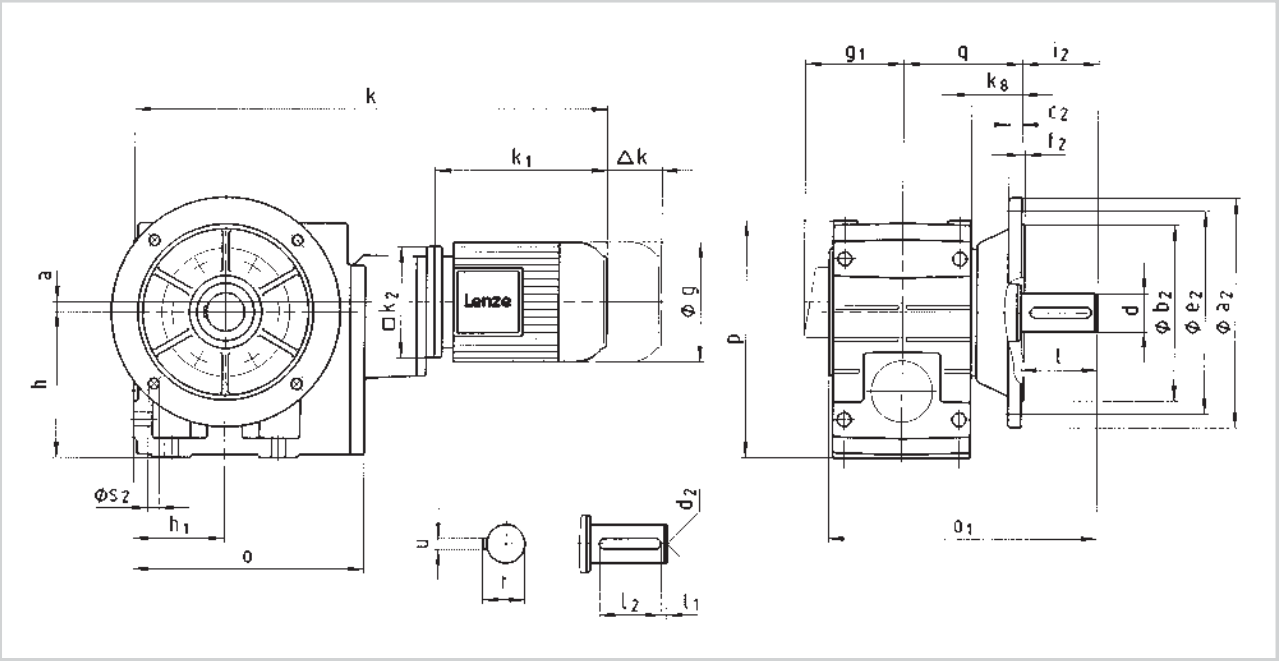
Gearbox size	Gearbox								Total length				
	o	o_1*	p*	h	h_1	a	k_8	q	k				
05	209	230	205	125	80	13	40	103	476	495	518	579	
06	252	277	250	150	100	10	49	121	533	552	575	636	
07	299	351	310	190	120	12	65	155	587	606	629	690	723

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8



Geared motor **GSS □□ - 3 M VAK**			Motor frame size						
			063-11	**063-31**	**071-1□ 071-3□**	**080-1□ 080-3□**	**090-11 090-31**	**100-31**	**100-41**
Motor	g		129		142	156	178	194	
	g_1	Without option	105		131	131	141	158	
		Brake motor	105		131	131	140	159	
	k_1		193	204	176	225	242	280	310
	k_2		100		145	145	180	180	
	Δk **	Brake	56		66	68	74	94	
		Separate fan	71		80	94	101	97	
		Separate fan + brake	118		134	150	164	169	

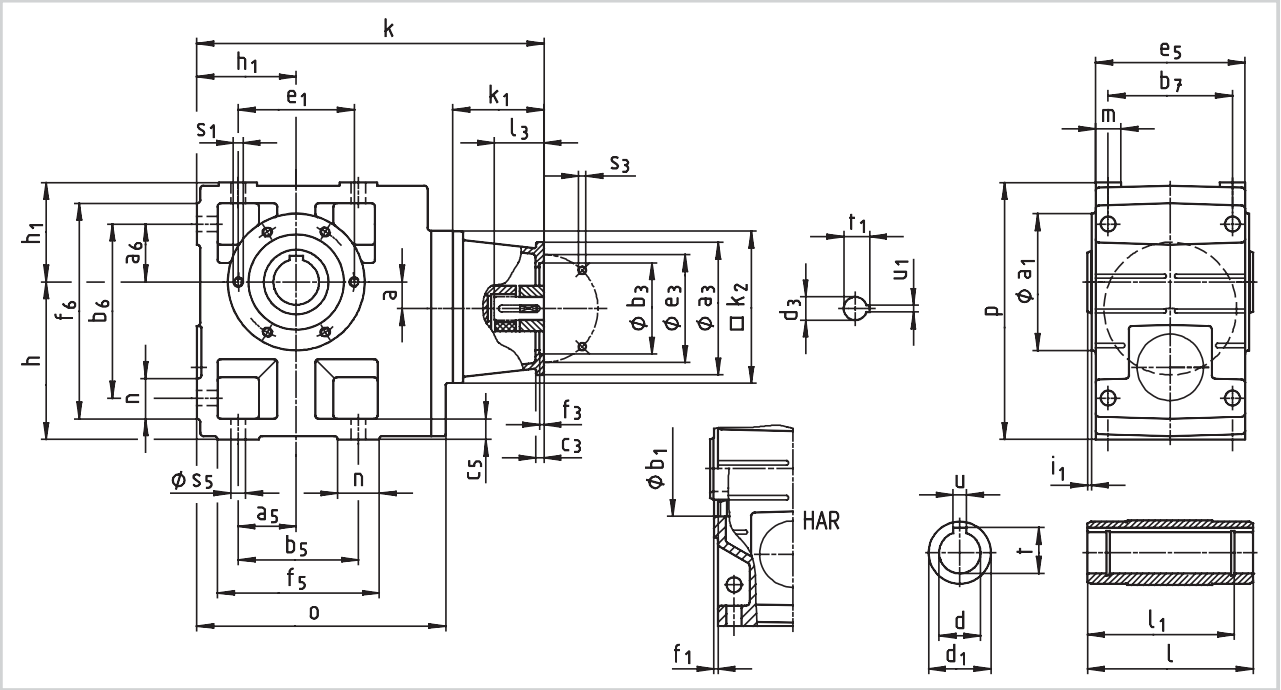
Gearbox size	Gearbox								Total length						
	o	o_1*	p*	h	h_1	a	k_8	q	k						
05	209	230	205	125	80	13	40	103	456	467	469	518	545		
06	252	277	250	150	100	10	49	121	513	524	526	575	602		
07	299	351	310	190	120	12	65	155			580	629	656	694	724

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30	60	6	45	M10	8	33	200	130	12	165	3,5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14,5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53,5	250 300	180 230	14,5 16,5	215 265	4	100	4 x 14

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2
** For additional attachments see section 8

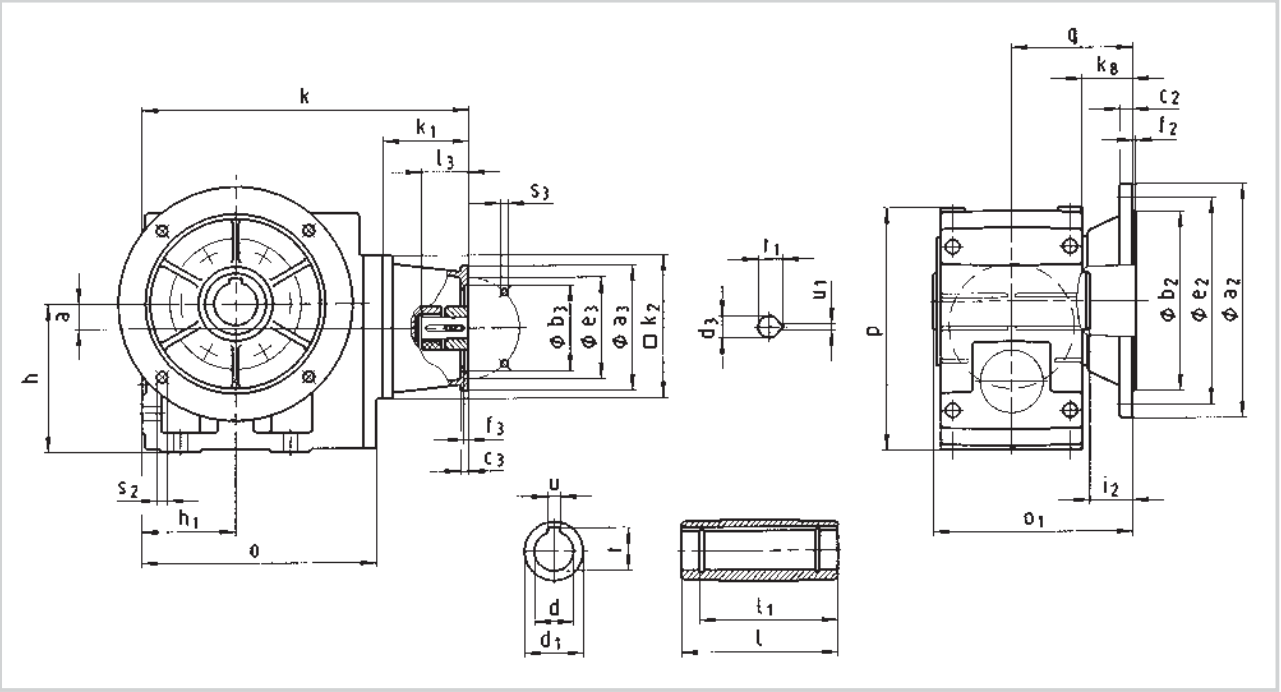


Gearbox **GSS □□ - 2 N H□R** corresponds to IEC motor			Drive size																		
			1A	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**	**1F**	**2F**	**1G**	**2G**	**3G**	**1H**	**3H**
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	132
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	188
		k_2	120	145	120	145				180		180			180			265		300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	300
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	230
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	18
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	265
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	4.5
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	13.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	38
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	80
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	80
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	10
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	41

Gearbox size	Gearbox						Total length														
	o	**l***	**p***	**h***	**h_1**	**a**	**k**														
04	181	115	171	100	71	20	265	272	265	286		320									
05	212	140	205	125	80	23		294		308		342		337							
06	255	160	250	150	100	26		334		348		382		377		406					
07	305	200	310	190	120	33				391		425		420		449	504	484	504	547	517

Gearbox size	Hollow shaft						Pitch circle						Foot										
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
04	25 30	115	45	100	8 8	28.3 33.3	105	75	90	3	2.5	M6x12	45	45	90	119	85	14	100	112	141	22	20	9
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm] * Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2 > h-a$

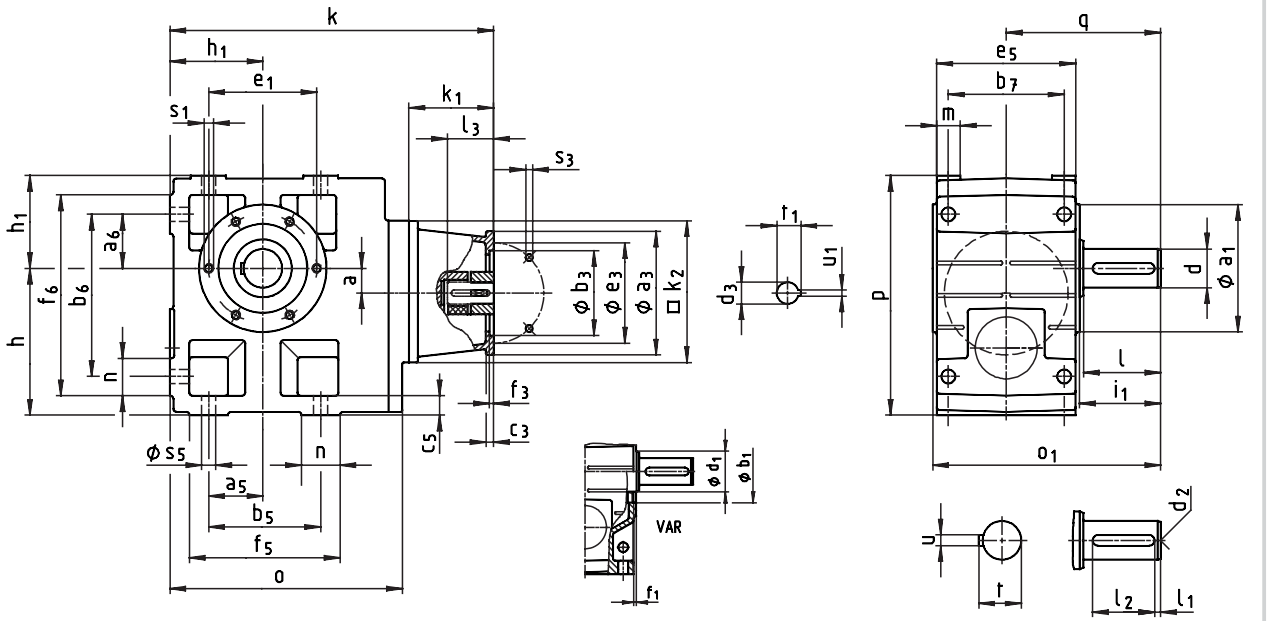


Gearbox **GSS □□ - 2 N HAK** corresponds to IEC motor			Drive size																	
			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	3H
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	132
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	188
		k_2	120	145	120	145				180		180			180			265		300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	300
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	230
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	18
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	265
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	4.5
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	13.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	38
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	80
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	80
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	10
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	41

Gearbox size	Gearbox								Total length
	o	o_1*	p*	h*	h_1	a	k_8	q	k
04	181	148	171	100	71	20	38	90.5	265 272 265 286 320
05	212	173	205	125	80	23	40	103	294 308 342 337
06	255	201	250	150	100	26	49	121	334 348 382 377 406
07	305	255	310	190	120	33	65	155	391 425 420 449 504 484 504 547 517

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2$ > h-a



Gearbox **GSS □□ - 2 N V□R** corresponds to IEC motor			Drive size																		
			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	3H
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	132
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	188
		k_2	120	145	120	145				180		180			180			265		300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	300
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	230
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	18
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	265
		f_3	3	3		4	4	3	3.5	4		4			4			4.5		6	4.5
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9			13.5		17.5	13.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	38
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	80
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	80
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	10
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	41

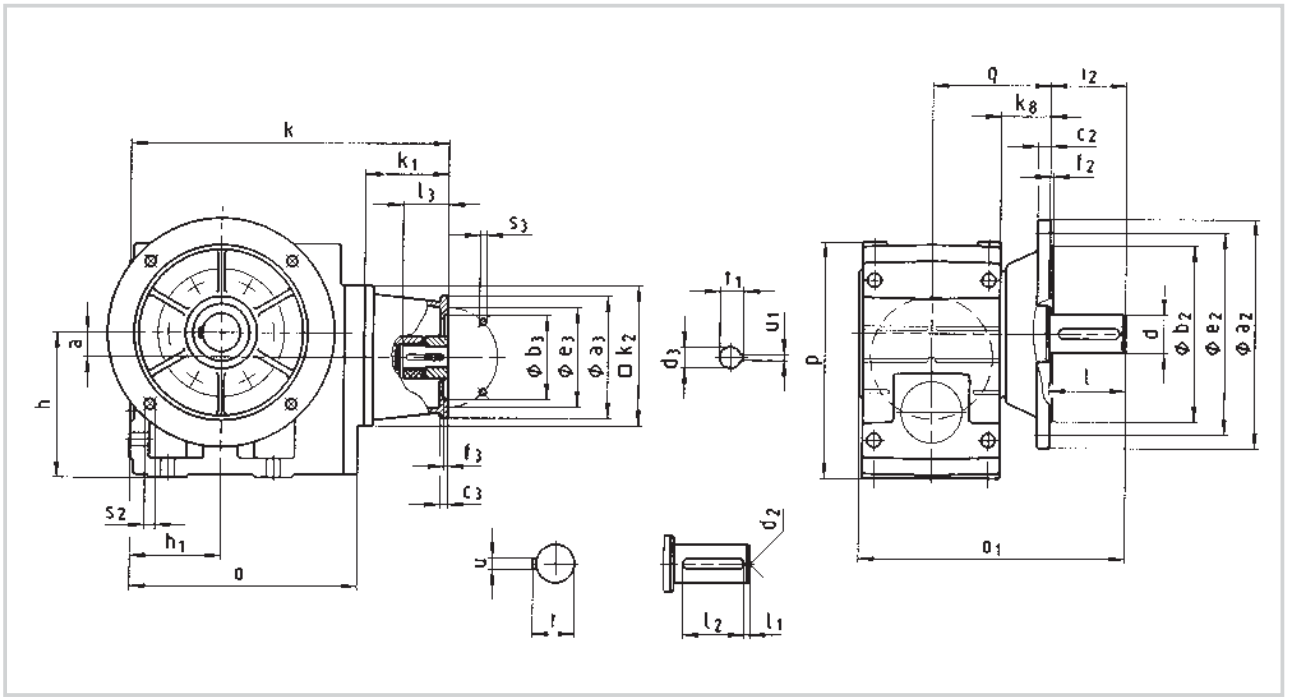
Gearbox size	Gearbox							Total length													
	o	o_1*	p*	h*	h_1	a	q	k													
04	181	163	171	100	71	20	1075	265	272	265	286		320								
05	212	197	205	125	80	23	130		294		308		342		337						
06	255	236	250	150	100	26	160		334		348		382		377		406				
07	305	296	310	190	120	33	200				391		425		420		449		504	484	504	547	517

Gearbox size	Solid shaft								Pitch circle						Foot										
	d	l	d_1	l_1	l_2	d_2	u	t	a_1	b_1 H7	e_1	f_1	i_1	s_1 6x60°	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	90	119	85	14	100	112	141	22	20	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2 > h-a$



Gearbox **GSS □□ - 2 N VAK** corresponds to IEC motor			Drive size																		
			1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	3G	1H	3H
			63	71	63	80		71	71	90	80	100 112	90	80	100 112	90	132	100 112		160	132
	Housing	k_1	75	77	75	91				115		110			139		180	160	180	218	188
		k_2	120	145	120	145				180		180			180			265		300	
	Flange	a_3	90	105	90	160	160	105	120	160		160			160		300	250	250	350	300
		b_3 H8	60	70	60	110	110	70	80	110		110			110		230	180	180	250	230
		c_3	7	8	7	10	10	8	8	10		10			10		18	18	35	20	18
		e_3	75	85	75	130	130	85	100	130		130			130		265	215	215	300	265
		f_3	3	3		4	4	3	3.5	4		4			4		4.5			6	4.5
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9		13.5			17.5	13.5
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	38	42	38
		l_3 min	23	30	23	25				50	40	30			30		80	60	80	110	80
		l_3 max	23	30	23	40				50	50	60			60		80	60	80	110	80
		u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	10	12	10
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	41	45	41

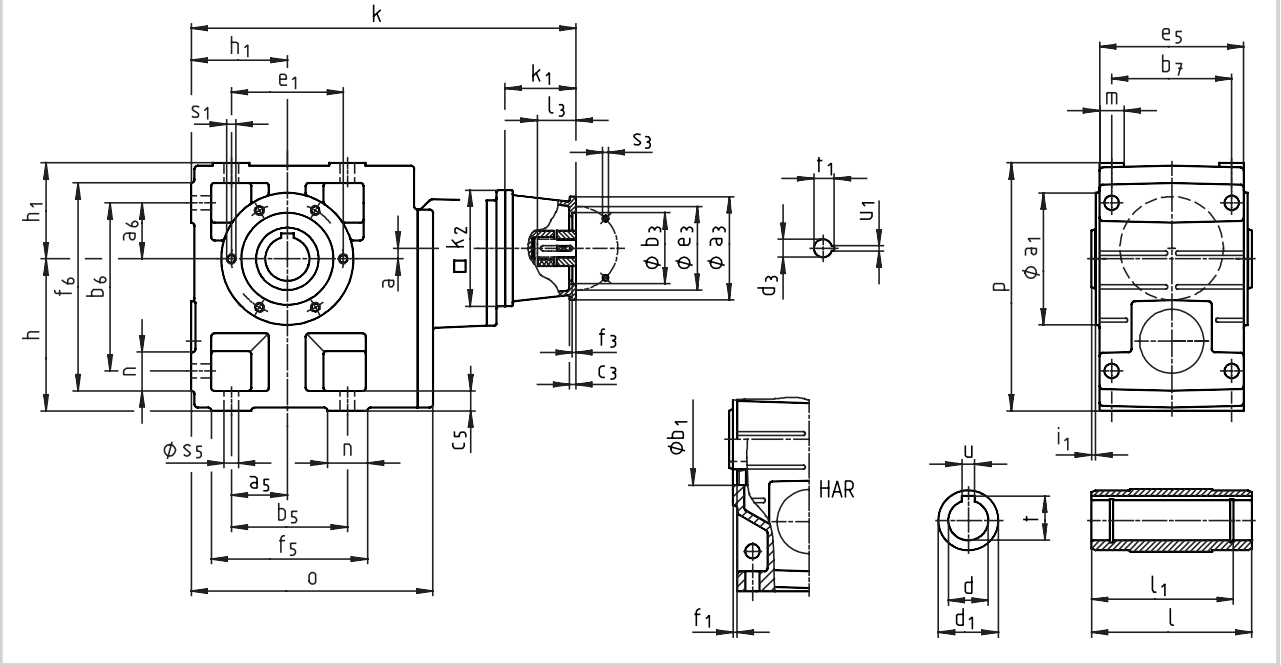
Gearbox size	Gearbox								Total length												
	o	o_1*	p*	h*	h_1	a	k_8	q	k												
04	181	196	171	100	71	20	38	90.5	265	272	265	286		320							
05	212	230	205	125	80	23	40	103		294		308		342	337						
06	255	277	250	150	100	26	49	121		334		348		382	377	406					
07	305	351	310	190	120	33	65	155				391		425	420	449	504	484	504	547	517

Gearbox size	Solid shaft							Output flange						
	d	l	l_1	l_2	d_2	u	t	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2 . With gearbox size 04 and drive size 1D/2D, dimension $k_2/2 > h-a$



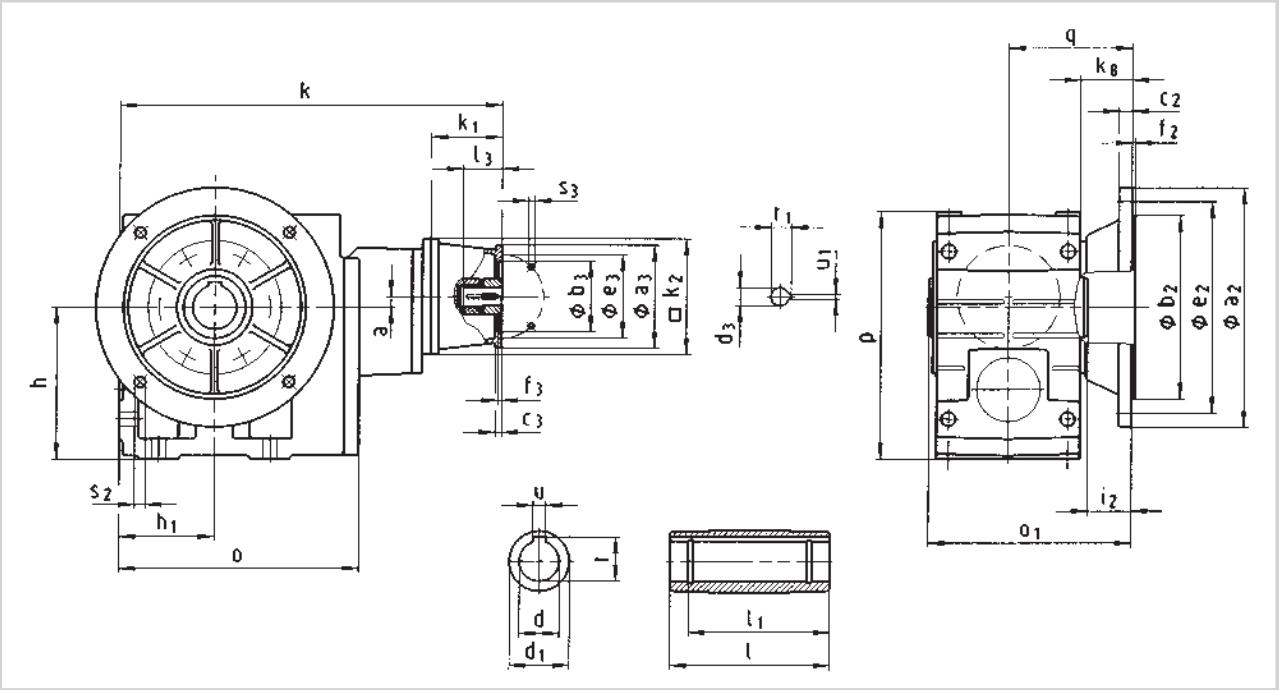
Gearbox **GSS □□ - 3 N H□R** corresponds to IEC motor			Drive size											
			1A	**1B**	**2B**	**1C**	**2C**	**3C**	**4C**	**1D**	**2D**	**1E**	**2E**	**3E**
			63	71	63	80		71	71	90	80	100 112	90	80
	Housing	k_1	75	77	75	91				115		110		
		k_2	120	145	120	145				180		180		
	Flange	a_3	90	105	90	160	160	105	120	160		160		
		b_3 H8	60	70	60	110	110	70	80	110		110		
		c_3	7	8	7	10	10	8	8	10		10		
		e_3	75	85	75	130	130	85	100	130		130		
		f_3	3	3		4	4	3	3.5	4		4		
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9		
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19
		l_3 min	23	30	23	25				50	40	30		
		l_3 max	23	30	23	40				50	50	60		
		u_1	4	5	4	6	5	5	5	8	6	8	8	6
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5

Gearbox size	Gearbox						Total length							
	o	**l***	**p***	**h**	**h_1**	**a**	**k**							
05	209	140	205	125	80	13	363	370	363	363		418		
06	252	160	250	150	100	10	420	427	420	441		475		
07	299	200	310	190	120	12		481		495		529	524	

Gearbox size	Hollow shaft						Pitch circle						Foot											
	d H7	**l**	**d_1**	**l_1**	**u** JS9	**t** +0.2	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

* Observe dimension k_2



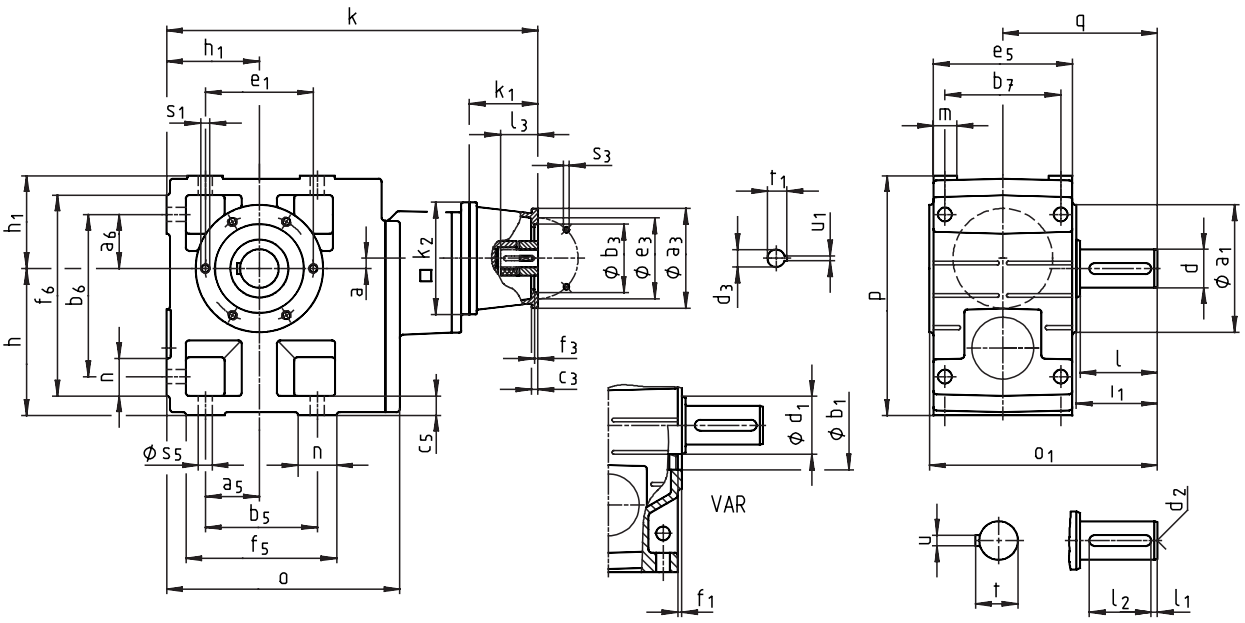
Gearbox **GSS □□ - 3 N H□K** corresponds to IEC motor				Drive size												
				1A 63	**1B** 71	**2B** 63	**1C** 80	**2C**	**3C** 71	**4C** 71	**1D** 90	**2D** 80	**1E** 100 112	**2E** 90	**3E** 80
	Housing		k_1	75	77	75	91				115		110		
			k_2	120	145	120	145				180		180		
	Flange		a_3	90	105	90	160	160	105	120	160		160		
		H8	b_3	60	70	60	110	110	70	80	110		110		
			c_3	7	8	7	10	10	8	8	10		10		
			e_3	75	85	75	130	130	85	100	130		130		
			f_3	3	3		4	4	3	3.5	4		4		
		4 x	s_3	5.5	6.6	5.5	9	9	6.6	6.6	9		9		
	Required motor shafts		d_3	11	14	11	19	14	14	14	24	19	28	24	19
		min	l_3	23	30	23	25				50	40	30		
		max		23	30	23	40				50	50	60		
			u_1	4	5	4	6	5	5	5	8	6	8	8	6
			t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5

Gearbox size	Gearbox								Total length								
	o	o_1*	p*	h	h_1	a	k_8	q	k								
05	209	173	205	125	80	13	40	103	363	370	363	363		418			
06	252	201	250	150	100	10	49	121	420	427	420	441		475			
07	299	255	310	190	120	12	65	155		481		495		529		524	

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14

Dimensions in [mm]

* Observe dimension k_2



Gearbox **GSS □□ - 3 N V□R** corresponds to IEC motor			Drive size											
			1A 63	**1B** 71	**2B** 63	**1C** 80	**2C**	**3C** 71	**4C** 71	**1D** 90	**2D** 80	**1E** 100 112	**2E** 90	**3E** 80
	Housing	k_1	75	77	75	91				115		110		
		k_2	120	145	120	145				180		180		
	Flange	a_3	90	105	90	160	160	105	120	160		160		
		b_3 H8	60	70	60	110	110	70	80	110		110		
		c_3	7	8	7	10	10	8	8	10		10		
		e_3	75	85	75	130	130	85	100	130		130		
		f_3	3	3		4	4	3	3.5	4		4		
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9		
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19
		l_3 min	23	30	23	25				50	40	30		
		l_3 max	23	30	23	40				50	50	60		
		u_1	4	5	4	6	5	5	5	8	6	8	8	6
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5

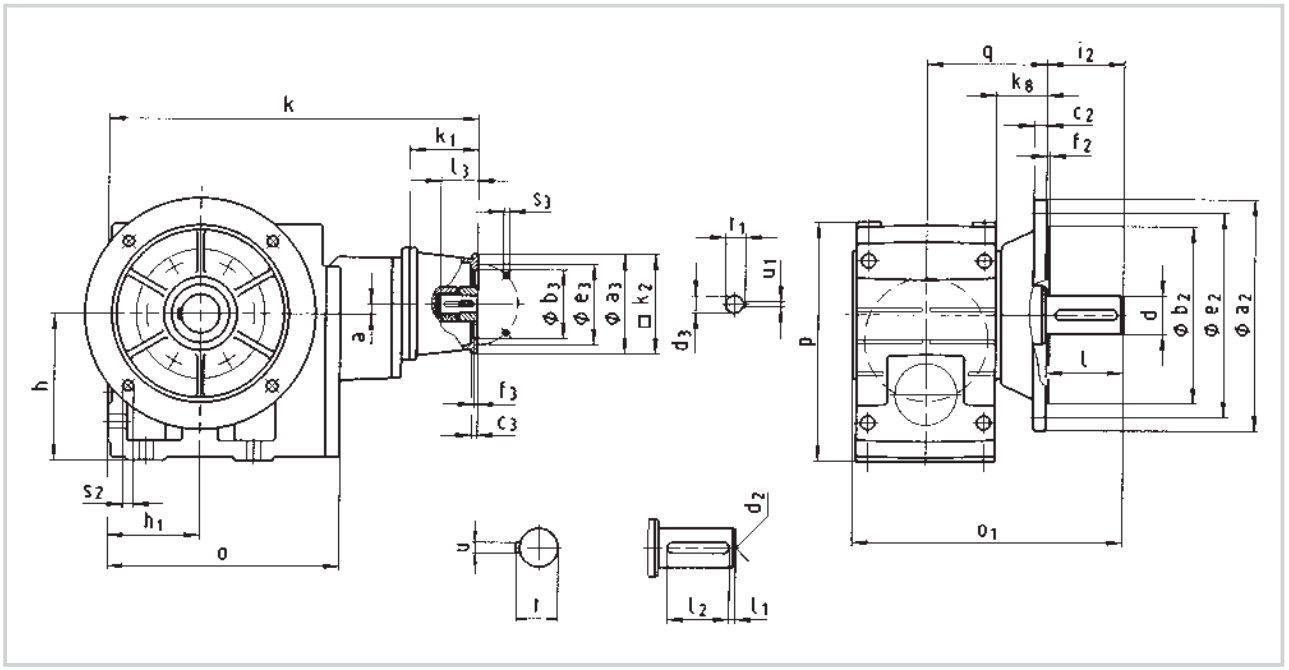
Gearbox size	Gearbox							Total length								
	o	**o_1***	**p***	**h**	**h_1**	**a**	**q**	**k**								
05	209	197	205	125	80	13	130	363	370	363	363		418			
06	252	236	250	150	100	10	160	420	427	420	441		475			
07	299	296	310	190	120	12	200		481		495		529		524	

Gearbox size	Solid shaft								Pitch circle						Foot											
	d	**l**	**d_1**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_1**	**b_1** H7	**e_1**	**f_1**	**i_1**	**s_1** 6x60°	**a_5**	**a_6**	**b_5**	**b_6**	**b_7**	**c_5**	**e_5**	**f_5**	**f_6**	**n**	**m**	**s_5**
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	95	140	105	17	127	124	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	120	170	120	20	145	156	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	140	210	150	25	180	185	255	45	28	18

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2



Gearbox **GSS □□ - 3 N VAK** corresponds to IEC motor			Drive size											
			1A 63	**1B** 71	**2B** 63	**1C** 80	**2C**	**3C** 71	**4C** 71	**1D** 90	**2D** 80	**1E** 100 112	**2E** 90	**3E** 80
	Housing	k_1	75	77	75	91				115		110		
		k_2	120	145	120	145				180		180		
	Flange	a_3	90	105	90	160	160	105	120	160		160		
		b_3 H8	60	70	60	110	110	70	80	110		110		
		c_3	7	8	7	10	10	8	8	10		10		
		e_3	75	85	75	130	130	85	100	130		130		
		f_3	3	3		4	4	3	3.5	4		4		
		s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9		
	Required motor shafts	d_3	11	14	11	19	14	14	14	24	19	28	24	19
		l_3 min	23	30	23	25				50	40	30		
		l_3 max	23	30	23	40				50	50	60		
		u_1	4	5	4	6	5	5	5	8	6	8	8	6
		t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5

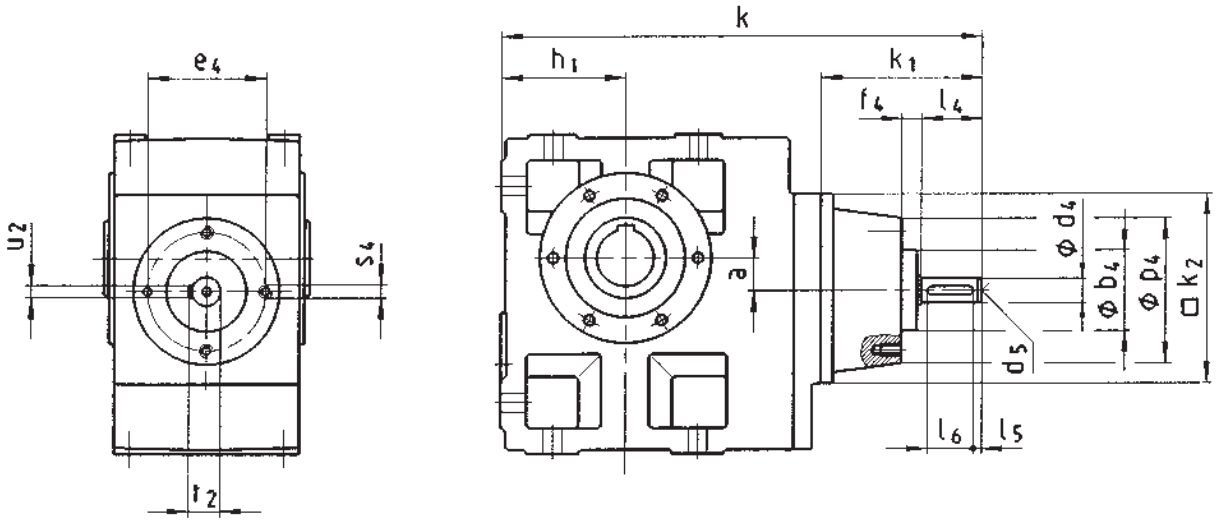
Gearbox size	Gearbox								Total length
	o	**o_1***	**p***	**h**	**h_1**	**a**	**k_8**	**q**	**k**
05	209	230	205	125	80	13	40	103	363 / 370 / 363 / 384 / 418
06	252	277	250	150	100	10	49	121	420 / 427 / 420 / 441 / 475
07	299	351	310	190	120	12	65	155	481 / 495 / 529 / 524

Gearbox size	Solid shaft							Output flange						
	d	**l**	**l_1**	**l_2**	**d_2**	**u**	**t**	**a_2**	**b_2** j7	**c_2**	**e_2**	**f_2**	**i_2**	**s_2**
05	30	60	6	45	M10	8	33	200	130	12	165	3,5	60	4 x 11
06	40	80	7	63	M16	12	43	250	180	14,5	215	4	80	4 x 14
07	50	100	8	80	M16	14	53,5	250 300	180 230	14,5 16,5	215 265	4	100	4 x 14

Dimensions in [mm]

d ≤ 50 mm: k6
d > 50 mm: m6

* Observe dimension k_2

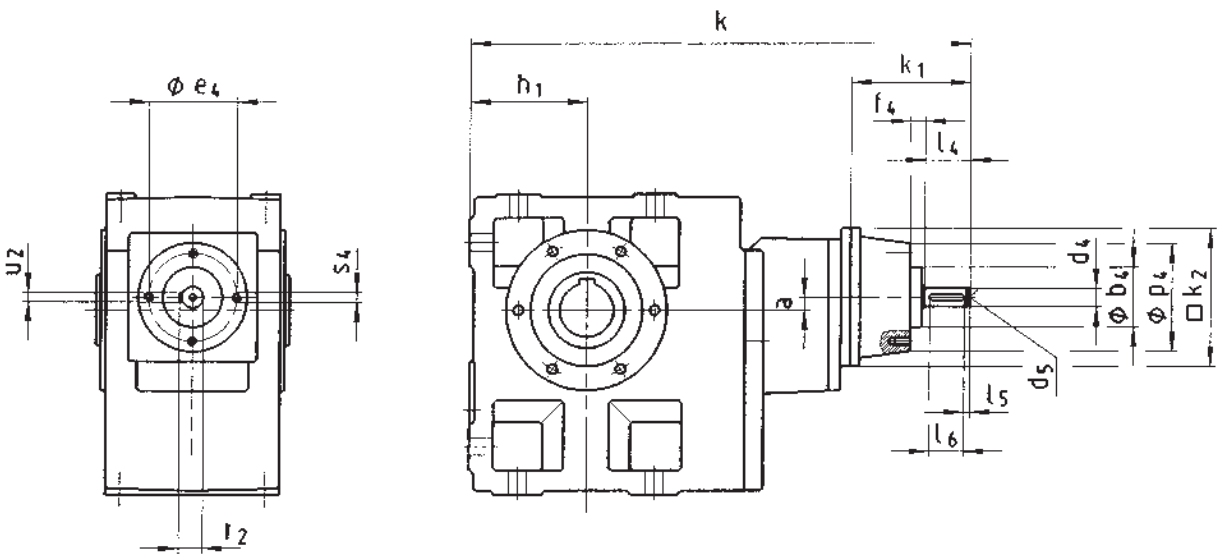


Gearbox GSS □□ - 2 W □□□			Drive size 1A	1B	1C	1D	1E	1F	1G
Housing	k_1		100	100	102	130	160	175	175
	k_2		115	115	145	145	180	222	222
Pitch circle with centring	p_4		80	86	90	120	142	178	216
	b_4	js8	52	52	52	65	78	98	125
	e_4		67	67	67	90	115	145	175
	f_4		12	12	12	12	22	23	23
	s_4	4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30
Input shaft	d_4	k6	14	14	14	19	24	28	38
	l_4		35	35	40	50	60	80	100
	l_5		4.5	4.5	4	4	6	7	8
	l_6		25	25	32	40	45	63	80
	d_5		M6	M6	M6	M6	M8	M10	M12
	u_2		5	5	5	6	8	8	10
	t_2		16	16	16	21.5	27	31	41

Gearbox size	Gearbox *		Total length						
	h_1	a	k						
04	71	20	265	265	297				
05	80	23		293	318	346			
06	100	26			358	386	426	447	
07	120	33				429	469	490	490

Dimensions in [mm]

*** For further dimensions see Dimensions- Helical-worm geared motors**



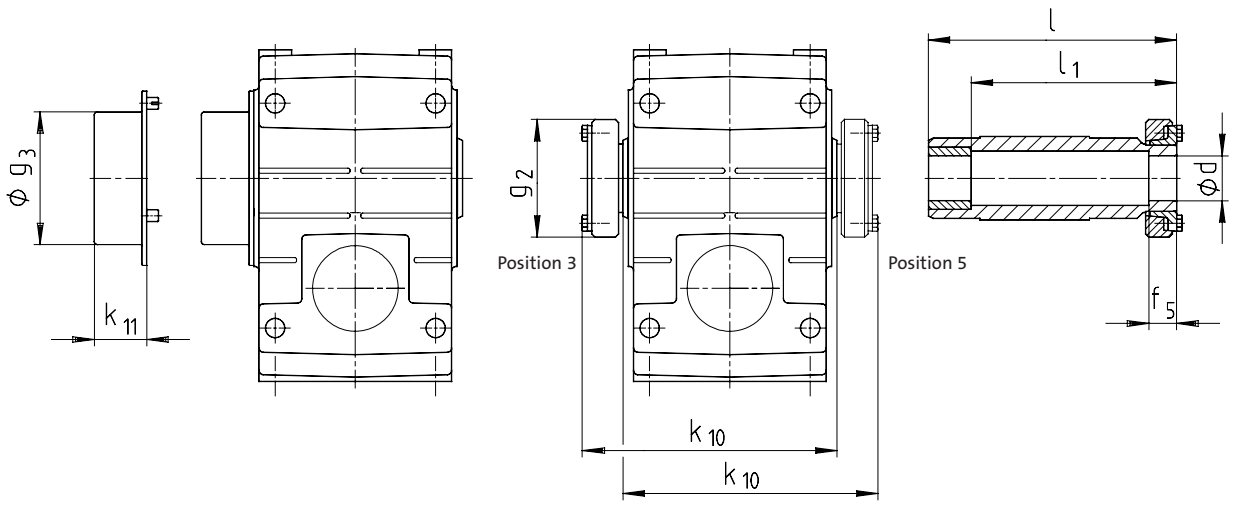
Gearbox			Drive size			
GSS □□ - 3 W □□□			**1A**	**1B**	**1C**	**1D**
	Housing	k_1	100	100	102	130
		k_2	115	115	145	145
	Pitch circle with centring	p_4	80	86	90	120
		b_4 js8	52	52	52	65
		e_4	67	67	67	90
		f_4	12	12	12	12
		s_4 4 x	M6x12	M6x12	M6x12	M8x16
	Input shaft	d_4 k6	14	14	14	19
		l_4	35	35	40	50
		l_5	4.5	4.5	4	4
		l_6	25	25	32	40
		d_5	M6	M6	M6	M6
		u_2	5	5	5	6
		t_2	16	16	16	21.5

Gearbox size	Gearbox *		Total length			
	h_1	a	k			
05	80	13	363	363	395	
06	100	10	420	420	452	
07	120	12		481	506	534

Dimensions in [mm]

*** For further dimensions see Dimensions- Helical-worm geared motors**

Hollow shaft with shrink disc

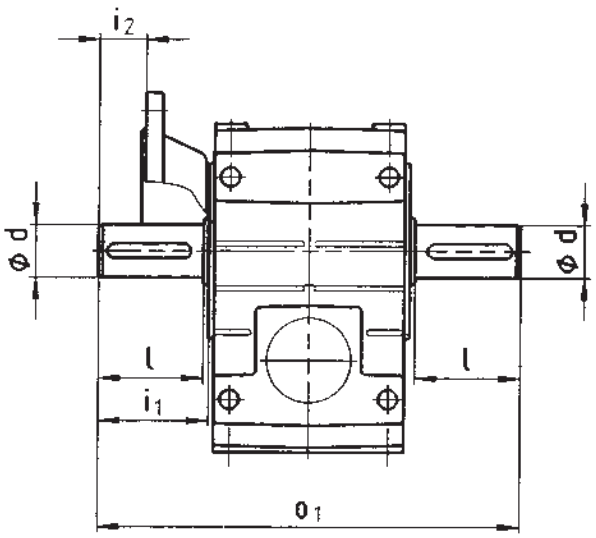


Gearbox size	Machine shaft*		Hollow shaft			Gearbox		Protective cover	
	d	Fit	l	l_1	f_5	g_2	k_{10}	g_3	k_{11}
04	25 30	h6	142	122	26	72	146	79	41
05	35	h6	168	148	28	80	171	90	43
06	40	h6	194	164	30	90	197	100	49
07	50	h6	232	192	26	110	234	124	49

Dimensions in [mm]

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4) the torque values given in the selection tables can be transmitted without restriction. If less rigid materials are being used, please contact us. The average surface roughness R_z should not exceed 15 µm (turning is sufficient).

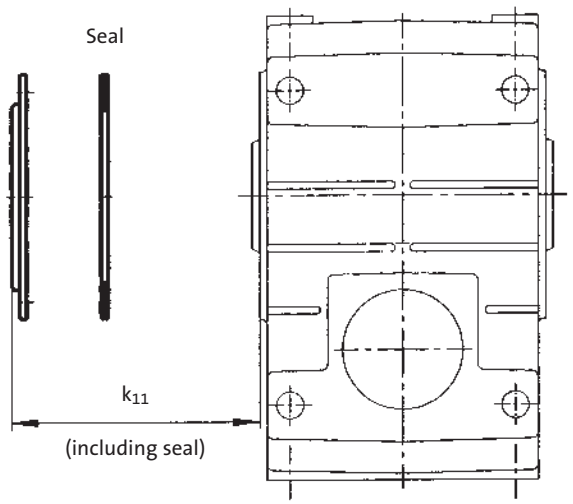
Gearbox with 2nd output shaft



Gearbox size	d	l	i_1	i_2	o_1
04	25	50	52.5	17	215
05	30	60	64	27	260
06	40	80	85	39	320
07	50	100	105	45	400

Dimensions in [mm]

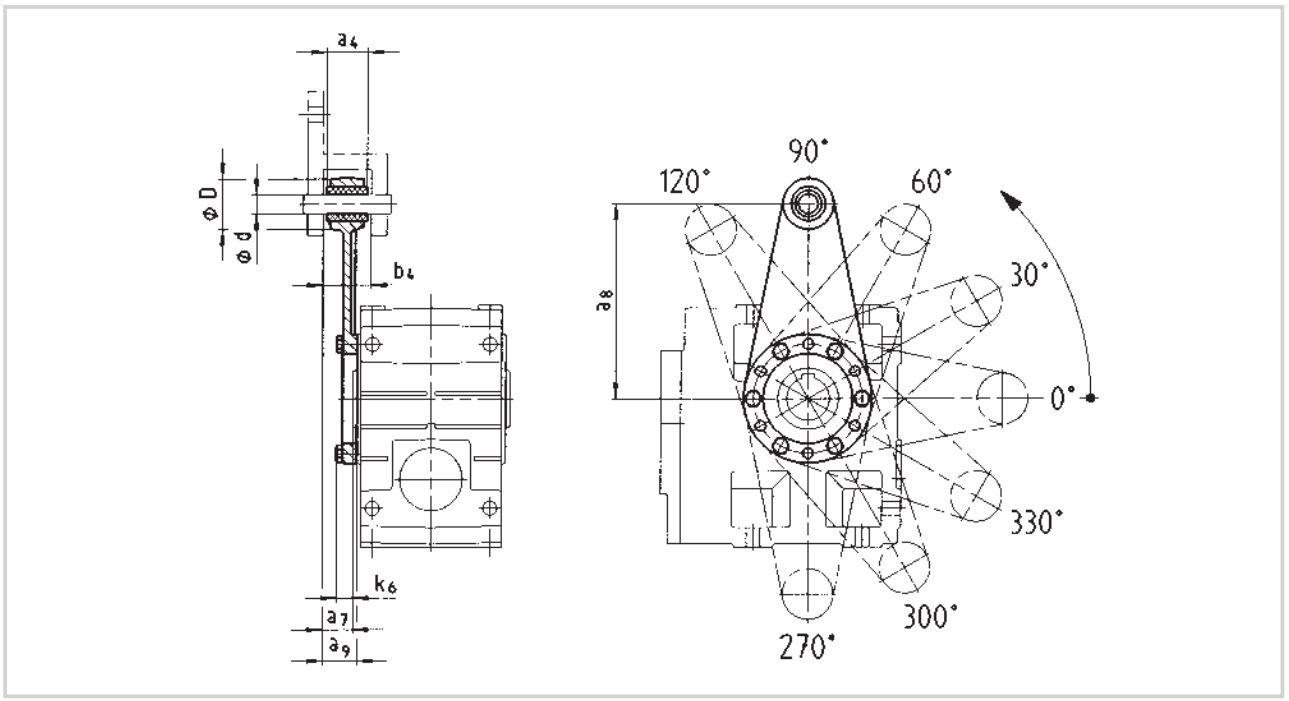
Jet-proof hollow shaft cover



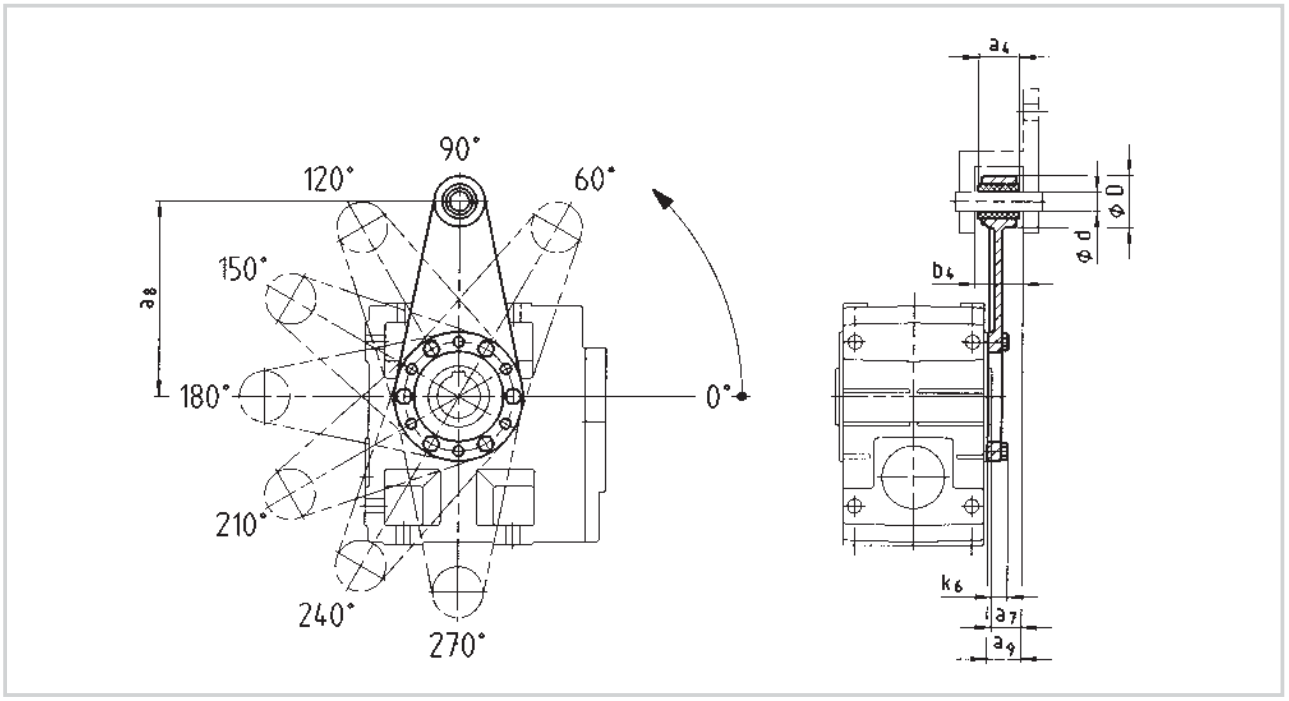
Gearbox size	Protective cover k_{11}
04	9
05	10
06	11
07	11

Dimensions in [mm]

Torque plate at pitch circle, position 3



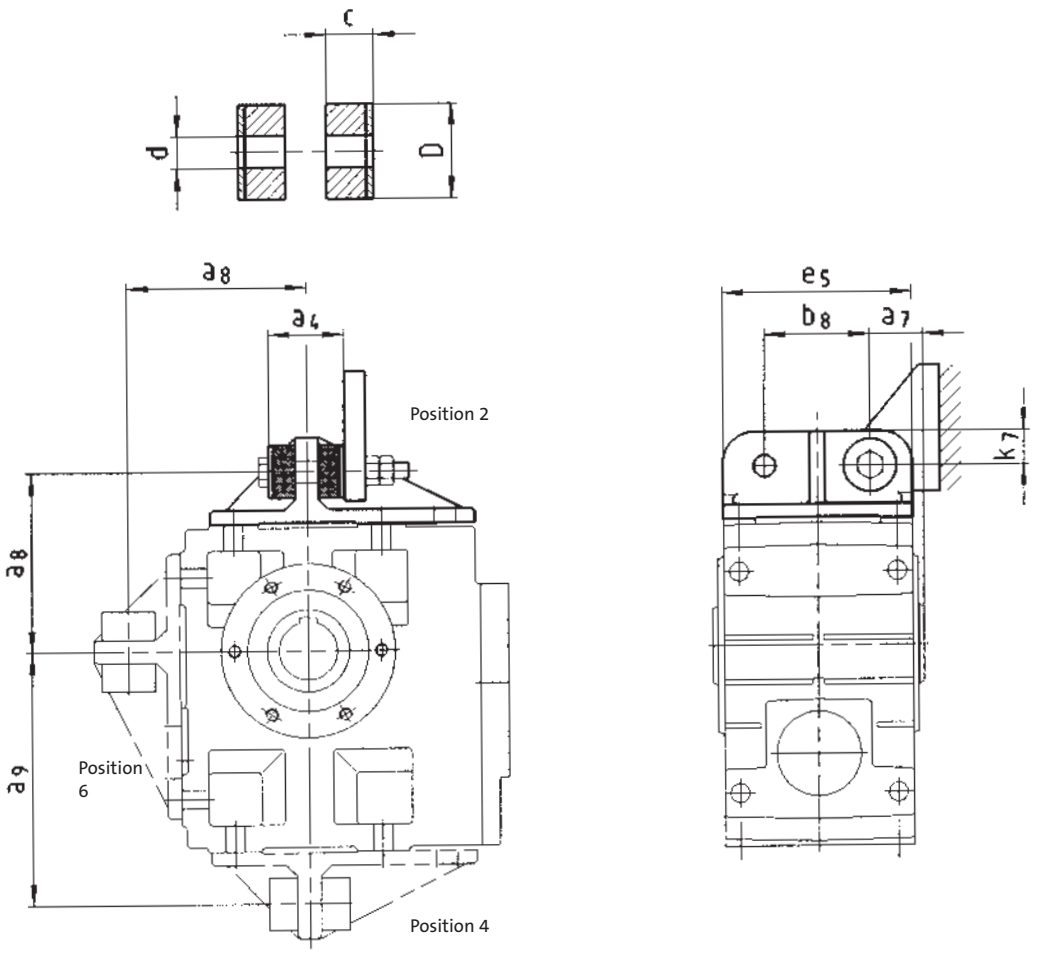
Torque plate at pitch circle, position 5



Gearbox size	Assembly space		Torque plate					
	a_7	b_4	a_4	a_8	a_9	d	D	k_6
04	24	34.5	30	130	26.5	12	35	16
05	23.5	38.5	34	160	27.5	16	45	15
06	28	44.5	40	200	33	20	50	18
07	32.5	50.5	46	250	37.5	25	65	21

Dimensions in [mm]

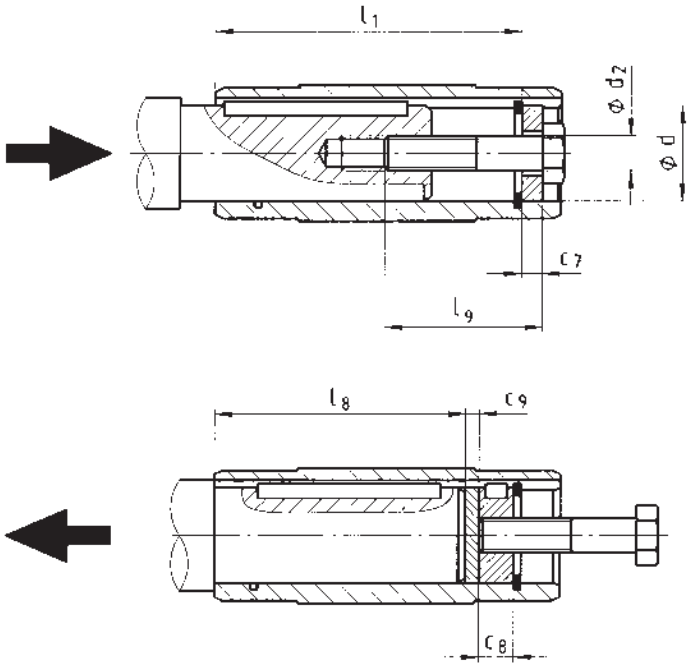
Torque plate at housing foot



Gearbox size	a_4	a_7	a_8	a_9	b_8	c	d	D	e_5	k_7
04	41	27.5	106	135	60	14.5	11	30	100	20
05	45	35	115	160	70	15	13	40	127	25
06	72	40	145	195	80	27	17	50	145	28
07	78	50	170	240	100	28	21	60	180	35

Dimensions in [mm]

Assembly kit for hollow shaft retention / Proposal for auxiliary tool



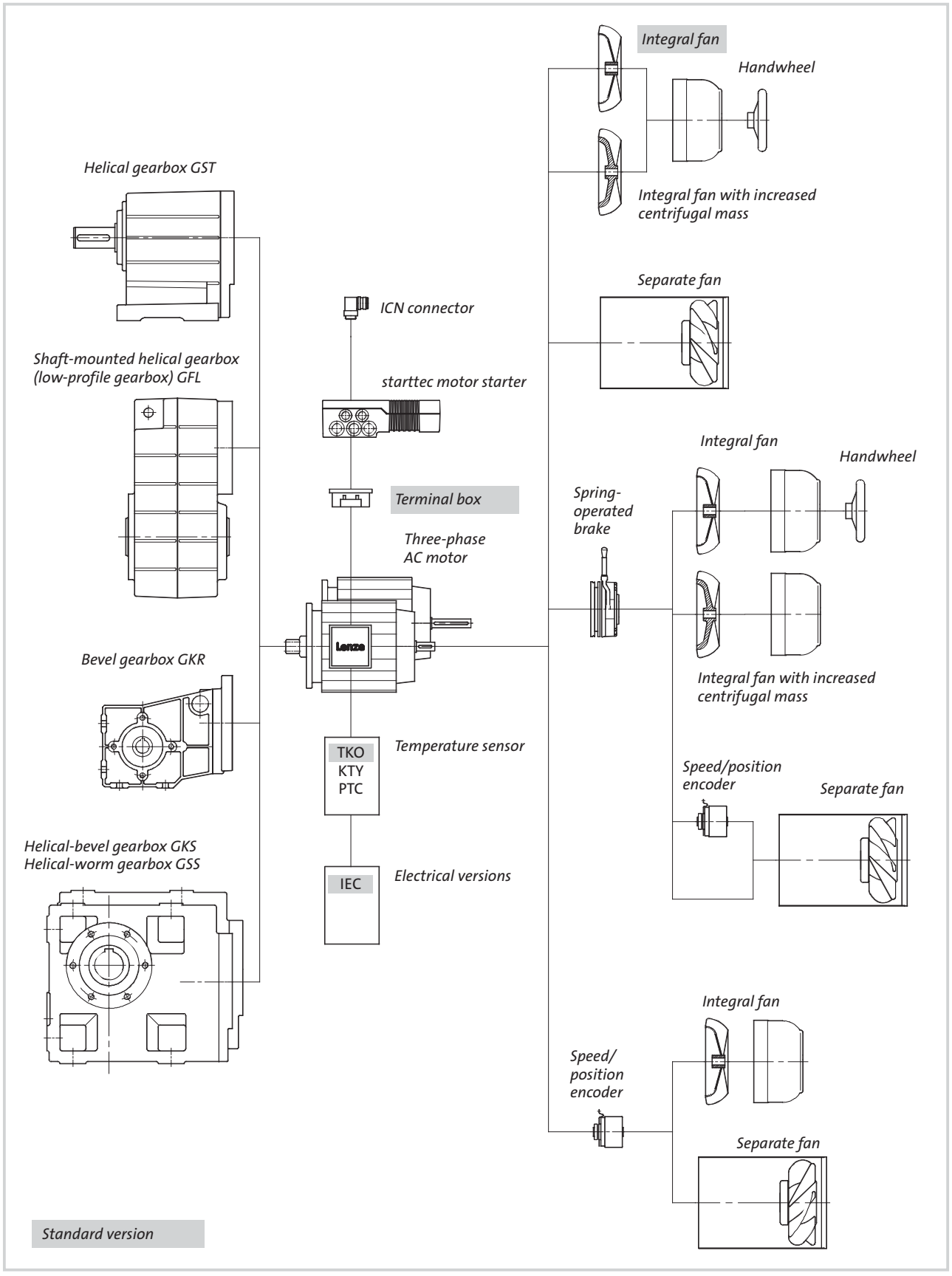
Gearbox size	Hollow shaft (design H)			Assembly kit for hollow shaft circlip (auxiliary tool assembly)			Auxiliary tool disassembly		Machine shaft
	l	l_1	d H7	d_2	l_9	c_7	c_8	c_9	max l_8
04	115	100	25 30	M10 M10	40	5 6	10	3	85
05	140	124	30 35	M10 M12	40 50	6 7	10 12	3	107
06	160	140	40 45	M16	60	8 9	16	4	118
07	200	175	50 55	M16 M20	60 80	10 11	16 20	5	148

Dimensions in [mm]

Motors | G-motion const

Technical data

Dimensions


Integral fan
Handwheel
Integral fan with increased centrifugal mass
Helical gearbox GST
Separate fan
ICN connector
Shaft-mounted helical gearbox (low-profile gearbox) GFL
starttec motor starter
Integral fan
Handwheel
Terminal box
Spring-operated brake
Three-phase AC motor
Bevel gearbox GKR
Integral fan with increased centrifugal mass
TKO
KTY
PTC
Temperature sensor
Speed/position encoder
Separate fan
Helical-bevel gearbox GKS
Helical-worm gearbox GSS
IEC
Electrical versions
Integral fan
Speed/ position encoder
Separate fan
Standard version

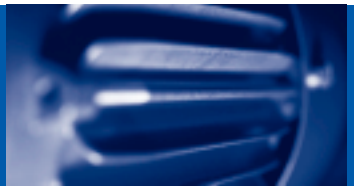
No. of pairs of poles 2 (4-pole)

Motor frame size	P_r [kW]	n_r [min^{-1}]	I_r [A] Y/Δ	I_A/I_r	U1) [V] Y/Δ	f_r [Hz]	cos φ	η [%]	M_r [Nm]	M_{stall} [Nm]	M_A [Nm]	J [10^{-3} kgm^2]	m [kg]
063C02	0.06	1425	0.24/0.42	3.5	400/230	50	0.57	63	0.40	1.36	1.3	0.33	3.9
063C22	0.09	1375	0.28/0.48	2.9	400/230	50	0.71	65	0.63	1.39	1.3	0.33	3.9
063C12	0.12	1425	0.49/0.85	3.1	400/230	50	0.56	63	0.80	2.64	2.5	0.33	4.1
063C32	0.18	1365	0.58/1.0	2.7	400/230	50	0.70	64	1.26	2.61	2.5	0.33	4.1
063C42	0.25	1370	0.82/1.4	2.9	400/230	50	0.67	66	1.74	4.10	3.8	0.37	4.4
071C32	0.37	1410	0.95/1.6	3.3	400/230	50	0.77	73	2.51	5.81	4.8	1.07	5.8
071C42	0.55	1405	1.4/2.4	3.5	400/230	50	0.77	74	3.74	9.12	7.9	1.28	6.4
080C32	0.75	1410	1.9/3.3	4.6	400/230	50	0.80	74	5.10	12.1	11.0	2.6	10.8
080C42	1.1	1390	2.8/4.8	4.4	400/230	50	0.80	77	7.50	18.4	16.5	2.6	11
090C32	1.5	1395	3.6/6.3	4.8	400/230	50	0.79	79	10.3	27.1	23.7	3.5	17
100C12	2.2	1440	5.3/9.2	6.0	400/230	50	0.73	84	15.0	44.0	38.0	6.1	24
100C32	3	1430	7.2/12.5	4.6	400/230	50	0.75	83	20.5	50.0	43.0	6.1	24
112C22	4	1450	9.3/16.1	6.2	400/230	50	0.73	86	26.4	95.0	70.0	10.7	31
112C32	5.5	1445	-/12.5 12.5/21.7	6.1	-/400 * 400/230 **	50	0.77	86	36.6	120	95	13.5	38
132C22	7.5	1455	-/17.0 17.0/29.3	5.9	-/400 * 400/230 **	50	0.76	88	49.5	150	100	33.6	66
132C32	9.2	1450	-/19.7 19.7/34.1	5.1	-/400 * 400/230 **	50	0.80	88	61.0	150	100	33.6	66
160-22	11	1460	-/21.0 21.0/36.5	7.0	-/400 * 400/230 **	50	0.85 0.86	89	71.9	204	150	61.0	110
160-32	15	1460	-/27.7 27.8/48.4	7.1	-/400 * 400/230 **	50	0.87 0.88	90	98.1	288	214	75.0	130
180-22	18.5	1470	-/32.8 32.8/57.8	6.8	-/400 * 400/230 **	50	0.90	91	120	313	260	135	165
180-32	22	1465	-/38.8 38.8/67.4	7.3	-/400 * 400/230 **	50	0.90	91	143	360	330	155	175
200N32	30	1465	-/55.5	7.0	-/400 *	50	0.85	92	196	490	392	168	245
225N12	37	1470	-/67	7.0	-/400 *	50	0.86	93	240	600	480	275	290
225N22	45	1470	-/81	7.0	-/400 *	50	0.86	93	292	730	584	313	360

1) The motors can be used in the voltage range specified in the "Voltages/Frequencies" table on page 8-7.

* Star/delta start-up possible at 400 V
** No standard voltage – only for 87 Hz frequency inverter operation

Values are guide values



No. of pairs of poles 1 (2-pole)

Motor frame size	P_r [kW]	n_r [min^{-1}]	I_r [A] Y/Δ	I_A/I_r	U[1)] [V] Y/Δ	f_r [Hz]	cos φ	η [%]	M_r [Nm]	M_{stall} [Nm]	M_A [Nm]	J [10^{-3} kgm^2]	m [kg]
063-11	0.18	2760	0.55/0.95	3.8	400/230	50	0.80	65	0.62	1.37	1.31	0.18	3.6
063-31	0.25	2780	0.65/1.1	4.4	400/230	50	0.83	70	0.86	2.06	1.80	0.24	4.2
071-11	0.37	2840	1.0/1.73	5.6	400/230	50	0.80	72	1.25	3.73	3.55	0.47	6.2
071-31	0.55	2840	1.5/2.6	6.1	400/230	50	0.82	82	1.86	4.98	5.06	0.59	6.5
080-11	0.75	2850	1.9/3.3	6.1	400/230	50	0.80	80	2.52	7.81	8.82	0.68	9.2
080-31	1.1	2810	2.8/4.8	6.9	400/230	50	0.82	79	3.70	13.1	12.2	1.01	9.6
090-11	1.5	2840	3.2/5.5	5.9	400/230	50	0.85	82	5.10	13.6	11.9	1.72	14
090-31	2.2	2840	4.8/8.3	6.9	400/230	50	0.86	82	7.40	21.5	20.9	2.54	17
100-31	3	2850	6.2/10.7	7.1	400/230	50	0.88	84	10.0	34.0	30.0	2.80	20
100-41	4	2830	8.5/14.7	7.6	400/230	50	0.85	85	13.3	34.6	29.3	7.45	24
112-31	5.5	2890	-/12.2	6.6	-/400*	50	0.83	84	18.2	53.9	43.1	7.45	32
112-41	7.5	2900	-/15.5	6.4	-/400*	50	0.87	83	24.9	67.2	53.3	10.5	41
132-21	9.2	2925	-/18.7	9.5	-/400*	50	0.89	82	29.5	76.7	103	18	60

No. of pairs of poles 3 (6-pole)

Motor frame size	P_r [kW]	n_r [min^{-1}]	I_r [A] Y/Δ	I_A/I_r	U[1)] [V] Y/Δ	f_r [Hz]	cos φ	η [%]	M_r [Nm]	M_{stall} [Nm]	M_A [Nm]	J [10^{-3} kgm^2]	m [kg]
071-13	0.18	870	0.75/1.3	3.1	400/230	50	0.71	64	1.89	4.5	4.1	0.77	6.2
071-33	0.25	920	1.0/1.7	3.2	400/230	50	0.63	66	2.6	6.4	5.7	0.94	6.4
080-13	0.37	900	1.4/2.4	2.9	400/230	50	0.67	63	4.00	7.6	8.4	1.12	9.3
080-33	0.55	900	1.9/3.3	3.1	400/230	50	0.68	65	5.90	13.6	12.4	1.50	10.2

1) The motors can be used in the voltage range specified in the "Voltages/Frequencies" table on page 8-7.

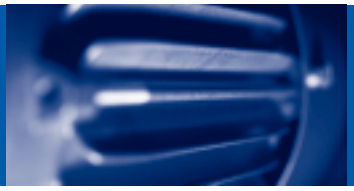
* Star/delta start-up possible at 400 V

Values are guide values

No. of pairs of poles 2 (4-pole)

Motor frame size	P_r [kW]	n_r [min^{-1}]	I [A]	U [V] Δ	f_r [Hz]	cos φ	M_r [Nm]	J [10^{-3} kgm^2]	m [kg]
063C02	0.11	2535	0.42	400	87	0.55	0.40	0.33	3.9
063C22	0.16	2485	0.48	400	87	0.67	0.63	0.33	3.9
063C12	0.21	2535	0.85	400	87	0.52	0.80	0.33	4.1
063C32	0.33	2475	1.0	400	87	0.65	1.26	0.33	4.1
063C42	0.45	2480	1.4	400	87	0.63	1.74	0.37	4.4
071C32	0.66	2520	1.6	400	87	0.72	2.51	1.07	5.8
071C42	1.0	2515	2.4	400	87	0.74	3.74	1.28	6.4
080C32	1.4	2520	3.30	400	87	0.80	5.10	2.6	11
080C42	2.0	2500	4.80	400	87	0.80	7.50	2.6	11
090C32	2.7	2505	6.30	400	87	0.79	10.3	3.5	17
100C12	3.9	2550	9.20	400	87	0.71	15.0	6.1	24
100C32	5.4	2540	12.50	400	87	0.73	20.5	6.1	24
112C22	7.1	2560	16.10	400	87	0.71	26.4	10.7	31
112C32*	9.7	2555	21.70	400	87	0.75	36.6	13.5	38
132C22*	13.2	2565	29.30	400	87	0.75	49.5	33.6	66
132C32*	16.2	2560	34.10	400	87	0.79	61.0	33.6	66
160-22*	19.4	2570	36.50	400	87	0.85	71.9	61	110
160-32*	26.4	2570	48.40	400	87	0.86	98.1	75	130
180-22*	32.5	2580	57.80	400	87	0.89	120	135	165
180-32*	38.7	2575	67.40	400	87	0.89	143	155	175

* Operation at 87 Hz is possible with motors with 50 Hz rated data voltage values of Y/Δ; 400/230 V (see page 8-4).
For frame sizes 112C32 to 180-32, please indicate the required voltage when placing your order.



Motor frame size	Connection	Voltage	
		50 Hz	60 Hz
4-pole motors			
063C02 ... 112C22	Δ	230 V ± 10%	277 V ± 10%
	Y	400 V ± 10%	480 V ± 10%
112C32 ... 132C32	Δ	400 V ± 10% ** 230 V ± 10%	480 V ± 10% ** 277 V ± 10%
	Y	** 400 V ± 10%	** 480 V ± 10%
160-22 ... 180-32	Δ	380-415 V ±5% ** 220-240 V ± 5%	380-480 V ± 5% ** 220-277 V ± 5%
	Y	** 380-415 V ±5%	** 380-480 V ± 5%
200N32 ... 225N22	Δ	380-415 V ±5%	380-480 V ± 5%
2-pole motors			
063-11 ... 100-41	Δ	220-240 V ± 5%	220-277 V ± 5%
	Y	380-415 V ±5%	380-480 V ± 5%
112-31 ... 132-21	Δ	380-415 V ±5%	380-480 V ± 5%
6-pole motors			
071-13 ... 080-33	Δ	220-240 V ± 5%	220-277 V ± 5%
	Y	380-415 V ±5%	380-480 V ± 5%

The motors are supplied as standard with multi-range voltages.
The percentage values (± 10 % or ± 5 %) include tolerance to EN60034.

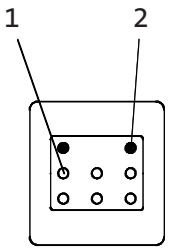
** No standard voltage – only for 87 Hz frequency inverter operation

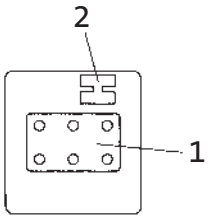
Motor terminal box

Position	Designation
1	Motor terminal board
2	Temperature sensor connection
3	Rectifier/terminal block (24 V DC) for spring-operated brake
4	Terminal strip: Temperature sensor and speed/position encoder connection

Motor frame size	
4-pole motors	**063C□2 ... 132C□2**
4-pole motors 2-pole motors 6-pole motors	**160-□2 ... 180-□2 063-□1 ... 132-□1 071-□3 ... 080-□3**

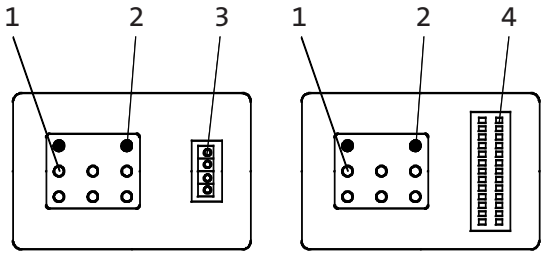
Motor terminal box KK1

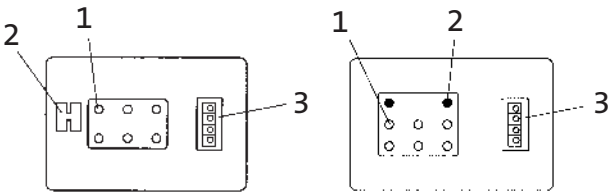




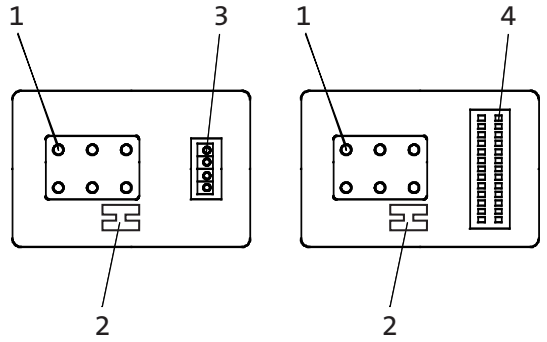
Motor terminal box KK2

Motor frame size 063C□2 ... 090C□2

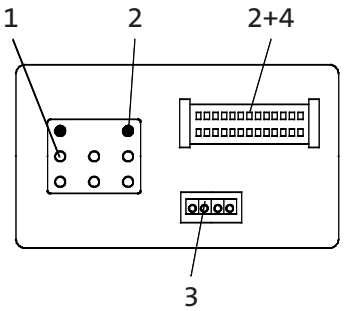


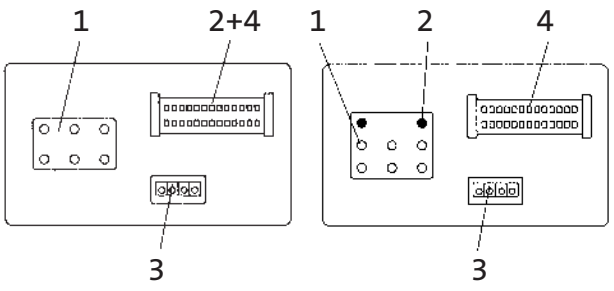


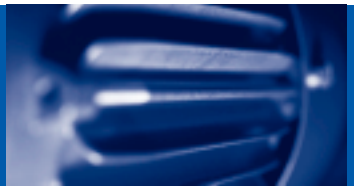
Motor frame size 100C□2 ... 132C□2



Motor terminal box KK3







Motor terminal box

Terminal block (Position 3)

Meaning	Designation
DC-excited brake +	1
DC-excited brake –	2

Rectifier (Position 3)

Meaning	Designation	Option
AC-excited brake	~	**Bridge rectifier/half-wave rectifier** Connection to L1 mains
	~	**Bridge rectifier** Connection to N mains
	~	**Half-wave rectifier** Connection to L2 or L3 mains
	+	Connection to brake
	–	Connection to brake

Terminal strip (Position 4)

	Meaning	Option	Conductor size	Designation
1	Thermal contact (NC contact) TKO			**S1**
2	Thermal contact (NC contact) TKO			**S2**
1	PTC thermistor			**P1**
2	PTC thermistor			**P2**
1	KTY temperature sensor			**T1**
2	KTY temperature sensor			**T2**
3	Resolver Ref +		0.14 mm²	**B1**
4	Resolver Ref –		0.14 mm²	**B2**
5				**B3**
6	Resolver cos +		0.14 mm²	**B4**
7	Resolver cos –		0.14 mm²	**B5**
8	Resolver sin +		0.14 mm²	**B6**
9	Resolver sin –		0.14 mm²	**B7**
3	Incremental encoder + supply	Power supply	0.14 mm²	**B1**
4	Incremental encoder - supply	GND (ground)	0.14 mm²	**B2**
5	Incremental encoder output channel A		0.14 mm²	**B3**
6	Incremental encoder output channel A^{-}	Inverse	0.14 mm²	**B4**
7	Incremental encoder output channel B		0.14 mm²	**B5**
8	Incremental encoder output channel B^{-}	Inverse	0.14 mm²	**B6**
9	Incremental encoder output channel C	Zero track	0.14 mm²	**B7**
10	Incremental encoder output channel C^{-}	Inverse	0.14 mm²	**B8**
11	Earth/Sensor –		0.14 mm²	**B9**
12	Shield		0.14 mm²	**B10**
13	Sensor +		0.14 mm²	**B11**

starttec motor starter

Trend towards distribution even on switchgear
The increasing relocation of control and switching components from the control cabinet to the system process and the demand for additional distributed functions to relieve central PLCs has increased the popularity of distributed drive components.

History
Motor starters have until now been used as electromechanical and electronic switchgear in the control cabinet for switching and protecting three-phase AC motors up to 4 kW. This generally requires star-type wiring which is extremely complex to install.

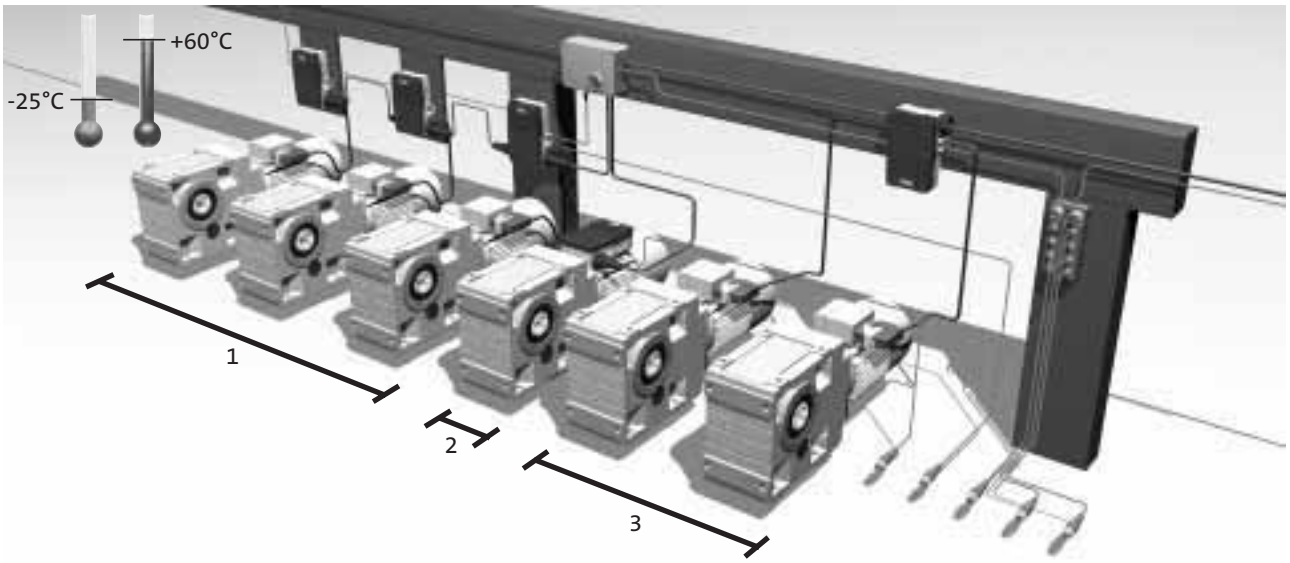
The current situation
Switchgear and drive components operate decentrally, i.e. they intervene directly in the process. Integrated protection features ensure the reliable operation of the motor, additional functions relieve the load on the central PLC and provide benefits by reducing the time and effort required for project planning and commissioning. The entire distributed drive system therefore provides maximum levels of flexibility, high plant availability and is extremely cost-effective.

starttec – tailored to meet the requirements of materials handling applications

Economic
- Small number of models: one size for the power range 0.25 ... 4 kW
- Start-up ramp to protect mechanics
- Power bus makes installation easier
- Easy to retrofit, e.g. on standard motors or if the starttec has been mounted on the wall
- Integrated brake control (option) with configurable time delay, reduces the load on the PLC

Safe
- Can be commissioned by non-experts
- Reduction of high start-up currents
- Integrated motor protection via overload/ temperature protection (thermal contact/PTC)
- Robust due to high enclosure IP65/NEMA 4 (in preparation)
- Wear-free, even at high operating frequency
- High plant availability due to error reset option/hand-held operation
- Status display directly on the starttec

Versatile
- Optimum access due to mounting on the wall or on the motor
- Actuation via
  – digital I/Os
    and/or
  – fieldbuses (INTERBUS, PROFIBUS-DP, CAN system bus, DeviceNet/CANopen, AS-Interface)
- Collection and linking of input signals for forwarding to the PLC/fieldbus
- Multi motor operation (option)
- Change of direction of rotation (option)
- Flexible due to configurable tripping characteristic



Numerous options with a starttec

1.	2.	3.
Networking via power bus and fieldbus, e.g. actuated via PROFIBUS-DP:	**Individual drive as modular complete system, (starttec + geared motor) e.g. actuated via AS-Interface:**	**Individual drives, e.g. actuated via digital inputs with:**
▶ Reduced wiring due to power loops ▶ Optimum accessibility due to wall mounting ▶ Operational reliability due to output of error messages, e. g. mains failure	▶ Protection for mechanics via start-up ramp ▶ Motor and overload protection ▶ Counter-clockwise/clockwise rotation (option)	▶ Integrated brake control (option) ▶ Operation on 2 motors (option) ▶ Local operation via keypad

Technical data overview

Technical data	
Rated motor power	0.25...4.0 kW
Mains voltage	3-phase 400/500 V
Motor starter power supply	24V
Enclosure	IP65/NEMA 4 (in preparation)
Ambient temperature	-25...60°C
Actuation	Via control signals (digital inputs/outputs integrated as standard) Options: ▶ AS-Interface ▶ Fieldbuses (INTERBUS, PROFIBUS-DP, DeviceNet/ CANopen, CAN system bus, etc.)
Loop-through option	▶ Power 4 mm² ▶ Supply voltage 1.5 mm²
Mounting Dimensions [L x W x H] [mm]	On the wall or directly on the motor [228 x 129 x 71]
Standards	UL, cUL, CE (in preparation)

The concept of the starttec motor starter builds on our experience of the 8200 motec motor frequency inverter (see catalog: G-motion, motec) and Lenze's expert knowledge of distributed drive systems. This has given rise to an integral and seamless system for variable speed geared motors (motec) and geared motors with fixed speeds (starttec).

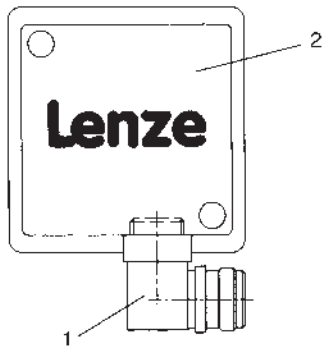
Please contact us for copies of our extensive documentation (see Lenze in Germany and Lenze worldwide at the end of this catalog).

Our documentation contains detailed information about other technical features, variants and the ordering information required for the starttec motor starter.

ICN connector

General data

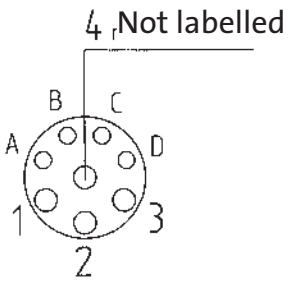
Version	Industrial standard connector with screwed connection. The motor circuit is defined in the terminal box and must be checked prior to commissioning. (The counter plug is not part of the scope of supply).	
Enclosure	IP65	
No. of contacts	Power: 3 + PE	Signal: 3 + PE
Permissible rated current	20 A	9A
Permissible rated voltage	630 V (AC)	



Position	Designation
1	Connector
2	Motor terminal box

Counter plugs are not included in the scope of supply

Connector assignment



Caution! Before commissioning the motor, the motor circuit (Y or Δ) must be checked.

Pin no.	Connection	Connection designation	Recommended wire colour	Motor frame size	Recommended conductor size
1	Phase	U	Brown	063 112	1.5 mm²
2	Protective earth	PE	Green/Yellow		
3	Phase	W	Black		
4	Phase	V	Blue		
A	Temperature sensor	Th	White		0.75 mm²
B	Temperature sensor	Th	White		
C	Brake	Br	Blue		
D	Brake	Br	Black		

The temperature sensors are integrated into the windings. The use of an additional motor protection switch is recommended for mains operation.

Thermal contacts

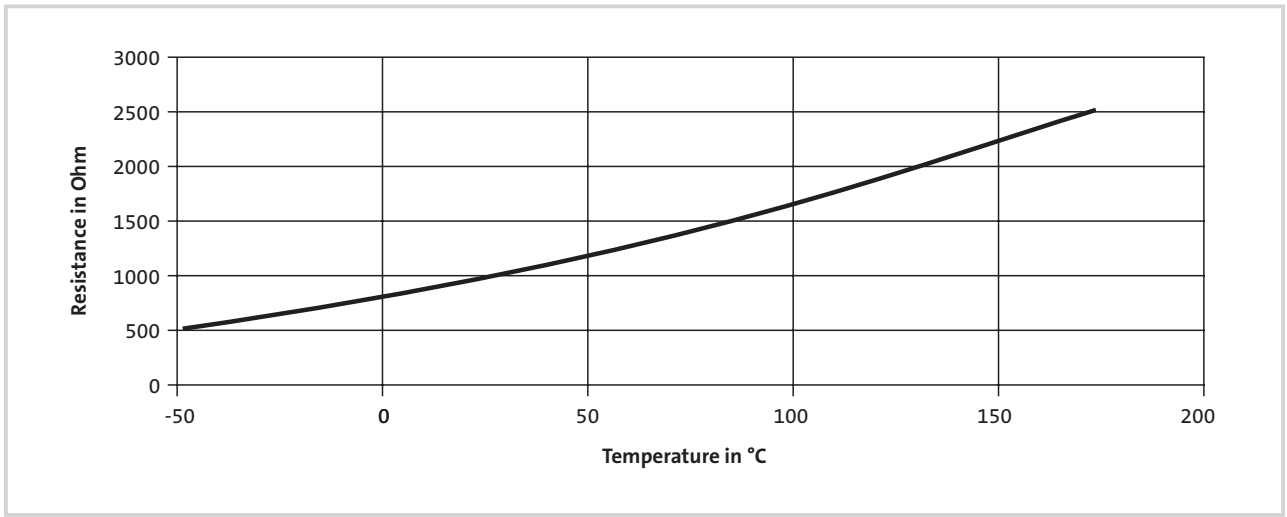
Motor frame size	Function	Operating temperature [°C]	Reset-temperature [°C]	Current capacity [A]	Permissible voltage capacity [V] AC
All	NC contact	150 ± 5	90-135	2.5	250

PTC thermistor

Motor frame size	Function	Operating temperature [°C]	Resistance at 155 °C [Ω]	Resistance at -20...+140° [Ω]	Standards
All	Abrupt change in resistance	150 ± 5	550	30...250	DIN 44080 VDE 0660 Part 303

KTY continuous temperature sensor

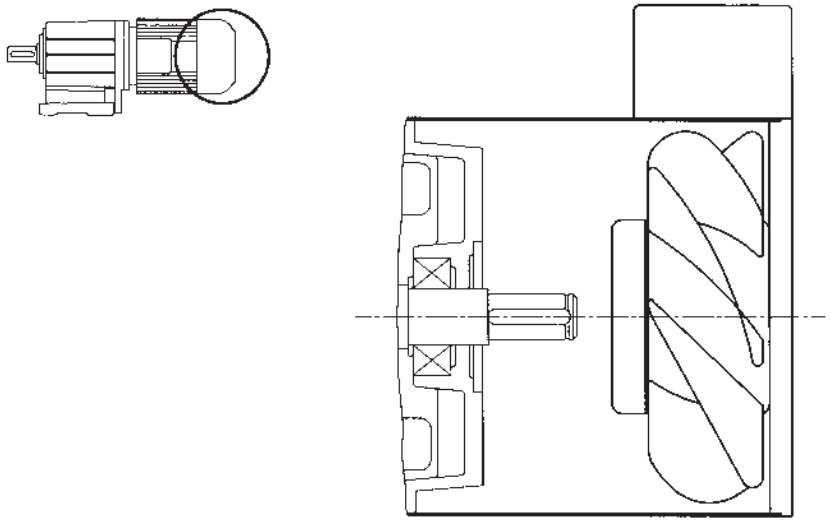
Motor frame size	Function	Resistance at (see graphic below) 175°C [Ω]	150 °C [Ω]	25 °C [Ω]	Permissible current capacity at 175 °C [mA]	25 °C [mA]
All	Continuous change in resistance	2535	2225	1000	2.0	10

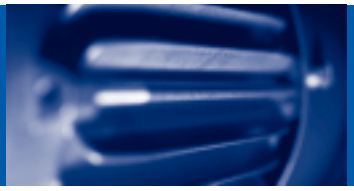


Geared motors and geared brake motors can be fitted with a separate axial fan. The fan is assembled in an extended motor fan cover with a separate terminal box.

General data

No. of poles	4-pole			2-pole		6-pole
Motor frame size	063C□2 ... 132C□2	160-□2 ... 180-□2	200N□2 ... 225N□2	063-□1 ... 080-□1	090-□1 ... 132-□1	071-□3 ... 080-□3
Version	1~ or 3~	1~ or 3~	3~	1~	1~ or 3~	1~
Enclosure	IP 66	IP 55	IP 54	IP 55	IP 55	IP 55
Thermal class	F	F	F	F	F	F
Operating mode	S1	S1	S1	S1	S1	S1





Rated data

Motor frame size	Version	Connection	U_r [V]	f_r [Hz]	I_r [A]	P_r [W]	Weight m [kg]
063C12 063C32 063C42	1~		230-277	50 (60)	0.10	27	2.2
	3~	Y	380-500		0.05	29	
	3~	Δ	220-290		0.10	27	
063-11 063-31	1~		210-240	50 (60)	0.12	19	1.6
			360-420		0.07	19	
071C32 071C42	1~		230-277	50 (60)	0.10	28	2.4
	3~	Y	380-500		0.05	30	
	3~	Δ	220-290		0.10	30	
071-11 071-13 071-31 071-33	1~		210-240	50 (60)	0.12	19	1.6
			360-420		0.07	19	
080C32 080C42	1~		230-277	50 (60)	0.11	29	2.3
	3~	Y	380-500		0.05	29	
	3~	Δ	220-290		0.10	29	
080-11 080-13 080-31 080-33	1~		210-240	50 (60)	0.32	46	2.3
			360-420		0.16	41	
090C32	1~		230-277	50 (60)	0.26	72	3.1
	3~	Y	380-500		0.16	82	
	3~	Δ	220-290		0.28	86	
090-11 090-31	1~		210-240	50 (60)	0.22	50	3.1
	3~	Y	360-530		0.08	31	
	3~	Δ	210-305		0.14	31	
100C12 100C32	1~		230-277	50 (60)	0.25	70	3.5
	3~	Y	380-500		0.16	83	
	3~	Δ	220-290		0.27	86	
100-31 100-41	1~		210-240	50 (60)	0.16	30	3.5
	3~	Y	360-530		0.08	34	
	3~	Δ	210-305		0.14	34	
112C22 112C32	1~		230-277	50 (60)	0.26	73	3.9
	3~	Y	380-500		0.15	82	
	3~	Δ	220-290		0.27	85	
112-31 112-41	1~		210-240	50 (60)	0.30	80	3.9
	3~	Y	360-530		0.14	61	
	3~	Δ	210-305		0.24	61	
132C22 132C32	1~		230-277	50 (60)	0.39	115	5.3
	3~	Y	380-500		0.24	138	
	3~	Δ	220-290		0.44	130	
132-21	1~		210-240	50 (60)	0.55	125	5.3
	3~	Y	360-530		0.26	132	
	3~	Δ	210-305		0.45	132	
160-22 160-32	1~		210-240	50 (60)	0.71	160	6.5
	3~	Y	360-530		0.40	218	
	3~	Δ	210-305		0.70	218	
180-22 180-32	1~		210-240	50 (60)	0.71	160	7.5
	3~	Y	360-530		0.40	218	
	3~	Δ	210-305		0.70	218	
200N32	3~	Y	360-530	50 (60)	0.40	218	10
		Δ	210-305		0.70	218	
225N12 225N22	3~	Y	360-530	50 (60)	0.40	218	12
		Δ	210-305		0.70	218	

Spring-operated brake

Brake motors are fitted with Lenze spring-operated brakes. The rectifier required for mains operation is located in the terminal box and is included in the scope of supply. Brake coil and rectifier/brake coil are factory-connected. A basic diagram of the brake appears on page 8-17. The brakes are active once the power supply has been disconnected (closed-circuit principle). The braking torques specified apply to quasi-static conditions with the brake operating as a holding brake in low-wear mode.

The air gap is factory-set and if required can be adjusted according to the level of wear.

General data

Design	Single-disc spring-operated brake
Operating principle	Braking torque at zero current
Enclosure	IP54
Thermal class	F
Friction linings	Asbestos-free
Option	▶ Manual release ▶ Low noise (required for inverter operation or if a resolver or incremental encoder has been fitted)

Rated data and combination options

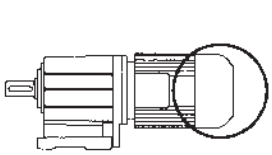
Rated data	Brake size 06	08	10	12	14	16	18	20	25
$P_{20°}$ [W]	20	25	30	40	50	55	85	100	110
M_B [Nm]	4	8	16	32	60	80	150	240	400
J_B [10^{-3} kgm²]	0.015	0.061	0.20	0.45	0.63	1.5	2.9	7.3	20.0
m [kg]	0.9	1.5	2.6	4.2	5.8	8.7	12.6	19.5	31.0
Motor frame size	**Combination options**								
063	▲								
071	▲								
071C42	▲	▲							
080		▲							
080C42		▲	▲						
090		▲	▲						
100			▲	▲					
112				▲	▲				
132					▲	▲			
160-22						▲	▲		
160-32							▲		
180							▲	▲	
200								▲	▲
225									▲

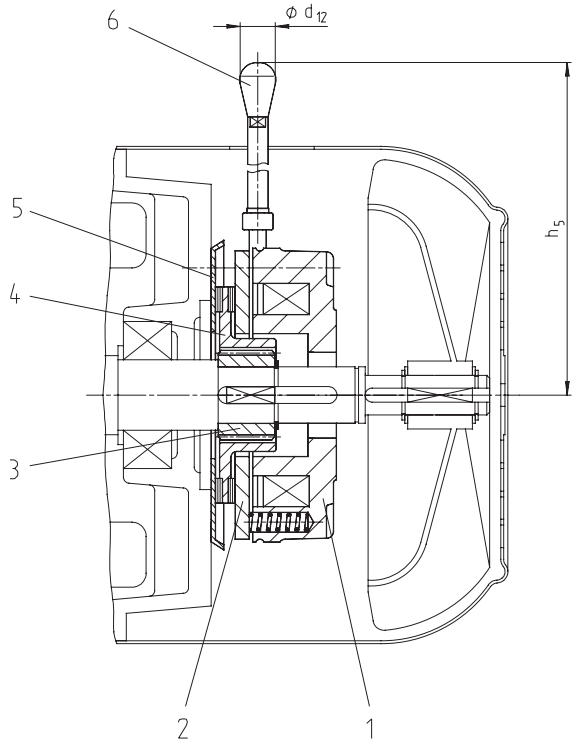
Voltages

Supply voltage	Rectifier	Brake voltage	Note
DC 24 V	None (terminal strip only)	DC 24 V	- A free-wheeling diode (AC-controlled switching) - Or an external spark suppressor (DC-controlled switching) will be required to provide protection against induced voltages.
DC 180 V		DC 180 V	
DC 205 V		DC 205 V	
AC 230 V	4-pole bridge rectifier (no additional terminals in the DC circuit)	DC 205 V	For AC-controlled switching
AC 400 V	4-pole half-wave rectifier (no additional terminals in the DC circuit)	DC 180 V	
AC 230 V	6-pole bridge rectifier (with 2 additional terminals in the DC circuit)	DC 230 V	For DC-controlled switching (a built-in spark suppressor in the rectifier protects the contacts on the additional terminals)
AC 400 V	6-pole half-wave rectifier (with 2 additional terminals in the DC circuit)	DC 180 V	

Spring-operated brake

Position	Designation
1	Stator
2	Armature plate
3	Hub
4	Rotor
5	Friction plate
6	Manual release (option)





Size of spring-operated brake	d_{12}	h_5
06	13	107
08	13	116
10	13	132
12	13	161
14	24	195
16	24	240
18	24	279
20	24	319
25	24	445

Incremental encoder

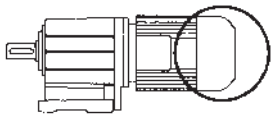
Digital actual value acquisition, can be analysed directly on the Lenze Servo inverter 9300.

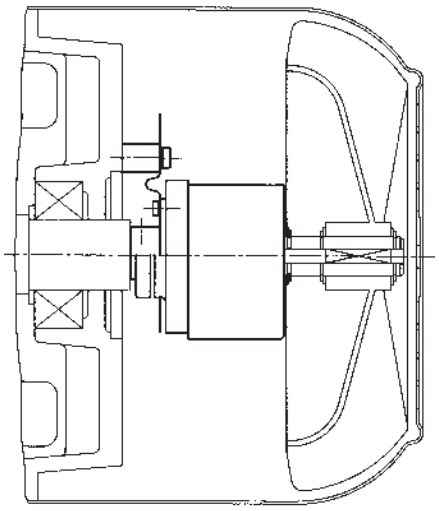
Type	ITD 21 TTL	ITD 21 HTL
Version	Hollow shaft incremental encoder	
Enclosure	IP54	
Voltage level	TTL	HTL
Pulse rate	2048 or 512 PPR	
Tracks	2 tracks, 2 tracks inverse and index pulse	
Supply voltage	5 V DC ± 5%	8 ... 30 V DC
Limit frequency	300 kHz	160 kHz
Operating temperature range	-20°C ... +70°C	

Resolver

Stator-fed resolver with 2 stator windings offset by 90° and one rotor winding with transformer winding.

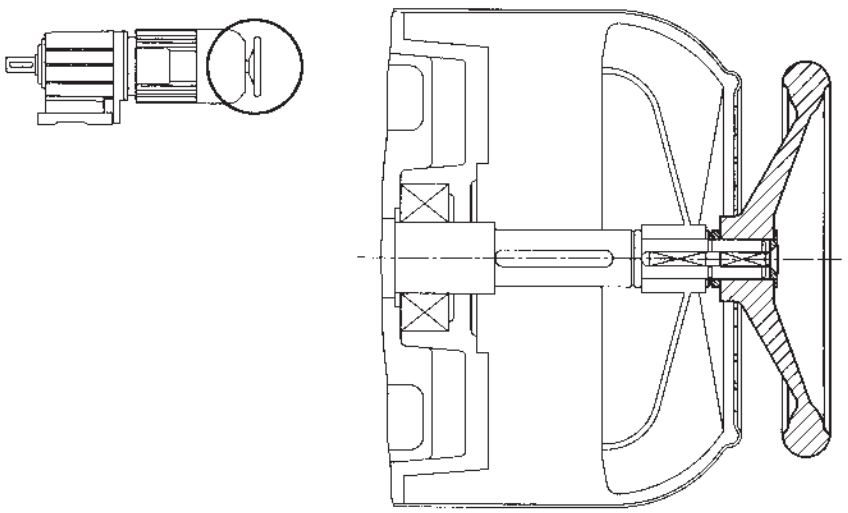
Type		TS 2651
Version		Brushless hollow shaft resolver with internal bearing
Enclosure		IP54
Input voltage		10 V amplitude
Input frequency		4 kHz
Stator/rotor ratio		0.3 ± 5%
Rotor impedance	Zro	51 Ω + j90 Ω
Stator impedance	Zs0	102 Ω + j150 Ω
Impedance	Zrs	44 Ω + j76 Ω
Insulation resistance		> 10 MΩ at 500 V DC
No. of pairs of poles		1
Maximum phase-angle error		± 10 angular minutes
Operating temperature range		–10°C ... +150°C





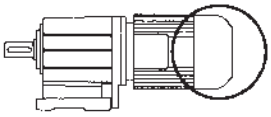
Version	Handwheel made from light metal, smooth wheel surface
Function	Manual operation: ▶ Emergency operation ▶ Setting-up operation for machines/systems
Technical note	The increased mass moment of inertia should be taken into account during configuration. For frequent switching operations, in particular if the direction of rotation changes: Please contact Lenze.

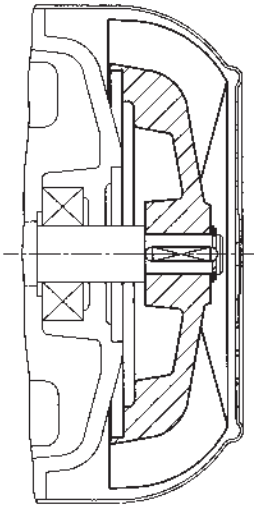
Motor frame size	Diameter d [mm]	Handwheel Additional mass moment of inertia [10^{-3} kgm²]	m [kg]
071	160	1.6	0.6
080	160	1.6	0.6
090	160	1.6	0.6
100	160	1.6	0.6
112	160	1.6	0.6
132	250	13.9	1.8

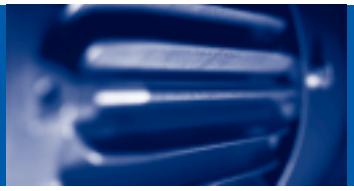


Version	Integral cast iron fan
Operating principle	Increased motor centrifugal mass for soft starting/braking
Technical note	The increased mass moment of inertia should be taken into account during configuration! For frequent switching operations, in particular if the direction of rotation changes: Please contact Lenze.

Motor frame size	Additional mass moment of inertia [10^{-3} kgm^2]	m [kg]
071	1.8	0.9
080	2.4	1.4
090	5.5	1.9
100	7.7	2.5
112	15.3	3.8
132	35.6	6.0



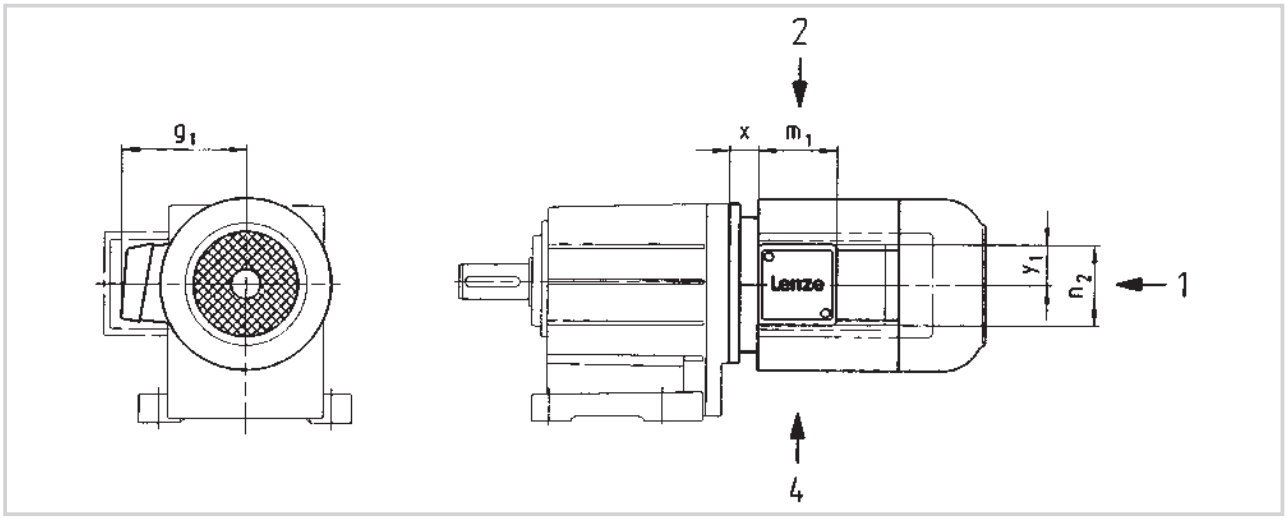




Geared motor **4-pole** **Options**			Motor frame size								
			063C02 063C22	**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22 112C32**	**132C22 132C32**	**160-22 160-32**	**180-22 180-32**
Without fan			KK1	–	–	–				–	–	–
Fan			–	KK1	KK1	KK1				KK1	KK3	KK3
Fan	+ handwheel		–	–	KK2	KK2				KK3	–	–
Fan	+ 2nd shaft end		–	–	KK2	KK2				KK3	–	–
Cast iron fan			–	–	KK1	KK1	KK1	KK2	KK1	KK1	–	–
Cast iron fan	+ handwheel		–	–	KK2	KK2				KK3	–	–
Cast iron fan	+ 2nd shaft end		–	–	KK2	KK2				KK3	–	–
Brake without fan			KK2	–	–	–				–	–	–
Brake	+ fan		–	KK2	KK2	KK2				KK3	KK3	KK3
Brake	+ fan	+ handwheel	–	–	KK2	KK2				KK3	–	–
Brake	+ fan	+ 2nd shaft end	–	–	KK2	KK2				KK3	–	–
Brake	+ cast iron fan		–	–	KK2	KK2				KK3	–	–
Brake	+ S/P encoder		KK3	–	–	–				–	–	–
Brake	+ S/P encoder	+ fan	–	KK3	KK3	–				–	–	–
S/P encoder without fan			KK2	–	–	–				–	–	–
S/P encoder	+ fan		–	KK2	KK2	KK2				KK3	KK3	–
Separate fan			–	KK1	KK1	KK1				KK1	KK3	KK3
S/P encoder	+ separate fan		–	KK2	KK2	KK2				KK3	KK3	KK3
Brake	+ separate fan		–	KK2	KK2	KK2				KK3	KK3	KK3
Brake	+ S/P encoder	+ separate fan	–	KK3	KK3	KK3				KK3	KK3	KK3

Geared motor **2-pole and 6-pole** **Options**			Motor frame size						
			063-11 063-31	**071-11 071-13 071-31 071-33**	**080-11 080-31 080-13 080-33**	**090-11 090-31**	**100-31 100-41**	**112-31 112-41**	**132-21 ***
Fan			KK1	KK1					
Fan	+ handwheel		–	KK2					
Fan	+ 2nd shaft end		–	KK2					
Cast iron fan			–	KK1	KK1	KK1	KK2	KK1	KK1
Cast iron fan	+ handwheel		–	KK2					
Cast iron fan	+ 2nd shaft end		–	KK2					
Brake	+ fan		KK2	KK2					
Brake	+ fan	+ handwheel	–	KK2					
Brake	+ fan	+ 2nd shaft end	–	KK2					
Brake	+ cast iron fan		–	KK2					
S/P encoder	+ fan		KK3	KK3					
Separate fan			KK1	KK1					
S/P encoder	+ separate fan		KK3	KK3					
Brake	+ separate fan		KK2	KK2					
Brake	+ S/P encoder	+ separate fan	KK3	KK3					

* KK3 terminal box generally used for Y/Δ; 400/230V (87 Hz operation).

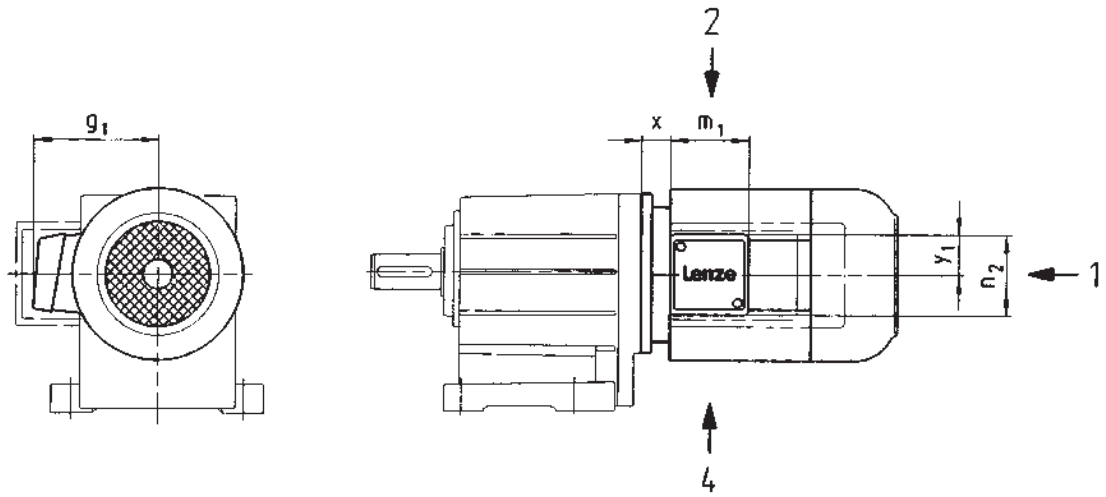


Geared motor 4-pole		Motor frame size 063C02 063C12 063C22 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22 112C32	132C22 132C32	160-22 160-32	180-22 180-32
Terminal box	g_1	100	109	141	146	157	167	195		
KK1	m_1	75		115				122		
	n_2	75		115				122		
	x	21	24	14	19	20	22	33		
	y_1	37.5		57.5				61.0		
Cable glands	**Position 4** [1]	1x M16x1.5 1x M20x1.5		1x M20x1.5 1x M25x1.5				2x M32x1.5		
Terminal box	g_1	107	116	130	135	146	156			
KK2	m_1	136		153						
	n_2	94		117						
	x	13	15	17	22	23	25			
	y_1	47		58.5						
Cable glands	**Position 2**	1x M16x1.5 1x M20x1.5		1x M20x1.5 1x M25x1.5						
	Position 4	1x M16x1.5 1x M20x1.5		1x M20x1.5 1x M25x1.5						
Terminal box	g_1	148	157	142	147	158	168	187	207	226
KK3	m_1	200		195				195	226	
	n_2	121		124				124	127	
	x	20	23	15	20	21	23	38	36	73
	y_1	60.5		62				62	63.5	
Cable glands	**Position 2**	1x M16x1.5 2x M20x1.5 1x M25x1.5		1x M20x1.5 2x M25x1.5 1x M32x1.5				1x M20x1.5 2x M25x1.5 1x M32x1.5	2x M16x1.5 1x M20x1.5 1x M50x1.5	
	Position 4	1x M16x1.5 2x M20x1.5 1x M25x1.5		1x M20x1.5 2x M25x1.5 1x M32x1.5				1x M20x1.5 2x M25x1.5 1x M32x1.5	2x M16x1.5 1x M20x1.5 1x M50x1.5	

Dimensions in [mm]

Position of cable glands based on terminal box in position 5

[1] Observe page 8-24



Geared motor **2-pole and 6-pole**		Motor frame size **063-11 063-31**	**071-11 071-13 071-31 071-33**	**080-11 080-13 080-31 080-33**	**090-11 090-32**	**100-31 100-41**	**112-31 112-41**	**132-21 ***
Terminal box	g_1	105	131		141	158	165	197
KK1	m_1	97	88			88		118
	n_2	97	96			92		124
	x	32	27		32	30	39	41
	y_1	48.5	52			48		64
Cable glands	**Position 4** [1]	1x M20x1.5 1x M25x1.5	2x M20x1.5			2x M20x1.5		2x M25x1.5
Terminal box	g_1	105	131		140	159	165	197
KK2	m_1	97	144			144		118
	n_2	97	98			96		123
	x	32	18		23	21	30	42
	y_1	48.5	58			48.0		64
Cable glands	**Position 4**	1x M20x1.5 1x M25x1.5	1x M16x1.5 2x M20x1.5			1x M16x1.5 2x M20x1.5		2x M25x1.5
Terminal box	g_1	120	136		144	163	169	191
KK3	m_1	200	200			200		200
	n_2	120	121			120		120
	x	27	16		21	19	29	46
	y_1	60	71			60		67
Cable glands	**Position 2**	1x M16x1.5 2x M20x1.5 1x M25x1.5	1x M16x1.5 2x M20x1.5 1x M25x1.5			1x M16x1.5 2x M20x1.5 1x M25x1.5		1x M16x1.5 2x M20x1.5 1x M25x1.5 *
	Position 4	1x M16x1.5 2x M20x1.5 1x M25x1.5	1x M16x1.5 2x M20x1.5 1x M25x1.5			1x M16x1.5 2x M20x1.5 1x M25x1.5		1x M16x1.5 2x M20x1.5 1x M25x1.5 *

Dimensions in [mm]

Position of cable glands based on terminal box in position 5

* For Y/Δ; 400/230V (87 Hz operation) in Positions 2 and 4: 1x M32x1.5

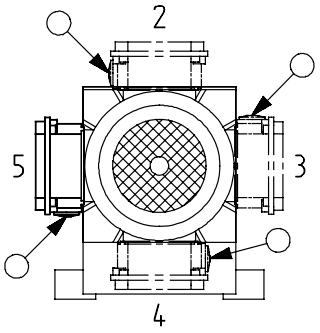
[1] Observe page 8-24

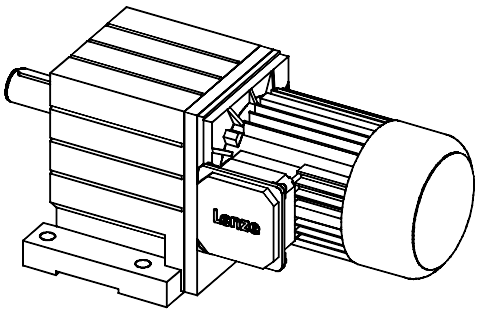
Position of the cable gland on terminal box KK1

On motors with KK1 motor terminal boxes, the position of the cable gland can be selected on the basis of the position of the terminal box.

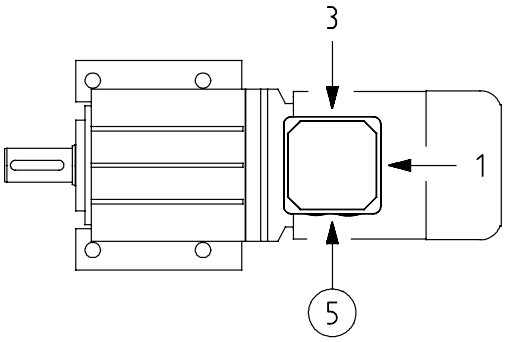
Unless the position of the cable gland is specified, it will be supplied in the position indicated with a circle.

Terminal box positions 2, 3, 4, 5 (example mounting position A)

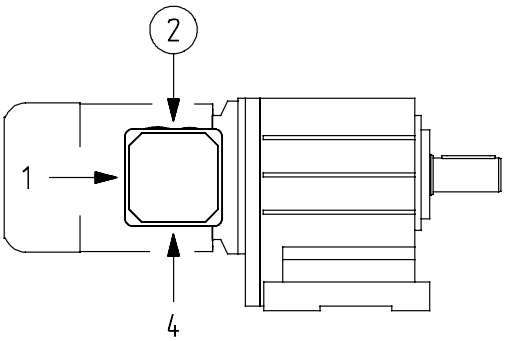




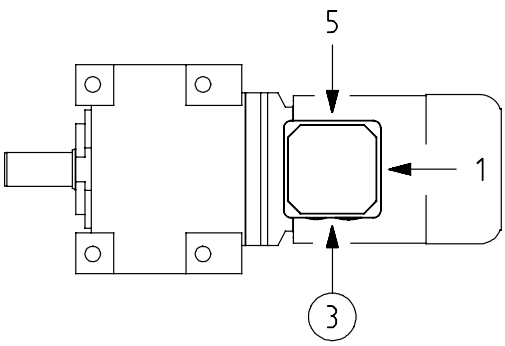
Terminal box position 2
Position of cable glands: 1, 3, 5



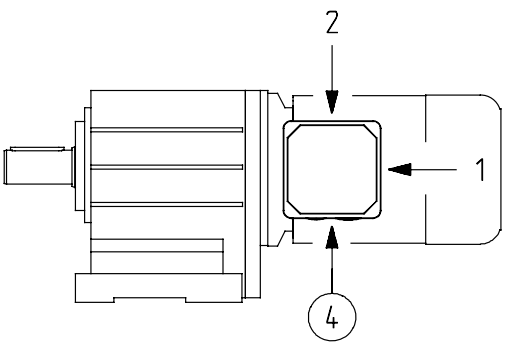
Terminal box position 3
Position of cable glands: 1, 2, 4

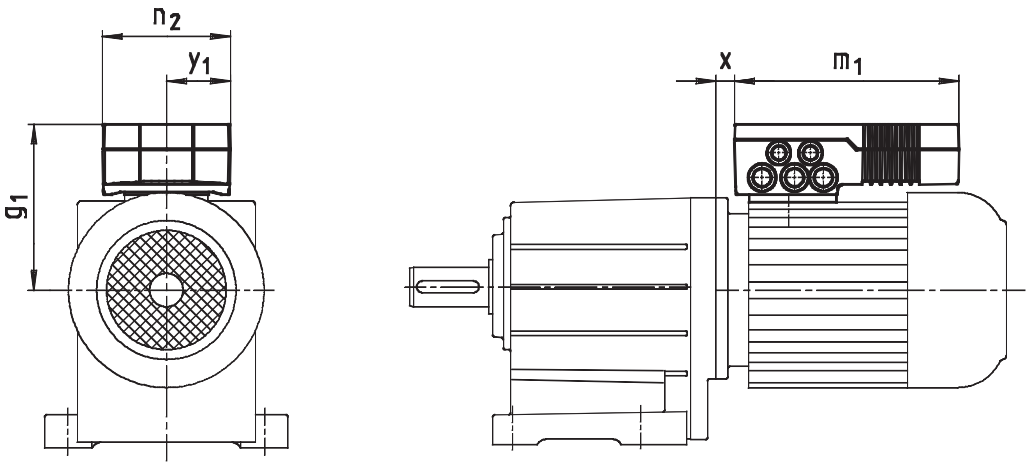


Terminal box position 4
Position of cable glands: 1, 3, 5



Terminal box position 5
Position of cable glands: 1, 2, 4

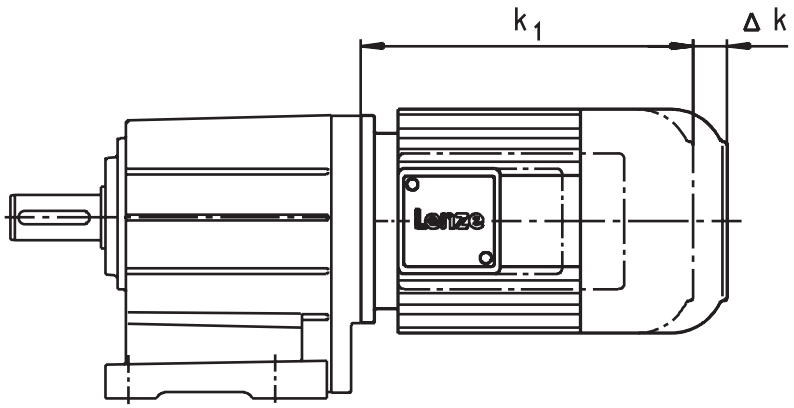




Geared motor **4-pole**	Motor frame size					
	063C42	**071C32** **071C42**	**080C32** **080C42**	**090C32**	**100C12** **100C32**	**112C22**
g_1	153	162	157	162	173	183
m_1	228	228	228	228	228	228
n_2	129	129	129	129	129	129
x	20	23	16	21	22	24
y_1	64.5	64.5	64.5	64.5	64.5	64.5

Geared motor **2-pole and 6-pole**	Motor frame size				
	063-31	**071-11** **071-13** **071-31** **071-33**	**080-11** **080-13** **080-31** **080-33**	**090-11** **090-31**	**100-31** **100-41**
g_1	143	157	157	165	178
m_1	228	228	228	228	228
n_2	129	135	135	129	129
x	26	16	16	21	19
y_1	64.5	78	78	64.5	64.5

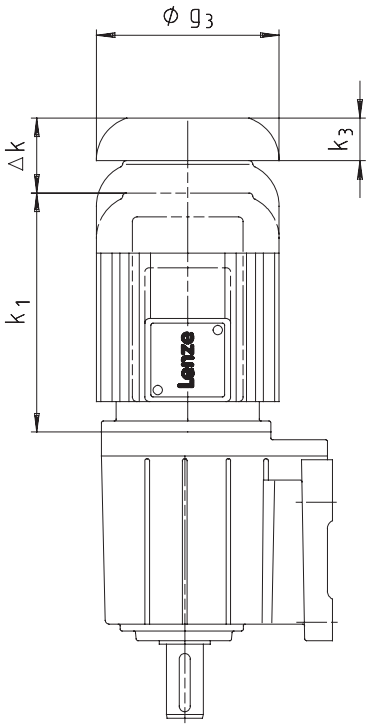
Dimensions in [mm]



Geared motor	Motor frame size											
4-pole	**063C02 063C22**	**063C12 063C32 063C42**	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**	**180-22 180-32**
Motor length without options k_1	156	188	207	225	276	309	319	363	404	475	519	592
Options	Δ k											
Without fan	0	–	–	–	–	–	–		–	–		–
Fan	–	0	0	0	0	0	0		0	0		0
Cast iron fan	–	–	0	5	0	79	0		0	–		–
Brake without fan	71	–	–	–	–	–	–		–	–		–
Brake + fan	–	40	52	73	70	79	90		109	96		83
Brake + cast iron fan	–	–	52	73	70	79	90		109	–		–
Brake + S/P encoder	135	–	–	–	–	–	–		–	–		–
Brake + S/P encoder + fan	–	103	96	–	–	–	–		–	–		–
S/P encoder without fan	71	–	–	–	–	–	–		–	–		–
S/P encoder + fan	–	56	52	97	86	81	80		102	88		–

Geared motor	Motor frame size								
2-pole and 6-pole	**063-11**	**063-31**	**071-□1 071-□3**	**080-□1 080-□3**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-31**
Motor length without options k_1	193	204	176	225	242	280	310	323	409
Options	Δ k								
Fan	0		0	0	0	0		0	0
Cast iron fan	–		0	0	0	94		0	0
Brake + fan	56		66	68	74	94		101	127
Brake + cast iron fan	–		66	68	74	94		101	127
S/P encoder + fan	56		66	68	87	100		99	108

Dimensions in [mm]

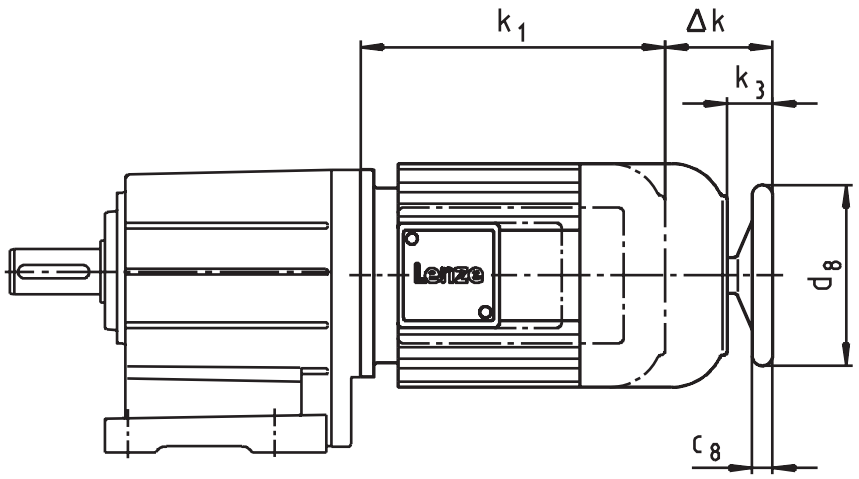


Geared motor **4-pole**		Motor frame size **071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**
Motor	g_3	138	156	176	194	222		257	310	
	k_1 [1]	207	225	276	309	319	363	404	475	519
	k_3	13	17	16	18	18		21	25	
Options		**Δ k**								
Fan		13	17	16	18	18		21	25	
Cast iron fan		13	22	16	97	18		21	–	
Brake	+ fan	65	90	86	97	108		130	121	
Brake	+ cast iron fan	65	90	86	97	108		130	–	
Brake	+ S/P encoder + fan	109	–	–	–	–		–	–	
S/P encoder	+ fan	65	114	102	99	98		123	113	

Geared motor **2-pole and 6-pole**		Motor frame size **071-□1 071-□3**	**080-□1 080-□3**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	g_3	138	156	176	194		218	257
	k_1 [1]	176	225	242	280	310	323	409
	k_3	13	17	16	18		18	21
Options		**Δk**						
Fan		13	17	16	18		18	21
Cast iron fan		13	17	16	112		18	21
Brake	+ fan	79	85	90	112		119	148
Brake	+ cast iron fan	79	85	90	112		119	148
S/P encoder	+ fan	79	85	103	118		117	129

Dimensions in [mm]

[1] Dimensions without options

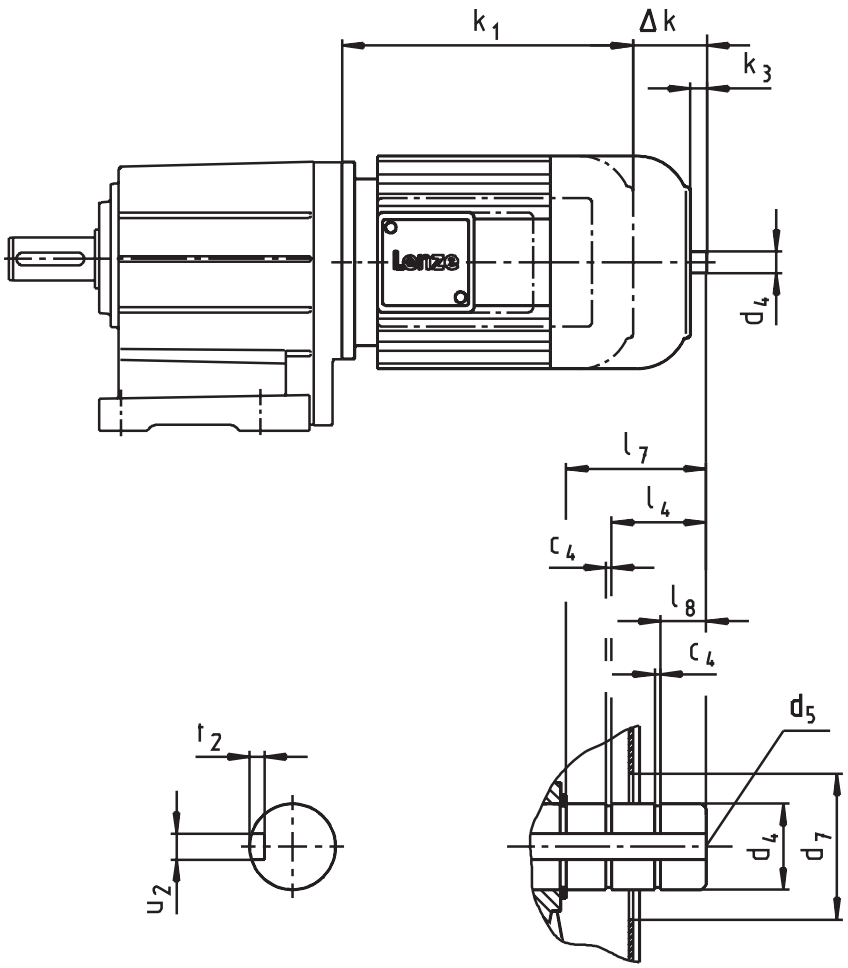


Geared motor **4-pole**		Motor frame size						
		071C32 071C42	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**
Motor	k_1 1)	207	225	276	309	319	374	404
	k_3	34	32	32	42	39		50
Handwheel	d_8	160	160	160	160	160		250
	c_8	18	18	18	18	18		26
Options		Δk						
Integral fan Cast iron fan Brake + integral fan		70	91	80	94	107		126

Geared motor **2-pole and 6-pole**		Motor frame size						
		071-□1 071-□3	**080-□1 080-□3**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	k_1 1)	176	225	242	280	310	323	409
	k_3	35	33	32	40		39	50
Handwheel	d_8	160	160	160	160		160	250
	c_8	18	18	18	18		18	26
Options		Δk						
Integral fan Cast iron fan Brake + integral fan		85	86	87	108		116	144

Dimensions in [mm]

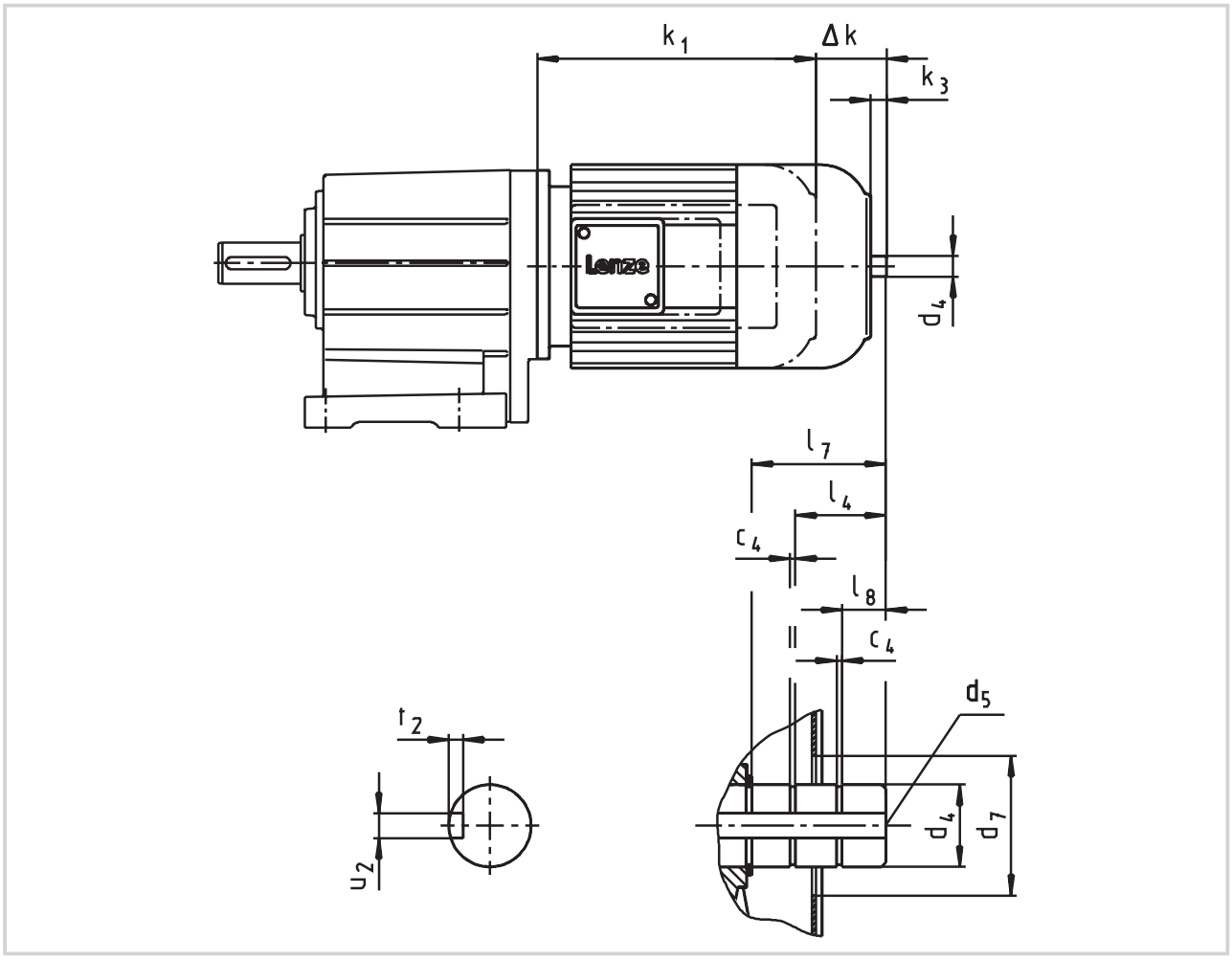
1) Motor length without options



Geared motor		Motor frame size						
4-pole		**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**
Motor	k_1 [1]	207	225	276	309	319	363	404
	k_3	11	9	9	19	16		25
Shaft end	c_4	1.1	1.1	1.1	1.3	1.3		1.6
	d_4	14 h6	14 h6	14 h6	20 j6	20 j6		30 j6
	d_5	M5	M5	M5	M6	M6		M10
	d_7 [2]	34	34	34	34	34		46
	l_4	-	-	-	17	17		24.5
	l_7	19	19	19	32.5	28.5		42
	l_8	3	4.5	5	10.5	7		8.5
	u_2	5	5	5	6	6		8
	t_2	3	3	3	3.5	3.5		4
Options		**Δk**						
Integral fan Cast iron fan Brake + integral fan		47	68	57	71	84		101

Dimensions in [mm]

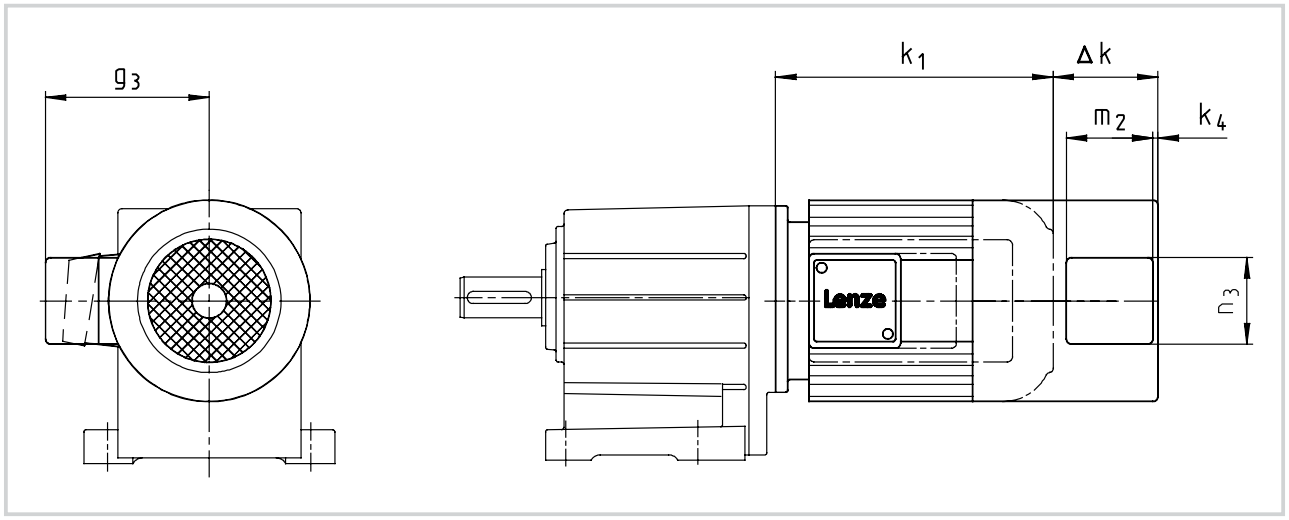
[1] Motor length without options
[2] During operation, appropriate means should be used to guard the fan cover opening.



Geared motor **2-pole and 6-pole**		Motor frame size **071-□1 071-□3**	**080-□1 080-□3**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Motor	k_1 [1]	176	225	242	280	310	323	409
	k_3	12	10	9	17		16	24
Shaft end	c_4	1.1	1.1	1.1	1.3		1.3	1.6
	d_4	14 h6	14 h6	14 h6	20 j6		20 j6	30 j6
	d_5	M5	M5	M5	M6		M6	M10
	d_7 [2]	34	34	34	34		34	46
	l_4	–	–	–	17		17	24
	l_7	19	19	19	32.5		30.5	46
	l_8	3	4.5	5	10.5		7.6	12.5
	u_2	5	5	5	6		6	8
	t_2	3	3	3	3.5		3.5	4
Options		Δk						
Integral fan Cast iron fan Brake + integral fan		62	63	64	85		93	118

Dimensions in [mm]

[1] Motor length without options
[2] During operation, appropriate means should be used to guard the fan cover opening.



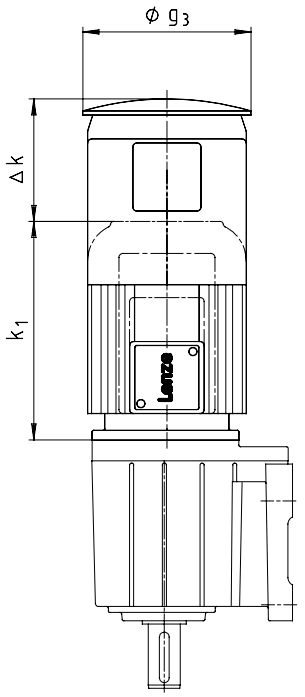
Geared motor **4-pole**		Motor frame size										
		063C12 063C32 063C42	**071C32 071C42**	**080C32 080C42**	**090C32**	**100C12 100C32**	**112C22**	**112C32**	**132C22 132C32**	**160-22**	**160-32**	**180-22 180-32**
Separate fan	g_3	115	122	131	141	150	162		182	217		217
	k_4	12	12	12	22	22	22		32	3		3
	m_2	96	96	96	96	96	96		96	91		91
	n_3	106	106	106	106	106	106		106	91		91
Cable glands	**Position 4**	1x M16x1.5	1x M16x1.5	1x M16x1.5	1x M16x1.5	1x M16x1.5	1x M16x1.5		1x M16x1.5	1x M16x1.5		1x M16x1.5
Motor length without options	k_1	188	207	225	276	309	319	363	404	475	519	592
Options		Δk										
Separate fan		130	128	128	127	109	102		115	96		83
S/P encoder + separate fan		130	128	128	127	109	183		201	208		198
Brake + separate fan		170	165	184	180	170	183		201	208		198
Brake + S/P encoder+ separate fan		170	165	184	180	170	183		201	208		198

Geared motor **2-pole and 6-pole**		Motor frame size								
		063-11	**063-31**	**071-□1 071-□3**	**080-□1 080-□3**	**090-11 090-31**	**100-31**	**100-41**	**112-31 112-41**	**132-21**
Separate fan	g_3	110		120	127	151	159		173	193
	k_4	5		5	5	3	3		3	3
	m_2	70		70	70	91	91		91	91
	n_3	70		70	70	91	91		91	91
Cable glands	**Position 4**	1x M16x1.5		1x M16x1.5	1x M16x1.5	1x M16x1.5	1x M16x1.5		1x M16x1.5	1x M16x1.5
Motor length without options	k_1	193	204	176	225	242	280	310	323	409
Options		Δk								
Separate fan		71		80	94	101	97		95	104
S/P encoder + separate fan		118*		134*	94	101	97		183	218
Brake + separate fan		118		134	150	164	169		183	218
Brake + S/P encoder+ separate fan		118*		134*	150	164	169		183	218

Dimensions in [mm]

Position of cable glands based on terminal box in Position 5.

Caution! On versions with starttec or motor terminal box (options marked *), the starttec/motor terminal box and separate fan terminal box cannot be located in the same position.



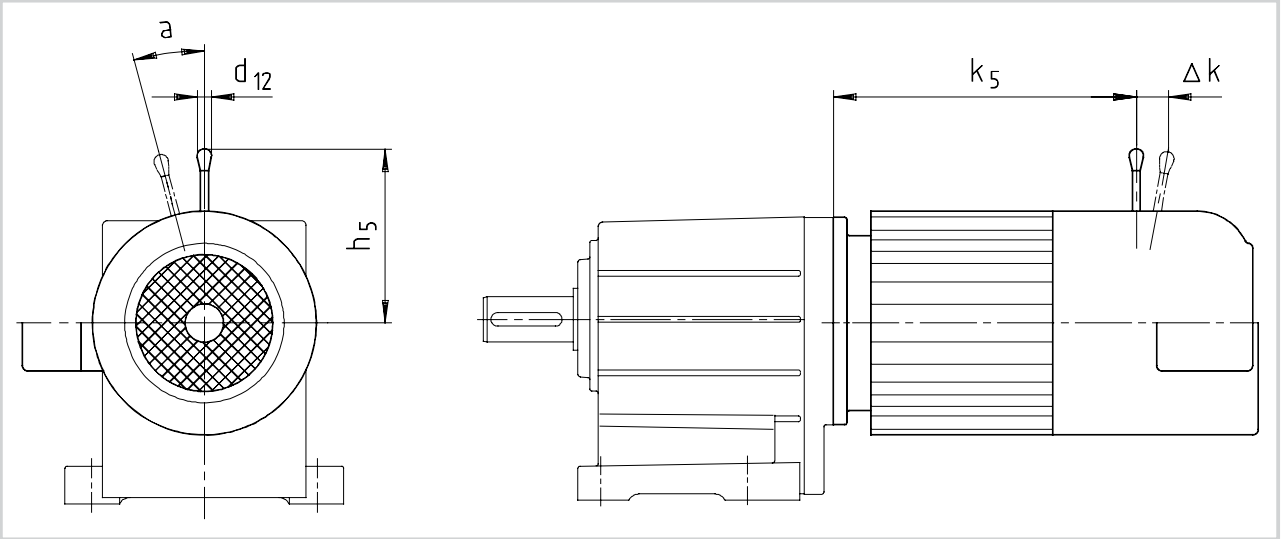
Geared motor 4-pole		Motor frame size									
		063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32
Motor	g_3	133	150	170	188	210	249		300	338	
	k_1 [1]	188	207	225	276	309	319	363	404	475	519
Options		Δk									
Separate fan		169	165	168	157	137	135		140	157	
S/P encoder + separate fan		169	165	168	157	137	216		226	269	
Brake	+ separate fan	209	202	224	210	198	216		226	269	
Brake	+ S/P encoder + separate fan	209	202	224	210	198	216		226	269	

Geared motor 2-pole and 6-pole		Motor frame size								
		063-11	063-31	071-□1 071-□3	080-□1 080-□3	090-11 090-31	100-31	100-41	112-31 112-41	132-21
Motor	g_3	133		150	170	188	210		249	300
	k_1 [1]	193	204	176	225	242	280	310	323	409
Options		Δk								
Separate fan		120		127	144	152	147		149	158
S/P encoder + separate fan		167 *		181 *	144	152	147		237	272
Brake	+ separate fan	167		181	200	215	219		237	272
Brake	+ S/P encoder + separate fan	167 *		181 *	200	215	219		237	272

Dimensions in [mm]

[1] Dimensions without options

Caution! On versions with starttec or motor terminal box (options marked *), the starttec/motor terminal box and separate fan terminal box cannot be located in the same position.



Geared motor 4-pole				Motor frame size										
				063C02 063C22	063C12 063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	112C32	132C22 132C32	160-22	160-32	180-22 180-32
			a	0°	0°	15°	15°	0°	0°	0°	0°	0°	0°	0°	0°
Brake size	d_{12}	h_5	Δ k	k5											
06	13	107	23	185	173	186									
08	13	116	21				207	245							
10	13	132	21				218	256	279						
12	13	161	29						281	292	336				
14	24	195	31								340	373			
16	24	240	42									377	420		
18	24	279	55										423	467	539
20	24	319	74												546
Motor terminal box/starttec				Manual release lever and motor terminal box/starttec in same position											
KK2				▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
KK3				-	-	-	-	-	▲	▲	▲	▲	▲	▲	▲
starttec				-	-	-	-	-	▲	▲	-	-	-	-	-

Geared motor 2-pole and 6-pole				Motor frame size								
				063-11	063-31	071-□1 071-□3	080-□1 080-□3	090-11 090-31	100-31	100-41	112-31 112-41	132-21
			a	0°	0°	0°	0°	0°	0°	0°	0°	0°
Brake size	d_{12}	h_5	Δ k	k5								
06	13	107	23	169	181	170						
08	13	116	21				212	224				
10	13	132	21					235	268	298		
12	13	161	29						270	300	303	
14	24	195	31								307	393
16	24	240	42									396
Motor terminal box/starttec				Manual release lever and motor terminal box/starttec in same position								
KK2				▲	▲	-	▲	▲	▲	▲	▲	▲
KK3				-	-	-	-	-	▲	▲	▲	▲
starttec				-	-	-	-	-	-	-	-	-

Dimensions in [mm]

To the Lenze sales office

☐ **Order**

☐ **Quotation**

Fax no. _____

From

_____
Company

_____
Street/PO box

_____
Town/Postcode

_____
Date Signature

Customer no.

_____
Order no.

_____
Name

_____
Department

_____
Tel. no.

Delivery address (if different)

_____
Street:

_____
Town/Postcode

Invoice to (if different)

_____
Street/PO box

_____
Town/Postcode

Requested delivery date _____

Despatch information _____

_____

Customer no.

Order no.

Quantity i = Unit price

GST ☐☐ - ☐1 ☐2 ☐3 ☐M ☐N ☐W ☐V ☐A ☐B ☐C ☐R ☐K ☐L Motor frame size/Drive size ☐☐☐☐☐☐

Additional ordering data

Dimensions
☐ V (only on GST03) ☐ K ☐ L
Solid shaft d = ☐ mm Flange a2 = ☐ mm

Mounting position
A ☐ B ☐ C ☐ D ☐ E ☐ F

Position of system elements (mark non-fixed positions with 0)
Terminal box
0 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Colour
Standard
GST 03: ☐ Not painted (aluminium housing)
GST 04...14: ☐ RAL 9018 paint (papyrus white) ☐ Grey primer

Options

Special lubricant
☐ CLP-HC 320 (synthetic) ☐ CLP-HC 220 (Food-compatible oil)

Special paint finish
GST 03: RAL ☐ ☐ Grey primer
GST 04...14: RAL ☐

Output shaft bearing
☐ Reinforced bearing (size 04 ... 14)

Shaft sealing rings
☐ Viton

Version N: Mounting flange
☐ Clamping hub ☐ Clamping ring hub

Ventilation
☐ Ventilation units for size 05...07 ☐ Reservoir mounting position C for size 09...14

See page 9-8 for ordering data for motor options

Σ

Customer no.

Order no.

Quantity i = Unit price

GFL - 2 / 3 | M / N / W | V / H / S | A / B / C / D | R / K Motor frame size/Drive size

Additional ordering data

Dimensions
H S Hollow shaft dH7 = mm K Flange a2 = mm

Mounting position
A B C D E F

Position of system elements (mark non-fixed positions with 0)
Shaft 0 6 1 Foot 0 3 4 Terminal box 0 2 3 4 5

Colour
RAL 9018 paint (papyrus white) Grey primer

Options

Special lubricant
CLP-HC 320 (synthetic) CLP-HC 220 (Food-compatible oil)

Special paint finish
RAL

Shaft sealing rings
Viton

Version N: Mounting flange
Clamping hub Clamping ring hub

Accessories
Rubber buffer set for torque plate
Shrink disc cover
Assembly kit for hollow shaft retention

Ventilation
Ventilation units for size 05...07 Reservoir mounting position C for size 09...14

See page 9-8 for ordering data for motor options

Σ

Customer no.

Order no.

Quantity i = Unit price

GKR ☐☐ **-2** M ☐ N V ☐ H ☐ S A ☐ B R ☐ K Motor frame size/Drive size ☐☐☐☐☐☐

Additional ordering data

Dimensions
☐ H ☐ S Hollow shaft dH7 = ☐ mm ☐ K Flange a2 = ☐ mm

Mounting position
A ☐ B ☐ C ☐ D ☐ E ☐ F ☐

Position of system elements (mark non-fixed positions with 0)

	Shaft				Flange				Terminal box				
	0	3	5	8	0	3	5	8	0	2	3	4	5
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Colour

Standard paint finishes

Geared motor ☐ **Not painted (aluminium housing)**

Gearbox with mounting flange **GKR 03** ☐ **Not painted (aluminium housing)**

GKR 04...06 ☐ **RAL 9018 paint** (papyrus white) ☐ Grey primer

Options

Special lubricant
☐ CLP-HC 320 (synthetic) ☐ CLP-HC 220 (Food-compatible oil)

Special paint finish
RAL ☐ ☐ Grey primer (geared motor)

Shaft sealing rings
☐ Viton

Version N: Mounting flange
☐ Clamping hub ☐ Clamping ring hub

Accessories
☐ Rubber buffer for torque plate (GKR 03/04 only)
☐ Torque plate pitch circle ☐ Torque plate housing foot (GKR 05/06 only)
☐ 2nd output shaft ☐ Jet-proof hollow shaft cover
☐ Cover for shrink disc ☐ Assembly kit for hollow shaft retention

See page 9-8 for ordering data for motor options

Σ

Fax order form
Helical-bevel geared motors/Helical-bevel gearboxes

Customer no.

Order no.

Quantity i = Unit price

GKS ☐☐ - 3 / 4 — M / N / W — V / H / S — A / B — R / K Motor frame size/Drive size ☐☐☐☐☐☐

Additional ordering data

Dimensions
H S Hollow shaft dH7 = ☐ mm K Flange a2 = ☐ mm

Mounting position
A ☐ B ☐ C ☐ D ☐ E ☐ F ☐

Position of system elements (mark non-fixed positions with 0)

	Shaft	Flange	Terminal box
0	☐	☐	☐
3	☐	☐	☐
5	☐	☐	☐
8	☐	☐	☐
2			☐
4			☐

Colour
☐ RAL 9018 paint (papyrus white) ☐ Grey primer

Options

Special lubricant
☐ CLP-HC 320 (synthetic) ☐ CLP-HC 220 (Food-compatible oil)

Special paint finish
RAL ☐

Shaft sealing rings
☐ Viton

Version N: Mounting flange
☐ Clamping hub ☐ Clamping ring hub

Accessories
☐ Torque plate at housing foot ☐ Torque plate at pitch circle
☐ 2nd output shaft
☐ Shrink disc cover ☐ Jet-proof hollow shaft cover
☐ Assembly kit for hollow shaft retention

Ventilation
☐ Ventilation units for size 05...07 ☐ Reservoir mounting position C for size 09...14

See page 9-8 for ordering data for motor options

Σ

Customer no.

Order no.

Quantity i = Unit price

GSS - 2 3 | M N W | V H S | A B | R K Motor frame size/Drive size

Additional ordering data

Dimensions
H S Hollow shaft dH7 = mm K Flange a2 = mm

Mounting position
A B C D E F

Position of system elements (mark non-fixed positions with 0)
Shaft: 0 3 5 8 Flange: 0 3 5 8 Terminal box: 0 2 3 4 5

Colour
RAL 9018 paint (papyrus white) Grey primer

Options

Special lubricant
CLP-HC 220 (Food-compatible oil)

Special paint finish
RAL

Shaft sealing rings
Viton

Version N: Mounting flange
Clamping hub Clamping ring hub

Accessories
Torque plate at housing foot Torque plate at pitch circle
2nd output shaft
Shrink disc cover Jet-proof hollow shaft cover
Assembly kit for hollow shaft retention

Ventilation
Ventilation units for size 05...07

See page 9-8 for ordering data for motor options

Σ

Customer no.

Order no. _____

Cable glands
(only for terminal box KK1) in position ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

starttec motor starter ☐

Separate fan ☐ **1~** ☐ **3~**

Terminal box for separate fan in position ☐ 2 ☐ 3 ☐ 4 ☐ 5

Spring-operated brake

Brake size ☐ Supply voltage ☐ V (AC/DC)

Brake options ☐ Manual release with lever in position ☐ 2 ☐ 3 ☐ 4 ☐ 5

☐ Low noise version (Standard for brake with speed/position encoder)

☐ Rectifier **4-pole** ☐ Rectifier **6-pole**

Speed/position encoder

☐ Resolver

☐ Incremental encoder HTL ☐ 512 pulses ☐ 2048 pulses

☐ Incremental encoder TTL ☐ 512 pulses ☐ 2048 pulses

Motor protection ☐ PTC ☐ KTY

Additional options

☐ Y/Δ; 400/230 V (only complete for motor frame sizes 112C32 to 180-32 in operation at 87 Hz)

☐ Condensation drain hole

☐ Protective cover

☐ 2nd shaft ☐ Handwheel

☐ Increased centrifugal mass (cast iron fan)

☐ Plug connector

Observe possible combinations of the attachments (see page 2-19, 2-21)