

g500-S shaft-mounted helical geared motors

Mains operation

0.12 ... 0.55 kW (efficiency class IE1)

0.75 ... 30 kW (efficiency class IE3)



g500-S shaft-mounted helical geared motors



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General information

List of abbreviations

α	[rad/s ²]	Max. permissible angular acceleration
$\eta_{50\%}$	[%]	Efficiency
$\eta_{75\%}$	[%]	Efficiency
$\eta_{100\%}$	[%]	Efficiency
η_a		Efficiency
$\eta_{c=1}$		Efficiency
c		Load capacity
$\cos \phi$		Power factor
dU/dt	[kV/μs]	Insulation resistance
$F_{ax,-}$	[N]	Min. axial force
$F_{ax,+}$	[N]	Max. axial force
$F_{ax,max}$	[N]	Max. axial force
$f_{in,max}$	[Hz]	Max. input frequency
f_{max}	[kHz]	Limit frequency
f_{max}	[kHz]	Max. switching frequency
f_N	[Hz]	Rated frequency
$F_{rad,max}$	[N]	Max. radial force
f_z		Additional radial force factor
H_{max}	[m]	Site altitude
I_0	[A]	Standstill current
i		Ratio
$I_{in,max}$	[A]	Max. input current
I_{max}	[A]	Max. current consumption
I_{max}	[A]	Max. current
I_{max}	[A]	Max. current consumption
I_{max}	[A]	Max. current
I_{max}	[A]	Max. short-time DC-bus current
I_{max}	[A]	Max. DC-bus current
I_N	[A]	Rated current
$I_{N,\Delta}$	[A]	Rated current
$I_{N,Y}$	[A]	Rated current
J	[kgcm ²]	Moment of inertia
J_{MB}	[kgcm ²]	Moment of inertia
$K_{E_{LL} 150^\circ C}$	[V / (1000 r/min)]	Voltage constant
$K_{t_0 150^\circ C}$	[Nm/A]	Torque constant
L_{10}	[h]	Bearing service life
L	[mH]	Mutual inductance
$L_{1\sigma}$	[mH]	Stator leakage inductance
$L_{2\sigma}$	[mH]	Rotor leakage inductance
L_N	[mH]	Rated inductance
m	[kg]	Mass
M_2	[Nm]	Output torque
M_{22}	[Nm]	Output torque
M_0	[Nm]	Stall torque
$M_{0,max}$	[Nm]	Max. standstill torque
$M_{2,GM}$	[Nm]	Output torque
$M_{2,max}$	[Nm]	Max. output torque
$M_{2,not}$	[Nm]	Emergency off-torque

M_a	[Nm]	Starting torque
$M_{a,1}$	[Nm]	Starting torque
$M_{a,2}$	[Nm]	Starting torque
M_{av}	[Nm]	Average dynamic torque
M_b	[Nm]	Stalling torque
M_B	[Nm]	Braking torque
M_k	[Nm]	Rated torque
M_{max}	[Nm]	Max. torque
M_N	[Nm]	Rated torque
n_2	[r/min]	Output speed
n_{21}	[r/min]	Output speed
n_{22}	[r/min]	Output speed
$n_{1,max}$	[r/min]	Max. gearbox input speed
$n_{1,max\ 50\%}$	[r/min]	Max. gearbox input speed
n_{eto}	[r/min]	Transition speed
n_k	[r/min]	Speed
n_{max}	[r/min]	Max. speed
n_N	[r/min]	Rated speed
P_{max}	[kW]	Max. power input
Q_{BW}	[MJ]	Friction energy
Q_E	[J]	Maximum switching energy
Q_E	[kJ]	Maximum switching energy
R_1	[Ω]	Stator impedance
R_2	[Ω]	Rotor impedance
R	[Ω]	Insulation resistance
R	[Ω]	Min. insulation resistance
$R_{UV\ 150^\circ C}$	[Ω]	Stator impedance
$R_{UV\ 20^\circ C}$	[Ω]	Stator impedance
$S_{\text{hü}}$	[1/h]	Transition operating frequency
t_1	[ms]	Engagement time
t_2	[ms]	Disengagement time
t_{11}	[ms]	Delay time
t_{12}	[ms]	Rise time
T	[°C]	Max. surface temperature
T	[°C]	Min. ambient temperature for transport
T	[°C]	Max. ambient temperature for transport
T	[°C]	Max. ambient temperature of bearing
T	[°C]	Min. ambient storage temperature
T	[°C]	Ambient temperature
T	[°C]	Operating temperature
T	[°C]	Rated temperature
t	[h]	Service life
T_{opr}		Ambient operating temperature
$T_{opr,max}$	[°C]	Max. ambient operating temperature
$T_{opr,min}$	[°C]	Min. ambient operating temperature
t_{re}	[s]	Recovery time
$t_{ü}$	[ms]	Overexcitation time
U_Δ	[V]	Voltage range
U_{AC}	[V]	Mains voltage range

g500-S shaft-mounted helical geared motors



General information

List of abbreviations

U_{AC}	[V]	Mains voltage
$U_{in,max}$	[V]	Max. input voltage
$U_{in,min}$	[V]	Min. input voltage
U_{max}	[V]	Max. input voltage
U_{max}	[V]	Max. mains voltage
U_{min}	[V]	Min. mains voltage
$U_{N,\Delta}$	[V]	Rated voltage
$U_{N, AC}$	[V]	Rated voltage
$U_{N, DC}$	[V]	Rated voltage
$U_{N,\gamma}$	[V]	Rated voltage
z_g		Number of teeth
Z_{ro}	[Ω]	Rotor impedance
Z_{rs}	[Ω]	Impedance
Z_{so}	[Ω]	Stator impedance
z_t		Number of teeth

CCC	China Compulsory Certificate
CE	Communauté Européenne
CEL	China Energy Label
CSA	Canadian Standards Association
CSAULE	Energy Verified Certificate
cURus	Combined certification marks of UL for the USA and Canada
DIN	Deutsches Institut für Normung e.V.
EAC	Customs union Russia / Belarus / Kazakhstan certificate
EMC	Electromagnetic compatibility
EN	European standard
IM	International Mounting Code
IP	International Protection Code
NEMA	National Electrical Manufacturers Association
UkrSEPRO	Certificate for Ukraine
UL	Underwriters Laboratory Listed Product
UR	Underwriters Laboratory Recognized Product
VDE	Verband deutscher Elektrotechniker (Association of German Electrical Engineers)

g500-S shaft-mounted helical geared motors



General information

Product information

In combination with three-phase AC motors, our shaft-mounted helical gearboxes form a compact and powerful drive unit. Numerous options at the input and output end provide for the drive to be exactly adapted to your application.

The slim shaft-mounted helical gearboxes feature high reliable radial forces, closely stepped gear reductions and a low backlash. They are available in 2-stage and 3-stage design with a torque up to 4500 Nm and a ratio of up to $i = 430$.

Three-phase AC motors as a basis for geared motors

In a power range of 0.12 to 30 kW, Lenze offers mains-operated three-phase AC motors for basic tasks.

These drives come in different efficiency classes and can be used for the versions required for mains operation.

- IE1 motors up to a power of 0.55 kW
- IE3 motors from 0.75 kW to 30 kW

Versions

- Slimline design saves installation space of the machine
- Solid shaft, hollow shaft and shrink disc for direct integration into the machine
- High accuracy with axial output provides for the highest efficiency

Customer benefit

- Different efficiency classes for the greatest economic benefit
- Saving of space by compact direct mounting to Lenze gearboxes
- Optimum adaptation of the brake reaction by optional holding brakes and service brakes
- Optional overheat control by temperature monitoring

The product name

Gearbox type	Product range		Design	Rated torque [Nm]	Product
Shaft-mounted helical gearbox	g500	-	S	130	g500-S130
				220	g500-S220
				400	g500-S400
				660	g500-S660
				950	g500-S950
				2100	g500-S2100
				3100	g500-S3100
				4500	g500-S4500



g500-S shaft-mounted helical gearbox with m240-P three-phase AC motor



g500-S shaft-mounted helical gearbox with m550-P three-phase AC motor and motec



g500-S shaft-mounted helical gearbox with MCS servo motor

g500-S shaft-mounted helical geared motors

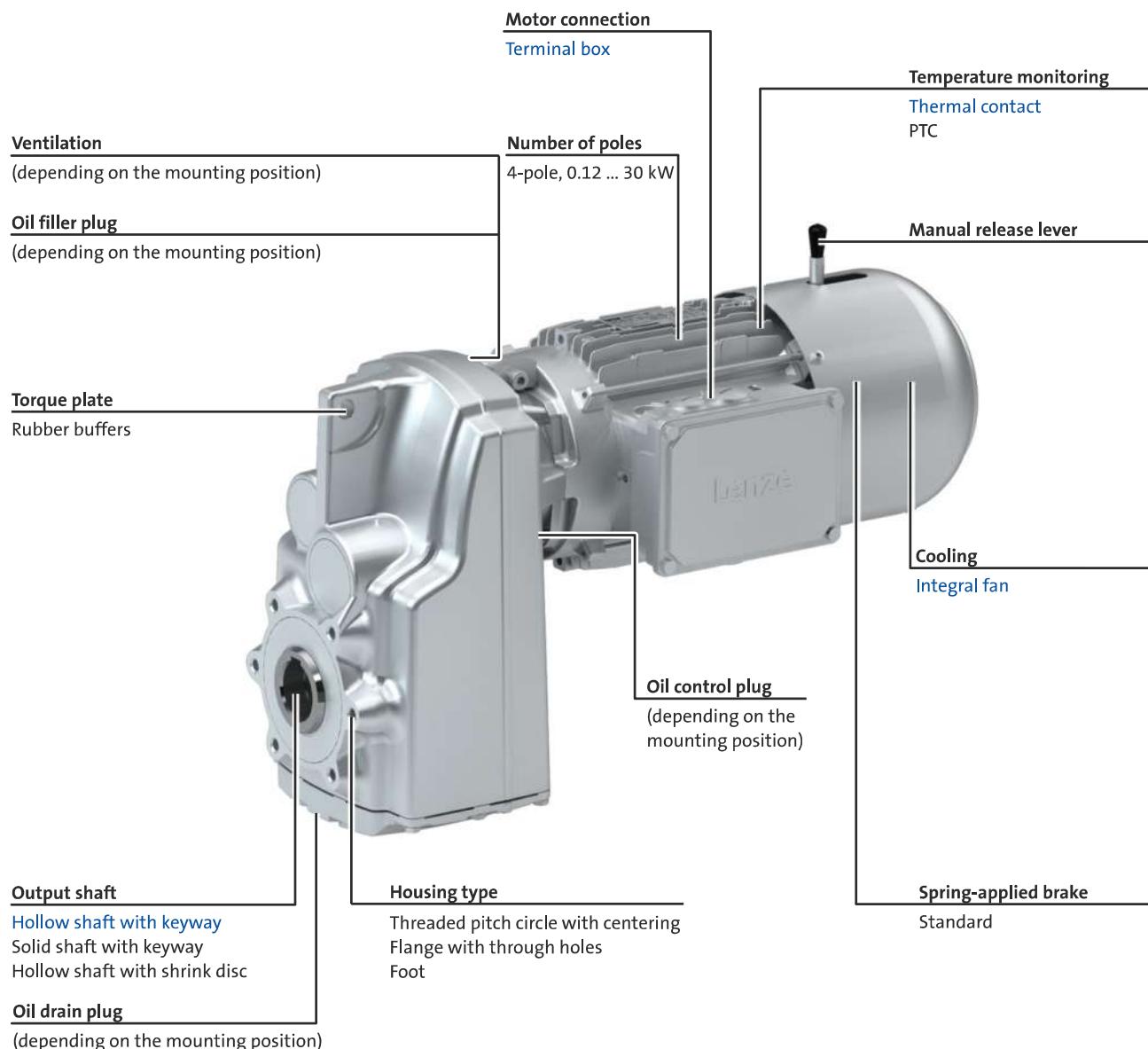


General information

Equipment

Overview

The equipment includes all the options available as standard and all the built-on accessories of the product.



Standard design

- The gearboxes g500-S950 ... S4500 comes with a housing that is always designed with foot.

► 11 - Detailed information on housing type.

g500-S shaft-mounted helical geared motors

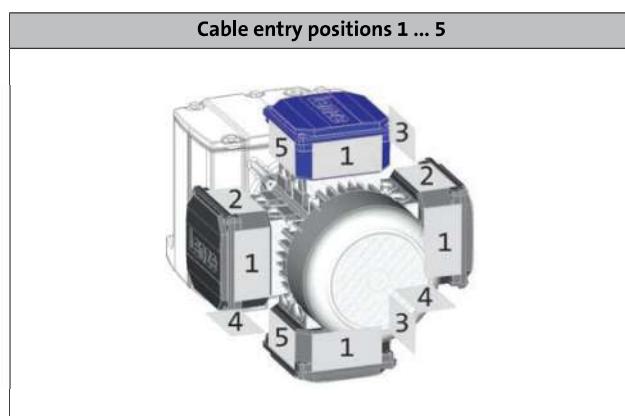
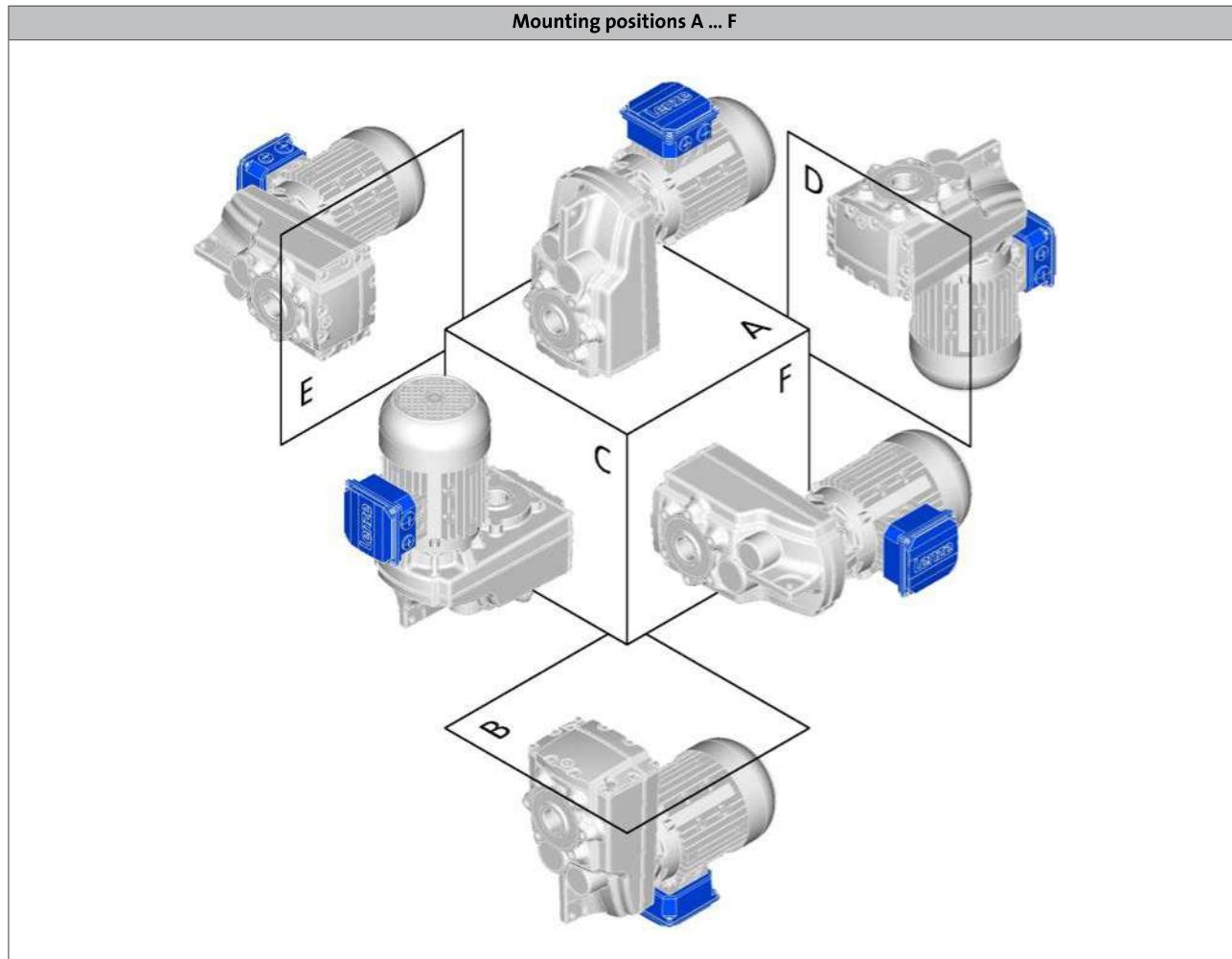


General information

Equipment

Mounting position, position of system components

- ▶ In the following graphics, the terminal box in position 2 is colour-coded.
If the mounting position (A ... F) changes, the terminal box positions 2 ... 5 are rotated accordingly.
- ▶ To reduce the number of different versions, the gearboxes can also be ordered with combined mounting positions:
 - g500-S130 ... S660 in mounting position AEF



- ▶ For details regarding the cable entry see motor chapter/product extensions.

g500-S shaft-mounted helical geared motors

General information



Equipment

Mounting position, position of system components



- Solid shaft and flange are only possible in position 6.

g500-S shaft-mounted helical geared motors



General information

The geared motor kit

g500-S130 ... S660

Product	g500-S130	g500-S220	g500-S400	g500-S660
Gearbox	g500-S130	g500-S220	g500-S400	g500-S660
Motor assignment min.	MD□MA□□-063	MD□MA□□-063	MD□MA□□-063	MD□MA□□-063
Motor assignment max.	m240-P90	m240-P100	m240-P112	m240-P132
Technical data				
Output torque max.	130 Nm	220 Nm	400 Nm	660 Nm
Drive power min.	0.12 kW	0.12 kW	0.12 kW	0.12 kW
Drive power max.	1.5 kW	3.0 kW	4.0 kW	7.5 kW
Dimensions [mm]				
Solid shaft with featherkey	25 x 50	25 x 50	30 x 60	35 x 70 40 x 80
Hollow shaft with keyway	25	25/30	30/35	40/45
Hollow shaft with shrink disc	25	25/30	35	40
Output flange	160	160	200	200/250

- ▶ Values printed in bold are standard versions.
Values not printed in bold are possible extensions, some for an additional charge.
- ▶ Values printed in bold are standard versions.
Values not printed in bold are possible extensions, some for an additional charge.

Design	
Conformity	CE EAC
Approval	Without
Degree of protection	IP55 IP65/IP66
Surface and corrosion protection	Without Different types of OKS
Colour	Not coated Primed/RAL colours
Hollow shaft	With keyway (H□□)
Hollow shaft with shrink disc	Without keyway (S□□)
Solid shaft	With featherkey (V□□)
Shaft material	Steel stainless steel
Shaft sealing ring material	NBR FKM (Viton)
Driven shaft bearing	Normal
Paste for shaft mounting	Without Enclosed
Gearbox type	Without foot and centering (□DR) With centering (□CR) With output flange (□CK) With foot (HBR/VBR)
Lubricant	Mineral oil Synthetic oil Food-compatible oil

Design	
Mounting position	A/B/C/D/E/F Combined
Power connection	Terminal box
Spring-applied brake	Without Brake design: Standard brake version: Standard
Feedback	Without
Cooling	Integral fan
Temperature monitoring	TKO thermal contact PTC thermistor

g500-S shaft-mounted helical geared motors

General information



The geared motor kit

g500-S130 ... S660

Gearbox design: hollow shaft, without foot



Without centring (HDR)



With centering (HCR)



Flange with through holes (HCK)

Gearbox design: hollow shaft, with foot



Without centring (HBR)

g500-S shaft-mounted helical geared motors

General information



The geared motor kit

g500-S130 ... S660



g500-S shaft-mounted helical geared motors



General information

The geared motor kit

g500-S130 ... S660

Gearbox design: solid shaft, without foot



Without centring (VDR)

With centering (VCR)

Flange with through holes (VCK)

Gearbox design: solid shaft, with foot



Without centring (VBR)

g500-S shaft-mounted helical geared motors



General information

The geared motor kit

g500-S950 ... S4500

Product	g500-S950	g500-S2100	g500-S3100	g500-S4500
Gearbox	g500-S950	g500-S2100	g500-S3100	g500-S4500
Motor assignment min.	MD□MA□□-063	MD□MA□□-063	MD□MA□□-063	MD□MA□□-071
Motor assignment max.	m240-P100	m240-P132	m240-P132	m240-P180
Technical data				
Output torque max.	950 Nm	2100 Nm	3100 Nm	4500 Nm
Drive power min.	0.12 kW	0.25 kW	0.25 kW	0.55 kW
Drive power max.	7.5 kW	30 kW	30 kW	30 kW
Dimensions [mm]				
Solid shaft with featherkey	40 x 80	50 x 100	60 x 120	70 x 140 80 x 160 ¹⁾
Hollow shaft with keyway	40	50/55	60/70	70/80
Hollow shaft with shrink disc	40	50	65	75/80
Output flange	250	250/300	350	400/450

¹⁾ Only steel shaft material is available.

- ▶ Values printed in bold are standard versions.
Values not printed in bold are possible extensions, some for an additional charge.
- ▶ Values printed in bold are standard versions.
Values not printed in bold are possible extensions, some for an additional charge.

Design	
Conformity	CE EAC
Approval	Without
Degree of protection	IP55 IP65/IP66
Surface and corrosion protection	OKS-S Different types of OKS
Colour	Painted in RAL colours Primed
Hollow shaft	With keyway (H□□)
Hollow shaft with shrink disc	Without keyway (S□□)
Solid shaft	With featherkey (V□□)
Shaft material	Steel stainless steel
Shaft sealing ring material	NBR FKM (Viton)
Driven shaft bearing	Normal
Paste for shaft mounting	Without Enclosed
Gearbox type	With foot (□BR) With foot and centering (□AR) With foot and output flange (□AK)
Lubricant	Mineral oil Synthetic oil Food-compatible oil

Design	
Mounting position	A/B/C/D/E/F
Power connection	Terminal box
Spring-applied brake	Without Brake design: Standard brake version: Standard
Feedback	Without
Cooling	Integral fan
Temperature monitoring	TKO thermal contact PTC thermistor

g500-S shaft-mounted helical geared motors

General information



The geared motor kit

g500-S950 ... S4500

Gearbox design: hollow shaft, with foot



Without centring (HBR)



With centering (HAR)



Flange with through holes (HAK)

Gearbox design: hollow shaft with shrink disc, with foot



Without centring (SBR)



With centering (SAR)



Flange with through holes (SAK)

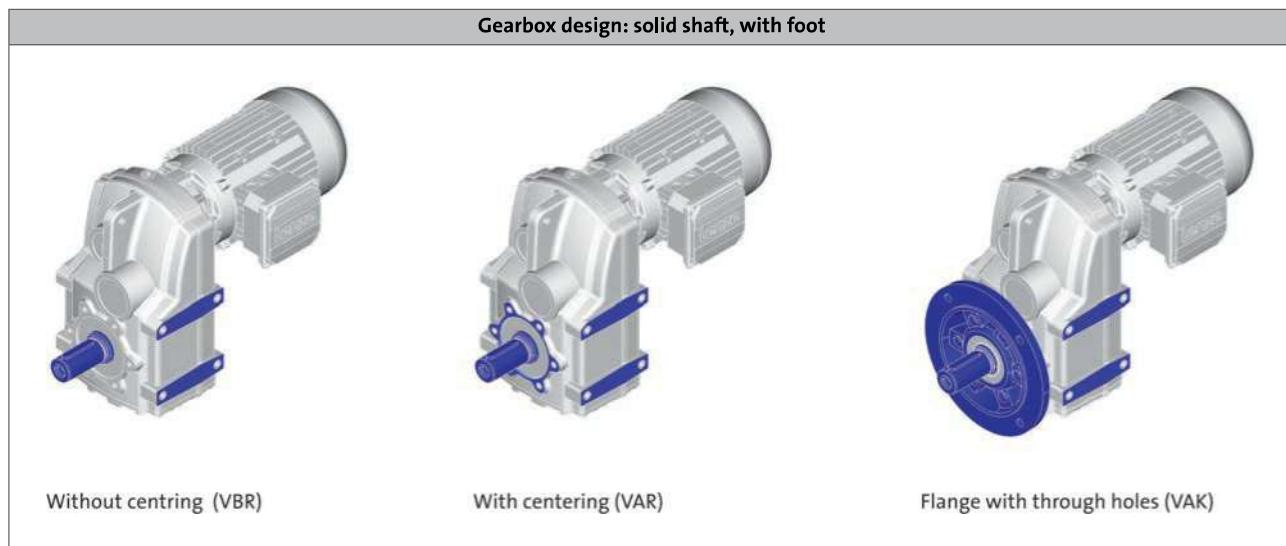
g500-S shaft-mounted helical geared motors

General information



The geared motor kit

g500-S950 ... S4500



g500-S shaft-mounted helical geared motors

Project planning



General information about the data provided in this catalogue

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

- Operating time/day = 8 h (100% OT)
- Duty class I for up to 10 switching operations/h
- Mounting positions and designs in this catalogue
- Standard lubricant
- $T_{amb} = 20 \text{ }^{\circ}\text{C}$ for gearboxes,
 $T_{amb} = 40 \text{ }^{\circ}\text{C}$ for motors (in accordance with EN 60034)
- Site altitude $\leq 1000 \text{ m amsl}$
- The selection tables provide the permissible mechanical powers and torques. For notes on the thermal power limit, see chapter drive dimensioning.
- The rated power specified for motors and geared motors applies to operating mode S1 (in accordance with EN 60034).

Under different operating conditions, the values obtained may vary from those listed here.

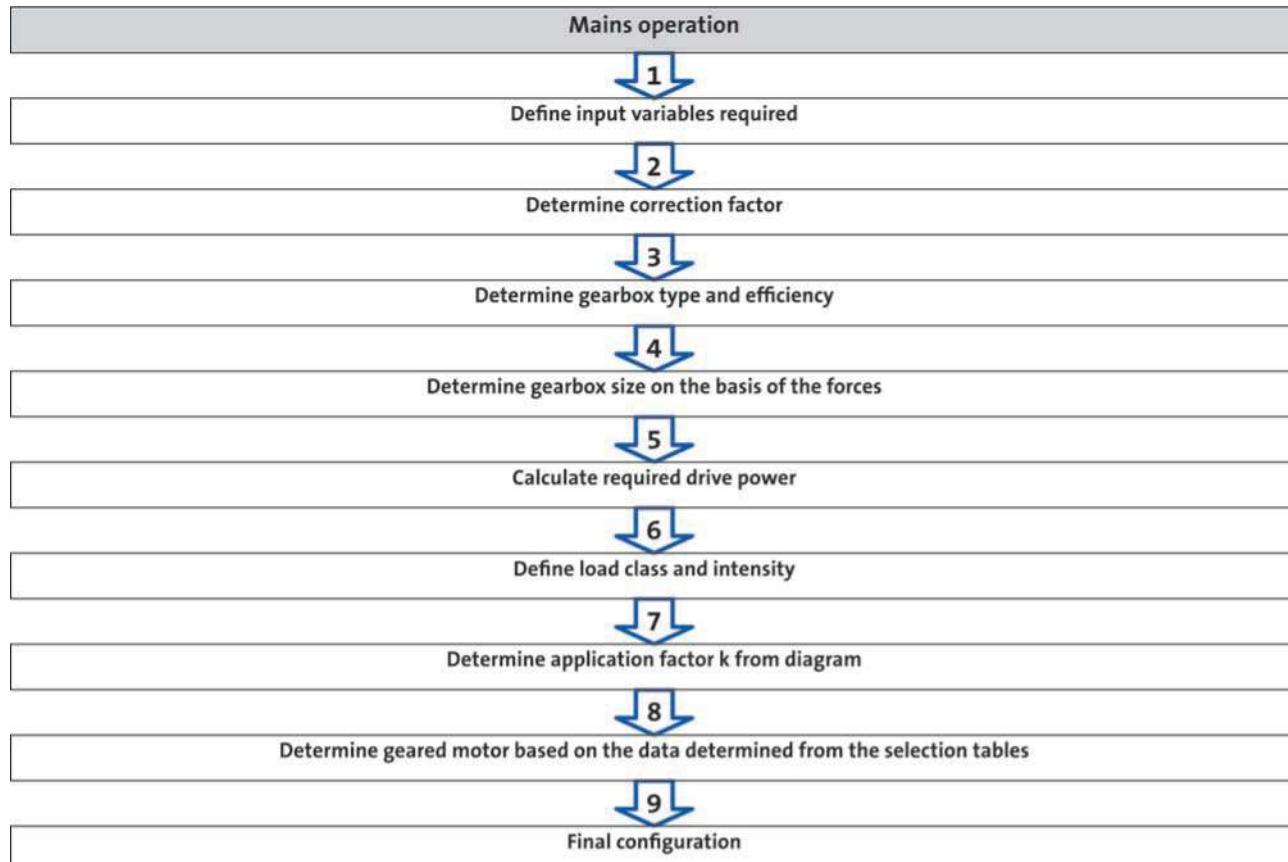
In the case of extreme operating conditions, please consult your Lenze sales office.

g500-S shaft-mounted helical geared motors



Project planning

Procedure of a configuration process



g500-S shaft-mounted helical geared motors



Project planning

Procedure of a configuration process

1 required input variables

Load torque	$M_{L,max} =$	[Nm]
Load speed	$n_{L,max} =$	[r/min]
External moments of inertia	$J_{ext} =$	[kgcm ²]
Operating time / day	$BD =$	[h]
Switching operations per h	$S_h =$	[1/h]

2 determine correction factor

Operating modes and operating time						
S1	ED	[%]	100			
	$k_L =$		1.0			
S2	ED	[%]	10	30	60	90
	$k_L =$		1.4 - 1.5	1.15 - 1.2	1.07 - 1.1	1.0 - 1.05
S3	ED	[%]	15	25	40	60
	$k_L =$		1.4 - 1.5	1.3 - 1.4	1.15 - 1.2	1.05 - 1.1
S6	ED	[%]	15	25	40	60
	$k_L =$		1.5 - 1.6	1.4 - 1.5	1.3 - 1.4	1.15 - 1.2
Site altitude						
	H	[m]	≤ 1000	≤ 2000	≤ 3000	≤ 4000
	$k_H =$		1	0.95	0.9	0.85
Ambient temperature						
	$T_U =$	[°C]	≤ 40	≤ 45	≤ 50	≤ 55
	$k_{TU} =$		1	0.95	0.9	0.8

g500-S shaft-mounted helical geared motors



Project planning

Procedure of a configuration process

3 determine gearbox type and efficiency

Gearbox type			Axial gearboxes		Right-angle gearboxes
Product			Helical gearbox	Shaft-mounted	Bevel gearbox
Gearbox efficiency	2-stage gearboxes	η_G	0.96	0.96	0.96
	3-stage gearboxes	η_G	0.95	0.95	0.95

4 determine gearbox size based on the forces on the output

Transmission element		Gear wheels	Sprockets	Toothed belt pulleys (depending on the initial stress)	Narrow V-belt (depending on the initial stress)
Additional radial force factor	$f_z =$	$\geq 17 \text{ teeth} = 1.0$ $< 17 \text{ teeth} = 1.15$	$\geq 20 \text{ teeth} = 1.0$ $< 20 \text{ teeth} = 1.25$ $< 13 \text{ teeth} = 1.4$	With belt tightener = 2.0 - 2.5 Without belt tightener = 2.5 - 3.0	1.5 - 2.0
		Calculation		Check	
Radial force	[N]	$F_{rad} = 2000 \times \frac{M_{L,max} \times f_z}{d_w}$		$F_{rad} \leq f_w \times F_{rad,max}$	
Axial force	[N]			$F_{ax} \leq F_{rad,max} \times 0.5$	

d_w = effective diameter [mm] transmission element

f_w = additional load factor

- ▶ For permissible radial and axial forces and additional load factor see the "Technical data" chapter

5 calculate drive power

		Calculation	
Drive power required	[kW]	$P_1 = \frac{M_{L,max} \times n_{L,max}}{9549 \times k_L \times k_H \times k_{Tu} \times \eta_g}$	

k_L = Correction factor - operating mode

k_H = correction factor - installation height

k_{Tu} = correction factor - ambient temperature

g500-S shaft-mounted helical geared motors



Project planning

Procedure of a configuration process

6 calculate intensity and determine duty class

Load class	Load type	Intensity
I	Smooth operation, small or light jolts	$F_I \leq 1.25$
II	Uneven operation, average jolts	$1.25 < F_I \leq 4$
III	Uneven operation, severe jolts and/or alternating load	$F_I > 4$

▶ 25 - Duty classes

	Calculation	
Intensity	$F_I = \frac{J_L + J_M + J_B + J_Z}{i^2}$ $F_I = \frac{J_M + J_B + J_Z}{J_M + J_B + J_Z}$	

i= gearbox ratio

J_L = moment of inertia of the load

J_M = moment of inertia of the motor

J_B = moment of inertia of the brake

J_Z = additional moment of inertia (handwheel, 2nd shaft end ...)

7 determine application factor k from diagram

▶ 27 - Load capacity and application factor

g500-S shaft-mounted helical geared motors



Project planning

Procedure of a configuration process

8 determine geared motor based on the data determined from the selection tables

Selection table		Check
Drive power P_N	[kW]	$P_1 \leq P_N$
Output speed n_2	[r/min]	$n_{L,max} \approx n_2$
Output torque M_2	[Nm]	$M_{L,max} \leq M_2$
Load factor c		$k \leq c$
Order information		Example
Number of stages		2
Ratio i		3.267
Product gearbox		g500-H140
Product motor		m240-P80/M4

► 27 - Load capacity and application factor

Example: structure of a selection table

50 Hz: $P_N = 0.75 \text{ kW}$ ← Rated power P_N

2-stage gearboxes ← Number of the gear stage

Mains operation 400 V, 50 Hz			i	Product		
n_2 [r/min]	M_2 [Nm]	c		g500	m240	
627	11	5.2	4.600	-H100	-P80/M2	
558	12	4.9	5.167	-H100	-P80/M2	

↑
Output speed n_2

↑
Output torque M_2

↑
Load capacity c

↑
Product Gearbox ↑
Product Motor
Ratio i

g500-S shaft-mounted helical geared motors



Project planning

Procedure of a configuration process

9 Final configuration

More information regarding the final configuration can be found under:

- The modular geared motor system
- Product extensions for gearboxes, motors

Check operating conditions	<ul style="list-style-type: none">- Operating temperature (observe lubricant, material of shaft sealing ring)- Degree of protection- Supply voltage- Surface protection required- Approvals- Conformity
Check and define connection dimensions	<ul style="list-style-type: none">- Driven shaft- Foot, output flange, centering with threaded pitch circle
Determine mounting position and position of the system blocks	<ul style="list-style-type: none">- Mounting position A/B/C/D/E/F or combined- Terminal box position, shaft position, flange position
Select product extensions at the gearbox (differing depending on the gearbox type)	<ul style="list-style-type: none">- Torque plate at the base, threaded pitch circle, rubber buffer- Hollow shaft cover, shrink disc cover
Select product extensions at the motor	<ul style="list-style-type: none">- Connection type (terminal box, connector)- Brake

g500-S shaft-mounted helical geared motors



Project planning

Standards

Operating modes

Operating modes S1 ... S10 as specified by EN 60034-1 describe the basic stress of an electrical machine.

In continuous operation a motor reaches its permissible temperature limit if it outputs the rated power dimensioned for continuous operation. However, if the motor is only subjected to load for a short time, the power output by the motor may be greater without the motor reaching its permissible temperature limit. This behaviour is referred to as overload capacity.

Depending on the duration of the load and the resulting temperature rise, the required motor can be selected reduced by the overload capacity.

The most important operating modes

Continuous operation S1	Short-time operation S2
<p>Operation with a constant load until the motor reaches the thermal steady state. The motor may be actuated continuously with its rated power.</p>	<p>Operation with constant load; however, the motor does not reach the thermal steady state. During the following standstill, the motor winding cools down to the ambient temperature again. The increase in power depends on the load duration.</p>
Intermittent operation S3	Non-intermittent periodic operation S6
<p>Sequence of identical duty cycles comprising operation with a constant load and subsequent standstill. Start-up and braking processes do not have an impact on the winding temperature. The steady-state is not reached. The guide values apply to a cycle duration of 10 minutes. The power increase depends on the cycle duration and on the load period/downtime ratio.</p>	<p>Sequence of identical duty cycles comprising operation with a constant load and subsequent no-load operation. The motor cools down during the no-load phase. Start-up and braking processes do not have an impact on the winding temperature. The steady-state is not reached. The guide values apply to a cycle duration of 10 minutes. The power increase depends on the cycle duration and on the load period/idle time ratio.</p>

g500-S shaft-mounted helical geared motors



Project planning

Standards

Duty classes

Depending on the load type, the duty classes or impacts are divided as follows:

Duty class	Load type
I	Smooth operation, small or light jolts
II	Uneven operation, average jolts
III	Uneven operation, severe jolts and/or alternating load

In order to support you in classifying your driven machine regarding the right duty class, the following shows sample applications with the corresponding duty class. Depending on, for instance, the operating frequency, driven machines can also have a higher impact. In case of uncertainties, please contact your Lenze sales office.

Drive	Duty class
Construction machines	II
Chemical industry	II
Conveyors	II
Fans	II
Plastics industry	II
Wood working	III
Hoists	III
Metal working	III
Food	II
Paper industry	III
Stones	III
Textile industry	II

g500-S shaft-mounted helical geared motors



Project planning

Standards

Degrees of protection

The degree of protection indicates the suitability of a motor for specific ambient conditions with regard to humidity as well as the protection against contact and the ingress of foreign particles. The degrees of protection are classified by EN 60529.

The first code number after the code letters IP indicates the protection against the ingress of foreign particles and dust.

The second code number refers to the protection against the ingress of humidity.

Code number 1	Degree of protection	Code number 2	Degree of protection
0	No protection	0	No protection
1	Protection against the ingress of foreign particles d > 50 mm. No protection in the case of deliberate access	1	Protection against vertically dripping water (dripping water).
2	Protection against medium-sized foreign particles, d > 12 mm, keeping away fingers or similar	2	Protection against diagonally falling water (dripping water), 15 ° compared to normal service position.
3	Protection against small foreign particles d > 2.5 mm. Keeping away tools, wires and the like	3	Protection against spraying water, up to 60 ° to the vertical
4	Protection against granular foreign particles, d > 1 mm, keeping away tools, wires and the like	4	Protection against spraying water from all directions.
5	Protection against dust deposits (dust-protected), complete protection against contact.	5	Protection against water jets from all directions.
6	Protection against the ingress of dust (dust-proof), complete protection against contact.	6	Protection against choppy seas or heavy water jets (flood protection).

g500-S shaft-mounted helical geared motors



Project planning

Load capacity and application factor

Load capacity c of gearboxes

Rated value for the load capacity of Lenze 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 application factor k calculated for the application.

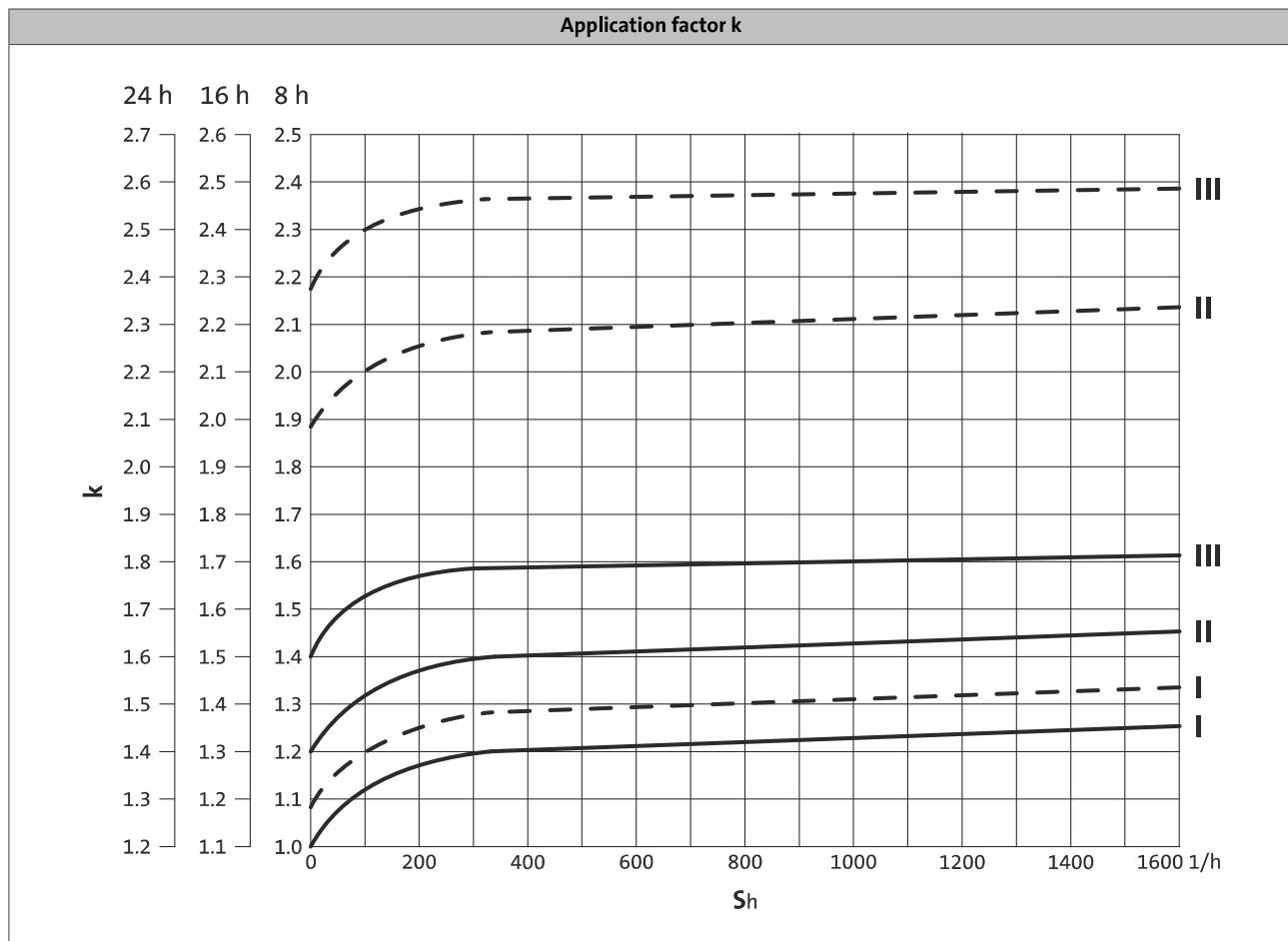
Required: $c \geq k$

Application factor k (according 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 influences



► $S_h = \text{switchings/h}$

► — Three-phase AC motors MD□MA

— Three-phase AC motors m240/m540/m550

g500-S shaft-mounted helical geared motors



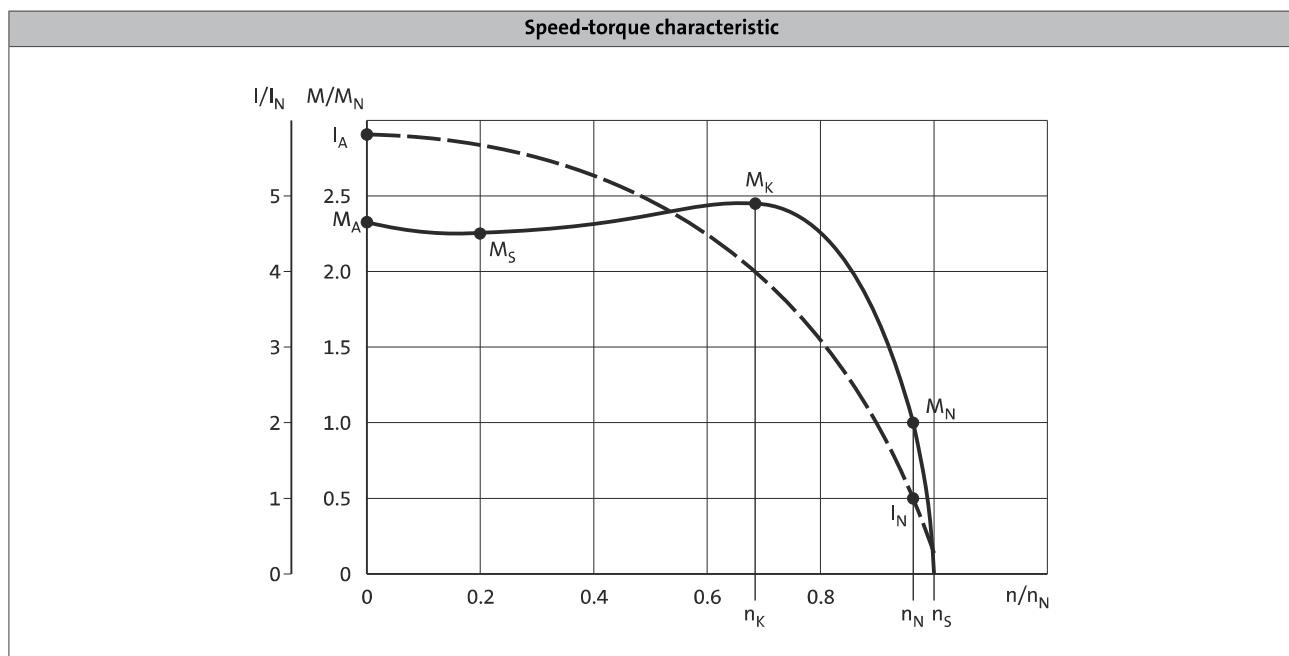
Project planning

Operational performance of three-phase AC geared motors

The g500 geared motors can be actuated directly on the mains or via an inverter. When actuated in mains operation, the motor runs at a fixed speed, for inverter operation the speed is variable. Thanks to their high degree of protection, the robust three-phase drives can be basically used in a variety of applications.

Mains operation

During mains operation, when switched on, the three-phase AC motor starts up according to the speed-torque characteristic. It passes through this characteristic until it reaches its stable operating point. This operating point has been reached if the load torque or rated torque (M_{rated}) is lower than the starting torque (M_A) and pull-up torque (M_S). The rated speed (n_{rated}) of the drive is always lower than the calculated synchronous speed (n_S). The difference between rated speed and synchronous speed relating to the synchronous speed is referred to as the "slip".



g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

The following tables contain the most important data of the gearbox with the motors that can be attached for an approximate dimensioning process of a geared motor. Detailed information can be found in the following chapters.

The data given in the tables apply to

- input speed $n_1 = 1400$ r/min
- application factor $c = 1.0$

In order to calculate the exact ratio, the number of teeth z_g (driven) can be divided by the number of teeth z_t (driving). These are rounded values.

The data for the max. radial force refer to

- solid shaft without flange
- normal storage
- application factor $c = 1.3$

For further designs see the "Technical data" chapter.

- The rated torque can be gathered from the last digits of the product name e.g. g500-S130 (130 Nm).

g500-S130, 2-stage gearboxes

Output speed	Max. output torque	Max. drive power	Ratio	Number of teeth		Max. radial force	Backlash	Rated power	
n_2	$M_{2, \text{max}}$	$P_{1, \text{max}}$	i	z_g	z_t	$F_{\text{rad,max}}$	Standard	Motor	
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
394	63	2.68	3.661	174	637	1350	20	0.25	1.50
287	76	2.36	5.021	145	728	1420	19	0.25	1.50
205	92	2.04	7.029	725	5096	1530	18	0.18	1.50
173	116	2.17	8.322	90	749	1600	13	0.25	1.50
153	125	2.07	9.411	90	847	1660	13	0.25	1.50
224	87	2.11	6.425	87	559	1500	18	0.25	1.50
126	130	1.77	11.413	75	856	1990	13	0.25	1.50
112	130	1.57	12.907	75	968	2100	12	0.25	1.50
99.0	130	1.38	14.606	315	4601	2220	13	0.25	1.50
90.0	130	1.27	15.979	375	5992	2320	13	0.18	1.50
80.0	130	1.12	18.069	375	6776	2460	12	0.18	1.10
71.0	130	0.99	20.381	21	428	2610	13	0.18	1.10
63.0	130	0.88	23.048	21	484	2780	12	0.18	0.75
58.0	130	0.82	24.967	30	749	2890	13	0.25	0.75
51.0	130	0.72	28.233	30	847	3070	12	0.25	0.75
46.0	130	0.65	31.387	75	2354	3240	13	0.12	0.75
40.0	130	0.56	35.493	75	2662	3440	12	0.12	0.55
35.0	130	0.49	40.422	45	1819	3660	13	0.12	0.55
31.0	130	0.43	45.711	45	2057	3860	12	0.12	0.37
28.0	130	0.39	51.230	165	8453	4040	12	0.12	0.37
24.0	130	0.34	57.933	15	869	4230	12	0.12	0.37
22.0	130	0.31	64.200	5	321	4360	12	0.12	0.37
19.0	130	0.27	72.600	5	363	4500	12	0.12	0.25
16.0	102	0.18	84.581	105	8881	4500	12	0.12	0.18
14.0	115	0.18	95.648	105	10043	4500	12	0.12	0.18

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S220, 2-stage gearbox

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
377	178	7.25	3.840	144	553	2360	16	0.55	3.00
275	181	5.37	5.267	15	79	2650	16	1.10	3.00
214	220	5.08	6.767	30	203	2900	13	0.55	3.00
189	217	4.43	7.667	3	23	3050	12	0.55	3.00
156	220	3.71	9.280	25	232	3250	13	1.10	3.00
138	220	3.27	10.514	35	368	3400	12	1.10	3.00
122	220	2.90	11.876	105	1247	3500	13	0.55	3.00
112	220	2.65	12.992	125	1624	3550	13	0.25	3.00
108	220	2.56	13.456	147	1978	3600	12	0.55	3.00
99.0	220	2.34	14.720	25	368	3600	12	0.25	2.20
88.0	220	2.08	16.571	7	116	3600	12	0.25	2.20
77.0	220	1.84	18.776	49	920	3600	12	0.25	2.20
71.0	220	1.69	20.300	10	203	3600	12	0.55	1.50
63.0	220	1.49	23.000	1	23	3600	12	0.55	1.50
55.0	220	1.30	26.422	45	1189	3600	12	0.25	1.50
48.0	220	1.14	29.937	63	1886	3600	12	0.25	1.10
44.0	220	1.04	32.867	15	493	3600	12	0.25	1.10
39.0	220	0.92	37.238	21	782	3600	12	0.25	1.10
34.0	220	0.81	42.533	15	638	3600	12	0.12	0.75
30.0	220	0.71	48.190	21	1012	3600	12	0.12	0.75
27.0	220	0.65	51.620	50	2581	3600	12	0.12	0.55
24.0	220	0.57	58.486	35	2047	3600	11	0.12	0.55
21.0	171	0.39	65.975	40	2639	3600	12	0.12	0.37
19.0	194	0.40	74.750	4	299	3600	11	0.12	0.37

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S220, 3-stage gearbox

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
35.0	220	0.85	40.012	345	13804	3600	13	0.18	0.37
31.0	220	0.75	45.333	3	136	3600	12	0.18	0.37
28.0	220	0.67	52.587	75	3944	3600	13	0.12	0.75
24.0	220	0.57	59.581	105	6256	3600	12	0.12	0.55
21.0	220	0.50	67.298	315	21199	3600	13	0.12	0.55
18.0	220	0.44	76.249	441	33626	3600	12	0.12	0.55
16.0	220	0.40	86.079	63	5423	3600	13	0.12	0.37
14.0	220	0.35	97.528	441	43010	3600	12	0.12	0.37
13.0	220	0.30	111.747	75	8381	3600	13	0.12	0.37
11.0	220	0.26	126.610	105	13294	3600	12	0.12	0.25
10.0	220	0.23	143.205	210	30073	3600	13	0.12	0.25
8.00	220	0.20	162.252	147	23851	3600	12	0.12	0.25
6.00	220	0.14	241.022	45	10846	3600	13	0.12	0.12
5.00	220	0.13	273.079	63	17204	3600	12	0.12	0.12
5.00	220	0.11	312.233	30	9367	3600	13	0.12	0.12
4.00	220	0.10	353.762	21	7429	3600	12	0.12	0.12

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S400, 2-stage gearbox

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
435	203	9.54	3.339	174	581	2360	16	0.55	4.00
317	243	8.33	4.579	145	664	2560	16	1.10	4.00
248	258	6.89	5.860	609	3569	2750	13	0.55	4.00
227	261	6.39	6.411	725	4648	2820	12	0.25	4.00
195	365	7.66	7.467	15	112	2980	13	0.55	4.00
172	380	7.06	8.436	39	329	3150	12	0.55	4.00
142	400	6.13	10.240	25	256	3450	13	1.10	4.00
126	400	5.42	11.569	65	752	3650	13	1.10	4.00
111	400	4.79	13.105	105	1376	3900	12	0.55	4.00
101	400	4.38	14.336	125	1792	4000	12	0.25	4.00
98.0	400	4.24	14.806	273	4042	4100	12	0.55	4.00
90.0	400	3.87	16.197	325	5264	4200	12	0.25	4.00
80.0	400	3.43	18.286	7	128	4400	12	0.25	4.00
70.0	400	3.03	20.659	91	1880	4650	12	0.25	3.00
65.0	400	2.79	22.400	5	112	4800	12	0.55	3.00
57.0	400	2.47	25.308	13	329	5100	12	0.55	3.00
50.0	400	2.14	29.156	45	1312	5500	12	0.25	1.50
44.0	400	1.89	32.940	117	3854	5750	12	0.25	1.50
40.0	400	1.72	36.267	15	544	5850	12	0.25	1.50
35.0	400	1.52	40.974	39	1598	5980	12	0.25	1.50
31.0	314	1.05	46.933	15	704	6100	12	0.12	0.75
27.0	348	1.03	53.026	39	2068	6200	11	0.12	0.75
25.0	268	0.71	56.960	25	1424	6200	12	0.12	0.55
22.0	303	0.71	64.354	65	4183	6200	11	0.12	0.55

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S400, 3-stage gearbox

Output speed n_2	Max. output torque $M_{2,\text{max}}$	Max. drive power $P_{1,\text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N,\text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
25.0	400	1.09	58.027	75	4352	6200	11	0.18	0.75
22.0	400	0.97	65.559	195	12784	6200	11	0.18	0.75
20.0	400	0.85	74.260	315	23392	6200	11	0.18	0.75
17.0	400	0.76	83.900	819	68714	6200	11	0.18	0.75
15.0	400	0.67	94.984	63	5984	6200	11	0.12	0.75
13.0	399	0.57	107.314	819	87890	6200	11	0.12	0.55
11.0	400	0.50	123.307	75	9248	6200	11	0.12	0.55
10.0	399	0.44	139.313	195	27166	6200	11	0.12	0.55
9.00	400	0.39	158.019	105	16592	6200	11	0.12	0.37
8.00	400	0.35	178.531	273	48739	6200	11	0.12	0.37
7.00	400	0.30	204.412	165	33728	6200	11	0.12	0.37
6.00	396	0.26	230.946	429	99076	6200	11	0.12	0.25
5.00	388	0.22	265.956	45	11968	6200	11	0.12	0.25
4.00	400	0.20	300.479	117	35156	6200	11	0.12	0.18
4.00	330	0.15	344.533	15	5168	6200	11	0.12	0.12
4.00	373	0.15	389.256	39	15181	6200	11	0.12	0.12

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S660, 2-stage gearbox

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
377	419	17.0	3.920	25	98	3320	14	2.20	7.50
275	492	14.6	5.376	125	672	3580	13	2.20	7.50
230	601	14.9	6.417	12	77	3660	11	2.20	7.50
215	496	11.5	6.880	25	172	3690	13	1.10	7.50
202	593	12.9	7.311	45	329	3720	11	2.20	7.50
168	638	11.6	8.800	5	44	3900	11	2.20	7.50
147	625	9.94	10.027	75	752	4200	10	2.20	7.50
131	660	9.35	11.262	42	473	4500	11	1.10	7.50
120	660	8.54	12.320	25	308	4750	10	1.10	7.50
115	660	8.20	12.832	315	4042	4850	10	1.10	7.50
105	660	7.49	14.037	375	5264	5100	10	1.10	7.50
94.0	660	6.70	15.714	7	110	5450	10	0.55	7.50
82.0	660	5.81	17.905	21	376	5800	10	0.55	5.50
76.0	660	5.40	19.250	4	77	6000	10	1.10	5.50
67.0	660	4.74	21.933	15	329	6450	10	1.10	5.50
58.0	578	3.62	25.056	18	451	7050	10	0.55	4.00
51.0	660	3.63	28.548	135	3854	7700	10	0.55	4.00
46.0	660	3.31	31.167	6	187	8100	10	0.55	3.00
41.0	660	2.91	35.511	45	1598	8500	10	0.55	3.00
36.0	545	2.11	40.333	3	121	8750	10	0.25	1.50
31.0	620	2.10	45.956	45	2068	8850	10	0.25	1.50
30.0	446	1.42	48.950	20	979	8900	10	0.25	1.10
26.0	508	1.42	55.773	75	4183	9000	10	0.25	1.10

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S660, 3-stage gearbox

Output speed n_2	Max. output torque $M_{2,\text{max}}$	Max. drive power $P_{1,\text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N,\text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
29.0	625	1.98	49.867	15	748	9000	11	0.25	1.50
25.0	650	1.81	56.818	225	12784	9000	10	0.25	1.50
23.0	660	1.63	63.817	126	8041	9000	11	0.25	1.50
21.0	660	1.50	69.813	75	5236	9000	11	0.18	1.50
20.0	660	1.43	72.713	945	68714	9000	10	0.25	1.50
18.0	660	1.31	79.545	1125	89488	9000	10	0.18	1.50
16.0	660	1.17	89.048	21	1870	9000	11	0.18	1.10
14.0	660	1.03	101.460	63	6392	9000	10	0.18	1.10
13.0	660	0.95	109.083	12	1309	9000	11	0.25	1.10
12.0	660	0.85	124.289	45	5593	9000	10	0.25	0.75
11.0	660	0.77	137.133	15	2057	9000	11	0.12	0.75
9.00	660	0.67	156.249	225	35156	9000	10	0.12	0.75
8.00	660	0.58	176.611	18	3179	9000	11	0.12	0.55
7.00	660	0.51	201.230	135	27166	9000	10	0.12	0.55
6.00	660	0.46	223.833	6	1343	9000	11	0.12	0.37
6.00	660	0.40	255.034	495	126242	9000	10	0.12	0.37
5.00	603	0.33	280.500	2	561	9000	11	0.12	0.37
4.00	660	0.32	319.600	5	1598	9000	10	0.12	0.37
4.00	447	0.18	369.548	42	15521	9000	11	0.12	0.18
3.00	511	0.18	421.060	315	132634	9000	10	0.12	0.18

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S950, 2-stage gearbox

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
337	621	22.6	4.380	92	403	8430	16	4.00	7.50
274	691	20.4	5.391	23	124	9100	15	2.20	7.50
245	732	19.3	6.038	575	3472	9490	15	2.20	7.50
192	783	16.2	7.702	161	1240	10300	14	1.10	7.50
162	950	16.6	9.100	10	91	10300	10	4.00	7.50
145	950	14.9	10.183	60	611	10300	10	4.00	7.50
132	950	13.5	11.200	5	56	10300	10	2.20	7.50
118	950	12.1	12.544	125	1568	10300	10	2.20	7.50
105	950	10.8	14.037	375	5264	10300	10	2.20	7.50
92.0	950	9.46	16.000	1	16	10300	10	1.10	7.50
82.0	950	8.46	17.905	21	376	10300	10	1.10	7.50
75.0	950	7.73	19.600	5	98	10300	10	2.20	7.50
67.0	950	6.90	21.933	15	329	10300	9	2.20	7.50
57.0	950	5.87	25.511	45	1148	10300	10	1.10	5.50
51.0	950	5.24	28.548	135	3854	10300	9	1.10	5.50
46.0	950	4.77	31.267	15	469	10300	9	1.10	4.00
42.0	950	4.26	34.989	90	3149	10300	9	1.10	4.00
35.0	950	3.62	41.067	15	616	10300	9	0.55	3.00
32.0	950	3.23	45.956	45	2068	10300	9	0.55	3.00
29.0	924	2.90	49.840	25	1246	10300	9	0.55	2.20
26.0	950	2.67	55.773	75	4183	10300	9	0.55	2.20
23.0	668	1.65	63.000	1	63	10300	9	0.55	1.10
20.0	736	1.63	70.500	2	141	10300	9	0.55	1.10

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S950, 3-stage gearbox

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
29.0	950	3.02	50.027	75	3752	10300	10	1.10	3.00
26.0	950	2.70	55.982	225	12596	10300	10	1.10	3.00
23.0	950	2.36	64.022	45	2881	10300	10	0.55	2.20
21.0	950	2.15	70.037	375	26264	10300	10	0.25	2.20
20.0	950	2.11	71.644	1890	135407	10300	10	0.55	2.20
18.0	950	1.93	78.375	1125	88172	10300	10	0.25	2.20
16.0	950	1.68	89.333	3	268	10300	10	0.25	1.50
14.0	950	1.50	99.968	63	6298	10300	10	0.25	1.50
13.0	950	1.37	109.433	30	3283	10300	10	0.55	1.50
12.0	950	1.23	122.461	180	22043	10300	10	0.55	1.50
10.0	950	1.05	142.437	135	19229	10300	10	0.25	1.10
9.00	950	0.95	159.394	810	129109	10300	10	0.25	1.10
8.00	950	0.85	177.178	45	7973	10300	10	0.25	0.75
7.00	950	0.76	198.270	270	53533	10300	10	0.25	0.75
6.00	950	0.66	229.289	45	10318	10300	10	0.12	0.75
6.00	950	0.57	256.585	135	34639	10300	10	0.12	0.55
5.00	950	0.52	278.273	150	41741	10300	10	0.12	0.55
4.00	950	0.47	311.401	900	280261	10300	10	0.12	0.55
4.00	950	0.42	355.658	120	42679	10300	10	0.12	0.37
4.00	950	0.36	397.999	720	286559	10300	10	0.12	0.37

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S2100, 2-stage gearboxes

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
322	1331	46.2	4.593	150	689	10430	12	7.50	30.00
245	1487	39.3	6.029	378	2279	11540	12	4.00	30.00
215	1487	34.5	6.870	54	371	12110	11	4.00	30.00
179	1487	28.7	8.272	378	3127	12980	11	2.20	22.00
156	1866	31.5	9.452	425	4017	13630	8	5.50	30.00
141	1872	28.4	10.504	125	1313	14180	8	5.50	30.00
119	2030	26.1	12.406	357	4429	15080	8	4.00	30.00
107	2047	23.7	13.787	315	4343	15680	8	4.00	22.00
105	2050	23.2	14.137	51	721	15700	8	4.00	22.00
94.0	2050	20.8	15.711	45	707	15700	8	4.00	22.00
87.0	2050	19.2	17.022	357	6077	15700	7	2.20	22.00
78.0	2050	17.4	18.917	315	5959	15700	7	2.20	18.50
71.0	2050	15.7	20.869	153	3193	15700	7	4.00	18.50
63.0	2050	14.0	23.193	135	3131	15700	7	4.00	15.00
52.0	2050	11.6	28.275	51	1442	15700	8	2.20	7.50
47.0	2050	10.4	31.422	45	1414	15700	8	2.20	7.50
43.0	2050	9.51	34.333	3	103	15700	8	2.20	7.50
39.0	2050	8.56	38.156	45	1717	15700	8	2.20	7.50
33.0	1983	7.00	44.431	51	2266	15700	8	1.10	4.00
29.0	2050	6.51	49.378	45	2222	15700	7	1.10	4.00
27.0	1957	5.68	53.924	170	9167	15700	7	1.10	4.00
24.0	2050	5.35	59.927	150	8989	15700	7	1.10	4.00
21.0	1454	3.34	68.162	68	4635	15700	7	1.10	2.20
19.0	1576	3.27	75.750	4	303	15700	7	1.10	2.20

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S2100, 3-stage gearboxes

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
								$\pm 20\%$	$P_{N, \text{max}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
37.0	1945	7.86	40.056	18	721	15700	8	2.20	7.50
33.0	2050	7.46	44.515	270	12019	15700	8	2.20	7.50
27.0	2050	6.04	54.933	15	824	15700	8	2.20	7.50
24.0	2050	5.37	61.049	225	13736	15700	8	2.20	5.50
21.0	2050	4.67	70.302	63	4429	15700	8	1.10	5.50
19.0	2050	4.25	76.907	75	5768	15700	8	1.10	4.00
19.0	2050	4.18	78.128	945	73831	15700	8	1.10	4.00
17.0	2050	3.82	85.468	1125	96152	15700	8	1.10	4.00
15.0	2050	3.32	98.095	21	2060	15700	8	0.55	4.00
13.0	2050	2.99	109.016	63	6868	15700	8	0.55	3.00
12.0	2050	2.72	120.167	6	721	15700	8	1.10	3.00
11.0	2050	2.45	133.544	90	12019	15700	8	1.10	3.00
9.00	2050	2.09	156.407	27	4223	15700	8	0.55	2.20
8.00	2050	1.89	173.820	405	70397	15700	8	0.55	2.20
7.00	2050	1.66	194.556	9	1751	15700	8	0.55	1.50
7.00	2050	1.51	216.215	135	29189	15700	8	0.55	1.50
6.00	2050	1.28	251.778	9	2266	15700	8	0.25	1.50
5.00	2050	1.17	279.807	135	37774	15700	8	0.25	1.10
5.00	2050	1.06	305.567	30	9167	15700	8	0.25	1.10
4.00	2050	0.97	339.584	450	152813	15700	8	0.25	1.10
4.00	1878	0.74	386.250	4	1545	15700	8	0.25	0.55
3.00	2050	0.74	429.250	4	1717	15700	8	0.25	0.55

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S3100, 2-stage gearboxes

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
298	1842	59.4	4.951	575	2847	14000	10	7.50	30.00
227	2110	51.8	6.499	483	3139	15000	10	4.00	30.00
200	2235	48.2	7.406	69	511	16000	10	4.00	30.00
166	2264	40.6	8.917	483	4307	16500	10	2.20	22.00
135	2275	33.2	10.932	207	2263	16800	10	4.00	22.00
133	3022	43.3	11.128	125	1391	17000	7	7.50	30.00
118	2965	37.6	12.584	125	1573	17500	7	7.50	30.00
101	3100	33.9	14.606	315	4601	18000	6	4.00	30.00
90.0	3100	29.9	16.517	315	5203	18200	6	4.00	30.00
89.0	3100	29.7	16.644	45	749	18600	6	4.00	30.00
78.0	3100	26.3	18.822	45	847	19000	6	4.00	30.00
74.0	3100	24.7	20.041	315	6313	19400	6	2.20	22.00
65.0	3100	21.9	22.663	315	7139	19800	6	2.20	22.00
60.0	3100	20.1	24.570	135	3317	19800	6	4.00	22.00
53.0	3100	17.8	27.785	135	3751	19800	6	4.00	22.00
44.0	3100	14.9	33.289	45	1498	19800	6	2.20	7.50
39.0	3100	13.1	37.644	45	1694	19800	6	2.20	7.50
36.0	3100	12.2	40.422	45	1819	19800	6	2.20	7.50
32.0	3100	10.8	45.711	45	2057	19800	6	2.20	7.50
28.0	2335	7.01	52.311	45	2354	19800	6	1.10	4.00
25.0	2641	7.01	59.156	45	2662	19800	6	1.10	4.00
23.0	2250	5.56	63.487	150	9523	19800	6	1.10	4.00
20.0	2408	5.25	71.793	150	10769	19800	6	1.10	4.00

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S3100, 3-stage gearbox

Output speed n_2	Max. output torque $M_{2,\text{max}}$	Max. drive power $P_{1,\text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N,\text{min}}$
								$\pm 20\%$	$P_{N,\text{max}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
31.0	2958	10.2	47.159	270	12733	19800	7	2.20	7.50
28.0	3054	9.27	53.330	270	14399	19800	7	2.20	7.50
23.0	3100	7.74	64.676	225	14552	19800	7	2.20	7.50
20.0	3100	6.86	73.138	225	16456	19800	7	2.20	7.50
18.0	3100	6.05	82.769	945	78217	19800	7	1.10	7.50
16.0	3100	5.47	90.546	1125	101864	19800	7	1.10	5.50
16.0	3100	5.30	93.599	945	88451	19800	7	1.10	5.50
14.0	3100	4.86	102.393	1125	115192	19800	6	1.10	5.50
13.0	3100	4.28	115.492	63	7276	19800	7	0.55	4.00
11.0	3100	3.77	130.603	63	8228	19800	6	0.55	4.00
10.0	3100	3.50	141.478	90	12733	19800	6	1.10	4.00
9.00	3100	3.09	159.989	90	14399	19800	6	1.10	3.00
8.00	3100	2.68	184.146	405	74579	19800	6	0.55	3.00
7.00	3100	2.38	208.240	405	84337	19800	6	0.55	2.20
6.00	3100	2.14	229.059	135	30923	19800	6	0.55	2.20
6.00	3100	1.90	259.030	135	34969	19800	6	0.55	2.20
5.00	3100	1.66	296.430	135	40018	19800	6	0.25	1.50
4.00	3100	1.46	335.215	135	45254	19800	6	0.25	1.50
4.00	3100	1.36	359.758	450	161891	19800	6	0.25	1.10
4.00	3100	1.19	406.829	450	183073	19800	6	0.25	1.10

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S4500, 2-stage gearboxes

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
301	2113	68.6	4.914	500	2457	16500	9	15.00	30.00
229	2451	60.6	6.450	20	129	18500	9	11.00	30.00
210	2535	57.3	7.056	125	882	19000	9	7.50	30.00
165	3845	68.6	8.944	125	1118	14000	6	15.00	30.00
148	4163	66.5	9.984	125	1248	16000	5	15.00	30.00
126	4451	60.5	11.740	315	3698	17000	6	11.00	30.00
115	4500	55.9	12.843	375	4816	18000	5	7.50	30.00
113	4500	54.8	13.105	105	1376	18500	5	11.00	30.00
103	4500	50.1	14.336	125	1792	19000	5	7.50	30.00
90.0	4500	43.8	16.381	21	344	21000	5	4.00	30.00
81.0	4500	39.2	18.286	7	128	22000	5	4.00	30.00
74.0	4500	35.8	20.067	15	301	23500	5	5.50	22.00
66.0	4500	32.1	22.400	5	112	25000	4	5.50	22.00
56.0	4500	27.2	26.437	135	3569	27000	5	4.00	22.00
50.0	4500	24.4	29.511	45	1328	29000	4	4.00	22.00
46.0	4500	22.1	32.489	45	1462	30000	5	4.00	22.00
41.0	4500	19.8	36.267	15	544	30000	4	4.00	22.00
35.0	4101	15.5	42.044	45	1892	30000	5	2.20	7.50
32.0	4394	14.9	46.933	15	704	30000	4	2.20	7.50
29.0	3653	11.4	51.027	75	3827	30000	5	2.20	7.50
26.0	3946	11.0	56.960	25	1424	30000	4	2.20	7.50
22.0	2414	5.86	64.500	2	129	30000	5	2.20	4.00
20.0	2586	5.64	72.000	1	72	30000	4	2.20	4.00

g500-S shaft-mounted helical geared motors



Project planning

Technical data at a glance

g500-S4500, 3-stage gearboxes

Output speed n_2	Max. output torque $M_{2, \text{max}}$	Max. drive power $P_{1, \text{max}}$	Ratio i	Number of teeth		Max. radial force $F_{\text{rad,max}}$	Backlash	Rated power	
				z_g	z_t			Standard	$P_{N, \text{min}}$
								$\pm 20\%$	$P_{N, \text{max}}$
[r/min]	[Nm]	[kW]				[N]	[arcmin]	[kW]	[kW]
39.0	4150	17.7	38.090	1305	49708	30000	6	4.00	22.00
35.0	4291	16.4	42.520	435	18496	30000	5	4.00	18.50
28.0	4500	13.7	52.794	180	9503	30000	5	4.00	15.00
25.0	4500	12.3	58.933	15	884	30000	5	4.00	15.00
23.0	4500	11.2	64.978	45	2924	30000	5	2.20	11.00
20.0	4500	10.1	72.533	15	1088	30000	5	2.20	11.00
20.0	4500	10.0	72.775	1125	81872	30000	5	2.20	11.00
18.0	4500	8.97	81.237	375	30464	30000	5	2.20	11.00
16.0	4500	7.84	92.825	63	5848	30000	5	1.10	7.50
14.0	4500	7.05	103.619	21	2176	30000	5	1.10	7.50
13.0	4500	6.41	113.711	45	5117	30000	5	2.20	7.50
12.0	4500	5.67	126.933	15	1904	30000	5	2.20	5.50
10.0	4500	4.88	148.005	405	59942	30000	5	1.10	5.50
9.00	4500	4.34	165.215	135	22304	30000	5	1.10	4.00
8.00	4500	3.94	181.396	270	48977	30000	5	1.10	4.00
7.00	4500	3.55	202.489	45	9112	30000	5	1.10	4.00
6.00	4500	3.01	238.252	135	32164	30000	5	0.55	3.00
5.00	4500	2.66	265.956	45	11968	30000	5	0.55	3.00
5.00	4500	2.47	289.151	225	65059	30000	5	0.55	2.20
4.00	4500	2.22	322.773	75	24208	30000	5	0.55	2.20
4.00	3962	1.74	365.500	2	731	30000	5	0.55	1.10
4.00	4410	1.69	408.000	1	408	30000	5	0.55	1.10

g500-S shaft-mounted helical geared motors



Project planning

Surface and corrosion protection

For optimum protection of geared motors against ambient conditions, the surface and corrosion protection system (OKS) offers tailor-made solutions.

Various surface coatings combined with other protective measures ensure that the geared motors operate reliably even at high air humidity, in outdoor installations or in the presence of atmospheric impurities. Any colour from the RAL Classic collection can be chosen for the top coat. The geared motors are also available unpainted (no surface and corrosion protection).

Surface and corrosion protection	Applications	Product
		g500-H45 ... H450 g500-S130 ... S660 g500-B45 ... B450
Without OKS(uncoated) ¹⁾	<ul style="list-style-type: none">Interior installation, no special corrosion protection requiredPaint provided by the customer	Standard
OKS-G (primed)	<ul style="list-style-type: none">Dependent on subsequent top coat applied	Optional
OKS-S (small)	<ul style="list-style-type: none">Standard applicationsInternal installation in heated buildingsAir humidity up to 90%	Standard
OKS-M (medium)	<ul style="list-style-type: none">Internal installation in non-heated buildingsCovered, protected external installationAir humidity up to 95%	Optional
OKS-L (large)	<ul style="list-style-type: none">External installationAir humidity above 95 %Chemical industry plantsFood industry	Optional
OKS-XL (extra Large) ²⁾	<ul style="list-style-type: none">External installationAir humidity above 95 %Chemical industry plantsFood industryCoastal areas with moderate salinity	

¹⁾ Aluminium parts are uncoated, fan covers are zinc-coated or primed in grey, cast iron parts primed in grey.

Light colour deviations of the components are possible.

²⁾ On request

g500-S shaft-mounted helical geared motors



Project planning

Surface and corrosion protection

Structure of surface coating

Surface and corrosion protection	Corrosivity category	Surface coating	Colour	Coating thickness
	DIN EN ISO 12944-2	Structure		
Without OKS(uncoated)		<ul style="list-style-type: none">• Dipping primer of the grey iron parts		30 ... 50 µm
OKS-G (primed)		<ul style="list-style-type: none">• Dipping primer of the grey iron parts• 2K PUR priming coat		60 ... 90 µm
OKS-S (small)	Comparable to C1	<ul style="list-style-type: none">• Dipping primer of the grey iron parts• 2K-PUR top coat		80 ... 120 µm
OKS-M (medium)	Comparable to C2	<ul style="list-style-type: none">• Dipping primer of the grey iron parts		110 ... 160 µm
OKS-L (large)	Comparable to C3	<ul style="list-style-type: none">• 2K PUR priming coat• 2K-PUR top coat	<ul style="list-style-type: none">• Standard: RAL 7012• Optional: RAL Classic	140 ... 200 µm
OKS-XL (extra Large) ¹⁾	Comparable to C4	<ul style="list-style-type: none">• Dipping primer of the grey iron parts• 2K-EP priming coat (two times)• 2K-PUR top coat		160 ... 240 µm

¹⁾ On request

g500-S shaft-mounted helical geared motors



Project planning

Lubricants

Lenze gearboxes and geared motors are ready for operation on delivery and are filled with lubricants specific to both the drive and the design. The mounting position and design specified in the order are key factors in choosing the volume of lubricant.

The amount and type of lubricant contained in the gearbox are given on the nameplate.

The following gearboxes are lubricated for life:

- Helical gearbox g500-H45 ... 140
- Shaft-mounted helical gearbox g500-S130
- Bevel gearbox g500-B45 ... 240

Lubricant table

The following lubricants are recommended:

Mode	CLP 220	CLP 460	CLP HC 220
Ambient temperature [°C]	0 ... +40		-25 ... +50
Specification	Mineral oil with EP additives		Synthetic oil (polyalphaolefins basis)
Changing interval	16000 operating hours After 3 years at the latest Oil temperature 70 °C		25000 operating hours After 4 years at the latest Oil temperature 70 °C
Fuchs	Renolin CLP 220 CLP Plus 220	Renolin CLP 460 CLP Plus 460	Renolin Unisyn CLP 220 XT220
Klüüber	Klüberoil GEM 1-220 N	Klüberoil GEM 1-460 N	Klübersynth GEM 4-220 N
Shell	Shell Omala S2 G 220 S2 GX 220	Shell Omala S2 G 460 S2 GX 460	Shell Omala S4 GX HD 220

Mode	CLP HC 320	CLP HC 220 USDA H1	CLP PG 460 USDA H1
Ambient temperature [°C]	-25 ... +50		-20 ... +40
Specification	Synthetic oil (polyalphaolefins basis)		Synthetic oil (polyglycol basis)
Changing interval	25000 operating hours After 4 years at the latest Oil temperature 70 °C		16000 operating hours After 3 years at the latest Oil temperature 70 °C
Fuchs	Renolin Unisyn CLP 320 XT 320	Cassida Fluid GL 220	Cassida Fluid WG 460
Klüüber	Klübersynth GEM 4-320 N	Klüberoil 4 UH1-220 N	Klüberoil UH1 6-460
Shell	Shell Omala S4 GX HD 320		

- Please contact your Lenze sales office if you are operating at ambient temperatures in areas up to -20 °C bzw. > or up to +40°C.

Shaft sealing rings

6.4

By default, the gearboxes come with NBR shaft sealing rings at the output end. At high speed and unfavourable ambient conditions such as high temperature, reduced circulation of air etc., Lenze recommends the use of FKM (Viton) shaft sealing rings.

Please consider this in your order.

g500-S shaft-mounted helical geared motors

Project planning



Ventilation

Non-ventilated gearboxes

No ventilation is required for gearboxes g500-S130 ... S220

Ventilated gearboxes

From g500-S400 onwards, the gearboxes are supplied with a breather element as standard.

Gearbox in combined mounting position

For reducing the number of versions, the gearboxes can also be ordered in a combined mounting position:

- g500-S130 ... S660 in mounting position AEF

In these gearboxes, the lubricant amount has been optimised for the use in different mounting positions. -H45 in mounting position AB-CDEFg500-H100 ... H450 in mounting position AEF In these gearboxes, the lubricant amount has been optimised for the use in different mounting positions. If required, the breather elements are loosely enclosed and have to be mounted before commissioning depending on the mounting position.

A gearbox can be used for several mounting positions.

g500-S shaft-mounted helical geared motors



Project planning

Ventilation

Position of ventilation, sealing elements and oil level check

g500-S130 ... S660

Mounting position A	Mounting position B	Mounting position C								
<table border="1"> <tr> <td></td> <td>Filling</td> </tr> <tr> <td></td> <td>Breathing</td> </tr> </table>		Filling		Breathing	<table border="1"> <tr> <td></td> <td>Drain</td> </tr> <tr> <td></td> <td>Control</td> </tr> </table>		Drain		Control	
	Filling									
	Breathing									
	Drain									
	Control									

g500-S shaft-mounted helical geared motors



Project planning

Ventilation

Position of ventilation, sealing elements and oil level check

g500-S130 ... S660

Mounting position D	Mounting position E	Mounting position F	
	Filling		Drain
	Breathing		Control

g500-S shaft-mounted helical geared motors

Project planning



Ventilation

Position of ventilation, sealing elements and oil level check

g500-S950 ... S4500

Mounting position A	Mounting position B	Mounting position C

6.4

g500-S shaft-mounted helical geared motors



Project planning

Ventilation

Position of ventilation, sealing elements and oil level check

g500-S950 ... S4500

Mounting position D	Mounting position E	Mounting position F

6.4

g500-S shaft-mounted helical geared motors

Project planning



6.4

g500-S shaft-mounted helical geared motors



Technical data

Standards and operating conditions

Geared motor data

Product			
Motor		MD□MA□□	m240
Degree of protection			
EN 60529		IP55 ¹⁾ IP65 ^{1, 3)} IP66 ^{1, 3)}	
Energy efficiency class			
IEC 60034-30	IE1	IE3	
IEC 60034-2-1	Methodology for measuring efficiency		
Conformity			
CE	Low-Voltage Directive 2006/95/EC 2014/35/EU		
EAC	TP TC 004/2011 (TR CU 004/2011)		
Approval			
CCC	GB Standard 12350-2009		
CSA	CSA 22.2 No. 100		
cURus	UL 1004-1 UL 1004-8 File-No. E210321		
Temperature class			
IEC/EN 60034-1; utilisation			B
IEC/EN 60034-1; insulation system (enamel-insulated wire)			F
Min. ambient operating temperature	T _{opr,min}	[°C]	-20
Max. ambient temperature for operation	T _{opr,max}	[°C]	40
With power reduction	T _{opr,max}	[°C]	60 ²⁾
Site altitude			
Current derating at over 1000 m		[%/1000 m]	5.00
Amsl	H _{max}	[m]	4000

¹⁾ Types with deviating degrees of protection:
IP55 with brake (IP54 with manual release lever).

²⁾ In case of cURus max. 40 °C are permissible.

³⁾ m240 on request.

- In the European Union, the ErP Directive stipulates minimum efficiency levels for three-phase AC motors. Geared three-phase AC motors that do not conform with this Directive do not meet CE requirements and must not be marketed in the European Economic Area. For further information about the ErP Directive, the efficiency regulations in other countries and the Lenze products concerned, please refer to the brochure "International efficiency directives for three-phase AC motors".

g500-S shaft-mounted helical geared motors



Technical data

Permissible radial and axial forces at output

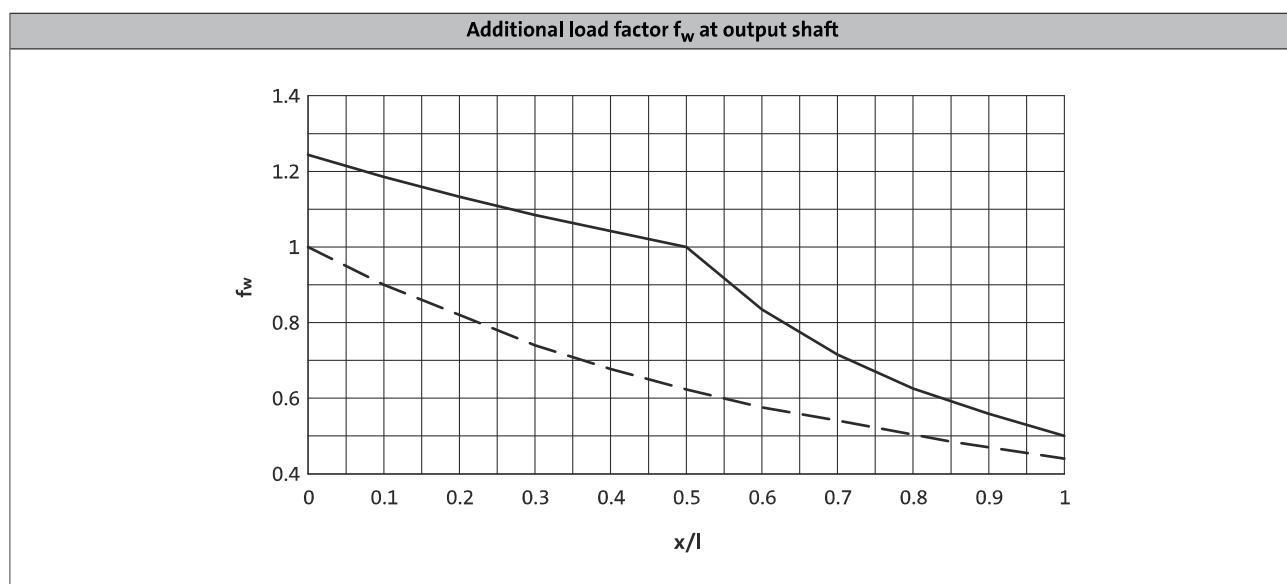
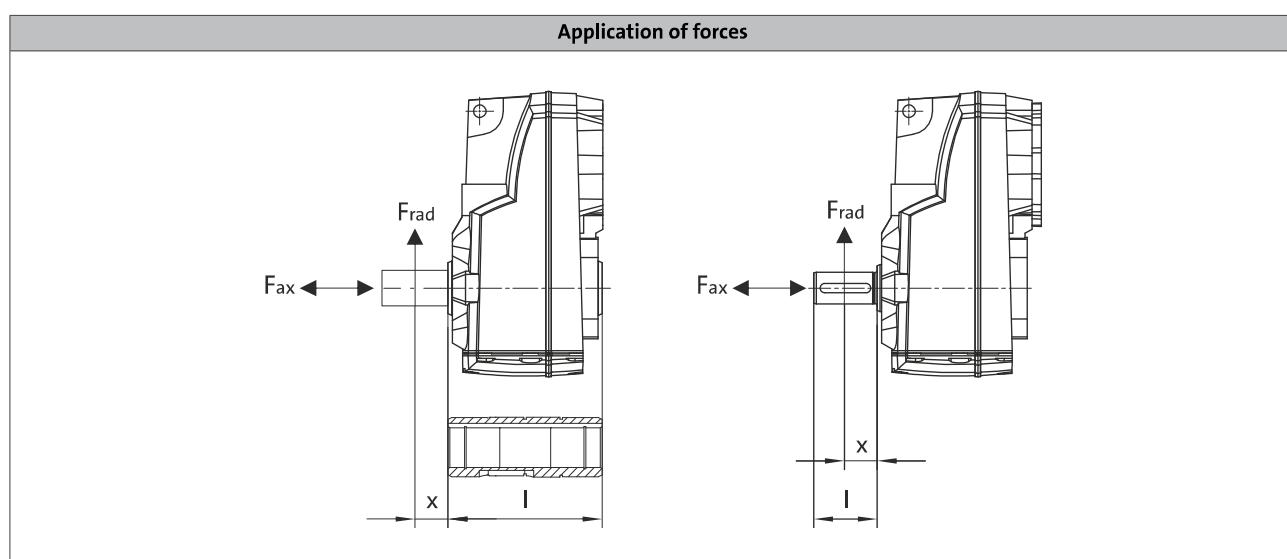
Permissible radial force

$$F_{\text{rad,perm}} = f_w \times F_{\text{rad,max}}$$

► If F_{rad} and $F_{\text{ax}} \neq 0$, please contact Lenze.

Permissible axial force

If there is no radial force, the maximum permissible axial force is 50 % of the table value $F_{\text{rad,max}}$



— Solid shaft
- - Hollow shaft

g500-S shaft-mounted helical geared motors



Technical data

Permissible radial and axial forces at output

The values given in the table refer to the center shaft end force application point and are minimum values calculated according to the most unfavourable conditions (force application angle, mounting position, direction of rotation). The values were calculated for the motor/gearbox combination with a load capacity of $c = 1.3$ and an input speed of 1400 rpm.

- A hollow shaft with shrink disc requires a check by Lenze.

In case of different operating conditions, considerably higher forces can be transmitted. Please contact Lenze.

Product	n_2 [r/min]						
	250	160	100	63	40	25	≤ 16
Max. radial force, Hollow shaft							
	$F_{rad,max}$						
	[N]						
g500-S130	1500	1650	2200	2750	3450	4200	4500
g500-S220	3200	3800	4600	5500	6300	7000	7000
g500-S400	3400	4100	5000	6000	7100	8000	8000
g500-S660	4000	5000	6600	8500	10800	12000	12000
g500-S950	5000	6000	8000	10300	11500	12500	13000
g500-S2100	6500	7500	10000	12000	15700	15700	16000
g500-S3100	8000	9000	12500	15000	17000	19800	19800
g500-S4500	17500	19000	20000	23000	30000	30000	30000
Max. radial force, Solid shaft without flange							
	$F_{rad,max}$						
	[N]						
g500-S130	1500	1650	2200	2750	3450	4200	4500
g500-S220	2700	3200	3600	3600	3600	3600	3600
g500-S400	2700	3200	4000	4800	5800	6200	6200
g500-S660	3600	3900	5100	6500	8400	9000	9000
g500-S950	9500	10300	10300	10300	10300	10300	10300
g500-S2100	11500	13600	15700	15700	15700	15700	15700
g500-S3100	14500	16500	18000	19800	19800	19800	19800
g500-S4500	18500	20000	22000	25000	30000	30000	30000
Max. radial force, Solid shaft with flange							
	$F_{rad,max}$						
	[N]						
g500-S130	1500	1650	2200	2750	3450	4200	4500
g500-S220	3700	4400	4600	4600	4600	4600	4600
g500-S400	5100	5900	6800	7000	7000	7000	7000
g500-S660	7000	7800	9600	10000	10000	10000	10000
g500-S950	7500	8500	10300	10300	10300	10300	10300
g500-S2100	11500	13600	15700	15700	15700	15700	15700
g500-S3100	19800	19800	19800	19800	19800	19800	19800
g500-S4500	27000	28000	30000	30000	30000	30000	30000

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, notes

The selection tables show the available combinations of gearbox type, number of stages, ratio and motor. They are used only to provide basic orientation.

The following legend indicates the structure of the selection tables.

Rated power Prated of the drive motor depending on the rated frequency



50 Hz: $P_N = 0.75 \text{ kW}$

2-stage gearboxes ← Number of the gear stage of the gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
432	16	4.8	3.339	-S400	40-P80/M4	
394	18	3.6	3.661	-S130	40-P80/M4	

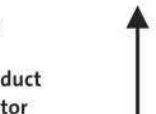


Mains operation
Output speed n_2
Output torque M_2



Load capacity c of the gearbox
 c is the ratio between the permissible rated torque of the gearbox and the rated torque of the three-phase AC motor (converted to the driven shaft).
 c must be always higher than the service factor k determined for the application k .

$$c = \frac{M_{2,zul}}{M_{1N} \cdot i \cdot \eta_{Getr}} > k$$



Product Gearbox
Product Motor
Page number for dimensions

Motor voltages

At 50 Hz, the power and torque values indicated in the selection tables relate to the following motor voltages:

- Up to 3 kW: Δ 230 V / Y 400 V
- FROM 4 kW: Δ 400 V

g500-S shaft-mounted helical geared motors

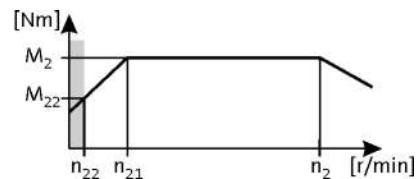


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.12 \text{ kW}$
87 Hz: $P_N = 0.21 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation												i	Product	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)							
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c					
45	24	5.3	4.6	19	19	24	45	24	5.3	81	24	5.4	31.387	-S130	063-12		
40	28	4.7	4.1	21	17	27	40	28	4.7	71	27	4.8	35.493	-S130	063-12		
35	32	4.1	3.6	24	15	31	35	32	4.1	63	31	4.2	40.422	-S130	063-12		
34	33	4.6	3.4	26	14	33	34	33	4.6	60	33	4.7	42.533	-S220	063-12		
31	36	3.7	3.2	28	13	35	31	36	3.7	56	35	3.7	45.711	-S130	063-12		
30	37	4.6	3.1	28	13	36	30	37	4.6	54	36	4.7	46.933	-S400	063-12		
30	38	4.6	3.0	29	13	37	30	38	4.6	53	37	4.7	48.190	-S220	063-12		
28	40	3.3	2.8	31	12	39	28	40	3.3	50	39	3.3	51.230	-S130	063-12		
28	40	4.0	2.8	31	12	40	28	40	4.0	49	40	4.1	51.620	-S220	063-12		
27	41	4.6	2.7	32	11	41	27	41	4.6	48	41	4.7	53.026	-S400	063-12		
25	44	4.0	2.5	34	11	44	25	44	4.0	45	44	4.1	56.960	-S400	063-12		
25	45	2.9	2.5	35	10	44	25	45	2.9	44	44	2.9	57.933	-S130	063-12		
24	46	4.0	2.5	35	10	45	24	46	4.0	43	45	4.1	58.486	-S220	063-12		
22	50	2.6	2.3	39	9.3	49	22	50	2.6	40	49	2.6	64.200	-S130	063-12		
22	50	4.0	2.3	39	9.3	49	22	50	4.0	39	49	4.1	64.354	-S400	063-12		
22	51	3.1	2.2	40	9.1	51	22	51	3.1	38	51	3.2	65.975	-S220	063-12		
20	57	2.3	2.0	44	8.3	56	20	57	2.3	35	56	2.3	72.600	-S130	063-12		
19	58	3.1	1.9	45	8.0	57	19	58	3.1	34	57	3.2	74.750	-S220	063-12		
17	66	1.6	1.7	51	7.1	65	17	66	1.6	30	65	1.6	84.581	-S130	063-12		
15	75	1.5	1.5	58	6.3	73	15	75	1.5	27	73	1.6	95.648	-S130	063-12		

3-stage gearboxes

Mains operation 400 V, 50 Hz			Inverter operation												i	Product	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)							
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c					
27	40	5.4	2.8	31	11	40	27	40	5.4	48	40	5.3	52.587	-S220	063-12		
24	46	4.8	2.4	35	10	45	24	46	4.8	43	45	4.7	59.581	-S220	063-12		
21	52	4.3	2.2	40	8.9	51	21	52	4.3	38	51	4.1	67.298	-S220	063-12		
19	59	3.8	1.9	45	7.9	58	19	59	3.8	33	58	3.8	76.249	-S220	063-12		
17	66	3.3	1.7	51	7.0	65	17	66	3.3	29	65	3.4	86.079	-S220	063-12		
15	73	5.5	1.5	56	6.3	72	15	73	5.5	27	72	5.6	94.984	-S400	063-12		
15	75	2.9	1.5	58	6.2	74	15	75	2.9	26	74	3.0	97.528	-S220	063-12		
13	82	4.8	1.4	64	5.6	81	13	82	4.8	24	81	4.9	107.314	-S400	063-12		
13	86	2.6	1.3	66	5.4	84	13	86	2.6	23	84	2.6	111.747	-S220	063-12		
12	95	4.2	1.2	73	4.9	93	12	95	4.2	21	93	4.3	123.307	-S400	063-12		
11	97	2.3	1.1	75	4.7	96	11	97	2.3	20	96	2.3	126.610	-S220	063-12		
10	105	5.5	1.1	81	4.4	104	10	105	5.5	19	104	5.6	137.133	-S660	063-12		
10	107	3.7	1.0	82	4.3	105	10	107	3.7	18	105	3.8	139.313	-S400	063-12		
10	110	2.0	1.0	85	4.2	108	10	110	2.0	18	108	2.0	143.205	-S220	063-12		
9.1	120	5.5	0.9	93	3.8	118	9.1	120	5.5	16	118	5.6	156.249	-S660	063-12		

g500-S shaft-mounted helical geared motors

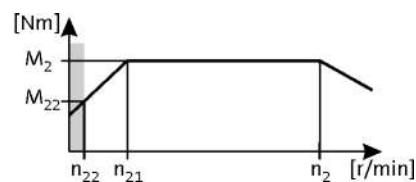


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.12 \text{ kW}$
87 Hz: $P_N = 0.21 \text{ kW}$

3-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product			
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			n_2 [r/min]	M_2 [Nm]	c	
9.0	121	3.3	0.9	94	3.8	119	9.0	121	3.3	16	119	3.3	158.019	-S400	063-12	
8.8	125	1.8	0.9	96	3.7	123	8.8	125	1.8	16	123	1.8	162.252	-S220	063-12	
8.1	136	4.6	0.8	105	3.4	134	8.1	136	4.6	14	134	4.7	176.611	-S660	063-12	
8.0	137	2.9	0.8	106	3.4	135	8.0	137	2.9	14	135	3.0	178.531	-S400	063-12	
7.7	142	1.6	0.8	110	3.2	140	7.7	142	1.6	14	140	1.6	185.248	-S220	063-12	
7.1	155	4.3	0.7	119	3.0	152	7.1	155	4.3	13	152	4.3	201.230	-S660	063-12	
7.0	157	2.6	0.7	121	2.9	155	7.0	157	2.6	12	155	2.6	204.412	-S400	063-12	
6.8	161	1.4	0.7	124	2.9	159	6.8	161	1.4	12	159	1.4	209.887	-S220	063-12	
6.4	172	3.8	0.6	133	2.7	169	6.4	172	3.8	11	169	3.9	223.833	-S660	063-12	
6.2	176	4.6	0.6	136	2.6	173	6.2	176	4.6	11	173	4.7	229.289	-S950	063-12	
6.2	177	2.2	0.6	137	2.6	175	6.2	177	2.2	11	175	2.3	230.946	-S400	063-12	
5.9	185	1.2	0.6	143	2.5	182	5.9	185	1.2	11	182	1.2	241.022	-S220	063-12	
5.6	196	3.4	0.6	151	2.4	193	5.6	196	3.4	9.9	193	3.4	255.034	-S660	063-12	
5.6	197	4.6	0.6	152	2.3	194	5.6	197	4.6	9.9	194	4.7	256.585	-S950	063-12	
5.4	204	1.9	0.5	157	2.3	201	5.4	204	1.9	9.5	201	1.9	265.956	-S400	063-12	
5.2	210	1.1	0.5	162	2.2	206	5.2	210	1.1	9.3	206	1.1	273.079	-S220	063-12	
5.1	214	4.0	0.5	165	2.2	210	5.1	214	4.0	9.1	210	4.1	278.273	-S950	063-12	
5.1	216	2.8	0.5	166	2.1	212	5.1	216	2.8	9.0	212	2.8	280.500	-S660	063-12	
4.7	231	1.7	0.5	178	2.0	227	4.7	231	1.7	8.4	227	1.8	300.479	-S400	063-12	
4.6	239	4.0	0.5	184	1.9	235	4.6	239	4.0	8.1	235	4.0	311.401	-S950	063-12	
4.6	240	0.9	0.5	185	1.9	236	4.6	240	0.9	8.1	236	0.9	312.233	-S220	063-12	
4.5	246	2.7	0.5	189	1.9	242	4.5	246	2.7	7.9	242	2.7	319.600	-S660	063-12	
4.1	265	1.3	0.4	204	1.7	260	4.1	265	1.3	7.4	260	1.3	344.533	-S400	063-12	
4.0	272	0.8	0.4	209	1.7	267	4.0	272	0.8	7.2	267	0.8	353.762	-S220	063-12	
4.0	273	3.1	0.4	211	1.7	269	4.0	273	3.1	7.1	269	3.2	355.658	-S950	063-12	
3.9	284	1.6	0.4	219	1.6	279	3.9	284	1.6	6.9	279	1.6	369.548	-S660	063-12	
3.7	299	1.3	0.4	230	1.5	294	3.7	299	1.3	6.5	294	1.3	389.256	-S400	063-12	
3.6	306	3.1	0.4	236	1.5	301	3.6	306	3.1	6.4	301	3.2	397.999	-S950	063-12	
3.4	324	1.6	0.3	249	1.4	318	3.4	324	1.6	6.0	318	1.6	421.060	-S660	063-12	

g500-S shaft-mounted helical geared motors

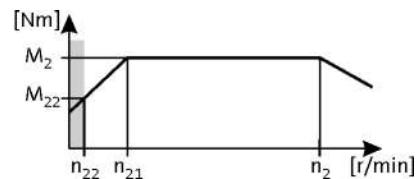


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.18 \text{ kW}$
87 Hz: $P_N = 0.33 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation										i	Product	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)					
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c			
194	9.0	4.5	21	6.6	85	9.0	194	9.0	4.5	352	9.0	3.7	7.029	-S130	063-32
85	20	4.5	9.1	15	38	20	85	20	4.5	155	20	3.7	15.979	-S130	063-32
76	22	4.5	8.0	17	33	22	76	22	4.5	137	22	4.2	18.069	-S130	063-32
67	25	4.1	7.1	19	29	25	67	25	4.1	121	25	3.9	20.381	-S130	063-32
59	28	4.1	6.3	22	26	28	59	28	4.1	107	28	3.9	23.048	-S130	063-32
44	38	3.4	4.6	30	19	38	44	38	3.4	79	39	3.4	31.387	-S130	063-32
39	43	3.0	4.1	33	17	43	39	43	3.0	70	44	3.0	35.493	-S130	063-32
34	49	2.6	3.6	38	15	49	34	49	2.6	61	50	2.6	40.422	-S130	063-32
32	52	2.9	3.4	40	14	52	32	52	2.9	58	53	2.9	42.533	-S220	063-32
30	56	2.3	3.2	43	13	56	30	56	2.3	54	56	2.3	45.711	-S130	063-32
29	57	2.9	3.1	44	13	57	29	57	2.9	53	58	2.9	46.933	-S400	063-32
28	59	2.9	3.0	45	13	59	28	59	2.9	51	60	2.9	48.190	-S220	063-32
27	63	2.1	2.8	48	12	63	27	63	2.1	48	63	2.1	51.230	-S130	063-32
26	63	2.6	2.8	49	12	63	26	63	2.6	48	64	2.5	51.620	-S220	063-32
26	65	2.9	2.7	50	11	65	26	65	2.9	47	66	2.9	53.026	-S400	063-32
24	70	2.6	2.5	54	11	70	24	70	2.6	44	70	2.5	56.960	-S400	063-32
24	71	1.8	2.5	55	10	71	24	71	1.8	43	72	1.8	57.933	-S130	063-32
23	71	2.6	2.5	55	10	71	23	71	2.6	42	72	2.5	58.486	-S220	063-32
21	78	1.7	2.3	60	9.3	78	21	78	1.7	39	79	1.6	64.200	-S130	063-32
21	79	2.6	2.3	61	9.3	79	21	79	2.6	39	79	2.5	64.354	-S400	063-32
21	81	2.0	2.2	62	9.1	81	21	81	2.0	38	82	2.0	65.975	-S220	063-32
19	89	1.5	2.0	68	8.3	89	19	89	1.5	34	90	1.5	72.600	-S130	063-32
18	91	2.0	1.9	70	8.0	91	18	91	2.0	33	92	2.0	74.750	-S220	063-32
16	103	1.0	1.7	80	7.1	103	16	103	1.0	29	104	1.0	84.581	-S130	063-32
14	117	1.0	1.5	90	6.3	117	14	117	1.0	26	118	1.0	95.648	-S130	063-32

3-stage gearboxes

Mains operation 400 V, 50 Hz			Inverter operation										i	Product	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)					
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c			
34	48	4.6	3.6	37	15	48	34	48	4.6	62	49	3.8	40.012	-S220	063-32
30	55	4.0	3.2	42	13	55	30	55	4.0	55	55	3.4	45.333	-S220	063-32
26	63	3.5	2.8	49	11	63	26	63	3.5	47	64	3.3	52.587	-S220	063-32
24	70	4.5	2.5	54	10	70	24	70	4.5	43	71	4.2	58.027	-S400	063-32
23	72	3.1	2.4	55	10	72	23	72	3.1	42	72	2.9	59.581	-S220	063-32
21	79	4.5	2.2	61	9.2	79	21	79	4.5	38	80	4.2	65.559	-S400	063-32
20	81	2.7	2.2	62	8.9	81	20	81	2.7	37	82	2.6	67.298	-S220	063-32
20	84	4.5	2.1	65	8.6	84	20	84	4.5	36	85	4.2	69.813	-S660	063-32
18	89	4.1	2.0	69	8.1	89	18	89	4.1	33	90	4.1	74.260	-S400	063-32
18	92	2.4	1.9	71	7.9	92	18	92	2.4	33	93	2.4	76.249	-S220	063-32

g500-S shaft-mounted helical geared motors

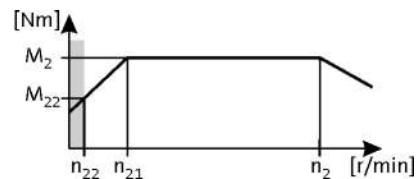


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.18 \text{ kW}$
87 Hz: $P_N = 0.33 \text{ kW}$

3-stage gearboxes



Mains operation			Inverter operation									i	Product		
400 V, 50 Hz			5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			g500	MD□MA□□	
n_2 [r/min]	M_2 [Nm]	c	n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c			
17	96	4.5	1.8	74	7.5	96	17	96	4.5	31	97	4.4	79.545	-S660	063-32
16	101	4.0	1.7	78	7.2	101	16	101	4.0	30	102	3.9	83.900	-S400	063-32
16	104	2.1	1.7	80	7.0	104	16	104	2.1	29	105	2.1	86.079	-S220	063-32
15	107	4.1	1.6	83	6.7	107	15	107	4.1	28	108	4.1	89.048	-S660	063-32
14	114	3.5	1.5	88	6.3	114	14	114	3.5	26	116	3.5	94.984	-S400	063-32
14	117	1.9	1.5	90	6.2	117	14	117	1.9	25	119	1.9	97.528	-S220	063-32
14	122	4.1	1.4	94	5.9	122	14	122	4.1	24	123	4.1	101.460	-S660	063-32
13	129	3.1	1.4	99	5.6	129	13	129	3.1	23	131	3.1	107.314	-S400	063-32
12	134	1.6	1.3	104	5.4	134	12	134	1.6	22	136	1.6	111.747	-S220	063-32
11	148	2.7	1.2	114	4.9	148	11	148	2.7	20	150	2.7	123.307	-S400	063-32
11	152	1.4	1.1	117	4.7	152	11	152	1.4	20	154	1.4	126.610	-S220	063-32
10	165	3.5	1.1	127	4.4	165	10	165	3.5	18	167	3.5	137.133	-S660	063-32
9.8	168	2.4	1.0	129	4.3	168	9.8	168	2.4	18	170	2.4	139.313	-S400	063-32
9.5	172	1.3	1.0	133	4.2	172	9.5	172	1.3	17	174	1.3	143.205	-S220	063-32
8.7	188	3.5	0.9	145	3.8	188	8.7	188	3.5	16	190	3.5	156.249	-S660	063-32
8.6	190	2.1	0.9	146	3.8	190	8.6	190	2.1	16	192	2.1	158.019	-S400	063-32
8.4	195	1.1	0.9	150	3.7	195	8.4	195	1.1	15	197	1.1	162.252	-S220	063-32
7.7	213	2.9	0.8	164	3.4	213	7.7	213	2.9	14	215	2.9	176.611	-S660	063-32
7.6	215	1.9	0.8	165	3.4	215	7.6	215	1.9	14	217	1.8	178.531	-S400	063-32
7.4	223	1.0	0.8	172	3.2	223	7.4	223	1.0	13	225	1.0	185.248	-S220	063-32
6.8	242	2.7	0.7	187	3.0	242	6.8	242	2.7	12	245	2.7	201.230	-S660	063-32
6.7	246	1.6	0.7	189	2.9	246	6.7	246	1.6	12	249	1.6	204.412	-S400	063-32
6.5	253	0.9	0.7	195	2.9	253	6.5	253	0.9	12	255	0.9	209.887	-S220	063-32
6.1	269	2.5	0.6	207	2.7	269	6.1	269	2.5	11	272	2.4	223.833	-S660	063-32
6.0	276	2.9	0.6	213	2.6	276	6.0	276	2.9	11	279	2.9	229.289	-S950	063-32
5.9	278	1.4	0.6	214	2.6	278	5.9	278	1.4	11	281	1.4	230.946	-S400	063-32
5.4	307	2.2	0.6	236	2.4	307	5.4	307	2.2	9.7	310	2.1	255.034	-S660	063-32
5.3	309	2.9	0.6	238	2.3	309	5.3	309	2.9	9.6	312	2.9	256.585	-S950	063-32
5.1	320	1.2	0.5	246	2.3	320	5.1	320	1.2	9.3	324	1.2	265.956	-S400	063-32
4.9	335	2.6	0.5	258	2.2	335	4.9	335	2.6	8.9	339	2.5	278.273	-S950	063-32
4.9	338	1.8	0.5	260	2.1	338	4.9	338	1.8	8.8	341	1.8	280.500	-S660	063-32
4.5	362	1.1	0.5	278	2.0	362	4.5	362	1.1	8.2	366	1.1	300.479	-S400	063-32
4.4	375	2.5	0.5	289	1.9	375	4.4	375	2.5	7.9	379	2.5	311.401	-S950	063-32
4.3	385	1.7	0.5	296	1.9	385	4.3	385	1.7	7.7	389	1.7	319.600	-S660	063-32
3.8	428	2.0	0.4	330	1.7	428	3.8	428	2.0	7.0	433	2.0	355.658	-S950	063-32

g500-S shaft-mounted helical geared motors

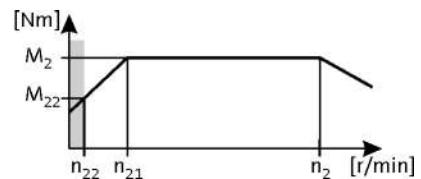


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.18 \text{ kW}$
87 Hz: $P_N = 0.33 \text{ kW}$

3-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product			
n_2 [r/min]	M_2 [Nm]	c	n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c				
3.7	445	1.0	0.4	342	1.6	445	3.7	445	1.0	6.7	450	1.0	369.548	-S660	063-32	
3.4	479	2.0	0.4	369	1.5	479	3.4	479	2.0	6.2	484	2.0	397.999	-S950	063-32	
3.2	507	1.0	0.3	390	1.4	507	3.2	507	1.0	5.9	512	1.0	421.060	-S660	063-32	

g500-S shaft-mounted helical geared motors

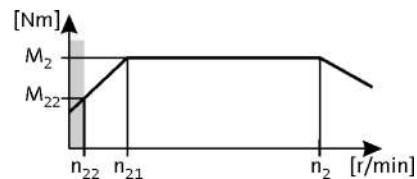


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.25 \text{ kW}$
87 Hz: $P_N = 0.45 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation												i	Product	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			n_2 [r/min]	M_2 [Nm]	c		
374	6.0	5.6	40	4.8	164	6.0	374	6.0	5.6	677	6.0	4.8	3.661	-S130	063-42		
273	8.0	5.6	29	6.5	120	8.0	273	8.0	5.6	494	8.0	4.8	5.021	-S130	063-42		
214	11	5.6	23	8.3	94	11	214	11	5.6	387	11	4.8	6.411	-S400	063-42		
213	11	5.2	23	8.4	93	11	213	11	5.2	386	11	4.4	6.425	-S130	063-42		
195	12	5.2	21	9.2	85	12	195	12	5.2	353	12	4.4	7.029	-S130	063-42		
165	14	5.6	17	11	72	14	165	14	5.6	298	14	4.8	8.322	-S130	063-42		
146	16	5.6	15	12	64	16	146	16	5.6	264	16	4.8	9.411	-S130	063-42		
120	19	5.6	13	15	53	19	120	19	5.6	217	19	4.8	11.413	-S130	063-42		
106	22	5.6	11	17	47	22	106	22	5.6	192	22	4.8	12.907	-S130	063-42		
105	22	5.6	11	17	46	22	105	22	5.6	191	22	4.8	12.992	-S220	063-42		
96	24	5.6	10	19	42	24	96	24	5.6	173	24	4.8	14.336	-S400	063-42		
94	25	5.2	9.9	19	41	25	94	25	5.2	170	25	4.4	14.606	-S130	063-42		
93	25	5.6	9.9	19	41	25	93	25	5.6	169	25	4.8	14.720	-S220	063-42		
86	27	4.8	9.1	21	38	27	86	27	4.8	155	27	4.1	15.979	-S130	063-42		
85	27	5.6	9.0	21	37	27	85	27	5.6	153	27	4.8	16.197	-S400	063-42		
83	28	5.2	8.8	22	36	28	83	28	5.2	150	28	4.4	16.571	-S220	063-42		
76	31	4.3	8.0	24	33	30	76	31	4.3	137	30	4.1	18.069	-S130	063-42		
75	31	5.2	7.9	24	33	31	75	31	5.2	136	31	5.1	18.286	-S400	063-42		
73	32	5.2	7.7	24	32	32	73	32	5.2	132	32	5.1	18.776	-S220	063-42		
67	34	3.8	7.1	27	29	34	67	34	3.8	122	34	3.7	20.381	-S130	063-42		
66	35	5.2	7.0	27	29	35	66	35	5.2	120	35	5.1	20.659	-S400	063-42		
59	39	3.3	6.3	30	26	39	59	39	3.3	108	39	3.2	23.048	-S130	063-42		
55	42	3.1	5.8	33	24	42	55	42	3.1	99	42	3.0	24.967	-S130	063-42		
52	45	4.3	5.5	34	23	44	52	45	4.3	94	44	4.2	26.422	-S220	063-42		
49	48	2.7	5.1	37	21	47	49	48	2.7	88	47	2.6	28.233	-S130	063-42		
47	49	4.3	5.0	38	21	49	47	49	4.3	85	49	4.2	29.156	-S400	063-42		
46	51	4.3	4.8	39	20	50	46	51	4.3	83	50	4.2	29.937	-S220	063-42		
44	53	2.5	4.6	41	19	53	44	53	2.5	79	53	2.5	31.387	-S130	063-42		
42	56	3.7	4.4	43	18	55	42	56	3.7	76	55	3.7	32.867	-S220	063-42		
42	56	4.3	4.4	43	18	55	42	56	4.3	75	55	4.3	32.940	-S400	063-42		
39	60	2.2	4.1	46	17	60	39	60	2.2	70	60	2.2	35.493	-S130	063-42		
38	61	3.7	4.0	47	17	61	38	61	3.7	68	61	3.7	36.267	-S400	063-42		
37	63	3.5	3.9	49	16	63	37	63	3.5	67	63	3.5	37.238	-S220	063-42		
34	68	3.7	3.6	53	15	68	34	68	3.7	62	68	3.7	40.333	-S660	063-42		
34	68	1.9	3.6	53	15	68	34	68	1.9	61	68	1.9	40.422	-S130	063-42		

g500-S shaft-mounted helical geared motors

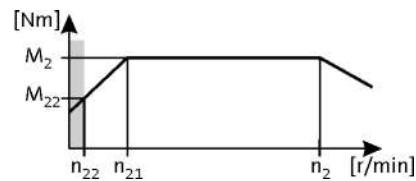


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.25 \text{ kW}$
87 Hz: $P_N = 0.45 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation												i	Product	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)							
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c					
33	69	3.7	3.5	53	15	69	33	69	3.7	61	69	3.7	40.974	-S400	063-42		
32	72	3.1	3.4	55	14	72	32	72	3.1	58	72	3.1	42.533	-S220	063-42		
30	77	1.7	3.2	60	13	77	30	77	1.7	54	77	1.7	45.711	-S130	063-42		
30	78	3.7	3.2	60	13	77	30	78	3.7	54	77	3.7	45.956	-S660	063-42		
29	79	3.3	3.1	61	13	79	29	79	3.3	53	79	3.3	46.933	-S400	063-42		
28	81	2.7	3.0	63	13	81	28	81	2.7	52	81	2.7	48.190	-S220	063-42		
28	83	3.2	3.0	64	12	82	28	83	3.2	51	82	3.2	48.950	-S660	063-42		
27	87	1.5	2.8	67	12	86	27	87	1.5	48	86	1.5	51.230	-S130	063-42		
27	87	2.5	2.8	67	12	87	27	87	2.5	48	87	2.5	51.620	-S220	063-42		
26	90	3.3	2.7	69	11	89	26	90	3.3	47	89	3.3	53.026	-S400	063-42		
25	94	3.2	2.6	73	11	94	25	94	3.2	45	94	3.2	55.773	-S660	063-42		
24	96	2.8	2.5	74	11	96	24	96	2.8	44	96	2.8	56.960	-S400	063-42		
24	98	1.3	2.5	75	10	97	24	98	1.3	43	97	1.3	57.933	-S130	063-42		
23	99	2.2	2.5	76	10	98	23	99	2.2	42	98	2.2	58.486	-S220	063-42		
21	109	1.2	2.3	84	9.3	108	21	109	1.2	39	108	1.2	64.200	-S130	063-42		
21	109	2.8	2.3	84	9.3	108	21	109	2.8	39	108	2.8	64.354	-S400	063-42		
21	112	1.4	2.2	86	9.1	111	21	112	1.4	38	111	1.4	65.975	-S220	063-42		
19	123	1.1	2.0	95	8.3	122	19	123	1.1	34	122	1.1	72.600	-S130	063-42		
18	126	1.4	1.9	97	8.0	126	18	126	1.4	33	126	1.4	74.750	-S220	063-42		

3-stage gearboxes

Mains operation 400 V, 50 Hz			Inverter operation												i	Product	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)							
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c					
34	67	3.3	3.6	51	15	66	34	67	3.3	62	66	2.8	40.012	-S220	063-42		
30	75	2.9	3.2	58	13	75	30	75	2.9	55	75	2.5	45.333	-S220	063-42		
28	83	5.6	2.9	64	12	83	28	83	5.6	50	83	5.4	49.867	-S660	063-42		
26	88	2.5	2.8	67	11	87	26	88	2.5	47	87	2.4	52.587	-S220	063-42		
24	95	5.6	2.6	73	11	94	24	95	5.6	44	94	5.4	56.818	-S660	063-42		
24	97	4.1	2.5	74	10	96	24	97	4.1	43	96	4.0	58.027	-S400	063-42		
23	99	2.2	2.4	76	10	99	23	99	2.2	42	99	2.1	59.581	-S220	063-42		
22	106	5.2	2.3	82	9.4	106	22	106	5.2	39	106	5.1	63.817	-S660	063-42		
21	109	3.7	2.2	84	9.2	109	21	109	3.7	38	109	3.5	65.559	-S400	063-42		
20	112	2.0	2.2	86	8.9	111	20	112	2.0	37	111	1.9	67.298	-S220	063-42		
20	116	5.2	2.1	90	8.6	116	20	116	5.2	36	116	5.0	69.813	-S660	063-42		
20	117	5.6	2.1	90	8.6	116	20	117	5.6	35	116	5.6	70.037	-S950	063-42		
19	121	5.2	2.0	93	8.3	120	19	121	5.2	34	120	5.3	72.713	-S660	063-42		
18	124	3.2	2.0	95	8.1	123	18	124	3.2	33	123	3.3	74.260	-S400	063-42		
18	127	1.7	1.9	98	7.9	126	18	127	1.7	33	126	1.7	76.249	-S220	063-42		
18	131	5.6	1.9	101	7.7	130	18	131	5.6	32	130	5.6	78.375	-S950	063-42		

g500-S shaft-mounted helical geared motors

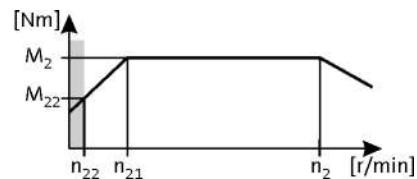


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.25 \text{ kW}$
87 Hz: $P_N = 0.45 \text{ kW}$

3-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product			
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			g500	MD□MA□□		
17	132	5.0	1.8	102	7.5	132	17	132	5.0	31	132	5.0	79.545	-S660	063-42	
16	140	2.9	1.7	108	7.2	139	16	140	2.9	30	139	2.9	83.900	-S400	063-42	
16	143	1.5	1.7	110	7.0	143	16	143	1.5	29	143	1.5	86.079	-S220	063-42	
15	148	4.5	1.6	114	6.7	147	15	148	4.5	28	147	4.5	89.048	-S660	063-42	
15	149	5.2	1.6	115	6.7	148	15	149	5.2	28	148	5.3	89.333	-S950	063-42	
14	158	2.5	1.5	122	6.3	157	14	158	2.5	26	157	2.5	94.984	-S400	063-42	
14	162	1.4	1.5	125	6.2	161	14	162	1.4	25	161	1.4	97.528	-S220	063-42	
14	166	5.2	1.5	128	6.0	166	14	166	5.2	25	166	5.3	99.968	-S950	063-42	
14	169	3.9	1.4	130	5.9	168	14	169	3.9	24	168	3.9	101.460	-S660	063-42	
13	179	2.2	1.4	138	5.6	178	13	179	2.2	23	178	2.3	107.314	-S400	063-42	
13	182	3.6	1.3	140	5.5	181	13	182	3.6	23	181	3.7	109.083	-S660	063-42	
12	186	1.2	1.3	143	5.4	185	12	186	1.2	22	185	1.2	111.747	-S220	063-42	
11	205	2.0	1.2	158	4.9	204	11	205	2.0	20	204	2.0	123.307	-S400	063-42	
11	207	3.2	1.2	159	4.8	206	11	207	3.2	20	206	3.2	124.289	-S660	063-42	
11	211	1.0	1.1	162	4.7	210	11	211	1.0	20	210	1.1	126.610	-S220	063-42	
10	228	2.9	1.1	176	4.4	227	10	228	2.9	18	227	2.9	137.133	-S660	063-42	
9.8	232	1.7	1.0	179	4.3	231	9.8	232	1.7	18	231	1.7	139.313	-S400	063-42	
9.6	237	4.0	1.0	183	4.2	236	9.6	237	4.0	17	236	4.0	142.437	-S950	063-42	
9.6	238	0.9	1.0	184	4.2	237	9.6	238	0.9	17	237	0.9	143.205	-S220	063-42	
8.8	260	2.5	0.9	200	3.8	259	8.8	260	2.5	16	259	2.6	156.249	-S660	063-42	
8.7	263	1.5	0.9	203	3.8	262	8.7	263	1.5	16	262	1.5	158.019	-S400	063-42	
8.6	265	3.6	0.9	204	3.8	264	8.6	265	3.6	16	264	3.6	159.394	-S950	063-42	
8.4	270	0.8	0.9	208	3.7	269	8.4	270	0.8	15	269	0.8	162.252	-S220	063-42	
7.8	294	2.2	0.8	227	3.4	292	7.8	294	2.2	14	292	2.3	176.611	-S660	063-42	
7.7	295	3.2	0.8	227	3.4	293	7.7	295	3.2	14	293	3.2	177.178	-S950	063-42	
7.7	297	1.3	0.8	229	3.4	296	7.7	297	1.3	14	296	1.4	178.531	-S400	063-42	
6.9	330	2.9	0.7	254	3.0	328	6.9	330	2.9	13	328	2.9	198.270	-S950	063-42	
6.8	335	2.0	0.7	258	3.0	333	6.8	335	2.0	12	333	2.0	201.230	-S660	063-42	
6.7	340	1.2	0.7	262	2.9	338	6.7	340	1.2	12	338	1.2	204.412	-S400	063-42	
6.1	373	1.8	0.6	287	2.7	371	6.1	373	1.8	11	371	1.8	223.833	-S660	063-42	
6.0	382	2.5	0.6	294	2.6	380	6.0	382	2.5	11	380	2.5	229.289	-S950	063-42	
5.9	385	1.0	0.6	296	2.6	382	5.9	385	1.0	11	382	1.0	230.946	-S400	063-42	
5.4	419	3.7	0.6	323	2.4	417	5.4	419	3.7	9.8	417	3.7	251.778	-S2100	063-42	
5.4	425	1.6	0.6	327	2.4	422	5.4	425	1.6	9.7	422	1.6	255.034	-S660	063-42	
5.3	427	2.2	0.6	329	2.3	425	5.3	427	2.2	9.7	425	2.2	256.585	-S950	063-42	

g500-S shaft-mounted helical geared motors

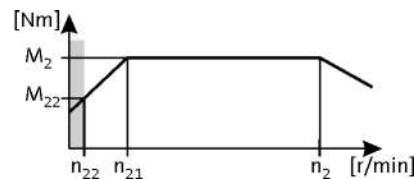


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.25 \text{ kW}$
87 Hz: $P_N = 0.45 \text{ kW}$

3-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product			
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			n_2 [r/min]	M_2 [Nm]	c	
5.2	443	0.9	0.5	341	2.3	440	5.2	443	0.9	9.3	440	0.9	265.956	-S400	063-42	
4.9	463	2.1	0.5	357	2.2	461	4.9	463	2.1	8.9	461	2.1	278.273	-S950	063-42	
4.9	466	3.7	0.5	359	2.1	463	4.9	466	3.7	8.9	463	3.7	279.807	-S2100	063-42	
4.9	467	1.2	0.5	360	2.1	464	4.9	467	1.2	8.8	464	1.2	280.500	-S660	063-42	
4.6	494	3.7	0.5	380	2.0	491	4.6	494	3.7	8.4	491	3.7	296.430	-S3100	063-42	
4.5	509	3.2	0.5	392	2.0	506	4.5	509	3.2	8.1	506	3.2	305.567	-S2100	063-42	
4.4	519	1.8	0.5	399	1.9	516	4.4	519	1.8	8.0	516	1.8	311.401	-S950	063-42	
4.3	532	1.2	0.5	410	1.9	529	4.3	532	1.2	7.8	529	1.2	319.600	-S660	063-42	
4.1	558	3.7	0.4	430	1.8	555	4.1	558	3.7	7.4	555	3.7	335.215	-S3100	063-42	
4.0	566	3.2	0.4	435	1.8	562	4.0	566	3.2	7.3	562	3.2	339.584	-S2100	063-42	
3.9	592	1.4	0.4	456	1.7	589	3.9	592	1.4	7.0	589	1.4	355.658	-S950	063-42	
3.8	599	3.2	0.4	461	1.7	596	3.8	599	3.2	6.9	596	3.2	359.758	-S3100	063-42	
3.5	643	2.6	0.4	495	1.6	640	3.5	643	2.6	6.4	640	2.6	386.250	-S2100	063-42	
3.4	663	1.4	0.4	510	1.5	659	3.4	663	1.4	6.2	659	1.4	397.999	-S950	063-42	
3.4	678	3.2	0.4	522	1.5	674	3.4	678	3.2	6.1	674	3.2	406.829	-S3100	063-42	
3.2	715	2.6	0.3	550	1.4	711	3.2	715	2.6	5.8	711	2.6	429.250	-S2100	063-42	

g500-S shaft-mounted helical geared motors

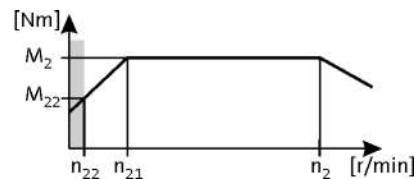


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.37 \text{ kW}$
87 Hz: $P_N = 0.66 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product		
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			g500	MD□MA□□	
385	9.0	4.9	40	6.9	164	9.0	385	9.0	4.9	688	9.0	4.1	3.661	-S130	071-32
281	12	4.9	29	9.4	120	12	281	12	4.9	502	12	4.1	5.021	-S130	071-32
220	16	4.9	23	12	94	16	220	16	4.9	393	16	4.1	6.411	-S400	071-32
219	16	4.5	23	12	93	16	219	16	4.5	392	16	3.8	6.425	-S130	071-32
201	17	4.5	21	13	85	17	201	17	4.5	359	17	3.8	7.029	-S130	071-32
169	20	4.9	17	16	72	20	169	20	4.9	303	20	4.1	8.322	-S130	071-32
150	23	4.9	15	18	64	23	150	23	4.9	268	23	4.1	9.411	-S130	071-32
124	28	4.7	13	21	53	28	124	28	4.7	221	28	4.0	11.413	-S130	071-32
109	31	4.1	11	24	47	31	109	31	4.1	195	31	3.5	12.907	-S130	071-32
109	32	4.9	11	24	46	32	109	32	4.9	194	32	4.1	12.992	-S220	071-32
98	35	4.9	10	27	42	35	98	35	4.9	176	35	4.1	14.336	-S400	071-32
97	36	3.7	9.9	27	41	35	97	36	3.7	173	35	3.1	14.606	-S130	071-32
96	36	4.9	9.9	28	41	36	96	36	4.9	171	36	4.1	14.720	-S220	071-32
88	39	3.4	9.1	30	38	39	88	39	3.4	158	39	2.8	15.979	-S130	071-32
87	39	4.9	9.0	30	37	39	87	39	4.9	156	39	4.1	16.197	-S400	071-32
85	40	4.5	8.8	31	36	40	85	40	4.5	152	40	3.8	16.571	-S220	071-32
78	44	3.0	8.0	34	33	44	78	44	3.0	140	44	2.8	18.069	-S130	071-32
77	44	4.5	7.9	34	33	44	77	44	4.5	138	44	4.4	18.286	-S400	071-32
75	46	4.5	7.7	35	32	46	75	46	4.5	134	46	4.4	18.776	-S220	071-32
69	50	2.6	7.1	38	29	49	69	50	2.6	124	49	2.5	20.381	-S130	071-32
61	56	2.3	6.3	43	26	56	61	56	2.3	109	56	2.2	23.048	-S130	071-32
57	61	2.1	5.8	47	24	61	57	61	2.1	101	61	2.1	24.967	-S130	071-32
53	64	3.4	5.5	50	23	64	53	64	3.4	95	64	3.3	26.422	-S220	071-32
50	69	1.9	5.1	53	21	69	50	69	1.9	89	69	1.8	28.233	-S130	071-32
48	71	3.7	5.0	55	21	71	48	71	3.7	86	71	3.6	29.156	-S400	071-32
47	73	3.0	4.8	56	20	73	47	73	3.0	84	73	2.9	29.937	-S220	071-32
45	76	1.7	4.6	59	19	76	45	76	1.7	80	76	1.7	31.387	-S130	071-32
43	80	2.8	4.4	62	18	80	43	80	2.8	77	80	2.8	32.867	-S220	071-32
43	80	3.7	4.4	62	18	80	43	80	3.7	77	80	3.8	32.940	-S400	071-32
40	86	1.5	4.1	66	17	86	40	86	1.5	71	86	1.5	35.493	-S130	071-32
39	88	3.2	4.0	68	17	88	39	88	3.2	70	88	3.2	36.267	-S400	071-32
38	91	2.4	3.9	70	16	90	38	91	2.4	68	90	2.4	37.238	-S220	071-32
35	98	3.2	3.6	76	15	98	35	98	3.2	63	98	3.2	40.333	-S660	071-32
35	98	1.3	3.6	76	15	98	35	98	1.3	62	98	1.3	40.422	-S130	071-32
34	100	3.2	3.5	77	15	100	34	100	3.2	62	99	3.2	40.974	-S400	071-32

g500-S shaft-mounted helical geared motors

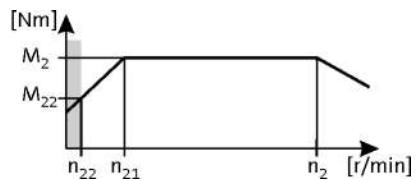


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.37 \text{ kW}$
87 Hz: $P_N = 0.66 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation												i	Product	g500	MD□MA□□	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)									
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c							
33	103	2.1	3.4	80	14	103	33	103	2.1	59	103	2.1	42.533	-S220	071-32				
31	111	1.2	3.2	86	13	111	31	111	1.2	55	111	1.2	45.711	-S130	071-32				
31	112	3.2	3.2	86	13	112	31	112	3.2	55	112	3.2	45.956	-S660	071-32				
30	114	2.8	3.1	88	13	114	30	114	2.8	54	114	2.8	46.933	-S400	071-32				
29	117	1.9	3.0	90	13	117	29	117	1.9	52	117	1.9	48.190	-S220	071-32				
29	119	2.8	3.0	92	12	119	29	119	2.8	52	119	2.8	48.950	-S660	071-32				
28	125	1.0	2.8	96	12	124	28	125	1.0	49	124	1.1	51.230	-S130	071-32				
27	126	1.8	2.8	97	12	125	27	126	1.8	49	125	1.8	51.620	-S220	071-32				
27	129	2.7	2.7	99	11	129	27	129	2.7	48	129	2.7	53.026	-S400	071-32				
25	136	2.8	2.6	104	11	135	25	136	2.8	45	135	2.8	55.773	-S660	071-32				
25	138	1.9	2.5	107	11	138	25	138	1.9	44	138	1.9	56.960	-S400	071-32				
24	141	0.9	2.5	109	10	141	24	141	0.9	44	141	0.9	57.933	-S130	071-32				
24	142	1.6	2.5	110	10	142	24	142	1.6	43	142	1.6	58.486	-S220	071-32				
22	156	0.8	2.3	120	9.3	156	22	156	0.8	39	156	0.8	64.200	-S130	071-32				
22	156	1.9	2.3	121	9.3	156	22	156	1.9	39	156	1.9	64.354	-S400	071-32				
21	160	1.1	2.2	124	9.1	160	21	160	1.1	38	160	1.1	65.975	-S220	071-32				
19	182	1.1	1.9	140	8.0	181	19	182	1.1	34	181	1.1	74.750	-S220	071-32				

3-stage gearboxes

Mains operation 400 V, 50 Hz			Inverter operation												i	Product	g500	MD□MA□□	
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)									
			n_{22} [r/min]	M_{22} [Nm]	n_{21} [r/min]	M_2 [Nm]	n_2 [r/min]	M_2 [Nm]	c	n_2 [r/min]	M_2 [Nm]	c							
35	96	2.3	3.6	74	15	96	35	96	2.3	63	96	1.9	40.012	-S220	071-32				
31	109	2.0	3.2	84	13	108	31	109	2.0	56	108	1.7	45.333	-S220	071-32				
28	119	4.9	2.9	92	12	119	28	119	4.9	51	119	4.7	49.867	-S660	071-32				
27	126	1.8	2.8	97	11	126	27	126	1.8	48	126	1.7	52.587	-S220	071-32				
25	136	4.8	2.6	105	11	136	25	136	4.8	44	136	4.6	56.818	-S660	071-32				
24	139	2.9	2.5	107	10	139	24	139	2.9	43	139	2.8	58.027	-S400	071-32				
24	143	1.5	2.4	110	10	142	24	143	1.5	42	142	1.5	59.581	-S220	071-32				
22	153	4.3	2.3	118	9.4	153	22	153	4.3	40	153	4.1	63.817	-S660	071-32				
22	157	2.6	2.2	121	9.2	157	22	157	2.6	38	157	2.4	65.559	-S400	071-32				
21	161	1.4	2.2	124	8.9	161	21	161	1.4	37	161	1.3	67.298	-S220	071-32				
20	167	4.0	2.1	129	8.6	167	20	167	4.0	36	167	3.8	69.813	-S660	071-32				
20	168	4.9	2.1	129	8.6	167	20	168	4.9	36	167	4.9	70.037	-S950	071-32				
19	174	3.8	2.0	134	8.3	174	19	174	3.8	35	174	3.8	72.713	-S660	071-32				
19	178	2.3	2.0	137	8.1	177	19	178	2.3	34	177	2.3	74.260	-S400	071-32				
19	183	1.2	1.9	141	7.9	182	19	183	1.2	33	182	1.2	76.249	-S220	071-32				
18	188	4.9	1.9	145	7.7	187	18	188	4.9	32	187	4.9	78.375	-S950	071-32				
18	190	3.5	1.8	147	7.5	190	18	190	3.5	32	190	3.5	79.545	-S660	071-32				
17	201	2.0	1.7	155	7.2	201	17	201	2.0	30	201	2.0	83.900	-S400	071-32				

g500-S shaft-mounted helical geared motors

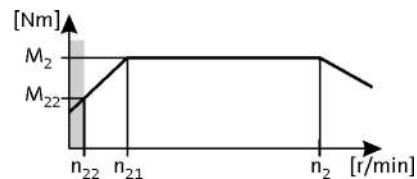


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.37 \text{ kW}$
87 Hz: $P_N = 0.66 \text{ kW}$

3-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product		
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			g500	MD□MA□□	
16	206	1.1	1.7	159	7.0	206	16	206	1.1	29	206	1.1	86.079	-S220	071-32
16	213	3.1	1.6	164	6.7	213	16	213	3.1	28	213	3.1	89.048	-S660	071-32
16	214	4.4	1.6	165	6.7	214	16	214	4.4	28	214	4.5	89.333	-S950	071-32
15	227	1.8	1.5	175	6.3	227	15	227	1.8	27	227	1.8	94.984	-S400	071-32
15	234	0.9	1.5	180	6.2	233	15	234	0.9	26	233	0.9	97.528	-S220	071-32
14	239	4.0	1.5	184	6.0	239	14	239	4.0	25	239	4.0	99.968	-S950	071-32
14	243	2.7	1.4	187	5.9	243	14	243	2.7	25	243	2.7	101.460	-S660	071-32
13	257	1.6	1.4	198	5.6	256	13	257	1.6	24	256	1.6	107.314	-S400	071-32
13	261	2.5	1.3	201	5.5	261	13	261	2.5	23	261	2.5	109.083	-S660	071-32
13	268	0.8	1.3	206	5.4	267	13	268	0.8	23	267	0.8	111.747	-S220	071-32
11	295	1.4	1.2	227	4.9	295	11	295	1.4	20	295	1.4	123.307	-S400	071-32
11	298	2.2	1.2	229	4.8	297	11	298	2.2	20	297	2.2	124.289	-S660	071-32
10	328	2.0	1.1	253	4.4	328	10	328	2.0	18	328	2.0	137.133	-S660	071-32
10	334	1.2	1.0	257	4.3	333	10	334	1.2	18	333	1.2	139.313	-S400	071-32
9.9	341	2.8	1.0	263	4.2	340	9.9	341	2.8	18	340	2.8	142.437	-S950	071-32
9.0	374	1.8	0.9	288	3.8	373	9.0	374	1.8	16	373	1.8	156.249	-S660	071-32
8.9	378	1.1	0.9	291	3.8	378	8.9	378	1.1	16	378	1.1	158.019	-S400	071-32
8.8	382	2.5	0.9	294	3.8	381	8.8	382	2.5	16	381	2.5	159.394	-S950	071-32
8.0	423	1.6	0.8	326	3.4	422	8.0	423	1.6	14	422	1.6	176.611	-S660	071-32
8.0	424	2.2	0.8	327	3.4	423	8.0	424	2.2	14	423	2.2	177.178	-S950	071-32
7.9	428	0.9	0.8	329	3.4	427	7.9	428	0.9	14	427	0.9	178.531	-S400	071-32
7.1	475	2.0	0.7	366	3.0	474	7.1	475	2.0	13	474	2.0	198.270	-S950	071-32
7.0	482	1.4	0.7	371	3.0	481	7.0	482	1.4	13	481	1.4	201.230	-S660	071-32
6.9	490	0.8	0.7	377	2.9	489	6.9	490	0.8	12	489	0.8	204.412	-S400	071-32
6.3	536	1.2	0.6	413	2.7	535	6.3	536	1.2	11	535	1.2	223.833	-S660	071-32
6.1	549	1.7	0.6	423	2.6	548	6.1	549	1.7	11	548	1.7	229.289	-S950	071-32
5.6	603	3.2	0.6	464	2.4	602	5.6	603	3.2	10	602	3.2	251.778	-S2100	071-32
5.5	611	1.1	0.6	470	2.4	610	5.5	611	1.1	9.9	610	1.1	255.034	-S660	071-32
5.5	614	1.6	0.6	473	2.3	613	5.5	614	1.6	9.8	613	1.6	256.585	-S950	071-32
5.1	666	1.4	0.5	513	2.2	665	5.1	666	1.4	9.1	665	1.4	278.273	-S950	071-32
5.0	670	3.1	0.5	516	2.1	669	5.0	670	3.1	9.0	669	3.1	279.807	-S2100	071-32
5.0	672	0.9	0.5	517	2.1	670	5.0	672	0.9	9.0	670	0.9	280.500	-S660	071-32
4.8	710	3.2	0.5	547	2.0	709	4.8	710	3.2	8.5	709	3.2	296.430	-S3100	071-32
4.6	732	2.8	0.5	564	2.0	730	4.6	732	2.8	8.2	730	2.8	305.567	-S2100	071-32
4.5	746	1.3	0.5	574	1.9	744	4.5	746	1.3	8.1	744	1.3	311.401	-S950	071-32

g500-S shaft-mounted helical geared motors

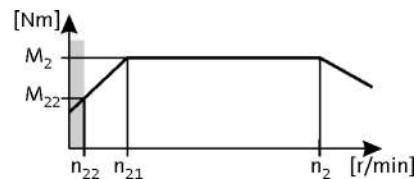


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.37 \text{ kW}$
87 Hz: $P_N = 0.66 \text{ kW}$

3-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product			
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			n_2 [r/min]	M_2 [Nm]	c	
4.4	765	0.9	0.5	589	1.9	764	4.4	765	0.9	7.9	764	0.9	319.600	-S660	071-32	
4.2	803	3.2	0.4	618	1.8	801	4.2	803	3.2	7.5	801	3.2	335.215	-S3100	071-32	
4.2	813	2.5	0.4	626	1.8	812	4.2	813	2.5	7.4	812	2.5	339.584	-S2100	071-32	
4.0	852	1.1	0.4	656	1.7	850	4.0	852	1.1	7.1	850	1.1	355.658	-S950	071-32	
3.9	862	2.8	0.4	663	1.7	860	3.9	862	2.8	7.0	860	2.8	359.758	-S3100	071-32	
3.7	925	2.2	0.4	712	1.6	923	3.7	925	2.2	6.5	923	2.2	386.250	-S2100	071-32	
3.5	953	1.0	0.4	734	1.5	951	3.5	953	1.0	6.3	951	1.0	397.999	-S950	071-32	
3.5	974	2.8	0.4	750	1.5	972	3.5	974	2.8	6.2	972	2.8	406.829	-S3100	071-32	
3.3	1028	2.0	0.3	792	1.4	1026	3.3	1028	2.0	5.9	1026	2.0	429.250	-S2100	071-32	

g500-S shaft-mounted helical geared motors

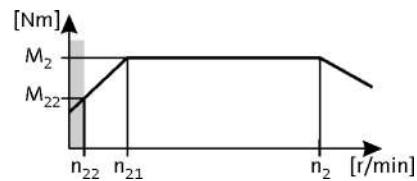


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.55 \text{ kW}$
87 Hz: $P_N = 1.0 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product		
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			g500	MD□MA□□	
421	12	5.1	43	9.3	180	12	421	12	5.1	753	12	4.3	3.339	-S400	071-42
384	13	4.5	40	10	164	13	384	13	4.5	687	13	3.8	3.661	-S130	071-42
366	14	5.1	38	11	156	14	366	14	5.1	655	14	4.3	3.840	-S220	071-42
280	18	4.2	29	14	120	18	280	18	4.2	501	18	3.5	5.021	-S130	071-42
240	21	4.5	25	16	102	21	240	21	4.5	429	22	3.7	5.860	-S400	071-42
219	23	4.5	23	18	94	23	219	23	4.5	392	24	3.8	6.411	-S400	071-42
219	23	3.7	23	18	93	23	219	23	3.7	391	24	3.1	6.425	-S130	071-42
208	25	5.1	21	19	89	25	208	25	5.1	372	25	4.3	6.767	-S220	071-42
200	25	3.6	21	20	85	25	200	25	3.6	358	26	3.0	7.029	-S130	071-42
188	27	5.1	19	21	80	27	188	27	5.1	337	28	4.3	7.467	-S400	071-42
183	28	5.1	19	21	78	28	183	28	5.1	328	28	4.3	7.667	-S220	071-42
169	30	3.8	17	23	72	30	169	30	3.8	302	31	3.2	8.322	-S130	071-42
167	31	5.1	17	24	71	31	167	31	5.1	298	31	4.3	8.436	-S400	071-42
149	34	3.7	15	26	64	34	149	34	3.7	267	35	3.0	9.411	-S130	071-42
123	41	3.1	13	32	53	41	123	41	3.1	220	42	2.6	11.413	-S130	071-42
118	43	4.5	12	33	51	43	118	43	4.5	212	44	3.7	11.876	-S220	071-42
109	47	2.8	11	36	47	47	109	47	2.8	195	48	2.3	12.907	-S130	071-42
108	47	4.5	11	36	46	47	108	47	4.5	194	48	3.8	12.992	-S220	071-42
107	48	4.5	11	37	46	48	107	48	4.5	192	48	3.7	13.105	-S400	071-42
104	49	4.5	11	38	45	49	104	49	4.5	187	50	3.7	13.456	-S220	071-42
98	52	4.5	10	40	42	52	98	52	4.5	175	53	3.8	14.336	-S400	071-42
96	53	2.5	9.9	41	41	53	96	53	2.5	172	54	2.0	14.606	-S130	071-42
95	53	4.1	9.9	41	41	53	95	53	4.1	171	54	3.4	14.720	-S220	071-42
95	54	4.5	9.8	41	41	54	95	54	4.5	170	55	3.7	14.806	-S400	071-42
89	57	4.5	9.2	44	38	57	89	57	4.5	160	58	3.7	15.714	-S660	071-42
88	58	2.2	9.1	45	38	58	88	58	2.2	157	59	1.9	15.979	-S130	071-42
87	59	4.5	9.0	45	37	59	87	59	4.5	155	60	3.8	16.197	-S400	071-42
85	60	3.7	8.8	46	36	60	85	60	3.7	152	61	3.0	16.571	-S220	071-42
79	65	4.5	8.1	50	34	65	79	65	4.5	141	66	3.7	17.905	-S660	071-42
78	66	2.0	8.0	51	33	66	78	66	2.0	139	67	1.9	18.069	-S130	071-42
77	66	4.2	7.9	51	33	66	77	66	4.2	138	67	4.0	18.286	-S400	071-42
75	68	3.2	7.7	52	32	68	75	68	3.2	134	69	3.0	18.776	-S220	071-42
69	74	3.0	7.1	57	30	74	69	74	3.0	124	75	2.8	20.300	-S220	071-42
69	74	1.8	7.1	57	29	74	69	74	1.8	123	75	1.7	20.381	-S130	071-42
68	75	4.2	7.0	58	29	75	68	75	4.2	122	76	4.0	20.659	-S400	071-42

g500-S shaft-mounted helical geared motors

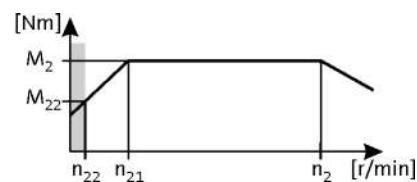


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.55 \text{ kW}$
87 Hz: $P_N = 1.0 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product		
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			g500	MD□MA□□	
63	81	3.7	6.5	63	27	81	63	81	3.7	112	83	3.5	22.400	-S400	071-42
61	83	2.6	6.3	64	26	83	61	83	2.6	109	85	2.5	23.000	-S220	071-42
61	84	1.6	6.3	64	26	84	61	84	1.6	109	85	1.5	23.048	-S130	071-42
56	91	1.4	5.8	70	24	91	56	91	1.4	101	92	1.4	24.967	-S130	071-42
56	91	3.7	5.8	70	24	91	56	91	3.7	100	92	3.5	25.056	-S660	071-42
56	92	3.7	5.7	71	24	92	56	92	3.7	99	93	3.5	25.308	-S400	071-42
53	96	2.3	5.5	74	23	96	53	96	2.3	95	97	2.2	26.422	-S220	071-42
50	102	1.3	5.1	79	21	102	50	102	1.3	89	104	1.2	28.233	-S130	071-42
49	104	3.7	5.1	80	21	104	49	104	3.7	88	105	3.5	28.548	-S660	071-42
48	106	3.4	5.0	81	21	106	48	106	3.4	86	107	3.2	29.156	-S400	071-42
47	109	2.0	4.8	84	20	109	47	109	2.0	84	110	1.9	29.937	-S220	071-42
45	113	3.2	4.7	87	19	113	45	113	3.2	81	115	3.1	31.167	-S660	071-42
45	114	1.1	4.6	88	19	114	45	114	1.1	80	116	1.1	31.387	-S130	071-42
43	119	1.9	4.4	92	18	119	43	119	1.9	77	121	1.8	32.867	-S220	071-42
43	119	3.4	4.4	92	18	119	43	119	3.4	76	121	3.3	32.940	-S400	071-42
40	129	1.0	4.1	99	17	129	40	129	1.0	71	131	1.0	35.493	-S130	071-42
40	129	3.2	4.1	99	17	129	40	129	3.2	71	131	3.1	35.511	-S660	071-42
39	132	2.9	4.0	101	17	132	39	132	2.9	69	134	2.8	36.267	-S400	071-42
38	135	1.6	3.9	104	16	135	38	135	1.6	68	137	1.6	37.238	-S220	071-42
35	146	2.9	3.6	113	15	146	35	146	2.9	62	149	2.8	40.333	-S660	071-42
35	147	0.9	3.6	113	15	147	35	147	0.9	62	149	0.9	40.422	-S130	071-42
34	149	2.7	3.5	114	15	149	34	149	2.7	61	151	2.7	40.974	-S400	071-42
34	149	3.2	3.5	115	15	149	34	149	3.2	61	151	3.1	41.067	-S950	071-42
33	154	1.4	3.4	119	14	154	33	154	1.4	59	157	1.4	42.533	-S220	071-42
31	167	3.2	3.2	128	13	167	31	167	3.2	55	169	3.1	45.956	-S950	071-42
31	167	2.9	3.2	128	13	167	31	167	2.9	55	169	2.8	45.956	-S660	071-42
30	170	1.9	3.1	131	13	170	30	170	1.9	54	173	1.8	46.933	-S400	071-42
29	175	1.3	3.0	135	13	175	29	175	1.3	52	178	1.2	48.190	-S220	071-42
29	178	2.4	3.0	137	12	178	29	178	2.4	51	180	2.4	48.950	-S660	071-42
28	181	2.8	2.9	139	12	181	28	181	2.8	51	184	2.7	49.840	-S950	071-42
27	187	1.2	2.8	144	12	187	27	187	1.2	49	190	1.2	51.620	-S220	071-42
27	192	1.8	2.7	148	11	192	27	192	1.8	47	195	1.8	53.026	-S400	071-42
25	202	2.8	2.6	156	11	202	25	202	2.8	45	205	2.7	55.773	-S950	071-42
25	202	2.4	2.6	156	11	202	25	202	2.4	45	205	2.4	55.773	-S660	071-42
25	207	1.3	2.5	159	11	207	25	207	1.3	44	210	1.3	56.960	-S400	071-42

g500-S shaft-mounted helical geared motors

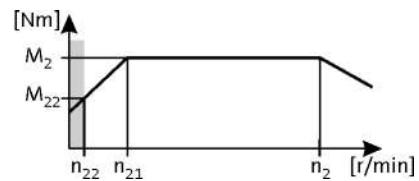


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.55 \text{ kW}$
87 Hz: $P_N = 1.0 \text{ kW}$

2-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product			
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			n_2 [r/min]	M_2 [Nm]	c	
24	212	1.0	2.5	163	10	212	24	212	1.0	43	215	1.0	58.486	-S220	071-42	
22	228	2.2	2.3	176	9.5	228	22	228	2.2	40	232	2.2	63.000	-S950	071-42	
22	233	1.3	2.3	180	9.3	233	22	233	1.3	39	237	1.3	64.354	-S400	071-42	
20	256	2.2	2.1	197	8.5	256	20	256	2.2	36	260	2.2	70.500	-S950	071-42	

3-stage gearboxes

Mains operation 400 V, 50 Hz			Inverter operation									i	Product			
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			n_2 [r/min]	M_2 [Nm]	c	
28	178	3.5	2.9	137	12	178	28	178	3.5	50	181	3.3	49.867	-S660	071-42	
25	203	3.2	2.6	156	11	203	25	203	3.2	44	206	3.0	56.818	-S660	071-42	
24	207	1.9	2.5	160	10	207	24	207	1.9	43	211	1.8	58.027	-S400	071-42	
22	228	2.9	2.3	176	9.4	228	22	228	2.9	39	232	2.7	63.817	-S660	071-42	
22	229	4.2	2.3	176	9.4	229	22	229	4.2	39	232	3.9	64.022	-S950	071-42	
21	234	1.7	2.2	180	9.2	234	21	234	1.7	38	238	1.6	65.559	-S400	071-42	
20	249	2.7	2.1	192	8.6	249	20	249	2.7	36	253	2.5	69.813	-S660	071-42	
20	250	3.8	2.1	193	8.6	250	20	250	3.8	36	254	3.7	70.037	-S950	071-42	
20	256	3.7	2.0	197	8.4	256	20	256	3.7	35	260	3.7	71.644	-S950	071-42	
19	260	2.5	2.0	200	8.3	260	19	260	2.5	35	264	2.5	72.713	-S660	071-42	
19	265	1.5	2.0	204	8.1	265	19	265	1.5	34	269	1.5	74.260	-S400	071-42	
18	280	3.4	1.9	216	7.7	280	18	280	3.4	32	284	3.3	78.375	-S950	071-42	
18	284	2.3	1.8	219	7.5	284	18	284	2.3	32	289	2.3	79.545	-S660	071-42	
17	300	1.3	1.7	231	7.2	300	17	300	1.3	30	304	1.3	83.900	-S400	071-42	
16	318	2.1	1.6	245	6.7	318	16	318	2.1	28	323	2.0	89.048	-S660	071-42	
16	319	3.0	1.6	246	6.7	319	16	319	3.0	28	324	2.9	89.333	-S950	071-42	
15	339	1.2	1.5	261	6.3	339	15	339	1.2	27	345	1.2	94.984	-S400	071-42	
14	350	4.5	1.5	270	6.1	350	14	350	4.5	26	356	4.4	98.095	-S2100	071-42	
14	357	2.7	1.5	275	6.0	357	14	357	2.7	25	363	2.6	99.968	-S950	071-42	
14	362	1.8	1.4	279	5.9	362	14	362	1.8	25	368	1.8	101.460	-S660	071-42	
13	383	1.0	1.4	295	5.6	383	13	383	1.0	23	389	1.0	107.314	-S400	071-42	
13	389	4.5	1.3	300	5.5	389	13	389	4.5	23	396	4.4	109.016	-S2100	071-42	
13	390	1.7	1.3	300	5.5	390	13	390	1.7	23	396	1.7	109.083	-S660	071-42	
13	391	2.4	1.3	301	5.5	391	13	391	2.4	23	397	2.4	109.433	-S950	071-42	
12	413	4.5	1.3	318	5.2	413	12	413	4.5	22	419	4.4	115.492	-S3100	071-42	
12	437	2.2	1.2	337	4.9	437	12	437	2.2	21	444	2.1	122.461	-S950	071-42	
11	441	0.9	1.2	339	4.9	441	11	441	0.9	20	447	0.9	123.307	-S400	071-42	
11	444	1.5	1.2	342	4.8	444	11	444	1.5	20	451	1.5	124.289	-S660	071-42	
11	467	4.5	1.1	359	4.6	467	11	467	4.5	19	474	4.4	130.603	-S3100	071-42	
10	490	1.4	1.1	377	4.4	490	10	490	1.4	18	498	1.3	137.133	-S660	071-42	
9.9	509	1.9	1.0	392	4.2	509	9.9	509	1.9	18	517	1.8	142.437	-S950	071-42	

g500-S shaft-mounted helical geared motors

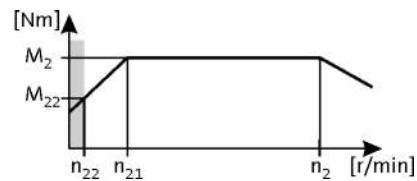


Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.55 \text{ kW}$
87 Hz: $P_N = 1.0 \text{ kW}$

3-stage gearboxes



Mains operation 400 V, 50 Hz			Inverter operation									i	Product		
n_2 [r/min]	M_2 [Nm]	c	5 Hz -		- 20 Hz		- 50 Hz (1:10)			- 87 Hz (1:17.4)			g500	MD□MA□□	
9.0	558	1.2	0.9	430	3.8	558	9.0	558	1.2	16	567	1.2	156.249	-S660	071-42
9.0	559	3.7	0.9	430	3.8	559	9.0	559	3.7	16	568	3.6	156.407	-S2100	071-42
8.8	569	1.7	0.9	439	3.8	569	8.8	569	1.7	16	578	1.6	159.394	-S950	071-42
8.1	621	3.3	0.8	478	3.5	621	8.1	621	3.3	15	631	3.3	173.820	-S2100	071-42
8.0	631	1.1	0.8	486	3.4	631	8.0	631	1.1	14	641	1.0	176.611	-S660	071-42
7.9	633	1.5	0.8	487	3.4	633	7.9	633	1.5	14	643	1.5	177.178	-S950	071-42
7.6	658	3.7	0.8	507	3.3	658	7.6	658	3.7	14	668	3.7	184.146	-S3100	071-42
7.2	695	3.0	0.7	535	3.1	695	7.2	695	3.0	13	706	2.9	194.556	-S2100	071-42
7.1	708	1.3	0.7	545	3.0	708	7.1	708	1.3	13	719	1.3	198.270	-S950	071-42
7.0	719	0.9	0.7	554	3.0	719	7.0	719	0.9	13	730	0.9	201.230	-S660	071-42
6.7	744	3.7	0.7	573	2.9	744	6.7	744	3.7	12	756	3.7	208.240	-S3100	071-42
6.5	772	2.7	0.7	595	2.8	772	6.5	772	2.7	12	785	2.6	216.215	-S2100	071-42
6.1	818	3.2	0.6	630	2.6	818	6.1	818	3.2	11	831	3.1	229.059	-S3100	071-42
6.1	819	1.2	0.6	631	2.6	819	6.1	819	1.2	11	832	1.1	229.289	-S950	071-42
5.9	851	3.2	0.6	655	2.5	851	5.9	851	3.2	11	865	3.1	238.252	-S4500	071-42
5.6	899	2.3	0.6	693	2.4	899	5.6	899	2.3	10	914	2.2	251.778	-S2100	071-42
5.5	917	1.0	0.6	706	2.3	917	5.5	917	1.0	9.8	931	1.0	256.585	-S950	071-42
5.4	925	3.2	0.6	713	2.3	925	5.4	925	3.2	9.7	940	3.1	259.030	-S3100	071-42
5.3	950	3.2	0.5	732	2.3	950	5.3	950	3.2	9.5	965	3.1	265.956	-S4500	071-42
5.0	994	1.0	0.5	766	2.2	1010	5.0	994	1.0	9.0	1010	0.9	278.273	-S950	071-42
5.0	1000	2.1	0.5	770	2.1	1000	5.0	1000	2.1	9.0	1015	2.0	279.807	-S2100	071-42
4.9	1033	2.8	0.5	795	2.1	1033	4.9	1033	2.8	8.7	1049	2.7	289.151	-S4500	071-42
4.7	1059	2.9	0.5	815	2.0	1059	4.7	1059	2.9	8.5	1076	2.8	296.430	-S3100	071-42
4.6	1092	1.9	0.5	841	2.0	1092	4.6	1092	1.9	8.2	1109	1.9	305.567	-S2100	071-42
4.5	1112	0.9	0.5	857	1.9	1112	4.5	1112	0.9	8.1	1130	0.8	311.401	-S950	071-42
4.4	1153	2.8	0.4	888	1.9	1153	4.4	1153	2.8	7.8	1171	2.7	322.773	-S4500	071-42
4.2	1198	2.6	0.4	922	1.8	1198	4.2	1198	2.6	7.5	1216	2.6	335.215	-S3100	071-42
4.1	1213	1.7	0.4	934	1.8	1213	4.1	1213	1.7	7.4	1232	1.7	339.584	-S2100	071-42
3.9	1285	2.4	0.4	990	1.7	1285	3.9	1285	2.4	7.0	1305	2.4	359.758	-S3100	071-42
3.8	1306	2.2	0.4	1005	1.6	1306	3.8	1306	2.2	6.9	1326	2.2	365.500	-S4500	071-42
3.6	1380	1.4	0.4	1063	1.6	1380	3.6	1380	1.4	6.5	1402	1.3	386.250	-S2100	071-42
3.5	1453	2.1	0.4	1119	1.5	1453	3.5	1453	2.1	6.2	1476	2.1	406.829	-S3100	071-42
3.4	1458	2.2	0.4	1122	1.5	1458	3.4	1458	2.2	6.2	1480	2.2	408.000	-S4500	071-42
3.3	1533	1.3	0.3	1181	1.4	1533	3.3	1533	1.3	5.9	1558	1.3	429.250	-S2100	071-42

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.75 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
432	16	4.8	3.339	-S400	40-P80/M4	
394	18	3.6	3.661	-S130	40-P80/M4	
376	18	4.8	3.840	-S220	40-P80/M4	
287	24	3.1	5.021	-S130	40-P80/M4	
246	28	4.2	5.860	-S400	40-P80/M4	
225	31	4.3	6.411	-S400	40-P80/M4	
225	31	2.8	6.425	-S130	40-P80/M4	
213	33	4.8	6.767	-S220	40-P80/M4	
205	34	2.7	7.029	-S130	40-P80/M4	
193	36	4.8	7.467	-S400	40-P80/M4	
188	37	4.8	7.667	-S220	40-P80/M4	
173	40	2.9	8.322	-S130	40-P80/M4	
171	41	4.8	8.436	-S400	40-P80/M4	
153	45	2.8	9.411	-S130	40-P80/M4	
126	55	2.4	11.413	-S130	40-P80/M4	
122	57	3.9	11.876	-S220	40-P80/M4	
112	62	2.1	12.907	-S130	40-P80/M4	
111	63	3.5	12.992	-S220	40-P80/M4	
110	63	4.2	13.105	-S400	40-P80/M4	
107	65	3.4	13.456	-S220	40-P80/M4	
101	69	4.3	14.336	-S400	40-P80/M4	
99	70	1.9	14.606	-S130	40-P80/M4	
98	71	3.1	14.720	-S220	40-P80/M4	
98	71	4.2	14.806	-S400	40-P80/M4	
92	76	4.2	15.714	-S660	40-P80/M4	
90	77	1.7	15.979	-S130	40-P80/M4	
89	78	4.3	16.197	-S400	40-P80/M4	
87	80	2.8	16.571	-S220	40-P80/M4	
81	86	4.2	17.905	-S660	40-P80/M4	
80	87	1.5	18.069	-S130	40-P80/M4	
79	88	4.0	18.286	-S400	40-P80/M4	
77	90	2.4	18.776	-S220	40-P80/M4	
71	98	2.3	20.300	-S220	40-P80/M4	
71	98	1.3	20.381	-S130	40-P80/M4	
70	99	4.0	20.659	-S400	40-P80/M4	
64	108	3.5	22.400	-S400	40-P80/M4	
63	111	2.0	23.000	-S220	40-P80/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 0.75 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
63	111	1.2	23.048	-S130	40-P80/M4	
58	120	1.1	24.967	-S130	40-P80/M4	
58	121	3.5	25.056	-S660	40-P80/M4	
57	122	3.3	25.308	-S400	40-P80/M4	
55	127	1.7	26.422	-S220	40-P80/M4	
51	136	1.0	28.233	-S130	40-P80/M4	
51	137	3.5	28.548	-S660	40-P80/M4	
50	140	2.9	29.156	-S400	40-P80/M4	
48	144	1.5	29.937	-S220	40-P80/M4	
46	150	3.0	31.167	-S660	40-P80/M4	
46	151	0.9	31.387	-S130	40-P80/M4	
44	158	1.4	32.867	-S220	40-P80/M4	
44	159	2.5	32.940	-S400	40-P80/M4	
41	171	3.0	35.511	-S660	40-P80/M4	
40	175	2.3	36.267	-S400	40-P80/M4	
39	179	1.2	37.238	-S220	40-P80/M4	
36	194	2.7	40.333	-S660	40-P80/M4	
35	197	2.0	40.974	-S400	40-P80/M4	
35	198	3.0	41.067	-S950	40-P80/M4	
34	205	1.1	42.533	-S220	40-P80/M4	
31	221	3.0	45.956	-S950	40-P80/M4	
31	221	2.7	45.956	-S660	40-P80/M4	
31	226	1.4	46.933	-S400	40-P80/M4	
30	232	1.0	48.190	-S220	40-P80/M4	
30	236	1.9	48.950	-S660	40-P80/M4	
29	240	2.6	49.840	-S950	40-P80/M4	
28	249	0.9	51.620	-S220	40-P80/M4	
27	255	1.4	53.026	-S400	40-P80/M4	
26	269	2.6	55.773	-S950	40-P80/M4	
26	269	1.9	55.773	-S660	40-P80/M4	
25	274	1.0	56.960	-S400	40-P80/M4	
23	303	2.1	63.000	-S950	40-P80/M4	
22	310	1.0	64.354	-S400	40-P80/M4	
21	339	2.1	70.500	-S950	40-P80/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 0.75 \text{ kW}$

3-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
29	237	2.6	49.867	-S660	40-P80/M4	
27	249	0.9	52.587	-S220	40-P80/M4	
25	270	2.4	56.818	-S660	40-P80/M4	
25	275	1.5	58.027	-S400	40-P80/M4	
23	303	2.2	63.817	-S660	40-P80/M4	
23	304	3.1	64.022	-S950	40-P80/M4	
22	311	1.3	65.559	-S400	40-P80/M4	
21	331	2.0	69.813	-S660	40-P80/M4	
21	332	2.9	70.037	-S950	40-P80/M4	
20	340	2.8	71.644	-S950	40-P80/M4	
20	345	1.9	72.713	-S660	40-P80/M4	
19	352	1.1	74.260	-S400	40-P80/M4	
18	372	2.6	78.375	-S950	40-P80/M4	
18	377	1.8	79.545	-S660	40-P80/M4	
17	398	1.0	83.900	-S400	40-P80/M4	
16	422	1.6	89.048	-S660	40-P80/M4	
16	424	2.2	89.333	-S950	40-P80/M4	
15	451	0.9	94.984	-S400	40-P80/M4	
15	465	4.2	98.095	-S2100	40-P80/M4	
14	474	2.0	99.968	-S950	40-P80/M4	
14	481	1.4	101.460	-S660	40-P80/M4	
13	517	4.0	109.016	-S2100	40-P80/M4	
13	517	1.3	109.083	-S660	40-P80/M4	
13	519	1.8	109.433	-S950	40-P80/M4	
13	548	4.2	115.492	-S3100	40-P80/M4	
12	581	1.6	122.461	-S950	40-P80/M4	
12	590	1.1	124.289	-S660	40-P80/M4	
11	619	4.2	130.603	-S3100	40-P80/M4	
11	650	1.0	137.133	-S660	40-P80/M4	
10	676	1.4	142.437	-S950	40-P80/M4	
9.2	741	0.9	156.249	-S660	40-P80/M4	
9.2	742	2.8	156.407	-S2100	40-P80/M4	
9.1	756	1.3	159.394	-S950	40-P80/M4	
8.3	824	2.5	173.820	-S2100	40-P80/M4	
8.1	840	1.1	177.178	-S950	40-P80/M4	
7.8	873	3.5	184.146	-S3100	40-P80/M4	
7.4	923	2.2	194.556	-S2100	40-P80/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 0.75 \text{ kW}$

3-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
7.3	940	1.0	198.270	-S950	40-P80/M4	
6.9	988	3.1	208.240	-S3100	40-P80/M4	
6.7	1026	2.0	216.215	-S2100	40-P80/M4	
6.3	1086	2.9	229.059	-S3100	40-P80/M4	
6.3	1088	0.9	229.289	-S950	40-P80/M4	
6.1	1130	3.0	238.252	-S4500	40-P80/M4	
5.7	1194	1.7	251.778	-S2100	40-P80/M4	
5.6	1229	2.5	259.030	-S3100	40-P80/M4	
5.4	1261	3.0	265.956	-S4500	40-P80/M4	
5.2	1327	1.5	279.807	-S2100	40-P80/M4	
5.0	1372	2.6	289.151	-S4500	40-P80/M4	
4.9	1406	2.2	296.430	-S3100	40-P80/M4	
4.7	1449	1.4	305.567	-S2100	40-P80/M4	
4.5	1531	2.6	322.773	-S4500	40-P80/M4	
4.3	1590	2.0	335.215	-S3100	40-P80/M4	
4.2	1611	1.3	339.584	-S2100	40-P80/M4	
4.0	1706	1.8	359.758	-S3100	40-P80/M4	
3.9	1734	2.1	365.500	-S4500	40-P80/M4	
3.7	1832	1.1	386.250	-S2100	40-P80/M4	
3.5	1930	1.6	406.829	-S3100	40-P80/M4	
3.5	1935	2.1	408.000	-S4500	40-P80/M4	
3.4	2036	1.0	429.250	-S2100	40-P80/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 1.1 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
433	24	5.9	3.339	-S400	40-P90/M4	
395	26	2.4	3.661	-S130	40-P90/M4	
376	27	5.9	3.840	-S220	40-P90/M4	
316	32	5.9	4.579	-S400	40-P90/M4	
288	35	2.2	5.021	-S130	40-P90/M4	
274	37	4.9	5.267	-S220	40-P90/M4	
247	41	5.5	5.860	-S400	40-P90/M4	
225	45	5.5	6.411	-S400	40-P90/M4	
225	45	1.9	6.425	-S130	40-P90/M4	
214	48	4.6	6.767	-S220	40-P90/M4	
210	49	5.8	6.880	-S660	40-P90/M4	
206	50	1.9	7.029	-S130	40-P90/M4	
194	53	5.9	7.467	-S400	40-P90/M4	
189	54	4.0	7.667	-S220	40-P90/M4	
188	54	5.8	7.702	-S950	40-P90/M4	
174	59	2.0	8.322	-S130	40-P90/M4	
171	59	5.9	8.436	-S400	40-P90/M4	
156	65	3.4	9.280	-S220	40-P90/M4	
154	66	1.9	9.411	-S130	40-P90/M4	
141	72	5.5	10.240	-S400	40-P90/M4	
137	74	3.0	10.514	-S220	40-P90/M4	
128	79	5.8	11.262	-S660	40-P90/M4	
127	80	1.6	11.413	-S130	40-P90/M4	
125	82	4.9	11.569	-S400	40-P90/M4	
122	84	2.6	11.876	-S220	40-P90/M4	
117	87	5.9	12.320	-S660	40-P90/M4	
113	91	5.8	12.832	-S660	40-P90/M4	
112	91	1.4	12.907	-S130	40-P90/M4	
111	92	2.4	12.992	-S220	40-P90/M4	
110	92	4.3	13.105	-S400	40-P90/M4	
107	95	2.3	13.456	-S220	40-P90/M4	
103	99	5.9	14.037	-S660	40-P90/M4	
101	101	4.0	14.336	-S400	40-P90/M4	
99	103	1.3	14.606	-S130	40-P90/M4	
98	104	2.1	14.720	-S220	40-P90/M4	
98	104	3.8	14.806	-S400	40-P90/M4	
92	111	5.5	15.714	-S660	40-P90/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 1.1 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
90	113	1.2	15.979	-S130	40-P90/M4	
90	113	5.8	16.000	-S950	40-P90/M4	
89	114	3.5	16.197	-S400	40-P90/M4	
87	117	1.9	16.571	-S220	40-P90/M4	
81	126	5.8	17.905	-S950	40-P90/M4	
81	126	5.2	17.905	-S660	40-P90/M4	
80	127	1.0	18.069	-S130	40-P90/M4	
79	129	3.1	18.286	-S400	40-P90/M4	
77	132	1.7	18.776	-S220	40-P90/M4	
75	136	4.8	19.250	-S660	40-P90/M4	
71	143	1.5	20.300	-S220	40-P90/M4	
71	144	0.9	20.381	-S130	40-P90/M4	
70	146	2.8	20.659	-S400	40-P90/M4	
66	155	4.3	21.933	-S660	40-P90/M4	
65	158	2.5	22.400	-S400	40-P90/M4	
63	162	1.4	23.000	-S220	40-P90/M4	
58	177	3.3	25.056	-S660	40-P90/M4	
57	178	2.2	25.308	-S400	40-P90/M4	
57	180	4.8	25.511	-S950	40-P90/M4	
55	186	1.2	26.422	-S220	40-P90/M4	
51	201	4.7	28.548	-S950	40-P90/M4	
51	201	3.3	28.548	-S660	40-P90/M4	
50	206	2.0	29.156	-S400	40-P90/M4	
48	211	1.0	29.937	-S220	40-P90/M4	
46	220	3.0	31.167	-S660	40-P90/M4	
46	221	4.0	31.267	-S950	40-P90/M4	
44	232	1.0	32.867	-S220	40-P90/M4	
44	232	1.7	32.940	-S400	40-P90/M4	
41	247	3.9	34.989	-S950	40-P90/M4	
41	250	2.6	35.511	-S660	40-P90/M4	
40	256	1.6	36.267	-S400	40-P90/M4	
39	263	0.8	37.238	-S220	40-P90/M4	
36	284	1.9	40.333	-S660	40-P90/M4	
35	289	1.4	40.974	-S400	40-P90/M4	
35	290	3.3	41.067	-S950	40-P90/M4	
33	313	4.0	44.431	-S2100	40-P90/M4	
31	324	2.9	45.956	-S950	40-P90/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 1.1 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
31	324	1.9	45.956	-S660	40-P90/M4	
30	345	1.3	48.950	-S660	40-P90/M4	
29	348	4.0	49.378	-S2100	40-P90/M4	
29	352	2.6	49.840	-S950	40-P90/M4	
28	369	4.0	52.311	-S3100	40-P90/M4	
27	380	3.5	53.924	-S2100	40-P90/M4	
26	393	2.4	55.773	-S950	40-P90/M4	
26	393	1.3	55.773	-S660	40-P90/M4	
24	417	4.0	59.156	-S3100	40-P90/M4	
24	423	3.5	59.927	-S2100	40-P90/M4	
23	444	1.5	63.000	-S950	40-P90/M4	
23	448	3.5	63.487	-S3100	40-P90/M4	
21	481	2.7	68.162	-S2100	40-P90/M4	
21	497	1.5	70.500	-S950	40-P90/M4	
20	506	3.5	71.793	-S3100	40-P90/M4	
19	534	2.7	75.750	-S2100	40-P90/M4	

3-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
29	346	1.8	49.867	-S660	40-P90/M4	
29	348	2.7	50.027	-S950	40-P90/M4	
26	389	2.4	55.982	-S950	40-P90/M4	
25	395	1.7	56.818	-S660	40-P90/M4	
23	443	1.5	63.817	-S660	40-P90/M4	
23	445	2.1	64.022	-S950	40-P90/M4	
21	485	1.4	69.813	-S660	40-P90/M4	
21	487	2.0	70.037	-S950	40-P90/M4	
21	488	4.2	70.302	-S2100	40-P90/M4	
20	498	1.9	71.644	-S950	40-P90/M4	
20	505	1.3	72.713	-S660	40-P90/M4	
19	534	3.8	76.907	-S2100	40-P90/M4	
19	543	3.8	78.128	-S2100	40-P90/M4	
18	544	1.7	78.375	-S950	40-P90/M4	
18	553	1.2	79.545	-S660	40-P90/M4	
18	575	5.4	82.769	-S3100	40-P90/M4	
17	594	3.5	85.468	-S2100	40-P90/M4	
16	619	1.1	89.048	-S660	40-P90/M4	
16	621	1.5	89.333	-S950	40-P90/M4	
16	629	4.9	90.546	-S3100	40-P90/M4	
16	645	5.8	92.825	-S4500	40-P90/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 1.1 \text{ kW}$

3-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
15	650	4.8	93.599	-S3100	40-P90/M4	
15	681	3.0	98.095	-S2100	40-P90/M4	
15	694	1.4	99.968	-S950	40-P90/M4	
14	705	0.9	101.460	-S660	40-P90/M4	
14	711	4.4	102.393	-S3100	40-P90/M4	
14	720	5.8	103.619	-S4500	40-P90/M4	
13	757	2.7	109.016	-S2100	40-P90/M4	
13	758	0.9	109.083	-S660	40-P90/M4	
13	760	1.3	109.433	-S950	40-P90/M4	
13	802	3.9	115.492	-S3100	40-P90/M4	
12	835	2.5	120.167	-S2100	40-P90/M4	
12	851	1.1	122.461	-S950	40-P90/M4	
11	907	3.4	130.603	-S3100	40-P90/M4	
11	928	2.2	133.544	-S2100	40-P90/M4	
10	983	3.2	141.478	-S3100	40-P90/M4	
10	990	1.0	142.437	-S950	40-P90/M4	
9.8	1028	4.4	148.005	-S4500	40-P90/M4	
9.2	1087	1.9	156.407	-S2100	40-P90/M4	
9.1	1107	0.9	159.394	-S950	40-P90/M4	
9.0	1111	2.8	159.989	-S3100	40-P90/M4	
8.7	1148	3.9	165.215	-S4500	40-P90/M4	
8.3	1208	1.7	173.820	-S2100	40-P90/M4	
8.0	1260	3.6	181.396	-S4500	40-P90/M4	
7.8	1279	2.4	184.146	-S3100	40-P90/M4	
7.4	1352	1.5	194.556	-S2100	40-P90/M4	
7.1	1407	3.2	202.489	-S4500	40-P90/M4	
6.9	1447	2.1	208.240	-S3100	40-P90/M4	
6.7	1502	1.4	216.215	-S2100	40-P90/M4	
6.3	1591	2.0	229.059	-S3100	40-P90/M4	
6.1	1655	2.7	238.252	-S4500	40-P90/M4	
5.7	1749	1.2	251.778	-S2100	40-P90/M4	
5.6	1800	1.7	259.030	-S3100	40-P90/M4	
5.4	1848	2.4	265.956	-S4500	40-P90/M4	
5.2	1944	1.1	279.807	-S2100	40-P90/M4	
5.0	2009	2.2	289.151	-S4500	40-P90/M4	
4.9	2059	1.5	296.430	-S3100	40-P90/M4	
4.7	2123	1.0	305.567	-S2100	40-P90/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 1.1 \text{ kW}$

3-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
4.5	2242	2.0	322.773	-S4500	40-P90/M4	
4.3	2329	1.3	335.215	-S3100	40-P90/M4	
4.3	2359	0.9	339.584	-S2100	40-P90/M4	
4.0	2499	1.2	359.758	-S3100	40-P90/M4	
4.0	2539	1.6	365.500	-S4500	40-P90/M4	
3.6	2826	1.1	406.829	-S3100	40-P90/M4	
3.5	2834	1.6	408.000	-S4500	40-P90/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 1.5 \text{ kW}$

2-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
430	32	4.3	3.339	-S400	40-P90/L4	
392	35	1.8	3.661	-S130	40-P90/L4	
374	37	4.3	3.840	-S220	40-P90/L4	
313	44	4.3	4.579	-S400	40-P90/L4	
286	49	1.6	5.021	-S130	40-P90/L4	
273	51	3.6	5.267	-S220	40-P90/L4	
245	57	4.0	5.860	-S400	40-P90/L4	
224	62	4.0	6.411	-S400	40-P90/L4	
223	62	1.4	6.425	-S130	40-P90/L4	
212	66	3.4	6.767	-S220	40-P90/L4	
209	67	4.2	6.880	-S660	40-P90/L4	
204	68	1.4	7.029	-S130	40-P90/L4	
192	72	4.3	7.467	-S400	40-P90/L4	
187	74	2.9	7.667	-S220	40-P90/L4	
186	75	4.2	7.702	-S950	40-P90/L4	
172	81	1.4	8.322	-S130	40-P90/L4	
170	82	4.3	8.436	-S400	40-P90/L4	
155	90	2.5	9.280	-S220	40-P90/L4	
153	91	1.4	9.411	-S130	40-P90/L4	
140	99	4.0	10.240	-S400	40-P90/L4	
137	102	2.2	10.514	-S220	40-P90/L4	
127	109	4.2	11.262	-S660	40-P90/L4	
126	111	1.2	11.413	-S130	40-P90/L4	
124	112	3.6	11.569	-S400	40-P90/L4	
121	115	1.9	11.876	-S220	40-P90/L4	
117	119	4.3	12.320	-S660	40-P90/L4	
112	124	4.2	12.832	-S660	40-P90/L4	
111	125	1.0	12.907	-S130	40-P90/L4	
111	126	1.8	12.992	-S220	40-P90/L4	
110	127	3.2	13.105	-S400	40-P90/L4	
107	130	1.7	13.456	-S220	40-P90/L4	
102	136	4.3	14.037	-S660	40-P90/L4	
100	139	2.9	14.336	-S400	40-P90/L4	
98	141	0.9	14.606	-S130	40-P90/L4	
98	143	1.5	14.720	-S220	40-P90/L4	
97	143	2.8	14.806	-S400	40-P90/L4	
91	152	4.0	15.714	-S660	40-P90/L4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 1.5 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
90	155	0.8	15.979	-S130	40-P90/L4	
90	155	4.2	16.000	-S950	40-P90/L4	
89	157	2.6	16.197	-S400	40-P90/L4	
87	160	1.4	16.571	-S220	40-P90/L4	
80	173	4.2	17.905	-S950	40-P90/L4	
80	173	3.8	17.905	-S660	40-P90/L4	
79	177	2.3	18.286	-S400	40-P90/L4	
76	182	1.2	18.776	-S220	40-P90/L4	
75	186	3.5	19.250	-S660	40-P90/L4	
71	197	1.1	20.300	-S220	40-P90/L4	
70	200	2.0	20.659	-S400	40-P90/L4	
65	212	3.1	21.933	-S660	40-P90/L4	
64	217	1.8	22.400	-S400	40-P90/L4	
62	223	1.0	23.000	-S220	40-P90/L4	
57	243	2.4	25.056	-S660	40-P90/L4	
57	245	1.6	25.308	-S400	40-P90/L4	
56	247	3.5	25.511	-S950	40-P90/L4	
54	256	0.9	26.422	-S220	40-P90/L4	
50	276	3.4	28.548	-S950	40-P90/L4	
50	276	2.4	28.548	-S660	40-P90/L4	
49	282	1.4	29.156	-S400	40-P90/L4	
46	302	2.2	31.167	-S660	40-P90/L4	
46	303	2.9	31.267	-S950	40-P90/L4	
44	319	1.3	32.940	-S400	40-P90/L4	
41	339	2.8	34.989	-S950	40-P90/L4	
40	344	1.9	35.511	-S660	40-P90/L4	
40	351	1.1	36.267	-S400	40-P90/L4	
36	391	1.4	40.333	-S660	40-P90/L4	
35	397	1.0	40.974	-S400	40-P90/L4	
35	398	2.4	41.067	-S950	40-P90/L4	
32	430	2.9	44.431	-S2100	40-P90/L4	
31	445	2.1	45.956	-S950	40-P90/L4	
31	445	1.4	45.956	-S660	40-P90/L4	
29	474	0.9	48.950	-S660	40-P90/L4	
29	478	2.9	49.378	-S2100	40-P90/L4	
29	483	1.9	49.840	-S950	40-P90/L4	
27	507	2.9	52.311	-S3100	40-P90/L4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 1.5 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
27	522	2.6	53.924	-S2100	40-P90/L4	
26	540	1.8	55.773	-S950	40-P90/L4	
26	540	0.9	55.773	-S660	40-P90/L4	
24	573	2.9	59.156	-S3100	40-P90/L4	
24	580	2.6	59.927	-S2100	40-P90/L4	
23	610	1.1	63.000	-S950	40-P90/L4	
23	615	2.6	63.487	-S3100	40-P90/L4	
21	660	2.0	68.162	-S2100	40-P90/L4	
20	683	1.1	70.500	-S950	40-P90/L4	
20	695	2.6	71.793	-S3100	40-P90/L4	
19	734	2.0	75.750	-S2100	40-P90/L4	

3-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
29	476	1.3	49.867	-S660	40-P90/L4	
29	477	2.0	50.027	-S950	40-P90/L4	
26	534	1.8	55.982	-S950	40-P90/L4	
25	542	1.2	56.818	-S660	40-P90/L4	
23	609	1.1	63.817	-S660	40-P90/L4	
22	611	1.6	64.022	-S950	40-P90/L4	
21	666	1.0	69.813	-S660	40-P90/L4	
21	668	1.4	70.037	-S950	40-P90/L4	
20	671	3.1	70.302	-S2100	40-P90/L4	
20	683	1.4	71.644	-S950	40-P90/L4	
20	694	1.0	72.713	-S660	40-P90/L4	
19	734	2.8	76.907	-S2100	40-P90/L4	
18	745	2.8	78.128	-S2100	40-P90/L4	
18	748	1.3	78.375	-S950	40-P90/L4	
18	759	0.9	79.545	-S660	40-P90/L4	
17	790	3.9	82.769	-S3100	40-P90/L4	
17	815	2.5	85.468	-S2100	40-P90/L4	
16	852	1.1	89.333	-S950	40-P90/L4	
16	864	3.6	90.546	-S3100	40-P90/L4	
16	885	4.2	92.825	-S4500	40-P90/L4	
15	893	3.5	93.599	-S3100	40-P90/L4	
15	936	2.2	98.095	-S2100	40-P90/L4	
14	954	1.0	99.968	-S950	40-P90/L4	
14	977	3.2	102.393	-S3100	40-P90/L4	
14	988	4.2	103.619	-S4500	40-P90/L4	
13	1040	2.0	109.016	-S2100	40-P90/L4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 1.5 \text{ kW}$

3-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
13	1044	0.9	109.433	-S950	40-P90/L4	
12	1102	2.8	115.492	-S3100	40-P90/L4	
12	1146	1.8	120.167	-S2100	40-P90/L4	
12	1168	0.8	122.461	-S950	40-P90/L4	
11	1246	2.5	130.603	-S3100	40-P90/L4	
11	1274	1.6	133.544	-S2100	40-P90/L4	
10	1350	2.3	141.478	-S3100	40-P90/L4	
9.7	1412	3.2	148.005	-S4500	40-P90/L4	
9.2	1492	1.4	156.407	-S2100	40-P90/L4	
9.0	1526	2.0	159.989	-S3100	40-P90/L4	
8.7	1576	2.9	165.215	-S4500	40-P90/L4	
8.3	1658	1.2	173.820	-S2100	40-P90/L4	
7.9	1730	2.6	181.396	-S4500	40-P90/L4	
7.8	1757	1.8	184.146	-S3100	40-P90/L4	
7.4	1856	1.1	194.556	-S2100	40-P90/L4	
7.1	1932	2.3	202.489	-S4500	40-P90/L4	
6.9	1986	1.6	208.240	-S3100	40-P90/L4	
6.6	2063	1.0	216.215	-S2100	40-P90/L4	
6.3	2185	1.4	229.059	-S3100	40-P90/L4	
6.0	2273	2.0	238.252	-S4500	40-P90/L4	
5.7	2402	0.9	251.778	-S2100	40-P90/L4	
5.5	2471	1.3	259.030	-S3100	40-P90/L4	
5.4	2537	1.8	265.956	-S4500	40-P90/L4	
5.0	2758	1.6	289.151	-S4500	40-P90/L4	
4.8	2828	1.1	296.430	-S3100	40-P90/L4	
4.4	3079	1.5	322.773	-S4500	40-P90/L4	
4.3	3198	1.0	335.215	-S3100	40-P90/L4	
4.0	3432	0.9	359.758	-S3100	40-P90/L4	
3.9	3487	1.1	365.500	-S4500	40-P90/L4	
3.5	3892	1.1	408.000	-S4500	40-P90/L4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 2.2 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
433	47	4.3	3.339	-S400	40-P100/M4	
377	54	3.3	3.840	-S220	40-P100/M4	
369	55	5.6	3.920	-S660	40-P100/M4	
316	65	3.8	4.579	-S400	40-P100/M4	
275	74	2.4	5.267	-S220	40-P100/M4	
269	76	5.6	5.376	-S660	40-P100/M4	
268	76	5.7	5.391	-S950	40-P100/M4	
247	83	3.1	5.860	-S400	40-P100/M4	
240	85	5.6	6.038	-S950	40-P100/M4	
226	90	2.9	6.411	-S400	40-P100/M4	
225	90	5.6	6.417	-S660	40-P100/M4	
214	95	2.3	6.767	-S220	40-P100/M4	
210	97	4.7	6.880	-S660	40-P100/M4	
198	103	5.6	7.311	-S660	40-P100/M4	
194	105	3.5	7.467	-S400	40-P100/M4	
189	108	2.0	7.667	-S220	40-P100/M4	
188	109	4.7	7.702	-S950	40-P100/M4	
175	117	5.7	8.272	-S2100	40-P100/M4	
171	119	3.2	8.436	-S400	40-P100/M4	
164	124	5.1	8.800	-S660	40-P100/M4	
162	126	5.7	8.917	-S3100	40-P100/M4	
156	131	1.7	9.280	-S220	40-P100/M4	
144	141	4.4	10.027	-S660	40-P100/M4	
141	144	2.8	10.240	-S400	40-P100/M4	
138	148	1.5	10.514	-S220	40-P100/M4	
129	158	5.7	11.200	-S950	40-P100/M4	
128	159	4.2	11.262	-S660	40-P100/M4	
125	163	2.5	11.569	-S400	40-P100/M4	
122	167	1.3	11.876	-S220	40-P100/M4	
117	174	3.8	12.320	-S660	40-P100/M4	
115	177	5.4	12.544	-S950	40-P100/M4	
113	181	3.7	12.832	-S660	40-P100/M4	
111	183	1.2	12.992	-S220	40-P100/M4	
110	185	2.2	13.105	-S400	40-P100/M4	
108	190	1.2	13.456	-S220	40-P100/M4	
103	198	4.8	14.037	-S950	40-P100/M4	
103	198	3.3	14.037	-S660	40-P100/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 2.2 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
101	202	2.0	14.336	-S400	40-P100/M4	
98	207	1.1	14.720	-S220	40-P100/M4	
98	209	1.9	14.806	-S400	40-P100/M4	
92	222	3.0	15.714	-S660	40-P100/M4	
90	226	4.2	16.000	-S950	40-P100/M4	
89	228	1.8	16.197	-S400	40-P100/M4	
87	234	0.9	16.571	-S220	40-P100/M4	
85	240	5.7	17.022	-S2100	40-P100/M4	
81	252	3.8	17.905	-S950	40-P100/M4	
81	252	2.6	17.905	-S660	40-P100/M4	
79	258	1.6	18.286	-S400	40-P100/M4	
77	265	0.8	18.776	-S220	40-P100/M4	
76	267	5.7	18.917	-S2100	40-P100/M4	
75	271	2.4	19.250	-S660	40-P100/M4	
74	276	3.4	19.600	-S950	40-P100/M4	
72	283	5.7	20.041	-S3100	40-P100/M4	
70	291	1.4	20.659	-S400	40-P100/M4	
66	309	3.1	21.933	-S950	40-P100/M4	
66	309	2.1	21.933	-S660	40-P100/M4	
65	316	1.3	22.400	-S400	40-P100/M4	
64	319	5.7	22.663	-S3100	40-P100/M4	
58	353	1.6	25.056	-S660	40-P100/M4	
57	357	1.1	25.308	-S400	40-P100/M4	
57	360	2.6	25.511	-S950	40-P100/M4	
51	399	4.1	28.275	-S2100	40-P100/M4	
51	402	2.4	28.548	-S950	40-P100/M4	
51	402	1.6	28.548	-S660	40-P100/M4	
46	439	1.5	31.167	-S660	40-P100/M4	
46	441	2.2	31.267	-S950	40-P100/M4	
46	443	4.1	31.422	-S2100	40-P100/M4	
43	469	4.1	33.289	-S3100	40-P100/M4	
42	484	3.5	34.333	-S2100	40-P100/M4	
41	493	1.9	34.989	-S950	40-P100/M4	
41	501	1.3	35.511	-S660	40-P100/M4	
38	531	4.1	37.644	-S3100	40-P100/M4	
38	538	3.5	38.156	-S2100	40-P100/M4	
36	570	3.5	40.422	-S3100	40-P100/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 2.2 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
35	579	1.6	41.067	-S950	40-P100/M4	
34	593	3.5	42.044	-S4500	40-P100/M4	
33	626	2.8	44.431	-S2100	40-P100/M4	
32	644	3.5	45.711	-S3100	40-P100/M4	
32	648	1.5	45.956	-S950	40-P100/M4	
31	662	3.5	46.933	-S4500	40-P100/M4	
29	696	2.8	49.378	-S2100	40-P100/M4	
29	703	1.3	49.840	-S950	40-P100/M4	
28	719	2.9	51.027	-S4500	40-P100/M4	
28	737	2.8	52.311	-S3100	40-P100/M4	
27	760	2.3	53.924	-S2100	40-P100/M4	
26	786	1.2	55.773	-S950	40-P100/M4	
25	803	2.9	56.960	-S4500	40-P100/M4	
24	834	2.8	59.156	-S3100	40-P100/M4	
24	845	2.3	59.927	-S2100	40-P100/M4	
23	895	2.3	63.487	-S3100	40-P100/M4	
22	909	2.3	64.500	-S4500	40-P100/M4	
21	961	1.5	68.162	-S2100	40-P100/M4	
20	1012	2.3	71.793	-S3100	40-P100/M4	
20	1015	2.3	72.000	-S4500	40-P100/M4	
19	1068	1.5	75.750	-S2100	40-P100/M4	

3-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
36	556	3.5	40.056	-S2100	40-P100/M4	
33	618	3.3	44.515	-S2100	40-P100/M4	
31	655	4.5	47.159	-S3100	40-P100/M4	
29	695	1.4	50.027	-S950	40-P100/M4	
27	740	4.1	53.330	-S3100	40-P100/M4	
26	763	2.7	54.933	-S2100	40-P100/M4	
26	777	1.2	55.982	-S950	40-P100/M4	
24	848	2.4	61.049	-S2100	40-P100/M4	
23	889	1.1	64.022	-S950	40-P100/M4	
22	898	3.5	64.676	-S3100	40-P100/M4	
22	902	5.0	64.978	-S4500	40-P100/M4	
21	972	1.0	70.037	-S950	40-P100/M4	
21	976	2.1	70.302	-S2100	40-P100/M4	
20	995	1.0	71.644	-S950	40-P100/M4	
20	1007	4.5	72.533	-S4500	40-P100/M4	
20	1010	4.5	72.775	-S4500	40-P100/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 2.2 \text{ kW}$

3-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
20	1015	3.1	73.138	-S3100	40-P100/M4	
19	1068	1.9	76.907	-S2100	40-P100/M4	
19	1085	1.9	78.128	-S2100	40-P100/M4	
18	1088	0.9	78.375	-S950	40-P100/M4	
18	1128	4.0	81.237	-S4500	40-P100/M4	
18	1149	2.7	82.769	-S3100	40-P100/M4	
17	1187	1.7	85.468	-S2100	40-P100/M4	
16	1257	2.5	90.546	-S3100	40-P100/M4	
16	1289	3.5	92.825	-S4500	40-P100/M4	
15	1300	2.4	93.599	-S3100	40-P100/M4	
15	1362	1.5	98.095	-S2100	40-P100/M4	
14	1422	2.2	102.393	-S3100	40-P100/M4	
14	1439	3.1	103.619	-S4500	40-P100/M4	
13	1514	1.4	109.016	-S2100	40-P100/M4	
13	1579	2.9	113.711	-S4500	40-P100/M4	
13	1604	1.9	115.492	-S3100	40-P100/M4	
12	1668	1.2	120.167	-S2100	40-P100/M4	
11	1762	2.6	126.933	-S4500	40-P100/M4	
11	1813	1.7	130.603	-S3100	40-P100/M4	
11	1854	1.1	133.544	-S2100	40-P100/M4	
10	1964	1.6	141.478	-S3100	40-P100/M4	
9.8	2055	2.2	148.005	-S4500	40-P100/M4	
9.2	2172	0.9	156.407	-S2100	40-P100/M4	
9.0	2221	1.4	159.989	-S3100	40-P100/M4	
8.8	2294	2.0	165.215	-S4500	40-P100/M4	
8.3	2413	0.9	173.820	-S2100	40-P100/M4	
8.0	2519	1.8	181.396	-S4500	40-P100/M4	
7.9	2557	1.2	184.146	-S3100	40-P100/M4	
7.1	2811	1.6	202.489	-S4500	40-P100/M4	
6.9	2891	1.1	208.240	-S3100	40-P100/M4	
6.3	3180	1.0	229.059	-S3100	40-P100/M4	
6.1	3308	1.4	238.252	-S4500	40-P100/M4	
5.6	3597	0.9	259.030	-S3100	40-P100/M4	
5.4	3693	1.2	265.956	-S4500	40-P100/M4	
5.0	4015	1.1	289.151	-S4500	40-P100/M4	
4.5	4482	1.0	322.773	-S4500	40-P100/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 3.0 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
435	64	3.2	3.339	-S400	40-P100/L4	
378	73	2.4	3.840	-S220	40-P100/L4	
371	75	4.1	3.920	-S660	40-P100/L4	
317	88	2.8	4.579	-S400	40-P100/L4	
276	101	1.8	5.267	-S220	40-P100/L4	
270	103	4.1	5.376	-S660	40-P100/L4	
270	103	4.2	5.391	-S950	40-P100/L4	
248	112	2.3	5.860	-S400	40-P100/L4	
241	116	4.1	6.038	-S950	40-P100/L4	
227	123	2.1	6.411	-S400	40-P100/L4	
226	123	4.1	6.417	-S660	40-P100/L4	
215	129	1.7	6.767	-S220	40-P100/L4	
211	132	3.5	6.880	-S660	40-P100/L4	
199	140	4.1	7.311	-S660	40-P100/L4	
195	143	2.6	7.467	-S400	40-P100/L4	
190	147	1.5	7.667	-S220	40-P100/L4	
189	147	3.5	7.702	-S950	40-P100/L4	
176	158	4.2	8.272	-S2100	40-P100/L4	
172	161	2.4	8.436	-S400	40-P100/L4	
165	168	3.8	8.800	-S660	40-P100/L4	
163	171	4.2	8.917	-S3100	40-P100/L4	
157	178	1.2	9.280	-S220	40-P100/L4	
145	192	3.3	10.027	-S660	40-P100/L4	
142	196	2.0	10.240	-S400	40-P100/L4	
138	201	1.1	10.514	-S220	40-P100/L4	
130	214	4.2	11.200	-S950	40-P100/L4	
129	215	3.1	11.262	-S660	40-P100/L4	
126	221	1.8	11.569	-S400	40-P100/L4	
122	227	1.0	11.876	-S220	40-P100/L4	
118	236	2.8	12.320	-S660	40-P100/L4	
116	240	4.0	12.544	-S950	40-P100/L4	
113	245	2.7	12.832	-S660	40-P100/L4	
112	249	0.9	12.992	-S220	40-P100/L4	
111	251	1.6	13.105	-S400	40-P100/L4	
108	257	0.9	13.456	-S220	40-P100/L4	
104	269	3.5	14.037	-S950	40-P100/L4	
104	269	2.5	14.037	-S660	40-P100/L4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 3.0 \text{ kW}$

2-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
101	274	1.5	14.336	-S400	40-P100/L4	
98	283	1.4	14.806	-S400	40-P100/L4	
93	301	2.2	15.714	-S660	40-P100/L4	
91	306	3.1	16.000	-S950	40-P100/L4	
90	310	1.3	16.197	-S400	40-P100/L4	
85	326	4.2	17.022	-S2100	40-P100/L4	
81	343	2.8	17.905	-S950	40-P100/L4	
81	343	1.9	17.905	-S660	40-P100/L4	
80	350	1.1	18.286	-S400	40-P100/L4	
77	362	4.2	18.917	-S2100	40-P100/L4	
76	368	1.8	19.250	-S660	40-P100/L4	
74	375	2.5	19.600	-S950	40-P100/L4	
73	383	4.2	20.041	-S3100	40-P100/L4	
70	395	1.0	20.659	-S400	40-P100/L4	
66	420	2.3	21.933	-S950	40-P100/L4	
66	420	1.6	21.933	-S660	40-P100/L4	
65	428	0.9	22.400	-S400	40-P100/L4	
64	434	4.2	22.663	-S3100	40-P100/L4	
58	479	1.2	25.056	-S660	40-P100/L4	
57	484	0.8	25.308	-S400	40-P100/L4	
57	488	2.0	25.511	-S950	40-P100/L4	
51	541	3.0	28.275	-S2100	40-P100/L4	
51	546	1.7	28.548	-S950	40-P100/L4	
51	546	1.2	28.548	-S660	40-P100/L4	
47	596	1.1	31.167	-S660	40-P100/L4	
47	598	1.6	31.267	-S950	40-P100/L4	
46	601	3.0	31.422	-S2100	40-P100/L4	
44	637	3.0	33.289	-S3100	40-P100/L4	
42	657	2.6	34.333	-S2100	40-P100/L4	
42	669	1.4	34.989	-S950	40-P100/L4	
41	679	1.0	35.511	-S660	40-P100/L4	
39	720	3.0	37.644	-S3100	40-P100/L4	
38	730	2.6	38.156	-S2100	40-P100/L4	
36	773	2.6	40.422	-S3100	40-P100/L4	
35	786	1.2	41.067	-S950	40-P100/L4	
35	804	2.6	42.044	-S4500	40-P100/L4	
33	850	2.1	44.431	-S2100	40-P100/L4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 3.0 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
32	874	2.6	45.711	-S3100	40-P100/L4	
32	879	1.1	45.956	-S950	40-P100/L4	
31	898	2.6	46.933	-S4500	40-P100/L4	
29	945	2.1	49.378	-S2100	40-P100/L4	
29	953	1.0	49.840	-S950	40-P100/L4	
29	976	2.1	51.027	-S4500	40-P100/L4	
28	1001	2.1	52.311	-S3100	40-P100/L4	
27	1032	1.7	53.924	-S2100	40-P100/L4	
26	1067	0.9	55.773	-S950	40-P100/L4	
26	1090	2.1	56.960	-S4500	40-P100/L4	
25	1132	2.1	59.156	-S3100	40-P100/L4	
24	1146	1.7	59.927	-S2100	40-P100/L4	
23	1214	1.7	63.487	-S3100	40-P100/L4	
23	1234	1.7	64.500	-S4500	40-P100/L4	
21	1304	1.1	68.162	-S2100	40-P100/L4	
20	1373	1.7	71.793	-S3100	40-P100/L4	
20	1377	1.7	72.000	-S4500	40-P100/L4	
19	1449	1.1	75.750	-S2100	40-P100/L4	

3-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
36	755	2.6	40.056	-S2100	40-P100/L4	
33	839	2.4	44.515	-S2100	40-P100/L4	
31	889	3.3	47.159	-S3100	40-P100/L4	
29	943	1.0	50.027	-S950	40-P100/L4	
27	1005	3.0	53.330	-S3100	40-P100/L4	
27	1035	2.0	54.933	-S2100	40-P100/L4	
26	1055	0.9	55.982	-S950	40-P100/L4	
24	1150	1.8	61.049	-S2100	40-P100/L4	
23	1219	2.5	64.676	-S3100	40-P100/L4	
22	1224	3.7	64.978	-S4500	40-P100/L4	
21	1325	1.6	70.302	-S2100	40-P100/L4	
20	1367	3.3	72.533	-S4500	40-P100/L4	
20	1371	3.3	72.775	-S4500	40-P100/L4	
20	1378	2.3	73.138	-S3100	40-P100/L4	
19	1449	1.4	76.907	-S2100	40-P100/L4	
19	1472	1.4	78.128	-S2100	40-P100/L4	
18	1531	2.9	81.237	-S4500	40-P100/L4	
18	1560	2.0	82.769	-S3100	40-P100/L4	
17	1610	1.3	85.468	-S2100	40-P100/L4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 3.0 \text{ kW}$

3-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
16	1706	1.8	90.546	-S3100	40-P100/L4	
16	1749	2.6	92.825	-S4500	40-P100/L4	
16	1764	1.8	93.599	-S3100	40-P100/L4	
15	1848	1.1	98.095	-S2100	40-P100/L4	
14	1929	1.6	102.393	-S3100	40-P100/L4	
14	1952	2.3	103.619	-S4500	40-P100/L4	
13	2054	1.0	109.016	-S2100	40-P100/L4	
13	2143	2.1	113.711	-S4500	40-P100/L4	
13	2176	1.4	115.492	-S3100	40-P100/L4	
12	2264	0.9	120.167	-S2100	40-P100/L4	
11	2392	1.9	126.933	-S4500	40-P100/L4	
11	2461	1.3	130.603	-S3100	40-P100/L4	
11	2516	0.8	133.544	-S2100	40-P100/L4	
10	2666	1.2	141.478	-S3100	40-P100/L4	
9.8	2789	1.6	148.005	-S4500	40-P100/L4	
9.1	3015	1.0	159.989	-S3100	40-P100/L4	
8.8	3113	1.5	165.215	-S4500	40-P100/L4	
8.0	3418	1.3	181.396	-S4500	40-P100/L4	
7.9	3470	0.9	184.146	-S3100	40-P100/L4	
7.2	3815	1.2	202.489	-S4500	40-P100/L4	
6.1	4489	1.0	238.252	-S4500	40-P100/L4	
5.5	5011	0.9	265.956	-S4500	40-P100/L4	
5.0	5448	0.8	289.151	-S4500	40-P100/L4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 4.0 \text{ kW}$

2-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
430	86	2.4	3.339	-S400	40-P112/M4	
366	101	3.4	3.920	-S660	40-P112/M4	
328	113	4.2	4.380	-S950	40-P112/M4	
313	118	2.1	4.579	-S400	40-P112/M4	
267	139	3.4	5.376	-S660	40-P112/M4	
266	139	3.6	5.391	-S950	40-P112/M4	
245	151	1.7	5.860	-S400	40-P112/M4	
238	156	4.7	6.029	-S2100	40-P112/M4	
238	156	3.4	6.038	-S950	40-P112/M4	
224	166	1.6	6.411	-S400	40-P112/M4	
224	166	3.4	6.417	-S660	40-P112/M4	
221	168	4.7	6.499	-S3100	40-P112/M4	
209	177	4.3	6.870	-S2100	40-P112/M4	
209	178	2.8	6.880	-S660	40-P112/M4	
196	189	3.1	7.311	-S660	40-P112/M4	
194	191	4.3	7.406	-S3100	40-P112/M4	
192	193	1.9	7.467	-S400	40-P112/M4	
186	199	2.5	7.702	-S950	40-P112/M4	
174	214	3.8	8.272	-S2100	40-P112/M4	
170	218	1.7	8.436	-S400	40-P112/M4	
163	227	2.8	8.800	-S660	40-P112/M4	
161	230	3.8	8.917	-S3100	40-P112/M4	
158	235	4.0	9.100	-S950	40-P112/M4	
143	259	2.4	10.027	-S660	40-P112/M4	
141	263	3.6	10.183	-S950	40-P112/M4	
140	264	1.5	10.240	-S400	40-P112/M4	
131	282	3.2	10.932	-S3100	40-P112/M4	
128	289	3.3	11.200	-S950	40-P112/M4	
127	291	2.3	11.262	-S660	40-P112/M4	
124	299	1.3	11.569	-S400	40-P112/M4	
117	318	2.1	12.320	-S660	40-P112/M4	
116	320	4.7	12.406	-S2100	40-P112/M4	
114	324	2.9	12.544	-S950	40-P112/M4	
112	331	2.0	12.832	-S660	40-P112/M4	
110	338	1.2	13.105	-S400	40-P112/M4	
104	356	4.7	13.787	-S2100	40-P112/M4	
102	363	2.6	14.037	-S950	40-P112/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 4.0 \text{ kW}$

2-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
102	363	1.8	14.037	-S660	40-P112/M4	
102	365	4.3	14.137	-S2100	40-P112/M4	
100	370	1.1	14.336	-S400	40-P112/M4	
98	377	4.7	14.606	-S3100	40-P112/M4	
97	382	1.1	14.806	-S400	40-P112/M4	
91	406	4.3	15.711	-S2100	40-P112/M4	
91	406	1.6	15.714	-S660	40-P112/M4	
90	413	2.3	16.000	-S950	40-P112/M4	
89	418	1.0	16.197	-S400	40-P112/M4	
88	423	4.7	16.381	-S4500	40-P112/M4	
87	427	4.7	16.517	-S3100	40-P112/M4	
86	430	4.3	16.644	-S3100	40-P112/M4	
84	440	3.8	17.022	-S2100	40-P112/M4	
80	462	2.1	17.905	-S950	40-P112/M4	
80	462	1.4	17.905	-S660	40-P112/M4	
79	472	0.9	18.286	-S400	40-P112/M4	
79	472	4.7	18.286	-S4500	40-P112/M4	
76	486	4.3	18.822	-S3100	40-P112/M4	
76	489	3.8	18.917	-S2100	40-P112/M4	
75	497	1.3	19.250	-S660	40-P112/M4	
73	506	1.9	19.600	-S950	40-P112/M4	
72	518	3.8	20.041	-S3100	40-P112/M4	
69	539	3.2	20.869	-S2100	40-P112/M4	
65	566	1.7	21.933	-S950	40-P112/M4	
65	566	1.2	21.933	-S660	40-P112/M4	
63	585	3.8	22.663	-S3100	40-P112/M4	
62	599	3.2	23.193	-S2100	40-P112/M4	
58	635	3.2	24.570	-S3100	40-P112/M4	
57	647	0.9	25.056	-S660	40-P112/M4	
56	659	1.4	25.511	-S950	40-P112/M4	
54	683	3.2	26.437	-S4500	40-P112/M4	
52	718	3.2	27.785	-S3100	40-P112/M4	
51	730	2.5	28.275	-S2100	40-P112/M4	
50	737	1.3	28.548	-S950	40-P112/M4	
50	737	0.9	28.548	-S660	40-P112/M4	
49	762	3.2	29.511	-S4500	40-P112/M4	
46	807	1.2	31.267	-S950	40-P112/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 4.0 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
46	812	2.5	31.422	-S2100	40-P112/M4	
44	839	2.7	32.489	-S4500	40-P112/M4	
43	860	2.5	33.289	-S3100	40-P112/M4	
42	887	2.2	34.333	-S2100	40-P112/M4	
41	904	1.1	34.989	-S950	40-P112/M4	
40	937	2.7	36.267	-S4500	40-P112/M4	
38	972	2.5	37.644	-S3100	40-P112/M4	
38	985	2.1	38.156	-S2100	40-P112/M4	
36	1044	2.2	40.422	-S3100	40-P112/M4	
34	1086	2.2	42.044	-S4500	40-P112/M4	
32	1147	1.7	44.431	-S2100	40-P112/M4	
31	1181	2.2	45.711	-S3100	40-P112/M4	
31	1212	2.2	46.933	-S4500	40-P112/M4	
29	1275	1.6	49.378	-S2100	40-P112/M4	
28	1318	1.8	51.027	-S4500	40-P112/M4	
27	1351	1.7	52.311	-S3100	40-P112/M4	
27	1393	1.4	53.924	-S2100	40-P112/M4	
25	1471	1.8	56.960	-S4500	40-P112/M4	
24	1528	1.7	59.156	-S3100	40-P112/M4	
24	1548	1.3	59.927	-S2100	40-P112/M4	
23	1640	1.4	63.487	-S3100	40-P112/M4	
22	1666	1.5	64.500	-S4500	40-P112/M4	
20	1854	1.3	71.793	-S3100	40-P112/M4	
20	1859	1.4	72.000	-S4500	40-P112/M4	

3-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
38	969	4.2	38.090	-S4500	40-P112/M4	
36	1019	1.9	40.056	-S2100	40-P112/M4	
34	1082	4.0	42.520	-S4500	40-P112/M4	
32	1132	1.8	44.515	-S2100	40-P112/M4	
30	1200	2.5	47.159	-S3100	40-P112/M4	
27	1343	3.4	52.794	-S4500	40-P112/M4	
27	1357	2.3	53.330	-S3100	40-P112/M4	
26	1397	1.5	54.933	-S2100	40-P112/M4	
24	1499	3.0	58.933	-S4500	40-P112/M4	
24	1553	1.3	61.049	-S2100	40-P112/M4	
22	1645	1.9	64.676	-S3100	40-P112/M4	
22	1653	2.7	64.978	-S4500	40-P112/M4	
20	1788	1.2	70.302	-S2100	40-P112/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 4.0 \text{ kW}$

3-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
20	1845	2.4	72.533	-S4500	40-P112/M4	
20	1851	2.4	72.775	-S4500	40-P112/M4	
20	1861	1.7	73.138	-S3100	40-P112/M4	
19	1956	1.1	76.907	-S2100	40-P112/M4	
18	1987	1.0	78.128	-S2100	40-P112/M4	
18	2067	2.2	81.237	-S4500	40-P112/M4	
17	2106	1.5	82.769	-S3100	40-P112/M4	
17	2174	0.9	85.468	-S2100	40-P112/M4	
16	2303	1.4	90.546	-S3100	40-P112/M4	
16	2361	1.9	92.825	-S4500	40-P112/M4	
15	2381	1.3	93.599	-S3100	40-P112/M4	
15	2495	0.8	98.095	-S2100	40-P112/M4	
14	2605	1.2	102.393	-S3100	40-P112/M4	
14	2636	1.7	103.619	-S4500	40-P112/M4	
13	2893	1.6	113.711	-S4500	40-P112/M4	
12	2938	1.1	115.492	-S3100	40-P112/M4	
11	3229	1.4	126.933	-S4500	40-P112/M4	
11	3322	0.9	130.603	-S3100	40-P112/M4	
10	3599	0.9	141.478	-S3100	40-P112/M4	
9.7	3765	1.2	148.005	-S4500	40-P112/M4	
8.7	4203	1.1	165.215	-S4500	40-P112/M4	
7.9	4614	1.0	181.396	-S4500	40-P112/M4	
7.1	5151	0.9	202.489	-S4500	40-P112/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 5.5 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
374	136	3.1	3.920	-S660	40-P132/M4	
334	152	4.1	4.380	-S950	40-P132/M4	
273	187	2.6	5.376	-S660	40-P132/M4	
272	188	3.7	5.391	-S950	40-P132/M4	
243	210	3.5	6.038	-S950	40-P132/M4	
228	223	2.7	6.417	-S660	40-P132/M4	
213	239	2.1	6.880	-S660	40-P132/M4	
200	254	2.3	7.311	-S660	40-P132/M4	
190	268	2.9	7.702	-S950	40-P132/M4	
177	288	5.2	8.272	-S2100	40-P132/M4	
167	306	2.1	8.800	-S660	40-P132/M4	
164	310	5.9	8.917	-S3100	40-P132/M4	
161	317	3.0	9.100	-S950	40-P132/M4	
155	329	5.7	9.452	-S2100	40-P132/M4	
146	349	1.8	10.027	-S660	40-P132/M4	
144	354	2.7	10.183	-S950	40-P132/M4	
140	365	5.1	10.504	-S2100	40-P132/M4	
134	380	5.1	10.932	-S3100	40-P132/M4	
131	390	2.4	11.200	-S950	40-P132/M4	
130	392	1.7	11.262	-S660	40-P132/M4	
119	429	1.5	12.320	-S660	40-P132/M4	
118	432	4.7	12.406	-S2100	40-P132/M4	
117	436	2.2	12.544	-S950	40-P132/M4	
114	446	1.5	12.832	-S660	40-P132/M4	
106	480	4.3	13.787	-S2100	40-P132/M4	
104	488	2.0	14.037	-S950	40-P132/M4	
104	488	1.4	14.037	-S660	40-P132/M4	
104	492	4.2	14.137	-S2100	40-P132/M4	
93	546	3.8	15.711	-S2100	40-P132/M4	
93	547	1.2	15.714	-S660	40-P132/M4	
92	557	1.7	16.000	-S950	40-P132/M4	
89	575	5.4	16.517	-S3100	40-P132/M4	
88	579	5.4	16.644	-S3100	40-P132/M4	
86	592	3.5	17.022	-S2100	40-P132/M4	
82	623	1.5	17.905	-S950	40-P132/M4	
82	623	1.1	17.905	-S660	40-P132/M4	
78	655	4.7	18.822	-S3100	40-P132/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 5.5 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
77	658	3.1	18.917	-S2100	40-P132/M4	
76	670	1.0	19.250	-S660	40-P132/M4	
75	682	1.4	19.600	-S950	40-P132/M4	
73	697	4.5	20.041	-S3100	40-P132/M4	
73	698	5.7	20.067	-S4500	40-P132/M4	
70	726	2.8	20.869	-S2100	40-P132/M4	
67	763	1.3	21.933	-S950	40-P132/M4	
67	763	0.9	21.933	-S660	40-P132/M4	
65	779	5.7	22.400	-S4500	40-P132/M4	
65	788	3.9	22.663	-S3100	40-P132/M4	
63	807	2.5	23.193	-S2100	40-P132/M4	
60	855	3.6	24.570	-S3100	40-P132/M4	
57	887	1.1	25.511	-S950	40-P132/M4	
55	920	4.9	26.437	-S4500	40-P132/M4	
53	966	3.2	27.785	-S3100	40-P132/M4	
52	983	2.1	28.275	-S2100	40-P132/M4	
51	993	1.0	28.548	-S950	40-P132/M4	
50	1026	4.4	29.511	-S4500	40-P132/M4	
47	1093	1.9	31.422	-S2100	40-P132/M4	
45	1130	4.0	32.489	-S4500	40-P132/M4	
44	1158	2.7	33.289	-S3100	40-P132/M4	
43	1194	1.7	34.333	-S2100	40-P132/M4	
40	1261	3.6	36.267	-S4500	40-P132/M4	
39	1309	2.4	37.644	-S3100	40-P132/M4	
38	1327	1.5	38.156	-S2100	40-P132/M4	
36	1406	2.2	40.422	-S3100	40-P132/M4	
35	1462	2.8	42.044	-S4500	40-P132/M4	
32	1590	2.0	45.711	-S3100	40-P132/M4	
31	1632	2.7	46.933	-S4500	40-P132/M4	
29	1775	2.1	51.027	-S4500	40-P132/M4	
26	1981	2.0	56.960	-S4500	40-P132/M4	

6.4

3-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
39	1305	3.2	38.090	-S4500	40-P132/M4	
37	1372	1.4	40.056	-S2100	40-P132/M4	
35	1457	3.0	42.520	-S4500	40-P132/M4	
33	1525	1.3	44.515	-S2100	40-P132/M4	
31	1616	1.8	47.159	-S3100	40-P132/M4	
28	1809	2.5	52.794	-S4500	40-P132/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 5.5 \text{ kW}$

3-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
28	1827	1.7	53.330	-S3100	40-P132/M4	
27	1882	1.1	54.933	-S2100	40-P132/M4	
25	2019	2.2	58.933	-S4500	40-P132/M4	
24	2092	1.0	61.049	-S2100	40-P132/M4	
23	2216	1.4	64.676	-S3100	40-P132/M4	
23	2226	2.0	64.978	-S4500	40-P132/M4	
21	2409	0.9	70.302	-S2100	40-P132/M4	
20	2485	1.8	72.533	-S4500	40-P132/M4	
20	2493	1.8	72.775	-S4500	40-P132/M4	
20	2506	1.2	73.138	-S3100	40-P132/M4	
18	2783	1.6	81.237	-S4500	40-P132/M4	
18	2836	1.1	82.769	-S3100	40-P132/M4	
16	3102	1.0	90.546	-S3100	40-P132/M4	
16	3180	1.4	92.825	-S4500	40-P132/M4	
16	3207	1.0	93.599	-S3100	40-P132/M4	
14	3508	0.9	102.393	-S3100	40-P132/M4	
14	3550	1.3	103.619	-S4500	40-P132/M4	
13	3896	1.2	113.711	-S4500	40-P132/M4	
12	4349	1.0	126.933	-S4500	40-P132/M4	
9.9	5071	0.9	148.005	-S4500	40-P132/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 7.5 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
372	187	2.3	3.920	-S660	40-P132/L4	
333	208	3.0	4.380	-S950	40-P132/L4	
318	219	5.1	4.593	-S2100	40-P132/L4	
295	236	5.1	4.951	-S3100	40-P132/L4	
272	256	1.9	5.376	-S660	40-P132/L4	
271	257	2.7	5.391	-S950	40-P132/L4	
242	287	4.8	6.029	-S2100	40-P132/L4	
242	287	2.6	6.038	-S950	40-P132/L4	
228	305	2.0	6.417	-S660	40-P132/L4	
225	309	4.8	6.499	-S3100	40-P132/L4	
213	327	4.6	6.870	-S2100	40-P132/L4	
212	327	1.5	6.880	-S660	40-P132/L4	
207	336	5.1	7.056	-S4500	40-P132/L4	
200	348	1.7	7.311	-S660	40-P132/L4	
197	352	4.8	7.406	-S3100	40-P132/L4	
190	367	2.1	7.702	-S950	40-P132/L4	
177	394	3.8	8.272	-S2100	40-P132/L4	
166	419	1.5	8.800	-S660	40-P132/L4	
164	424	4.3	8.917	-S3100	40-P132/L4	
160	433	2.2	9.100	-S950	40-P132/L4	
155	450	4.2	9.452	-S2100	40-P132/L4	
146	477	1.3	10.027	-S660	40-P132/L4	
143	485	2.0	10.183	-S950	40-P132/L4	
139	500	3.7	10.504	-S2100	40-P132/L4	
134	520	3.7	10.932	-S3100	40-P132/L4	
131	530	5.1	11.128	-S3100	40-P132/L4	
130	533	1.8	11.200	-S950	40-P132/L4	
130	536	1.2	11.262	-S660	40-P132/L4	
119	586	1.1	12.320	-S660	40-P132/L4	
118	590	3.4	12.406	-S2100	40-P132/L4	
116	597	1.6	12.544	-S950	40-P132/L4	
116	599	5.0	12.584	-S3100	40-P132/L4	
114	611	1.1	12.832	-S660	40-P132/L4	
114	611	5.1	12.843	-S4500	40-P132/L4	
106	656	3.1	13.787	-S2100	40-P132/L4	
104	668	1.4	14.037	-S950	40-P132/L4	
104	668	1.0	14.037	-S660	40-P132/L4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 7.5 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
103	673	3.1	14.137	-S2100	40-P132/L4	
102	682	5.1	14.336	-S4500	40-P132/L4	
100	695	4.5	14.606	-S3100	40-P132/L4	
93	748	2.7	15.711	-S2100	40-P132/L4	
93	748	0.9	15.714	-S660	40-P132/L4	
91	762	1.3	16.000	-S950	40-P132/L4	
89	780	4.8	16.381	-S4500	40-P132/L4	
88	786	3.9	16.517	-S3100	40-P132/L4	
88	792	3.9	16.644	-S3100	40-P132/L4	
86	810	2.5	17.022	-S2100	40-P132/L4	
82	852	1.1	17.905	-S950	40-P132/L4	
80	870	4.8	18.286	-S4500	40-P132/L4	
78	896	3.5	18.822	-S3100	40-P132/L4	
77	900	2.3	18.917	-S2100	40-P132/L4	
75	933	1.0	19.600	-S950	40-P132/L4	
73	954	3.3	20.041	-S3100	40-P132/L4	
73	955	4.2	20.067	-S4500	40-P132/L4	
70	993	2.1	20.869	-S2100	40-P132/L4	
67	1044	0.9	21.933	-S950	40-P132/L4	
65	1066	4.2	22.400	-S4500	40-P132/L4	
64	1079	2.9	22.663	-S3100	40-P132/L4	
63	1104	1.9	23.193	-S2100	40-P132/L4	
59	1169	2.7	24.570	-S3100	40-P132/L4	
55	1258	3.6	26.437	-S4500	40-P132/L4	
53	1322	2.3	27.785	-S3100	40-P132/L4	
52	1346	1.5	28.275	-S2100	40-P132/L4	
50	1405	3.2	29.511	-S4500	40-P132/L4	
47	1496	1.4	31.422	-S2100	40-P132/L4	
45	1546	2.9	32.489	-S4500	40-P132/L4	
44	1584	2.0	33.289	-S3100	40-P132/L4	
43	1634	1.3	34.333	-S2100	40-P132/L4	
40	1726	2.6	36.267	-S4500	40-P132/L4	
39	1792	1.7	37.644	-S3100	40-P132/L4	
38	1816	1.1	38.156	-S2100	40-P132/L4	
36	1924	1.6	40.422	-S3100	40-P132/L4	
35	2001	2.1	42.044	-S4500	40-P132/L4	
32	2176	1.4	45.711	-S3100	40-P132/L4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 7.5 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
31	2234	2.0	46.933	-S4500	40-P132/L4	
29	2429	1.5	51.027	-S4500	40-P132/L4	
26	2711	1.5	56.960	-S4500	40-P132/L4	

3-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
38	1786	2.3	38.090	-S4500	40-P132/L4	
36	1878	1.0	40.056	-S2100	40-P132/L4	
34	1993	2.2	42.520	-S4500	40-P132/L4	
33	2087	1.0	44.515	-S2100	40-P132/L4	
31	2211	1.3	47.159	-S3100	40-P132/L4	
28	2475	1.8	52.794	-S4500	40-P132/L4	
27	2500	1.2	53.330	-S3100	40-P132/L4	
25	2763	1.6	58.933	-S4500	40-P132/L4	
23	3032	1.0	64.676	-S3100	40-P132/L4	
23	3046	1.5	64.978	-S4500	40-P132/L4	
20	3400	1.3	72.533	-S4500	40-P132/L4	
20	3412	1.3	72.775	-S4500	40-P132/L4	
20	3429	0.9	73.138	-S3100	40-P132/L4	
18	3808	1.2	81.237	-S4500	40-P132/L4	
16	4352	1.0	92.825	-S4500	40-P132/L4	
14	4858	0.9	103.619	-S4500	40-P132/L4	
13	5331	0.8	113.711	-S4500	40-P132/L4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 11.0 \text{ kW}$

2-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
320	318	4.2	4.593	-S2100	40-P160/M4	
297	343	5.4	4.951	-S3100	40-P160/M4	
244	418	3.6	6.029	-S2100	40-P160/M4	
228	447	5.5	6.450	-S4500	40-P160/M4	
226	451	4.7	6.499	-S3100	40-P160/M4	
214	476	3.1	6.870	-S2100	40-P160/M4	
208	489	5.2	7.056	-S4500	40-P160/M4	
199	513	4.4	7.406	-S3100	40-P160/M4	
178	574	2.6	8.272	-S2100	40-P160/M4	
165	618	3.7	8.917	-S3100	40-P160/M4	
156	655	2.9	9.452	-S2100	40-P160/M4	
140	728	2.6	10.504	-S2100	40-P160/M4	
135	758	3.0	10.932	-S3100	40-P160/M4	
132	772	3.9	11.128	-S3100	40-P160/M4	
125	814	5.5	11.740	-S4500	40-P160/M4	
119	860	2.4	12.406	-S2100	40-P160/M4	
117	872	3.4	12.584	-S3100	40-P160/M4	
115	890	5.1	12.843	-S4500	40-P160/M4	
112	909	5.0	13.105	-S4500	40-P160/M4	
107	956	2.1	13.787	-S2100	40-P160/M4	
104	980	2.1	14.137	-S2100	40-P160/M4	
103	994	4.5	14.336	-S4500	40-P160/M4	
101	1013	3.1	14.606	-S3100	40-P160/M4	
94	1089	1.9	15.711	-S2100	40-P160/M4	
90	1136	4.0	16.381	-S4500	40-P160/M4	
89	1145	2.7	16.517	-S3100	40-P160/M4	
88	1154	2.7	16.644	-S3100	40-P160/M4	
86	1180	1.7	17.022	-S2100	40-P160/M4	
80	1268	3.6	18.286	-S4500	40-P160/M4	
78	1305	2.4	18.822	-S3100	40-P160/M4	
78	1312	1.6	18.917	-S2100	40-P160/M4	
73	1389	2.2	20.041	-S3100	40-P160/M4	
73	1391	3.2	20.067	-S4500	40-P160/M4	
70	1447	1.4	20.869	-S2100	40-P160/M4	
66	1553	2.9	22.400	-S4500	40-P160/M4	
65	1571	2.0	22.663	-S3100	40-P160/M4	
63	1608	1.3	23.193	-S2100	40-P160/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 11.0 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
60	1703	1.8	24.570	-S3100	40-P160/M4	
56	1833	2.5	26.437	-S4500	40-P160/M4	
53	1926	1.6	27.785	-S3100	40-P160/M4	
50	2046	2.2	29.511	-S4500	40-P160/M4	
45	2252	2.0	32.489	-S4500	40-P160/M4	
41	2514	1.8	36.267	-S4500	40-P160/M4	

3-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
39	2601	1.6	38.090	-S4500	40-P160/M4	
35	2904	1.5	42.520	-S4500	40-P160/M4	
28	3605	1.3	52.794	-S4500	40-P160/M4	
25	4025	1.1	58.933	-S4500	40-P160/M4	
23	4437	1.0	64.978	-S4500	40-P160/M4	
20	4953	0.9	72.533	-S4500	40-P160/M4	
20	4970	0.9	72.775	-S4500	40-P160/M4	
18	5548	0.8	81.237	-S4500	40-P160/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 15.0 \text{ kW}$

2-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
320	434	3.1	4.593	-S2100	40-P160/L4	
299	465	4.6	4.914	-S4500	40-P160/L4	
297	468	3.9	4.951	-S3100	40-P160/L4	
244	570	2.6	6.029	-S2100	40-P160/L4	
228	610	4.0	6.450	-S4500	40-P160/L4	
226	614	3.4	6.499	-S3100	40-P160/L4	
214	650	2.3	6.870	-S2100	40-P160/L4	
208	667	3.8	7.056	-S4500	40-P160/L4	
199	700	3.2	7.406	-S3100	40-P160/L4	
178	782	1.9	8.272	-S2100	40-P160/L4	
165	843	2.7	8.917	-S3100	40-P160/L4	
164	846	4.6	8.944	-S4500	40-P160/L4	
156	894	2.1	9.452	-S2100	40-P160/L4	
147	944	4.4	9.984	-S4500	40-P160/L4	
140	993	1.9	10.504	-S2100	40-P160/L4	
135	1034	2.2	10.932	-S3100	40-P160/L4	
132	1052	2.9	11.128	-S3100	40-P160/L4	
125	1110	4.0	11.740	-S4500	40-P160/L4	
119	1173	1.7	12.406	-S2100	40-P160/L4	
117	1190	2.5	12.584	-S3100	40-P160/L4	
115	1214	3.7	12.843	-S4500	40-P160/L4	
112	1239	3.6	13.105	-S4500	40-P160/L4	
107	1303	1.6	13.787	-S2100	40-P160/L4	
104	1337	1.5	14.137	-S2100	40-P160/L4	
103	1355	3.3	14.336	-S4500	40-P160/L4	
101	1381	2.2	14.606	-S3100	40-P160/L4	
94	1485	1.4	15.711	-S2100	40-P160/L4	
90	1549	2.9	16.381	-S4500	40-P160/L4	
89	1562	2.0	16.517	-S3100	40-P160/L4	
88	1574	2.0	16.644	-S3100	40-P160/L4	
86	1609	1.3	17.022	-S2100	40-P160/L4	
80	1729	2.6	18.286	-S4500	40-P160/L4	
78	1779	1.7	18.822	-S3100	40-P160/L4	
78	1788	1.2	18.917	-S2100	40-P160/L4	
73	1895	1.6	20.041	-S3100	40-P160/L4	
73	1897	2.4	20.067	-S4500	40-P160/L4	
70	1973	1.0	20.869	-S2100	40-P160/L4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 15.0 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
66	2118	2.1	22.400	-S4500	40-P160/L4	
65	2143	1.5	22.663	-S3100	40-P160/L4	
63	2193	0.9	23.193	-S2100	40-P160/L4	
60	2323	1.3	24.570	-S3100	40-P160/L4	
56	2499	1.8	26.437	-S4500	40-P160/L4	
53	2627	1.2	27.785	-S3100	40-P160/L4	
50	2790	1.6	29.511	-S4500	40-P160/L4	
45	3072	1.5	32.489	-S4500	40-P160/L4	
41	3429	1.3	36.267	-S4500	40-P160/L4	

3-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
39	3547	1.2	38.090	-S4500	40-P160/L4	
35	3960	1.1	42.520	-S4500	40-P160/L4	
28	4916	0.9	52.794	-S4500	40-P160/L4	
25	5488	0.8	58.933	-S4500	40-P160/L4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 18.5 \text{ kW}$

2-stage gearbox

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
318	539	2.5	4.593	-S2100	40-P180/M4	
297	577	3.7	4.914	-S4500	40-P180/M4	
295	581	3.2	4.951	-S3100	40-P180/M4	
242	708	2.1	6.029	-S2100	40-P180/M4	
226	757	3.2	6.450	-S4500	40-P180/M4	
225	763	2.8	6.499	-S3100	40-P180/M4	
213	807	1.8	6.870	-S2100	40-P180/M4	
207	828	3.1	7.056	-S4500	40-P180/M4	
197	869	2.6	7.406	-S3100	40-P180/M4	
177	971	1.5	8.272	-S2100	40-P180/M4	
164	1047	2.2	8.917	-S3100	40-P180/M4	
163	1050	3.7	8.944	-S4500	40-P180/M4	
155	1110	1.7	9.452	-S2100	40-P180/M4	
146	1172	3.6	9.984	-S4500	40-P180/M4	
134	1283	1.8	10.932	-S3100	40-P180/M4	
131	1306	2.3	11.128	-S3100	40-P180/M4	
124	1378	3.2	11.740	-S4500	40-P180/M4	
118	1456	1.4	12.406	-S2100	40-P180/M4	
116	1477	2.0	12.584	-S3100	40-P180/M4	
114	1508	3.0	12.843	-S4500	40-P180/M4	
111	1538	2.9	13.105	-S4500	40-P180/M4	
106	1619	1.3	13.787	-S2100	40-P180/M4	
103	1660	1.2	14.137	-S2100	40-P180/M4	
102	1683	2.7	14.336	-S4500	40-P180/M4	
100	1715	1.8	14.606	-S3100	40-P180/M4	
93	1844	1.1	15.711	-S2100	40-P180/M4	
89	1923	2.3	16.381	-S4500	40-P180/M4	
88	1939	1.6	16.517	-S3100	40-P180/M4	
88	1954	1.6	16.644	-S3100	40-P180/M4	
86	1998	1.0	17.022	-S2100	40-P180/M4	
80	2147	2.1	18.286	-S4500	40-P180/M4	
78	2210	1.4	18.822	-S3100	40-P180/M4	
77	2221	0.9	18.917	-S2100	40-P180/M4	
73	2353	1.3	20.041	-S3100	40-P180/M4	
73	2356	1.9	20.067	-S4500	40-P180/M4	
70	2450	0.8	20.869	-S2100	40-P180/M4	
65	2630	1.7	22.400	-S4500	40-P180/M4	

g500-S shaft-mounted helical geared motors



Technical data

Selection tables, 4-pole motors

50 Hz: $P_N = 18.5 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
64	2661	1.2	22.663	-S3100	40-P180/M4	
59	2885	1.1	24.570	-S3100	40-P180/M4	
55	3104	1.5	26.437	-S4500	40-P180/M4	
53	3262	1.0	27.785	-S3100	40-P180/M4	
50	3465	1.3	29.511	-S4500	40-P180/M4	
45	3814	1.2	32.489	-S4500	40-P180/M4	
40	4258	1.1	36.267	-S4500	40-P180/M4	

3-stage gearboxes

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
38	4405	0.9	38.090	-S4500	40-P180/M4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 22.0 \text{ kW}$

2-stage gearbox

n_2 [r/min]	M_2 [Nm]	c	i	Product		
				g500	m2□□	
319	639	2.1	4.593	-S2100	40-P180/L4	
298	684	3.1	4.914	-S4500	40-P180/L4	
296	689	2.7	4.951	-S3100	40-P180/L4	
243	839	1.8	6.029	-S2100	40-P180/L4	
227	897	2.7	6.450	-S4500	40-P180/L4	
225	904	2.3	6.499	-S3100	40-P180/L4	
213	956	1.6	6.870	-S2100	40-P180/L4	
208	982	2.6	7.056	-S4500	40-P180/L4	
198	1030	2.2	7.406	-S3100	40-P180/L4	
177	1151	1.3	8.272	-S2100	40-P180/L4	
164	1241	1.8	8.917	-S3100	40-P180/L4	
164	1244	3.1	8.944	-S4500	40-P180/L4	
147	1389	3.0	9.984	-S4500	40-P180/L4	
134	1521	1.5	10.932	-S3100	40-P180/L4	
132	1548	2.0	11.128	-S3100	40-P180/L4	
125	1633	2.7	11.740	-S4500	40-P180/L4	
116	1751	1.7	12.584	-S3100	40-P180/L4	
114	1787	2.5	12.843	-S4500	40-P180/L4	
112	1823	2.5	13.105	-S4500	40-P180/L4	
102	1995	2.3	14.336	-S4500	40-P180/L4	
100	2032	1.5	14.606	-S3100	40-P180/L4	
89	2279	2.0	16.381	-S4500	40-P180/L4	
89	2298	1.4	16.517	-S3100	40-P180/L4	
88	2316	1.3	16.644	-S3100	40-P180/L4	
80	2544	1.8	18.286	-S4500	40-P180/L4	
78	2619	1.2	18.822	-S3100	40-P180/L4	
73	2788	1.1	20.041	-S3100	40-P180/L4	
73	2792	1.6	20.067	-S4500	40-P180/L4	
65	3117	1.4	22.400	-S4500	40-P180/L4	
65	3153	1.0	22.663	-S3100	40-P180/L4	
60	3419	0.9	24.570	-S3100	40-P180/L4	
55	3678	1.2	26.437	-S4500	40-P180/L4	
50	4106	1.1	29.511	-S4500	40-P180/L4	
45	4520	1.0	32.489	-S4500	40-P180/L4	
40	5046	0.9	36.267	-S4500	40-P180/L4	

g500-S shaft-mounted helical geared motors

Technical data



Selection tables, 4-pole motors

50 Hz: $P_N = 30.0 \text{ kW}$

2-stage gearboxes

n_2 [r/min]	Mains operation 400 V, 50 Hz		i	Product		
	M_2 [Nm]	c		g500	m2□□	
298	933	2.0	4.951	-S3100	40-P180/V4	
245	1136	1.3	6.029	-S2100	40-P180/V4	
229	1215	2.0	6.450	-S4500	40-P180/V4	
227	1225	1.7	6.499	-S3100	40-P180/V4	
215	1295	1.2	6.870	-S2100	40-P180/V4	
209	1330	1.9	7.056	-S4500	40-P180/V4	
199	1396	1.6	7.406	-S3100	40-P180/V4	
178	1559	1.0	8.272	-S2100	40-P180/V4	
165	1680	1.4	8.917	-S3100	40-P180/V4	
135	2060	1.1	10.932	-S3100	40-P180/V4	
126	2212	2.0	11.740	-S4500	40-P180/V4	
115	2420	1.9	12.843	-S4500	40-P180/V4	
113	2469	1.8	13.105	-S4500	40-P180/V4	
90	3087	1.5	16.381	-S4500	40-P180/V4	
81	3446	1.3	18.286	-S4500	40-P180/V4	
74	3781	1.2	20.067	-S4500	40-P180/V4	
66	4221	1.1	22.400	-S4500	40-P180/V4	
56	4982	0.9	26.437	-S4500	40-P180/V4	
50	5561	0.8	29.511	-S4500	40-P180/V4	

g500-S shaft-mounted helical geared motors

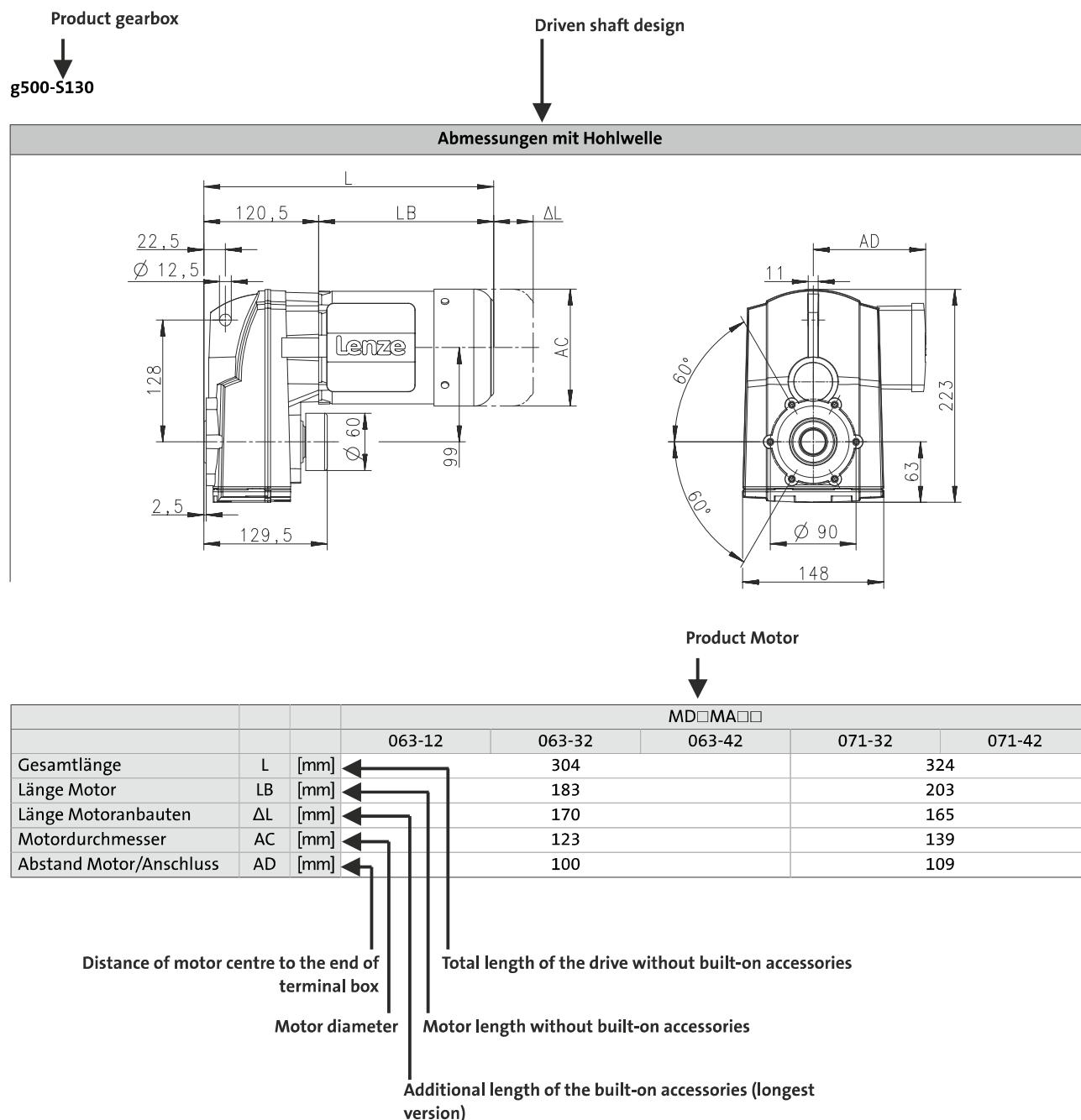


Technical data

Dimensions, notes

Notes on the dimensions

The following legend shows the layout of the dimension sheets.



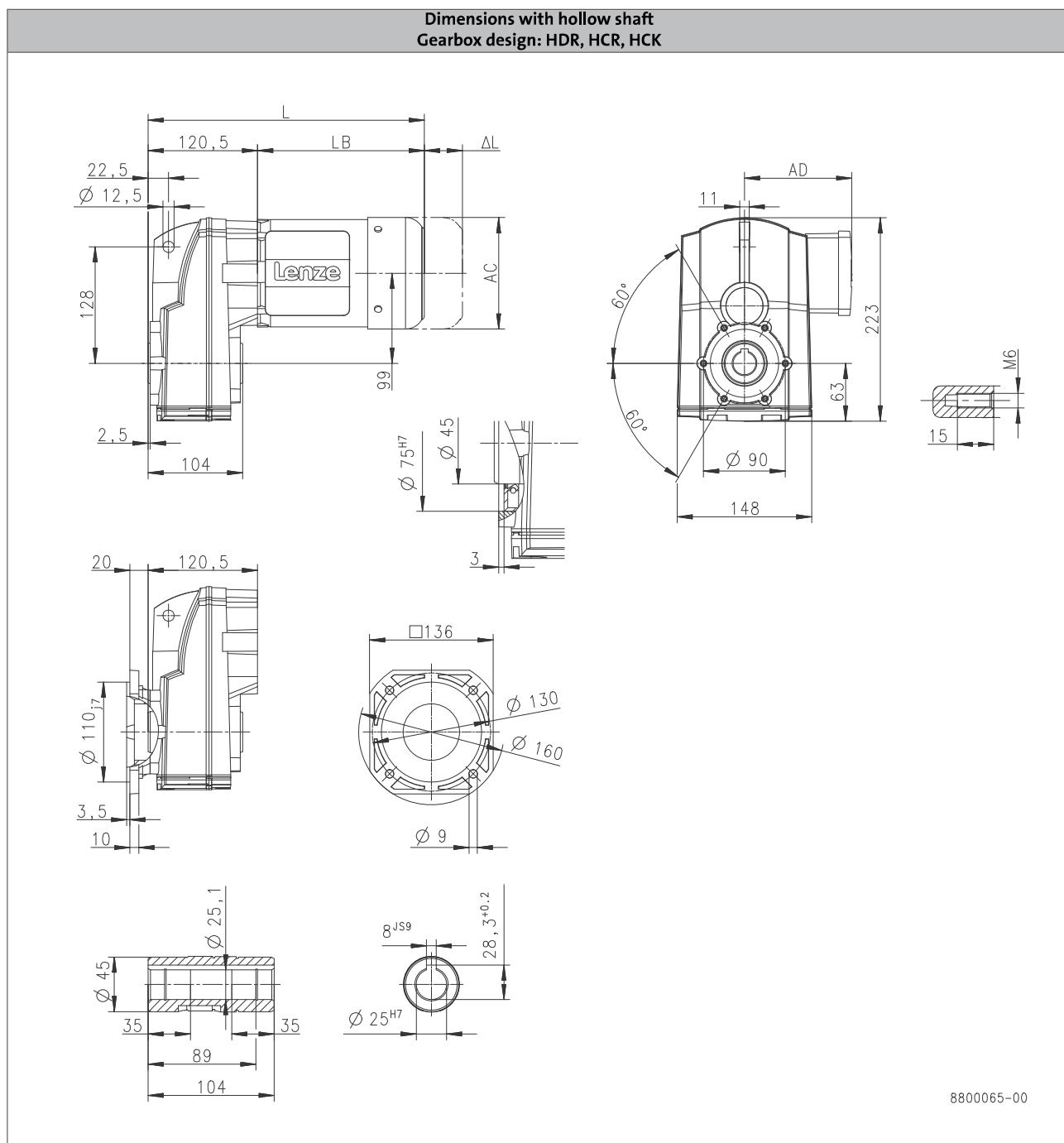
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



		MD□MA□□				
		063-12	063-32	063-42	071-32	071-42
Total length	L [mm]		304			324
Motor length	LB [mm]		183			203
Length of motor options	Δ L [mm]		40.0			52.0
Motor diameter	AC [mm]		123			139
Distance motor/connection	AD [mm]		107			118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

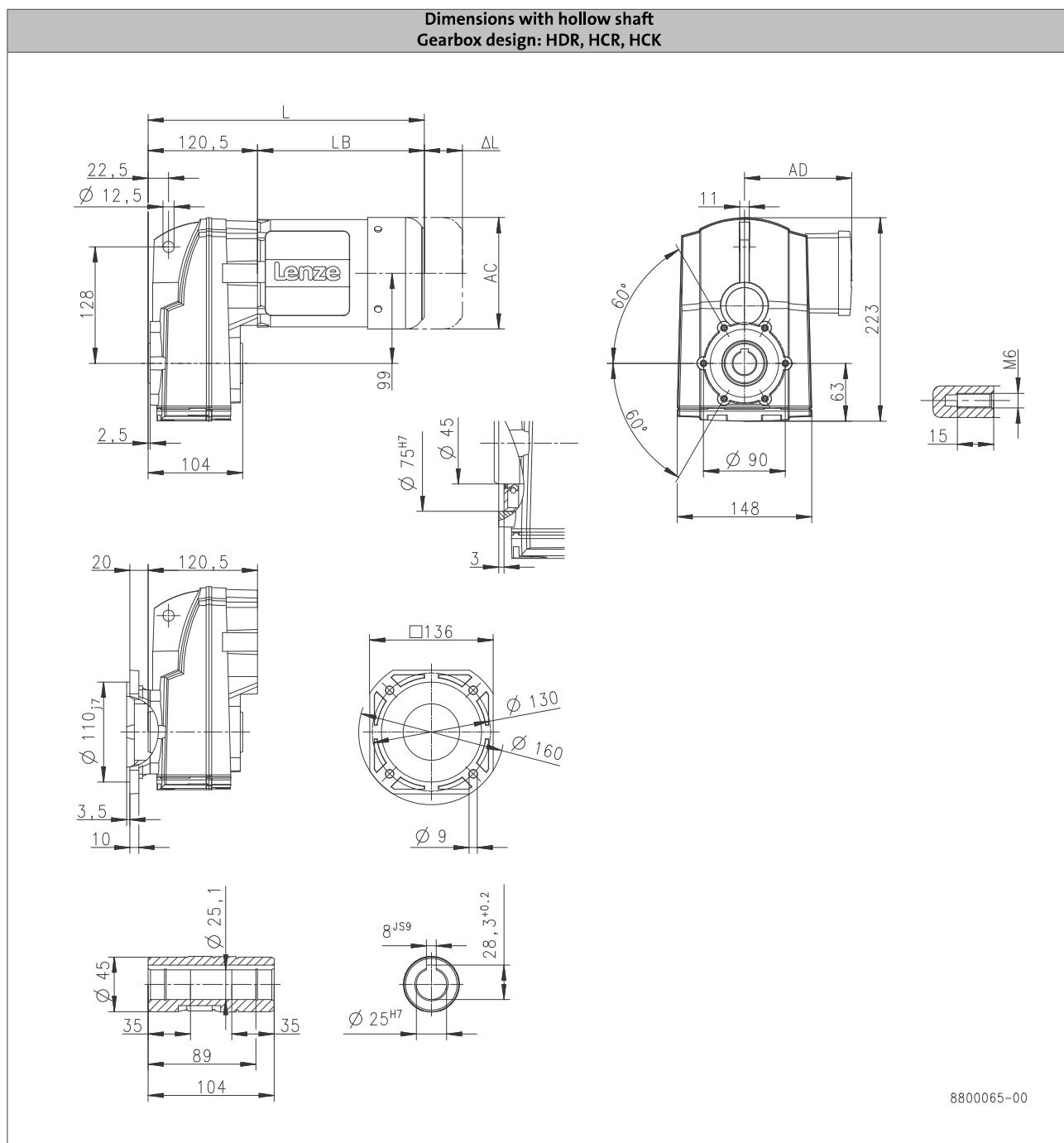
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



		m240		
		-P80/M4	-P90/M4	-P90/L4
Total length	L [mm]	346		415
Motor length	LB [mm]	225		294
Length of motor options	Δ L [mm]	107		92.0
Motor diameter	AC [mm]	158		172
Distance motor/connection	AD [mm]	148		155

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

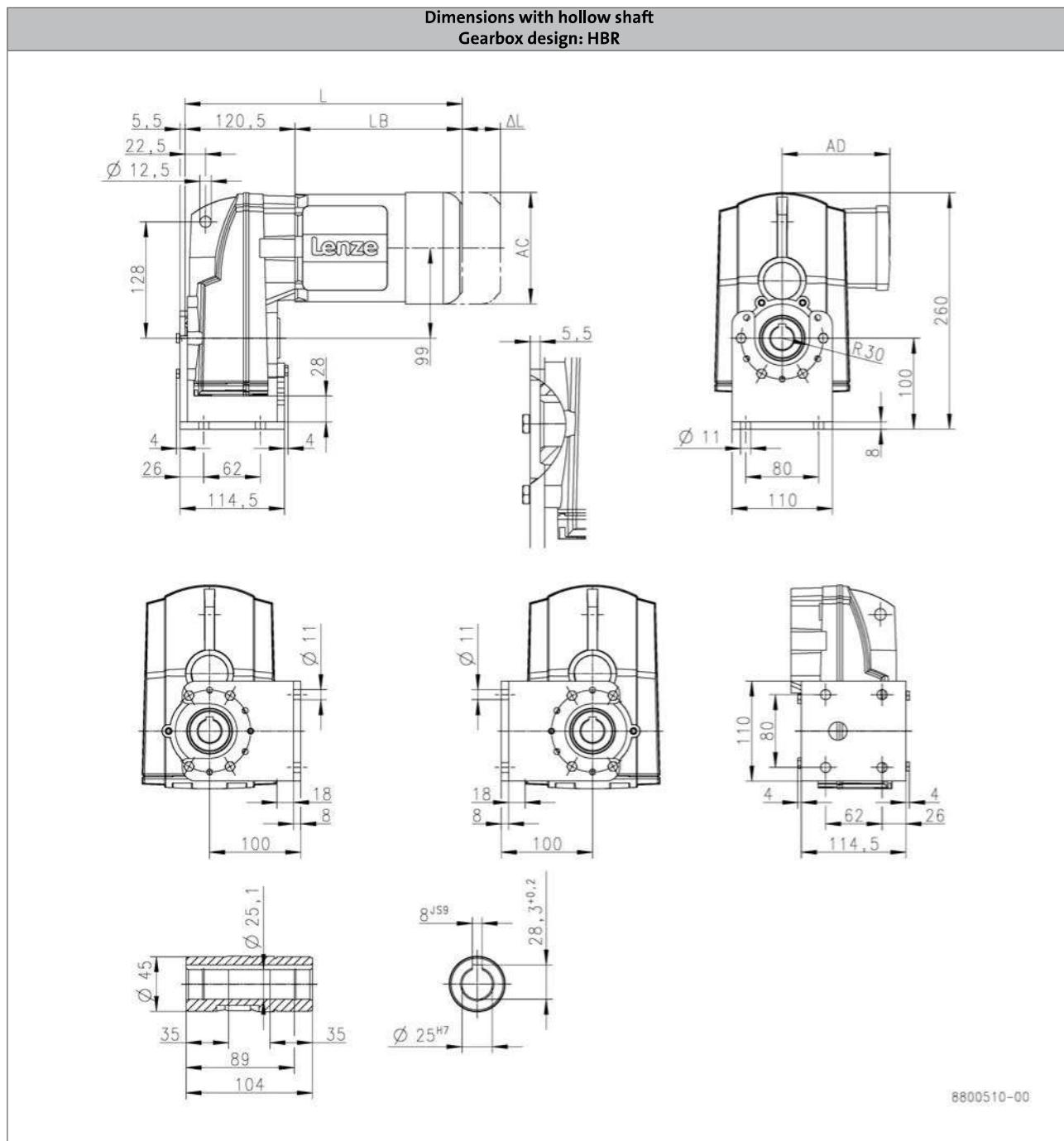
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



			MD□MA□□	
			063-12	063-32
Total length	L [mm]		304	324
Motor length	LB [mm]		183	203
Length of motor options	Δ L [mm]		40.0	52.0
Motor diameter	AC [mm]		123	139
Distance motor/connection	AD [mm]		107	118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

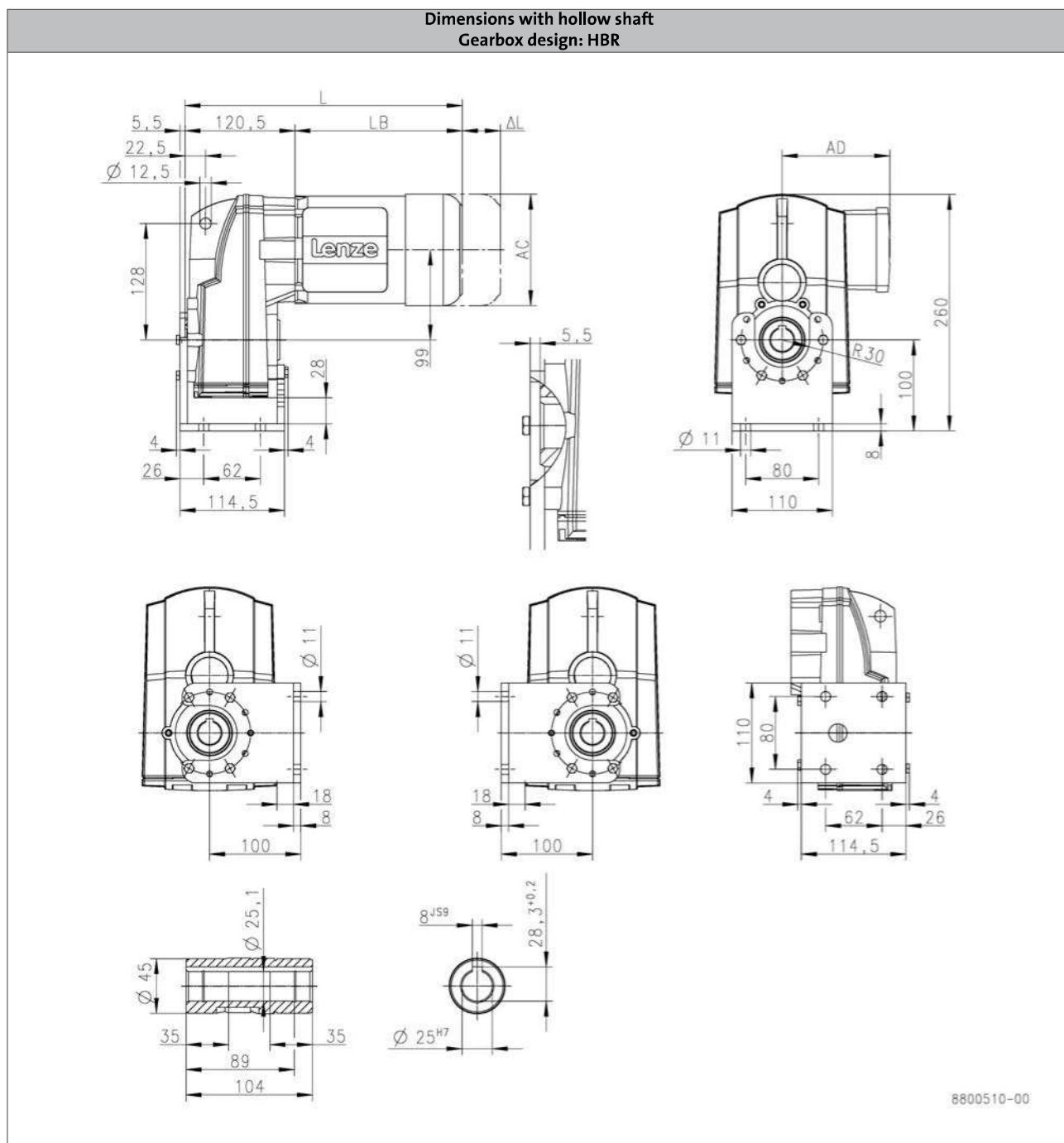
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



6.4

			m240		
			-P80/M4	-P90/M4	-P90/L4
Total length	L [mm]		346		415
Motor length	LB [mm]		225		294
Length of motor options	Δ L [mm]		107		92.0
Motor diameter	AC [mm]		158		172
Distance motor/connection	AD [mm]		148		155

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

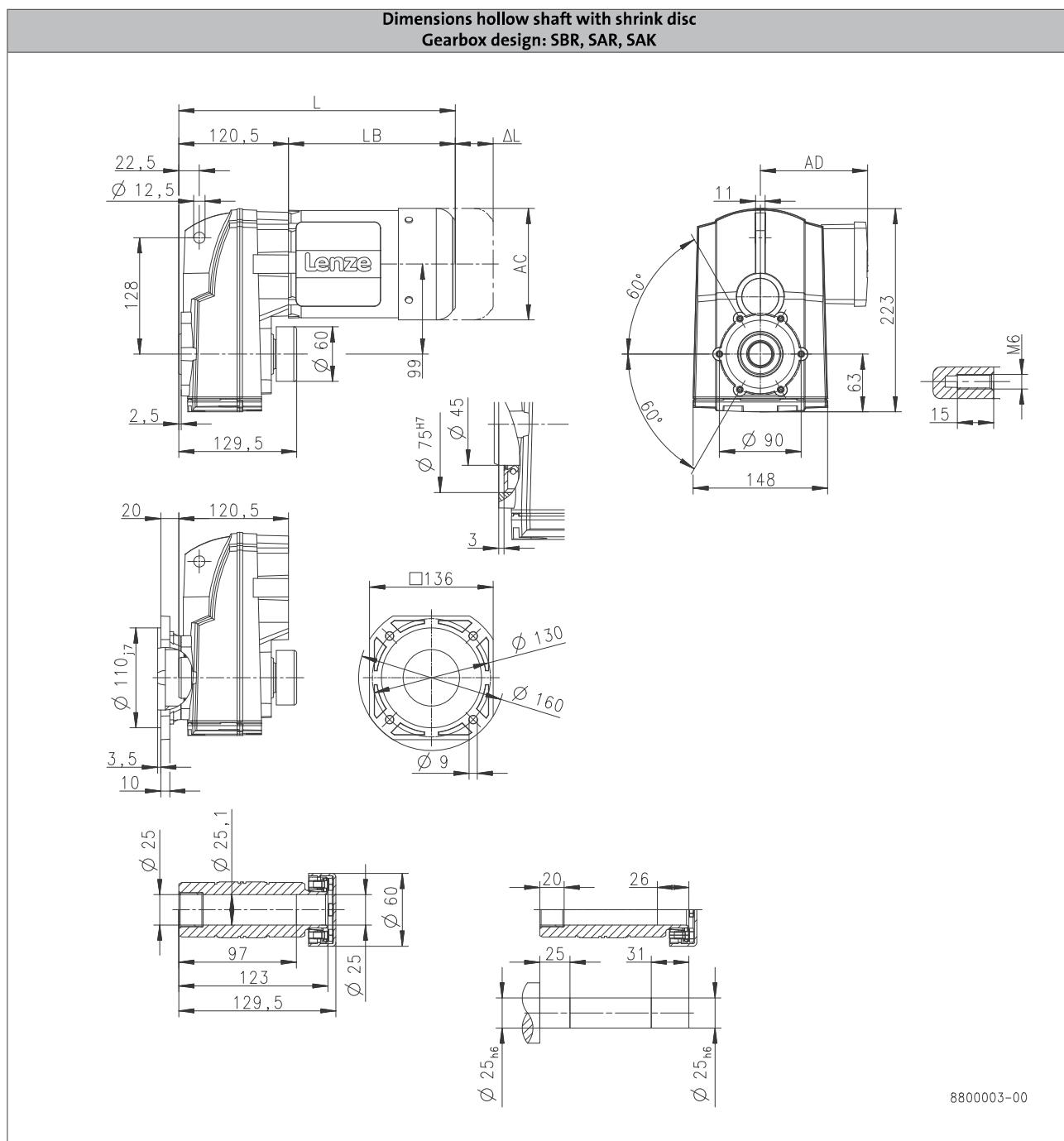
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



6.4

		MD□MA□□			
		063-12	063-32	063-42	071-32
Total length	L [mm]		304		324
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]	40.0		52.0	
Motor diameter	AC [mm]	123		139	
Distance motor/connection	AD [mm]	107		118	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

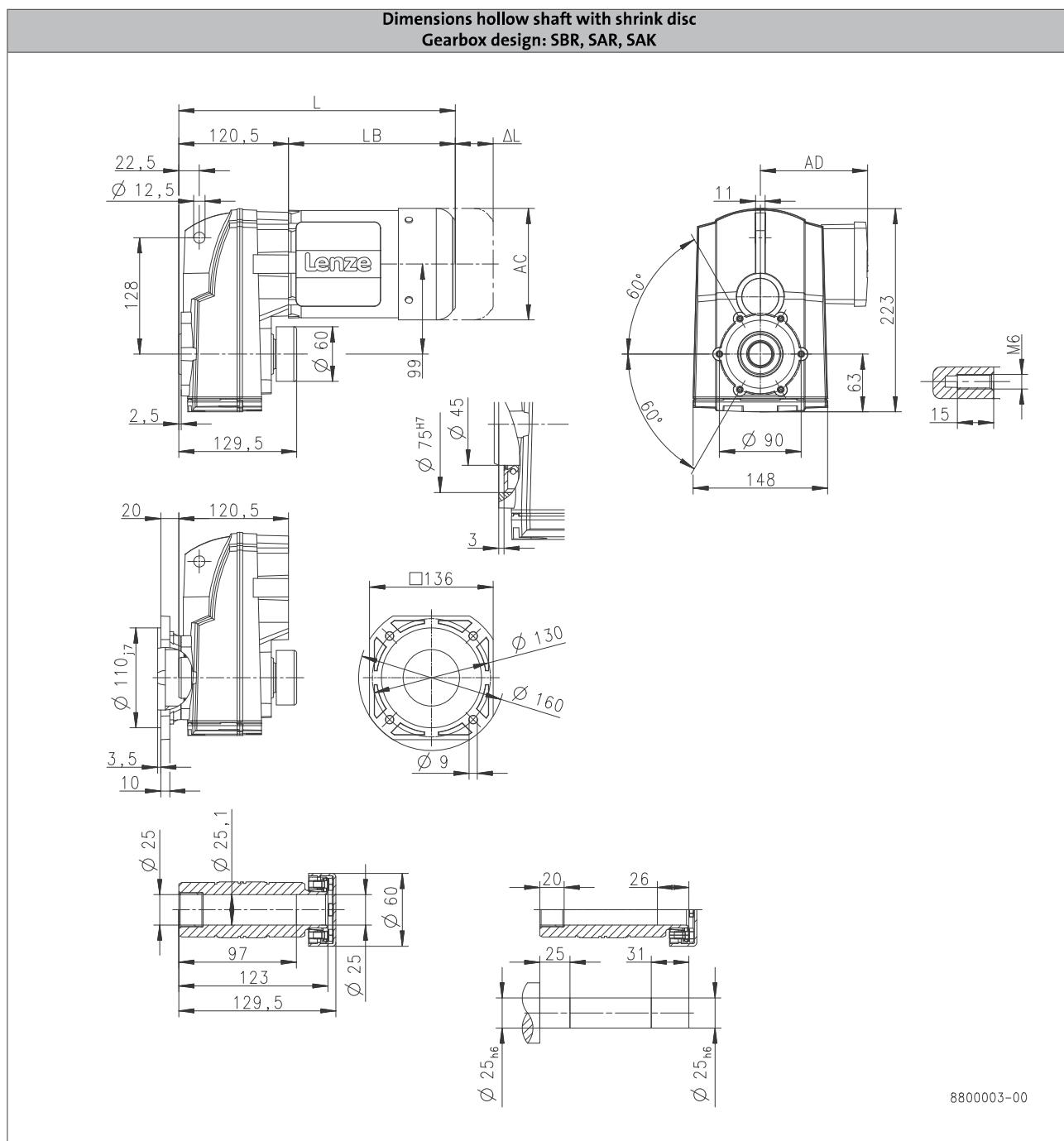
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



		m240		
		-P80/M4	-P90/M4	-P90/L4
Total length	L [mm]	346		415
Motor length	LB [mm]	225		294
Length of motor options	Δ L [mm]	107		92.0
Motor diameter	AC [mm]	158		172
Distance motor/connection	AD [mm]	148		155

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

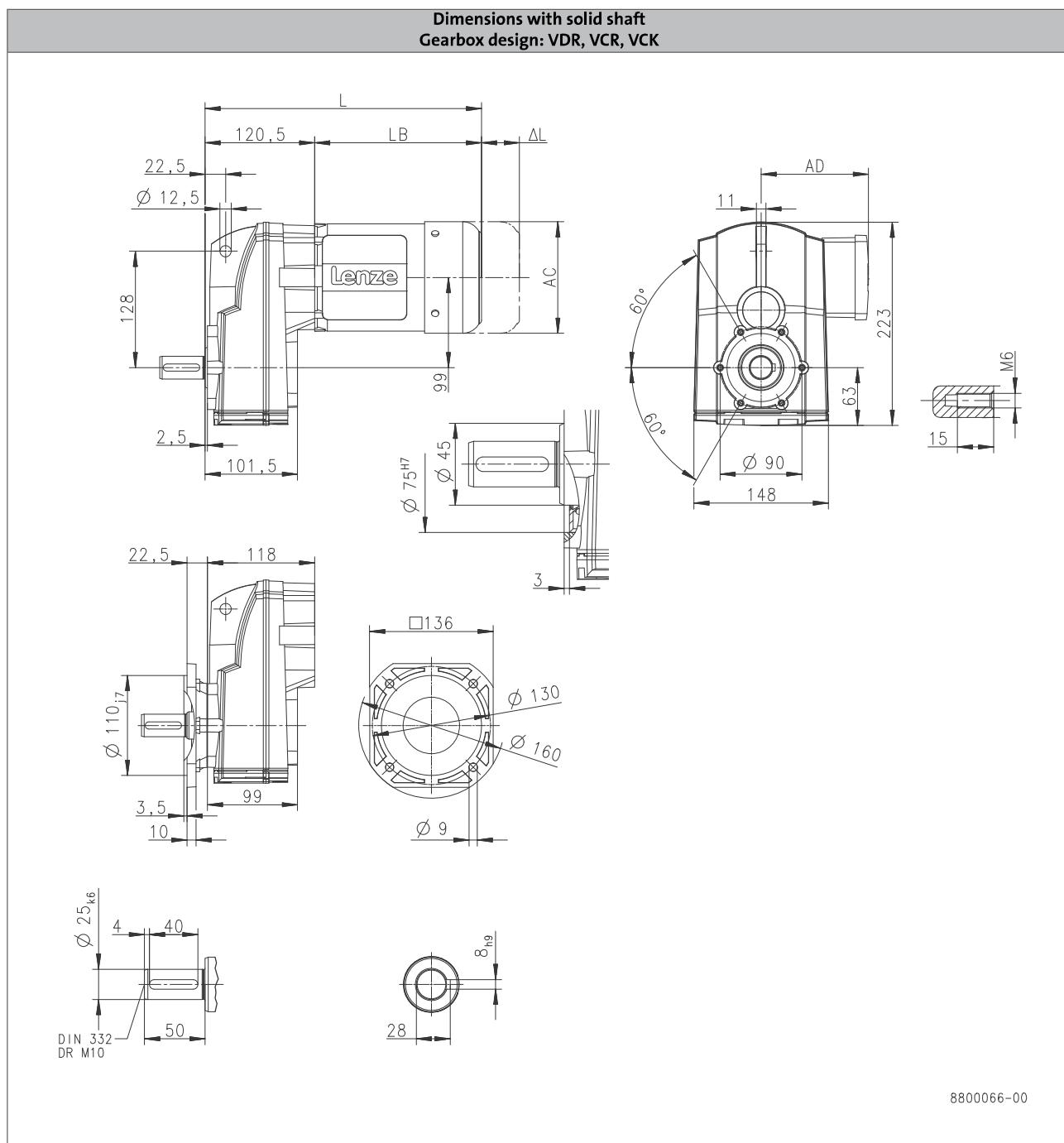
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length	L [mm]		304		324
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

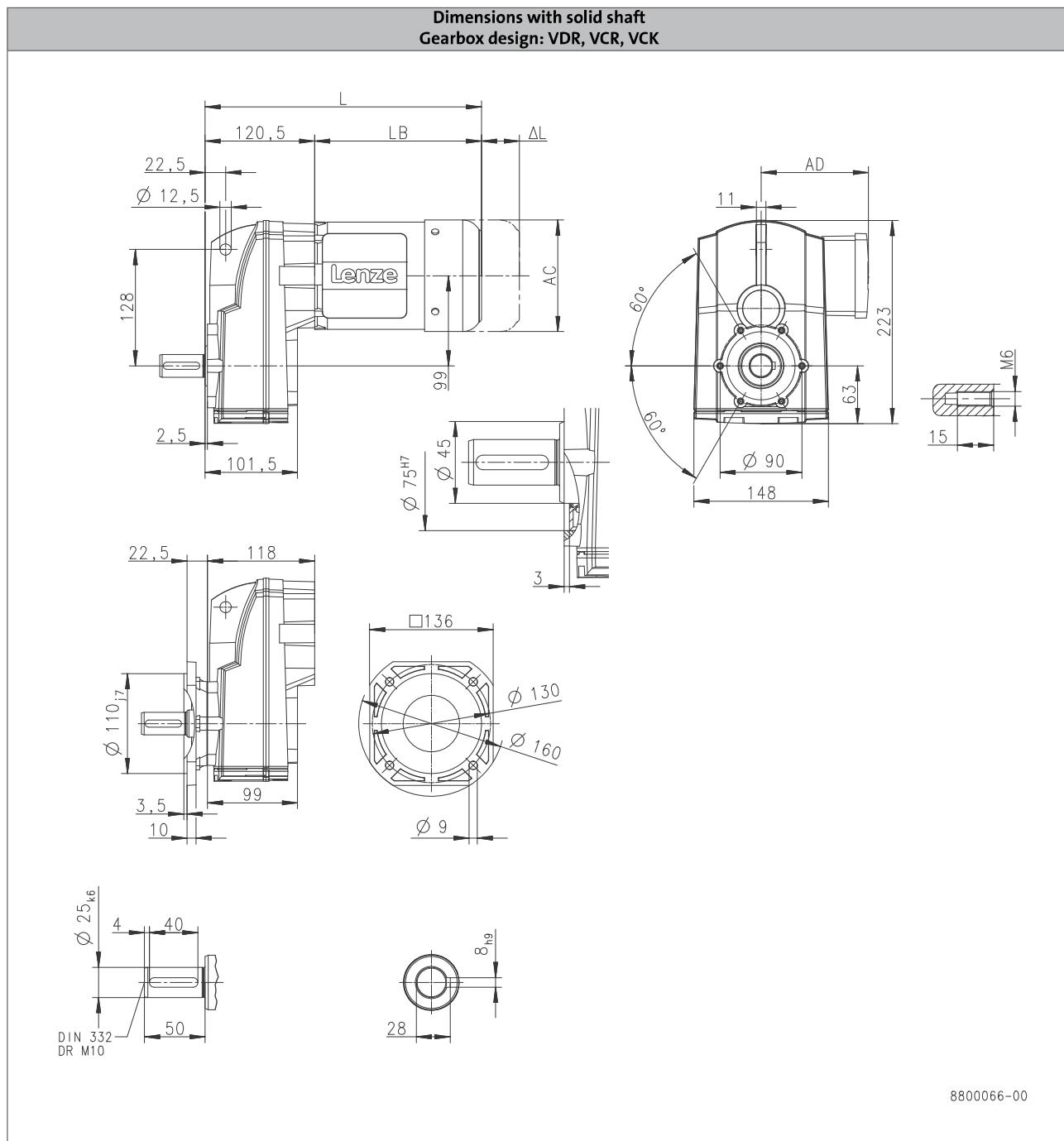
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



		m240		
		-P80/M4	-P90/M4	-P90/L4
Total length	L [mm]	346		415
Motor length	LB [mm]	225		294
Length of motor options	Δ L [mm]	107		92.0
Motor diameter	AC [mm]	158		172
Distance motor/connection	AD [mm]	148		155

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

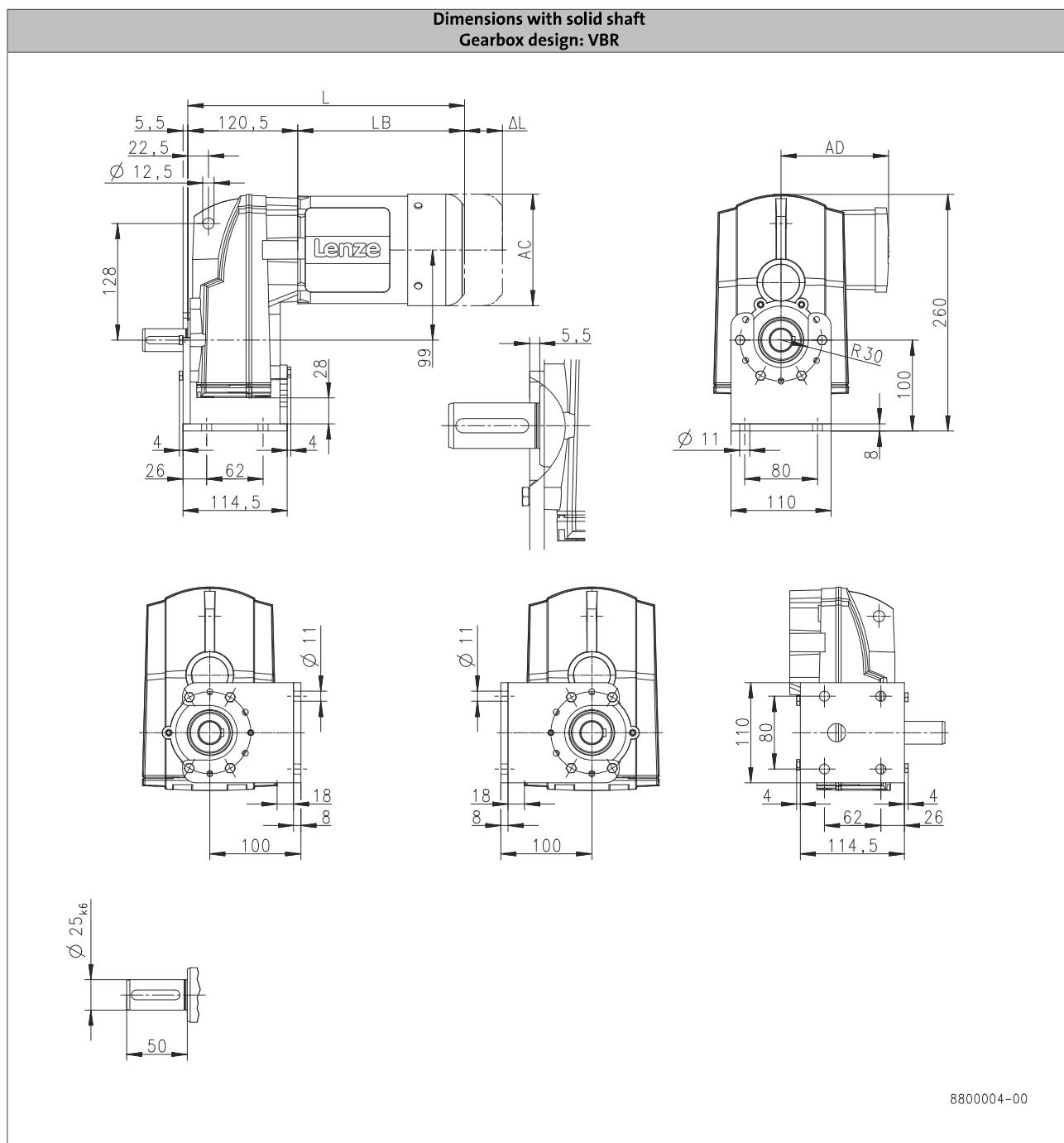
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



		MD□MA□□			
		063-12	063-32	063-42	071-32
Total length	L [mm]		304		324
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]	40.0		52.0	
Motor diameter	AC [mm]	123		139	
Distance motor/connection	AD [mm]	107		118	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

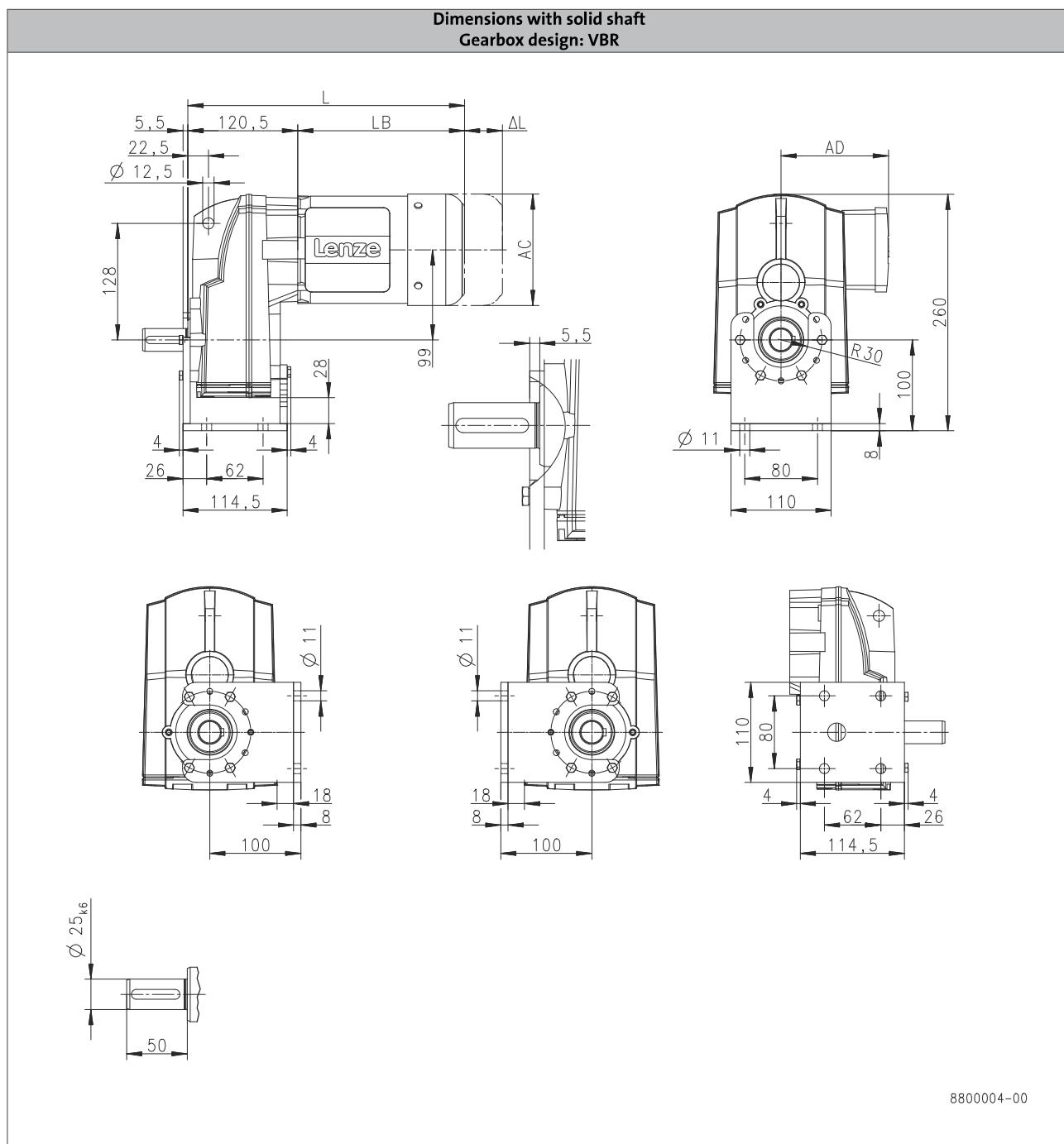
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S130



		m240		
		-P80/M4	-P90/M4	-P90/L4
Total length	L [mm]	346		415
Motor length	LB [mm]	225		294
Length of motor options	Δ L [mm]	107		92.0
Motor diameter	AC [mm]	158		172
Distance motor/connection	AD [mm]	148		155

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

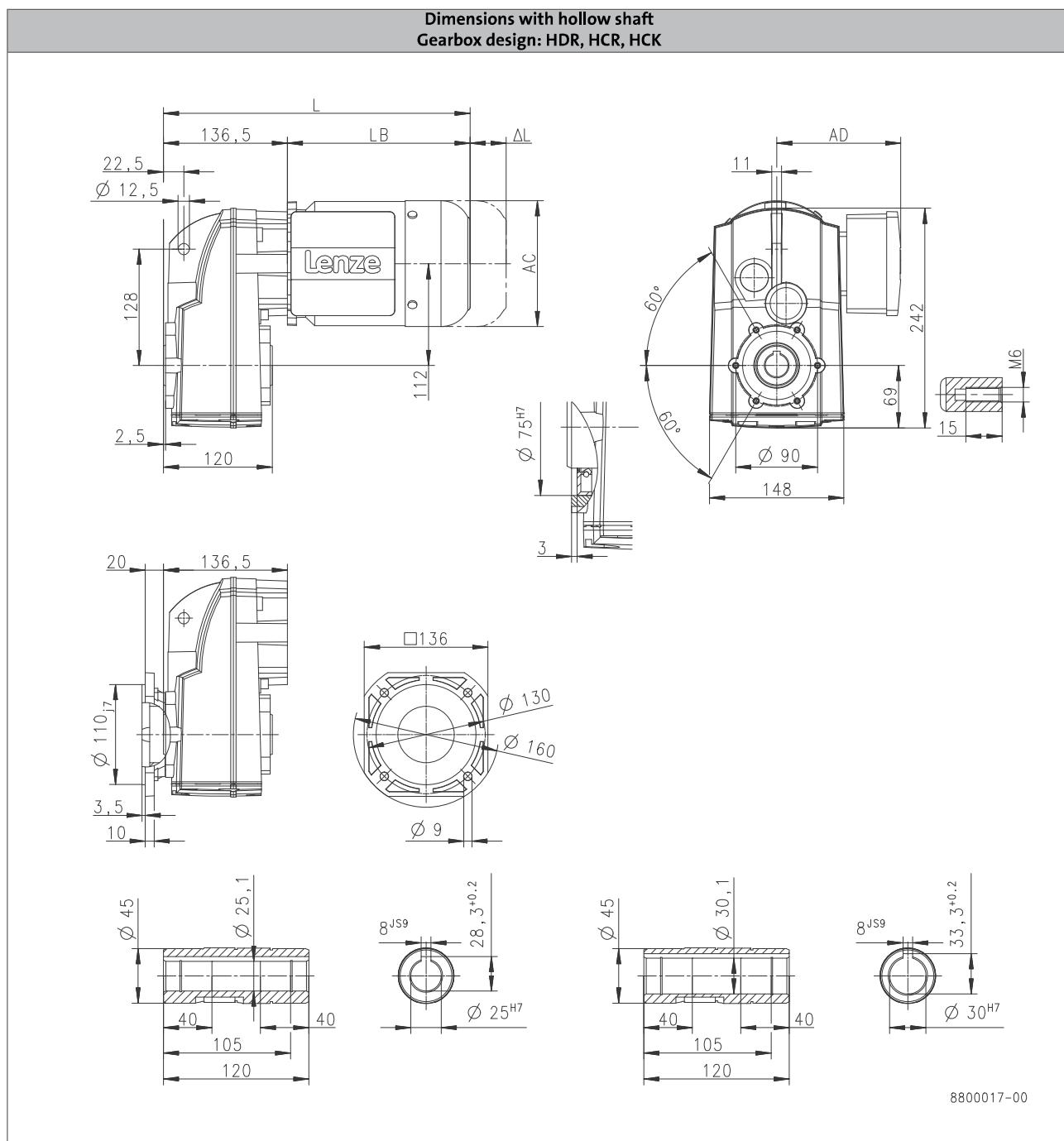
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



6.4

		MD□MA□□				
		063-12	063-32	063-42	071-32	071-42
Total length	L [mm]		320		340	
Motor length	LB [mm]		183		203	
Length of motor options	Δ L [mm]	40.0			52.0	
Motor diameter	AC [mm]	123			139	
Distance motor/connection	AD [mm]	107			118	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

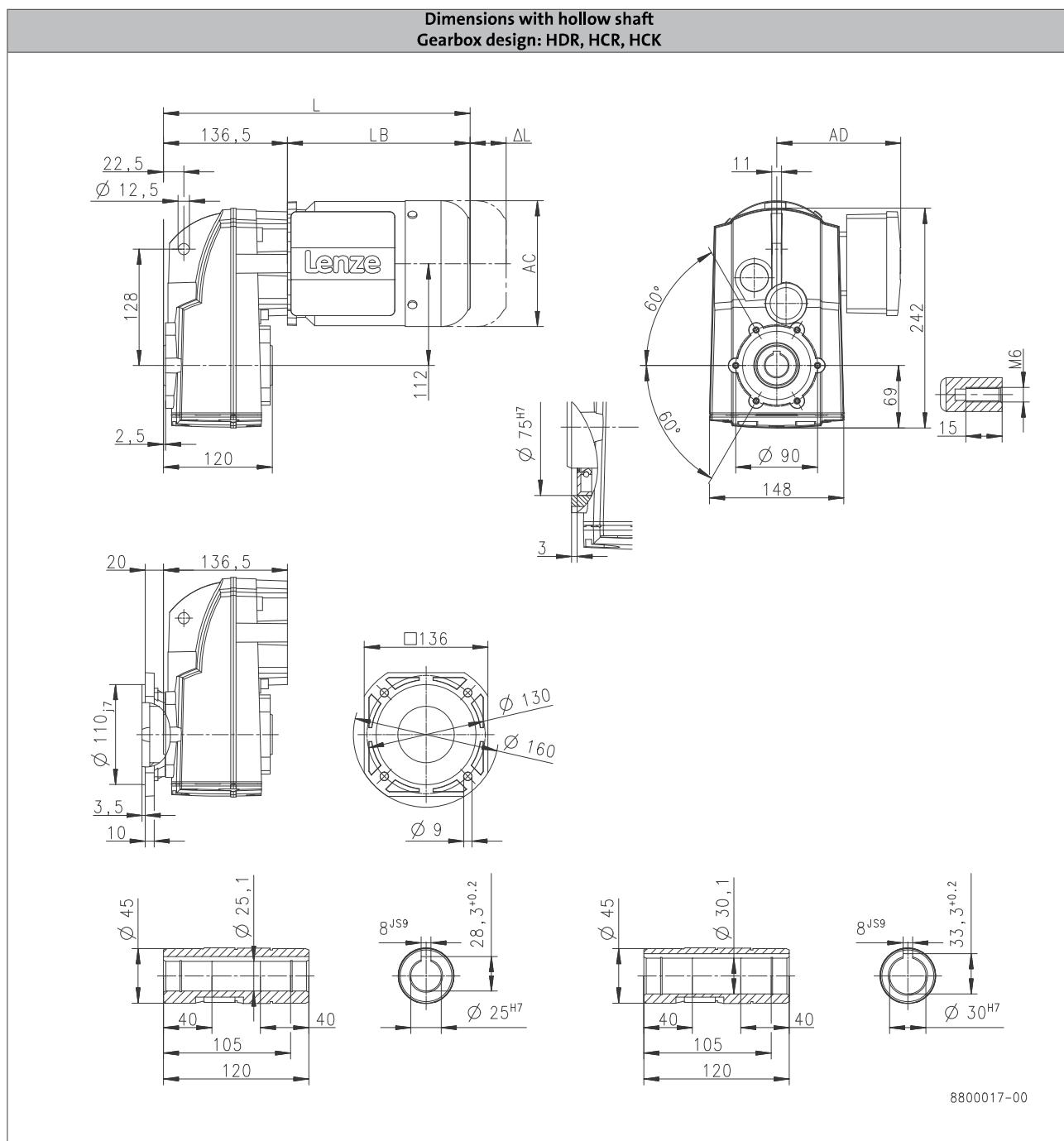
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



		m240				
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4
Total length	L [mm]	362		431		493
Motor length	LB [mm]	225		294		356
Length of motor options	Δ L [mm]	107		92.0		103
Motor diameter	AC [mm]	158		172		192
Distance motor/connection	AD [mm]	148		155		164

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

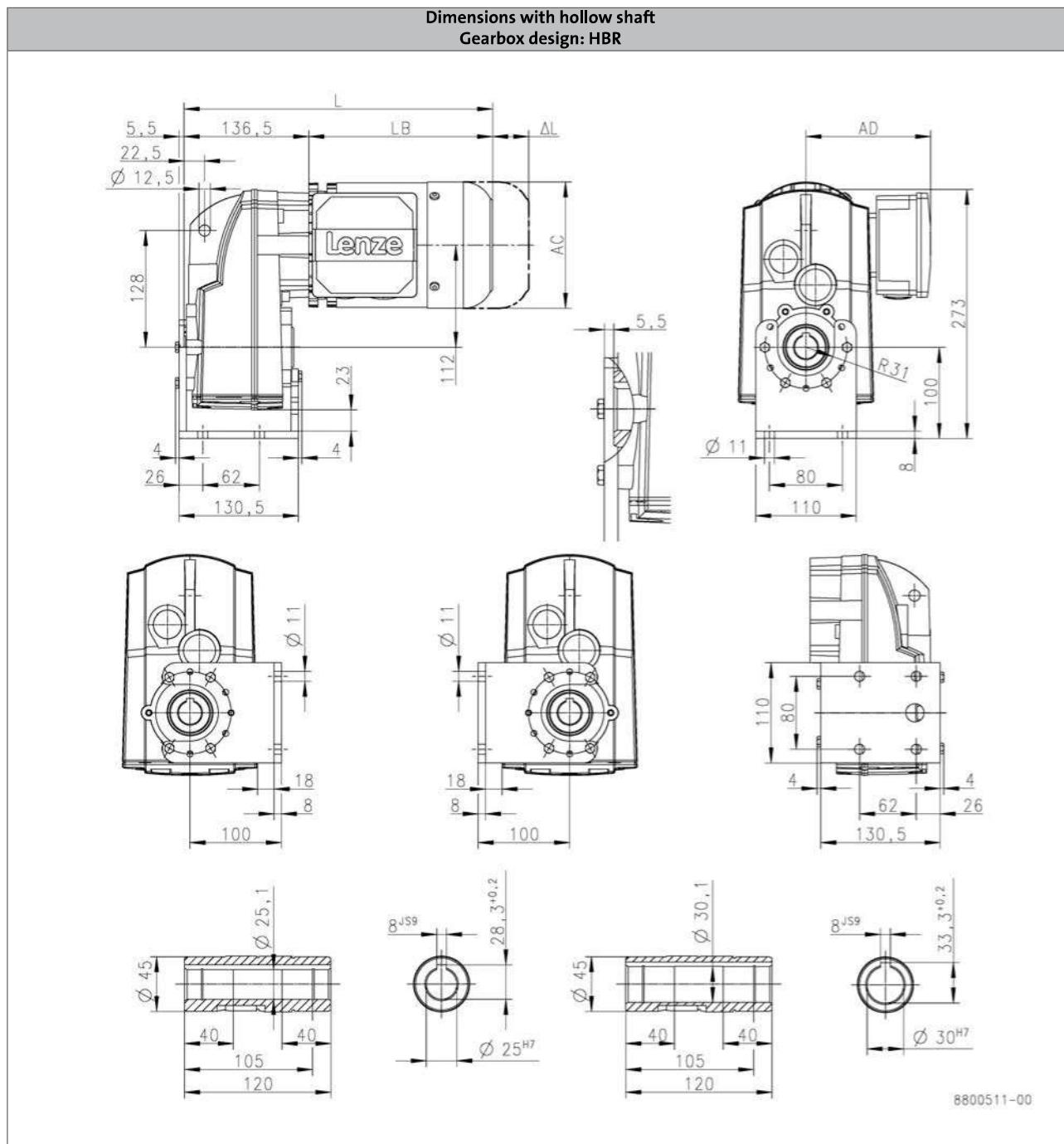
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



			MD□MA□□	
			063-12	063-32
Total length	L [mm]		320	340
Motor length	LB [mm]		183	203
Length of motor options	Δ L [mm]		40.0	52.0
Motor diameter	AC [mm]		123	139
Distance motor/connection	AD [mm]		107	118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

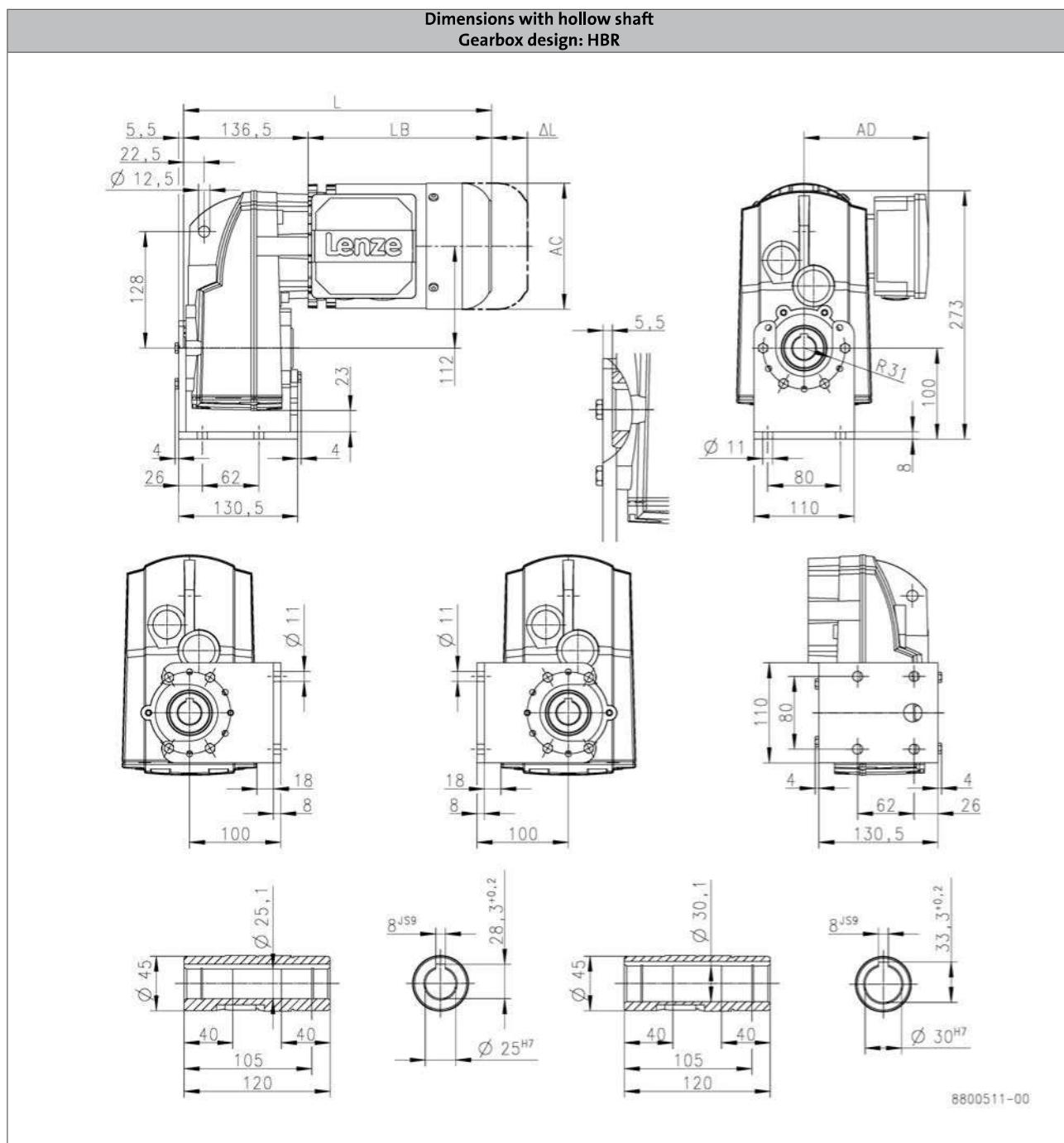
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



			m240			
			-P80/M4	-P90/M4	-P90/L4	-P100/M4
Total length	L [mm]		362		431	493
Motor length	LB [mm]		225		294	356
Length of motor options	Δ L [mm]		107		92.0	103
Motor diameter	AC [mm]		158		172	192
Distance motor/connection	AD [mm]		148		155	164

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

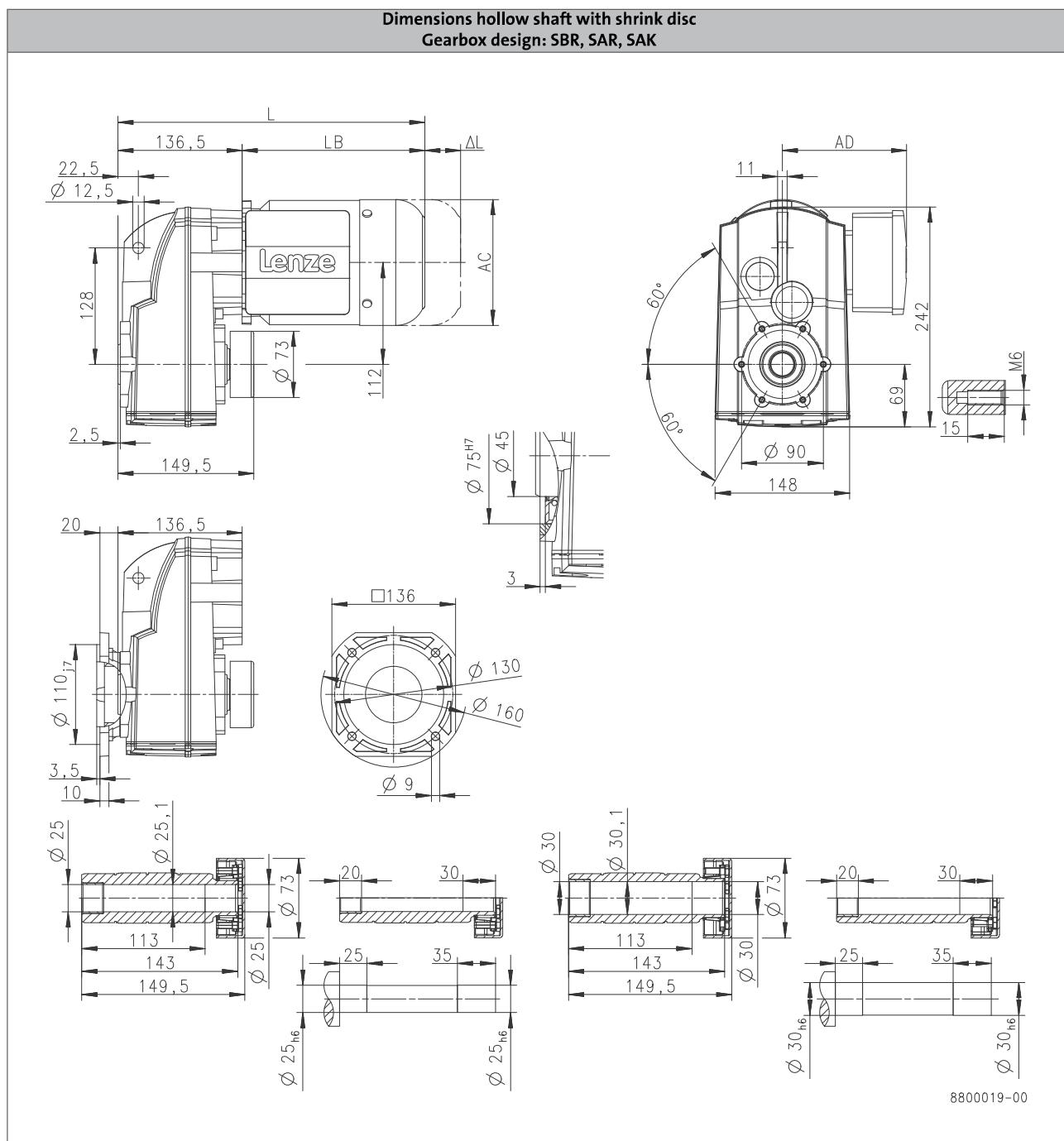
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



6.4

		MD□MA□□				
		063-12	063-32	063-42	071-32	071-42
Total length	L [mm]		320		340	
Motor length	LB [mm]		183		203	
Length of motor options	Δ L [mm]	40.0			52.0	
Motor diameter	AC [mm]	123			139	
Distance motor/connection	AD [mm]	107			118	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

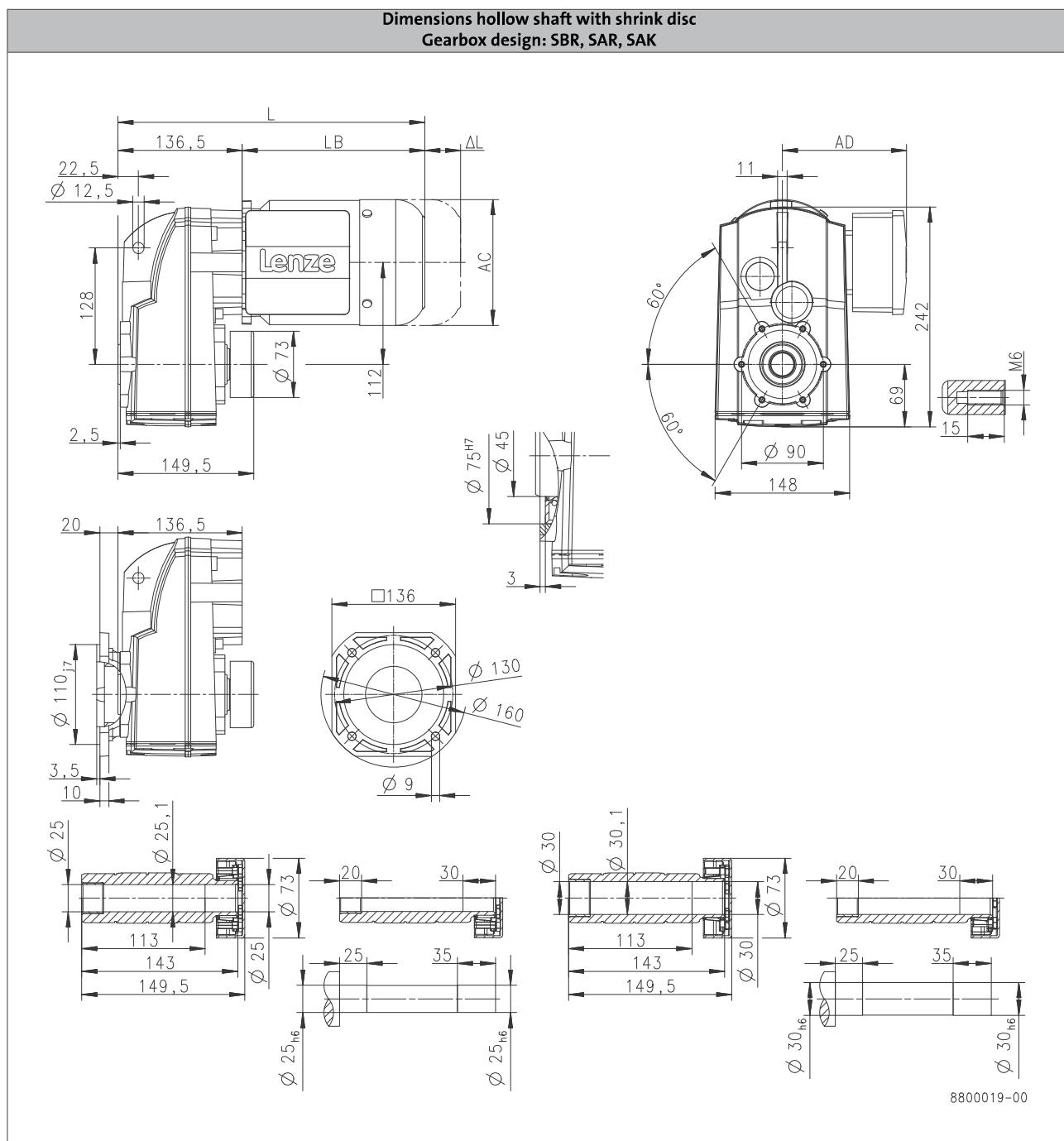
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



6.4

		m240				
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4
Total length	L [mm]	362	431	92.0	493	356
Motor length	LB [mm]	225	294	172	103	192
Length of motor options	ΔL [mm]	107	92.0	155	164	103
Motor diameter	AC [mm]	158	172	155	192	164
Distance motor/connection	AD [mm]	148	148	148	148	148

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

184 - Shrink disc dimensions

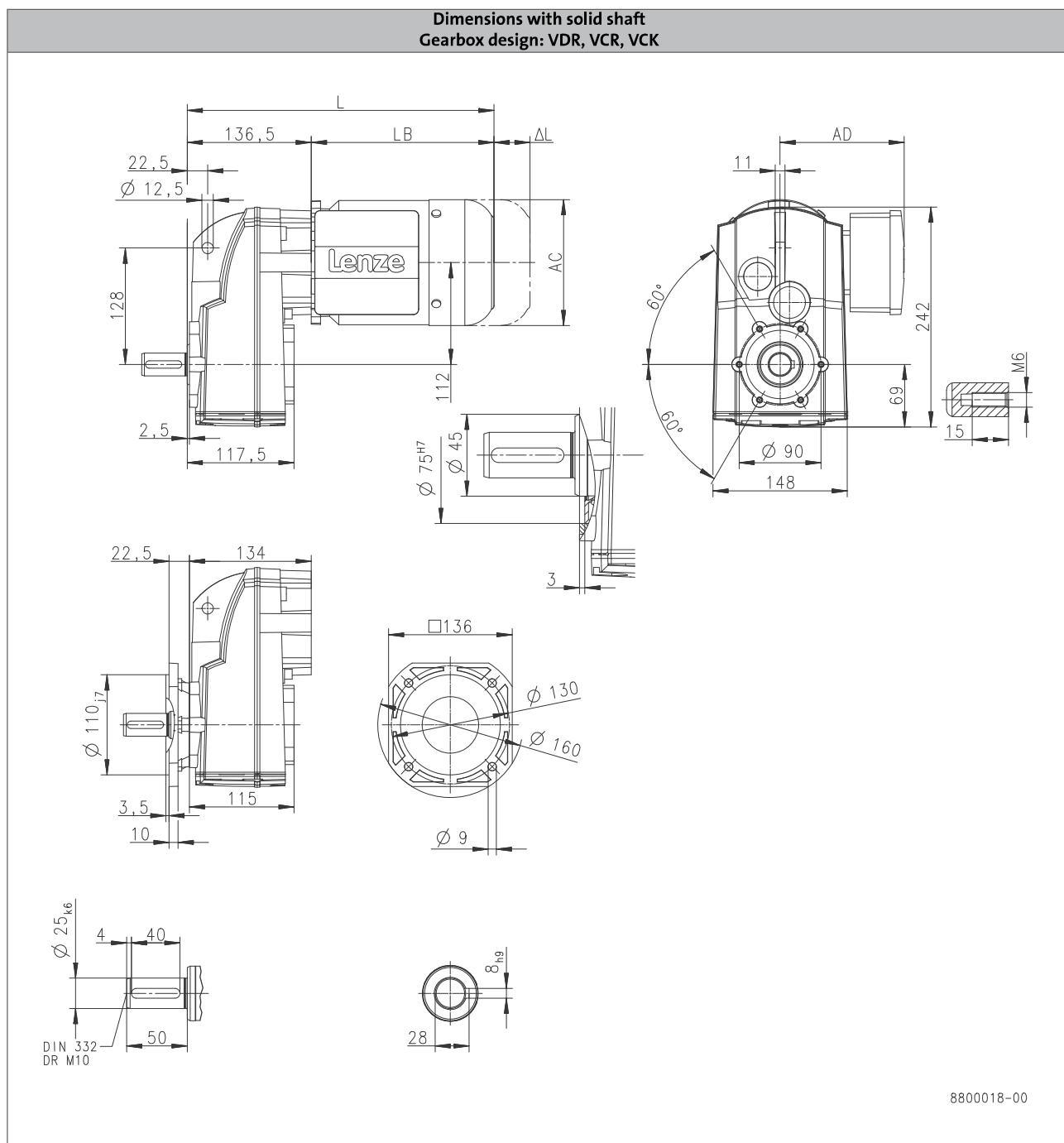
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length		320			340
Motor length	LB [mm]	183			203
Length of motor options	Δ L [mm]	40.0			52.0
Motor diameter	AC [mm]	123			139
Distance motor/connection	AD [mm]	107			118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

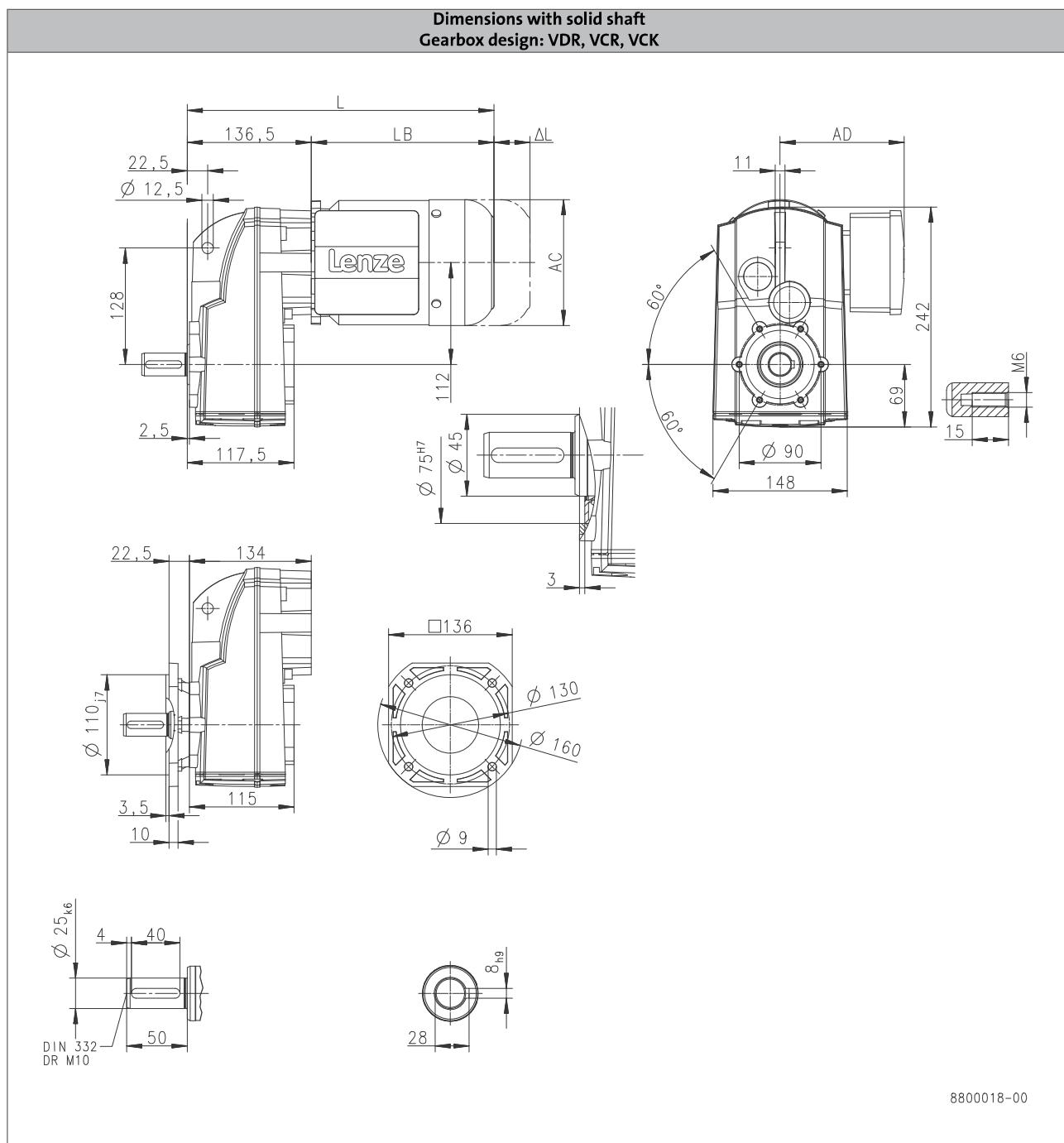
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



6.4

		m240			
	L [mm]	-P80/M4	-P90/M4	-P90/L4	-P100/M4
Total length	L [mm]	362	431		493
Motor length	LB [mm]	225	294		356
Length of motor options	ΔL [mm]	107	92,0		103
Motor diameter	AC [mm]	158	172		192
Distance motor/connection	AD [mm]	148	155		164

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

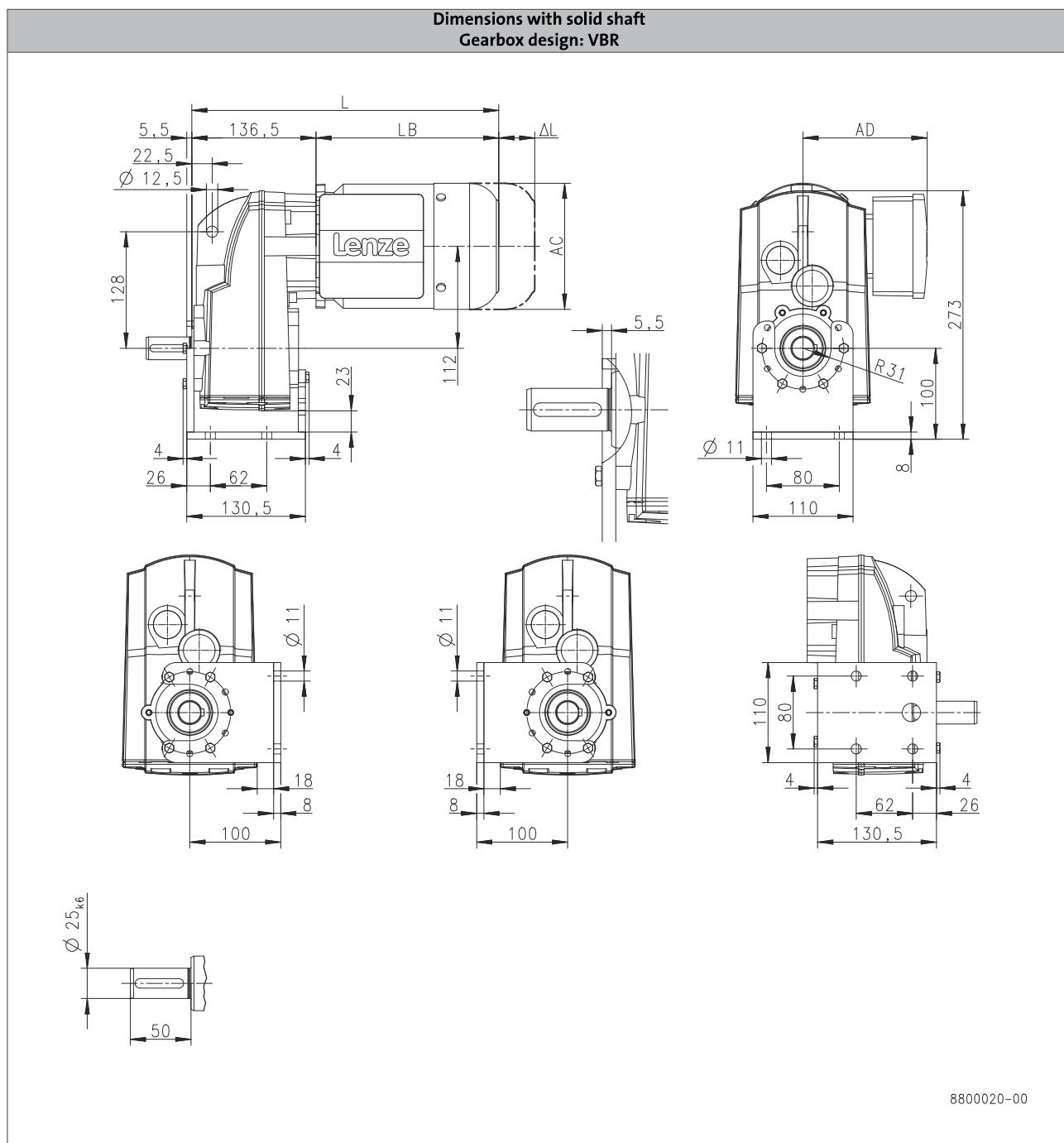
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length		320			340
Motor length	LB [mm]	183			203
Length of motor options	Δ L [mm]	40.0			52.0
Motor diameter	AC [mm]	123			139
Distance motor/connection	AD [mm]	107			118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

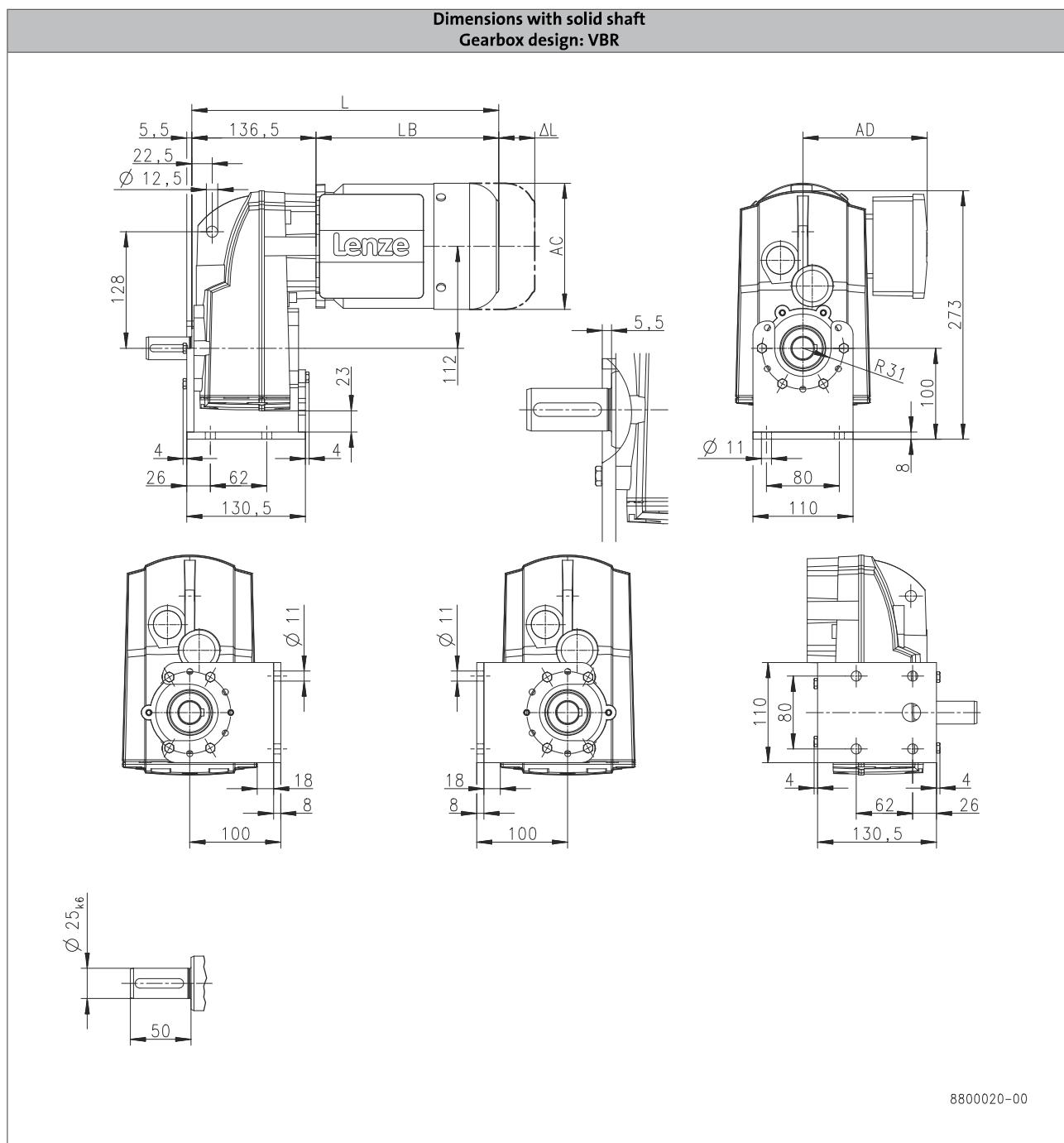
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S220



6.4

8800020-00

			m240			
			-P80/M4	-P90/M4	-P90/L4	-P100/M4
Total length	L [mm]	362		431		493
Motor length	LB [mm]	225		294		356
Length of motor options	Δ L [mm]	107		92.0		103
Motor diameter	AC [mm]	158		172		192
Distance motor/connection	AD [mm]	148		155		164

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

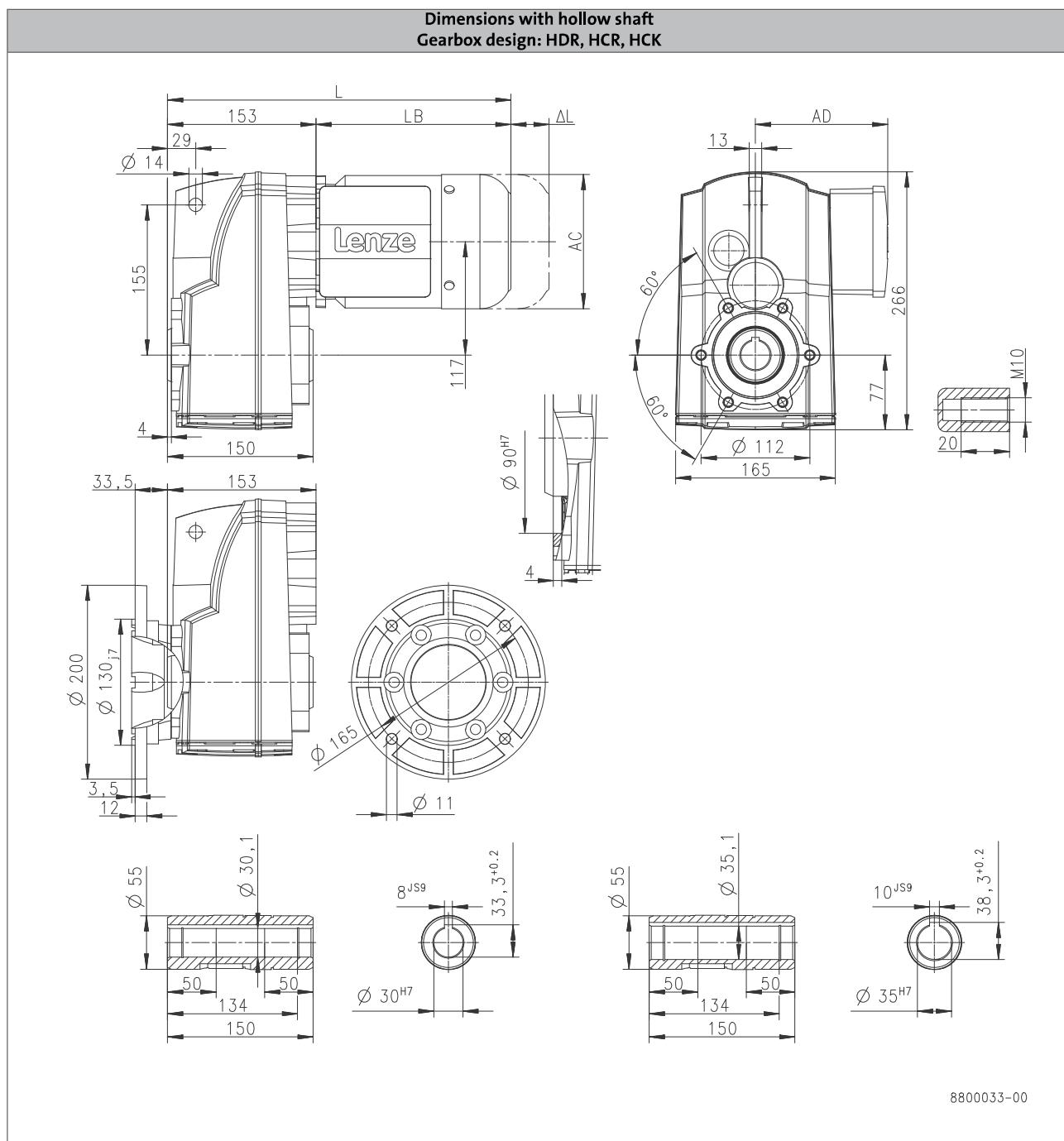
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



6.4

		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length			336		356
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

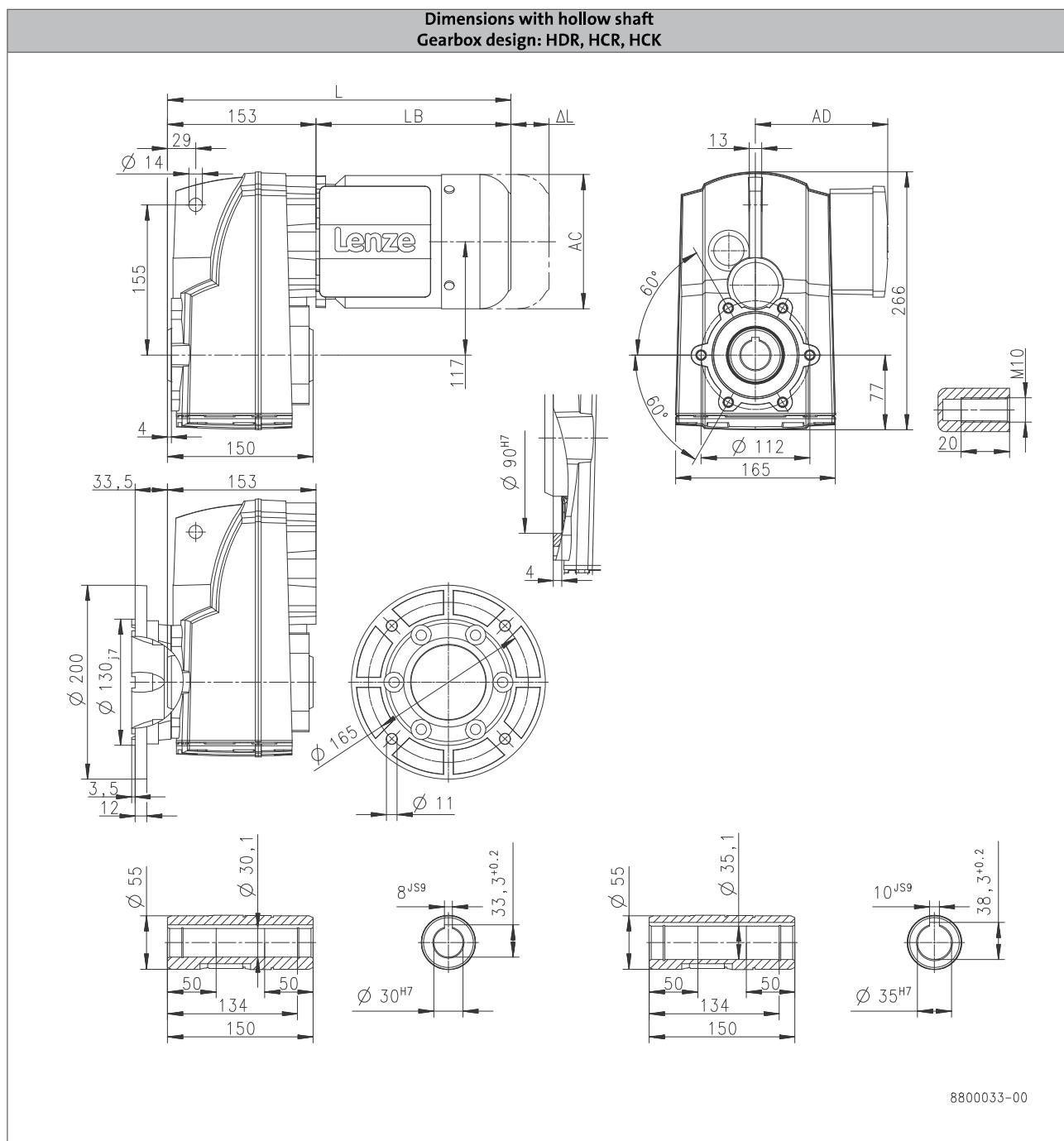
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



		m240					
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4
Total length	L [mm]	378		447		509	496
Motor length	LB [mm]	225		294		356	343
Length of motor options	Δ L [mm]	107		92.0		103	111
Motor diameter	AC [mm]	158		172		192	210
Distance motor/connection	AD [mm]	148		155		164	171

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

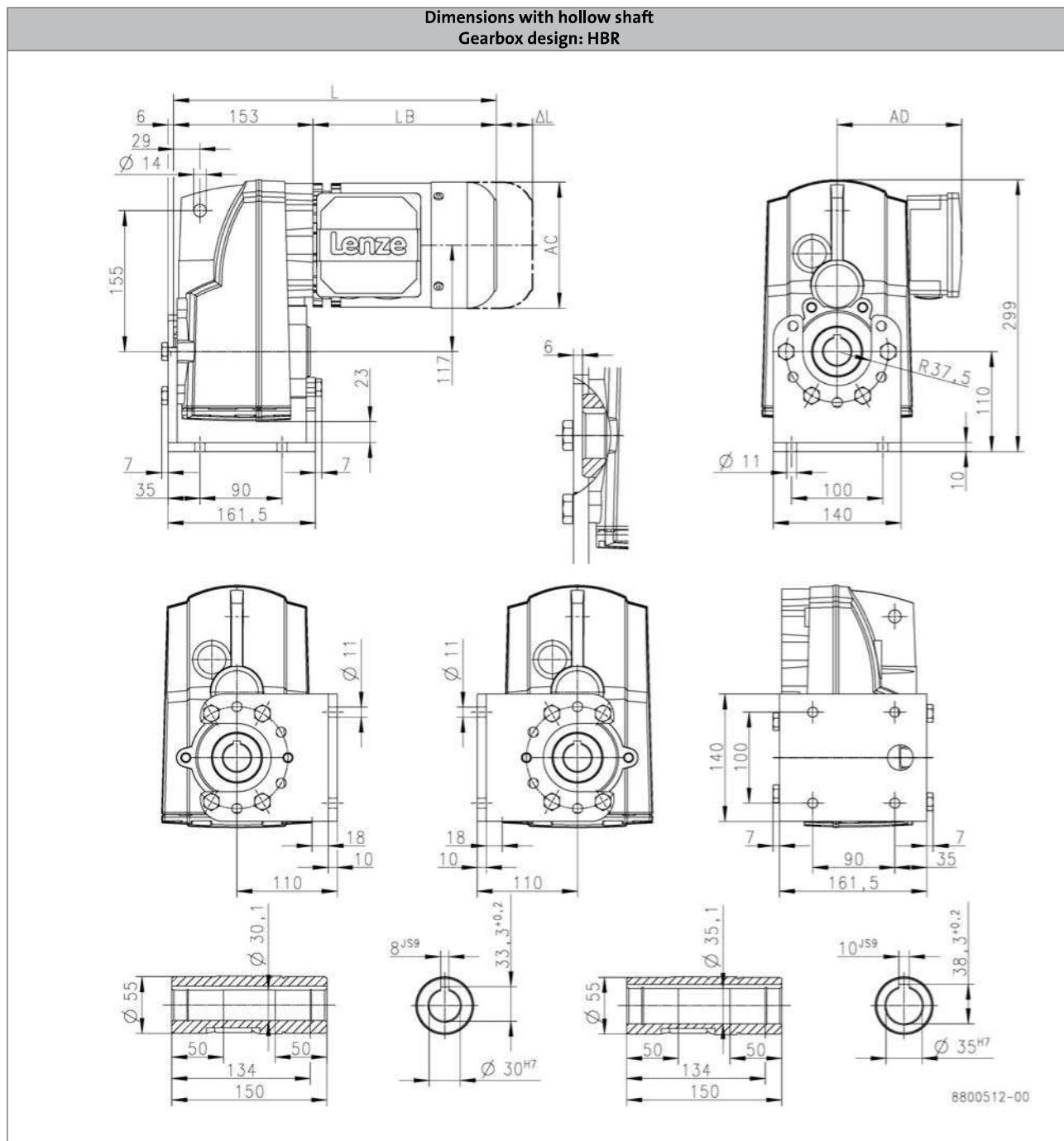
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



		MD□MA□□				
		063-12	063-32	063-42	071-32	071-42
Total length	L [mm]		336			356
Motor length	LB [mm]		183			203
Length of motor options	Δ L [mm]		40.0			52.0
Motor diameter	AC [mm]		123			139
Distance motor/connection	AD [mm]		107			118

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

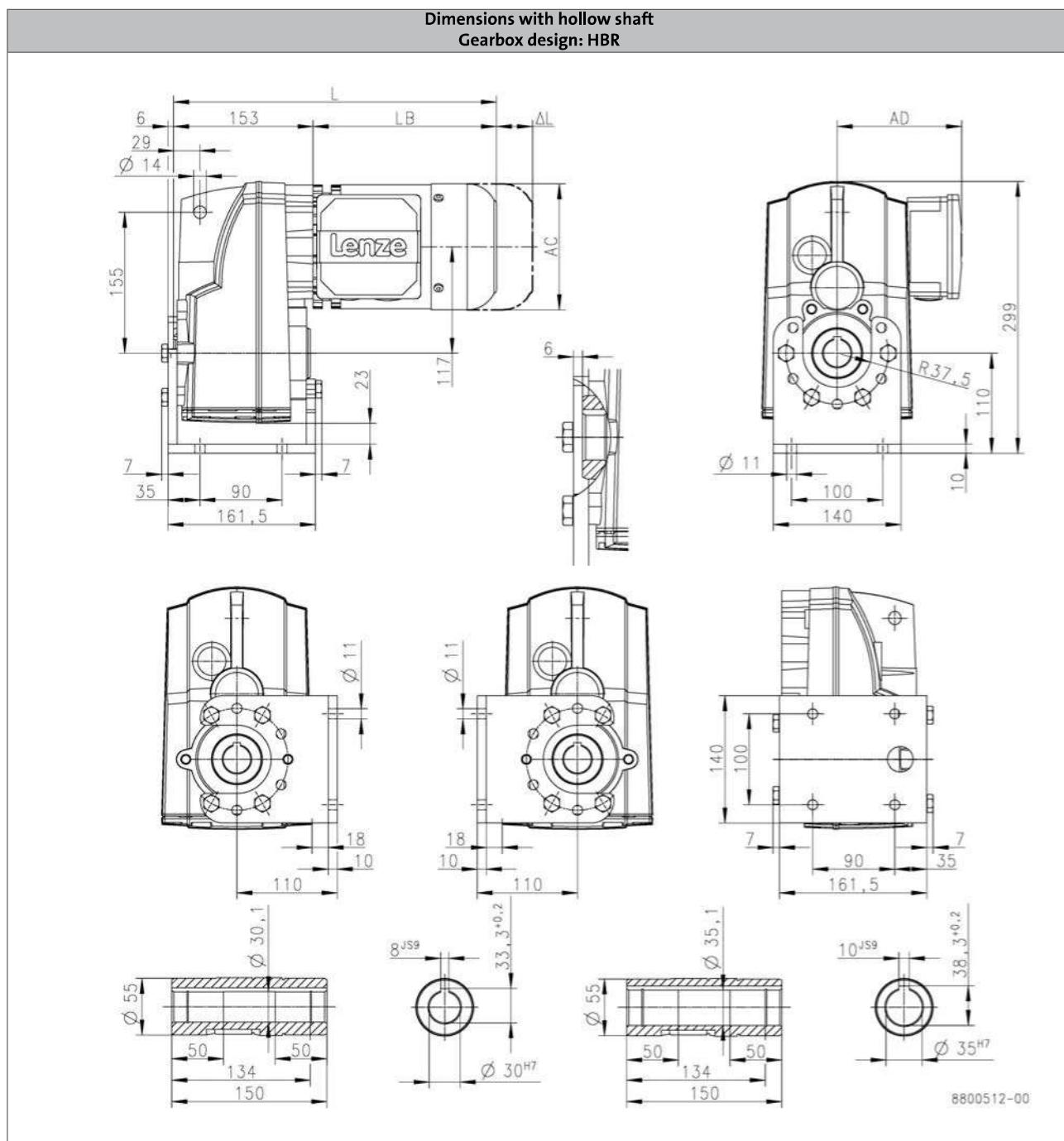
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



		m240					
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4
Total length	L [mm]	378	447		509		496
Motor length	LB [mm]	225	294		356		343
Length of motor options	Δ L [mm]	107	92.0		103		111
Motor diameter	AC [mm]	158	172		192		210
Distance motor/connection	AD [mm]	148	155		164		171

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

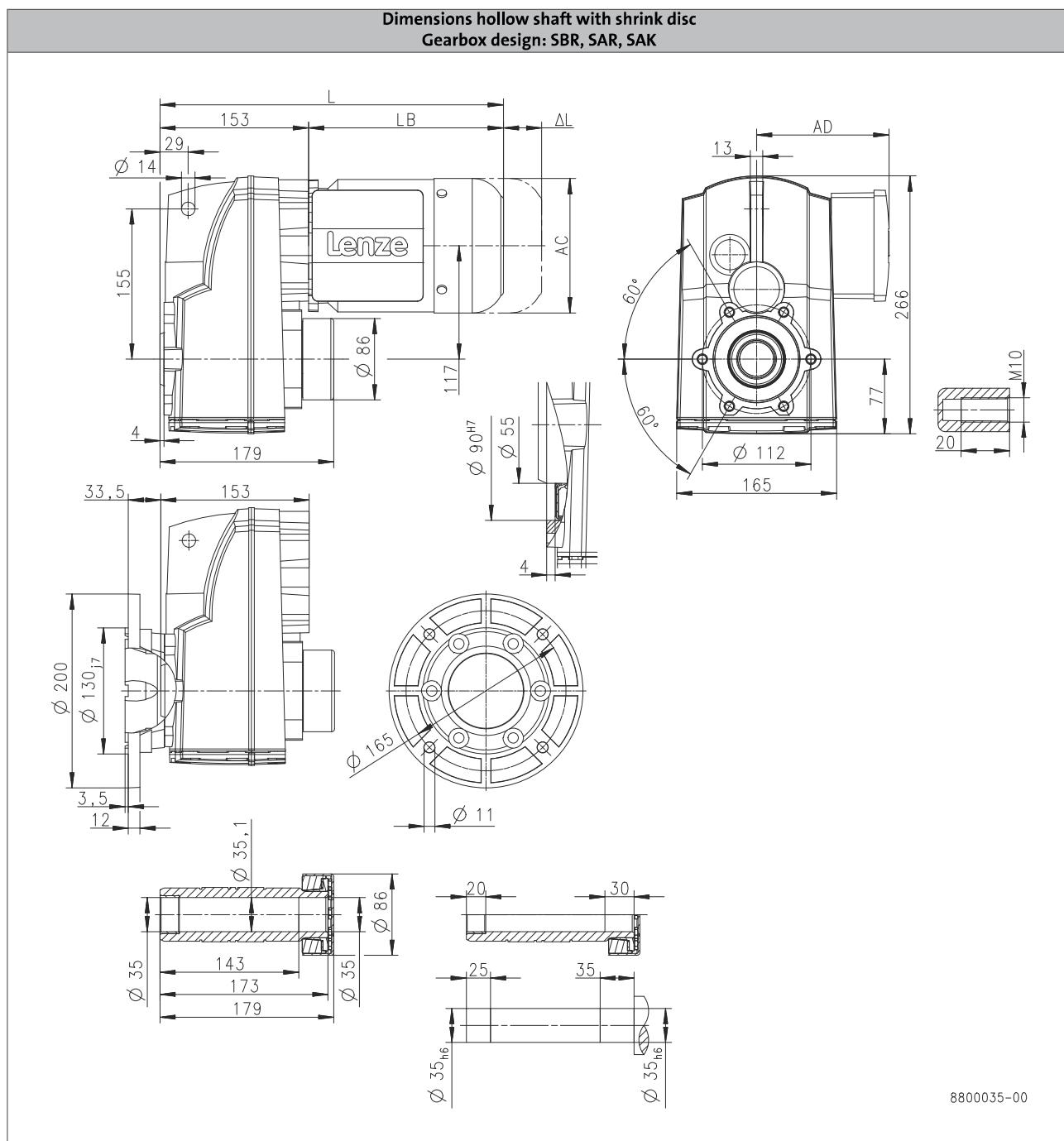
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



6.4

		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length			336		356
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

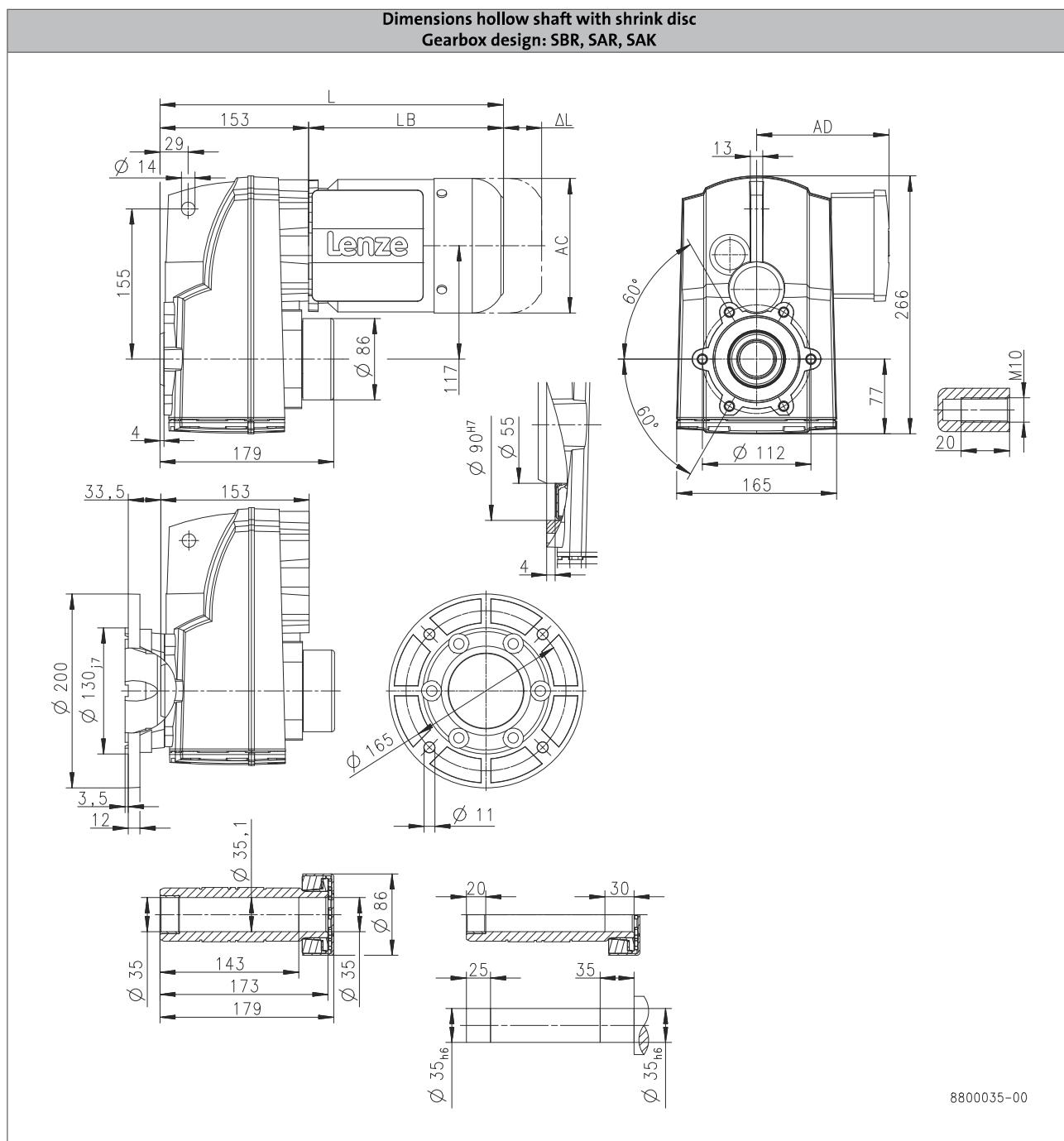
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



		m240				
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4
Total length	L [mm]	378		447		509
Motor length	LB [mm]	225		294		356
Length of motor options	Δ L [mm]	107		92.0		103
Motor diameter	AC [mm]	158		172		192
Distance motor/connection	AD [mm]	148		155		164
		496		111		210

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

184 - Shrink disc dimensions

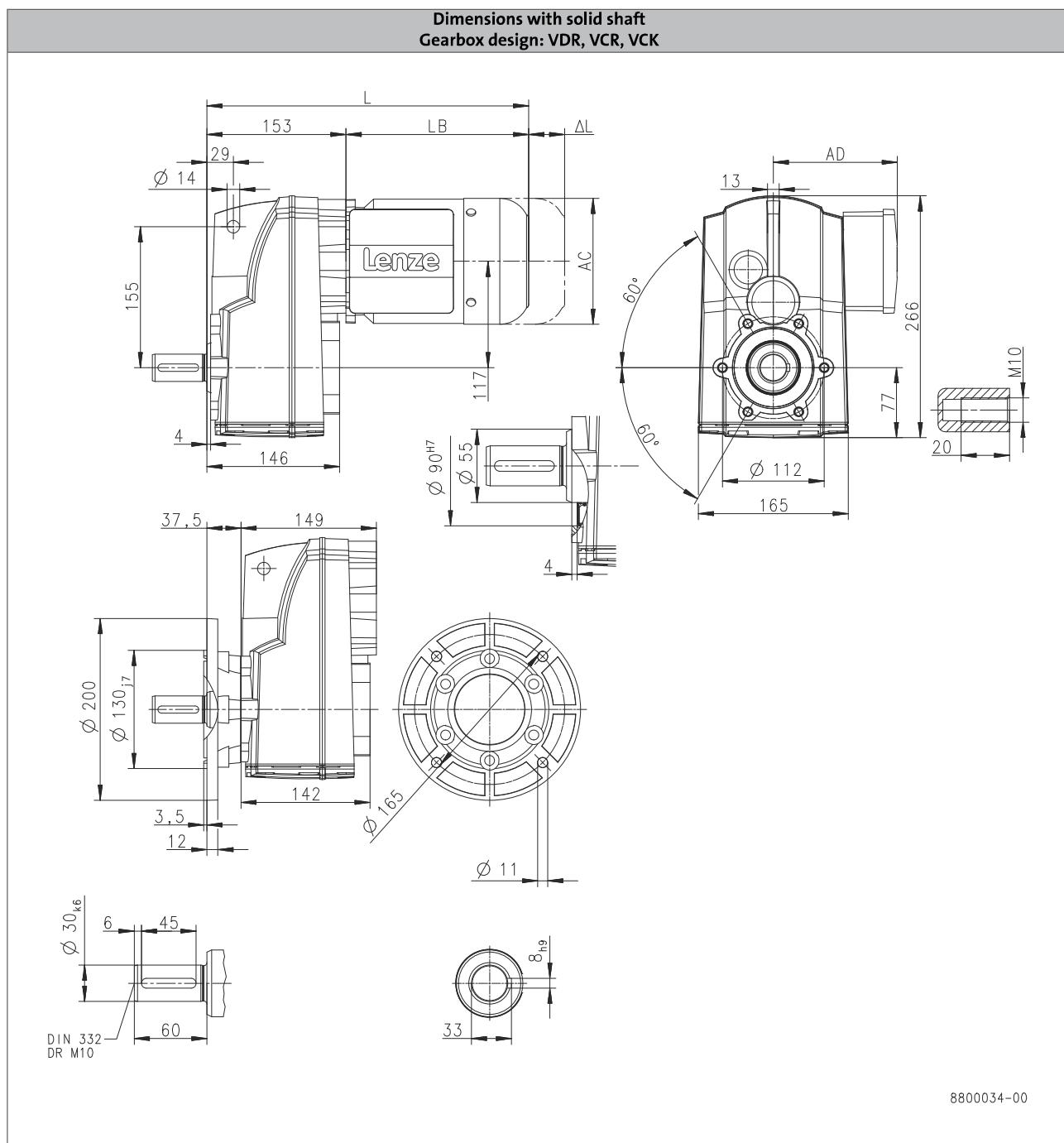
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



6.4

			MD	MA	□□		
			063-12	063-32	063-42	071-32	071-42
Total length	L [mm]			336		356	
Motor length	LB [mm]			183		203	
Length of motor options	ΔL [mm]			40.0		52.0	
Motor diameter	AC [mm]			123		139	
Distance motor/connection	AD [mm]			107		118	

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

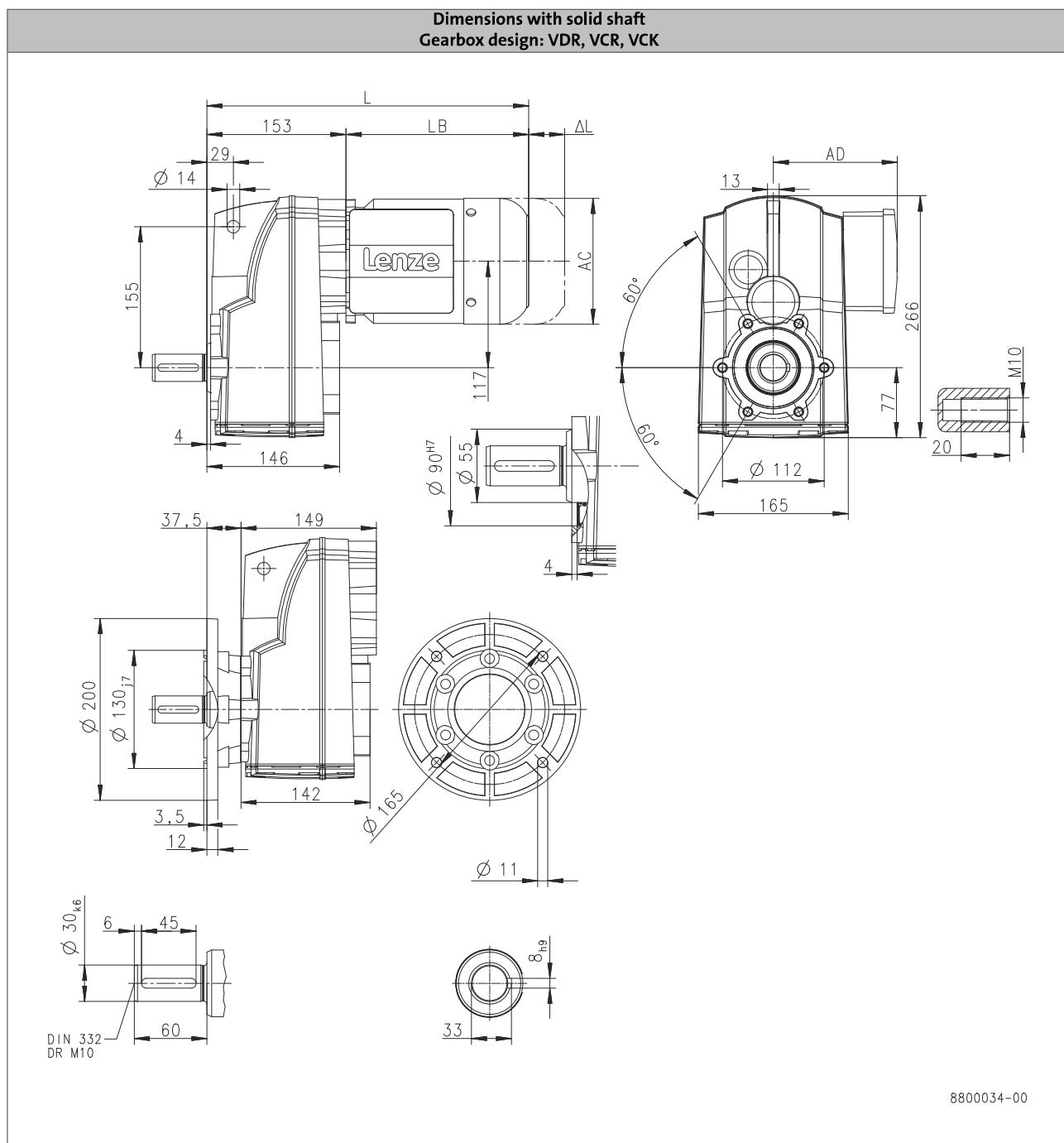
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



		m240					
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4
Total length	L [mm]	378		447		509	496
Motor length	LB [mm]	225		294		356	343
Length of motor options	Δ L [mm]	107		92.0		103	111
Motor diameter	AC [mm]	158		172		192	210
Distance motor/connection	AD [mm]	148		155		164	171

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

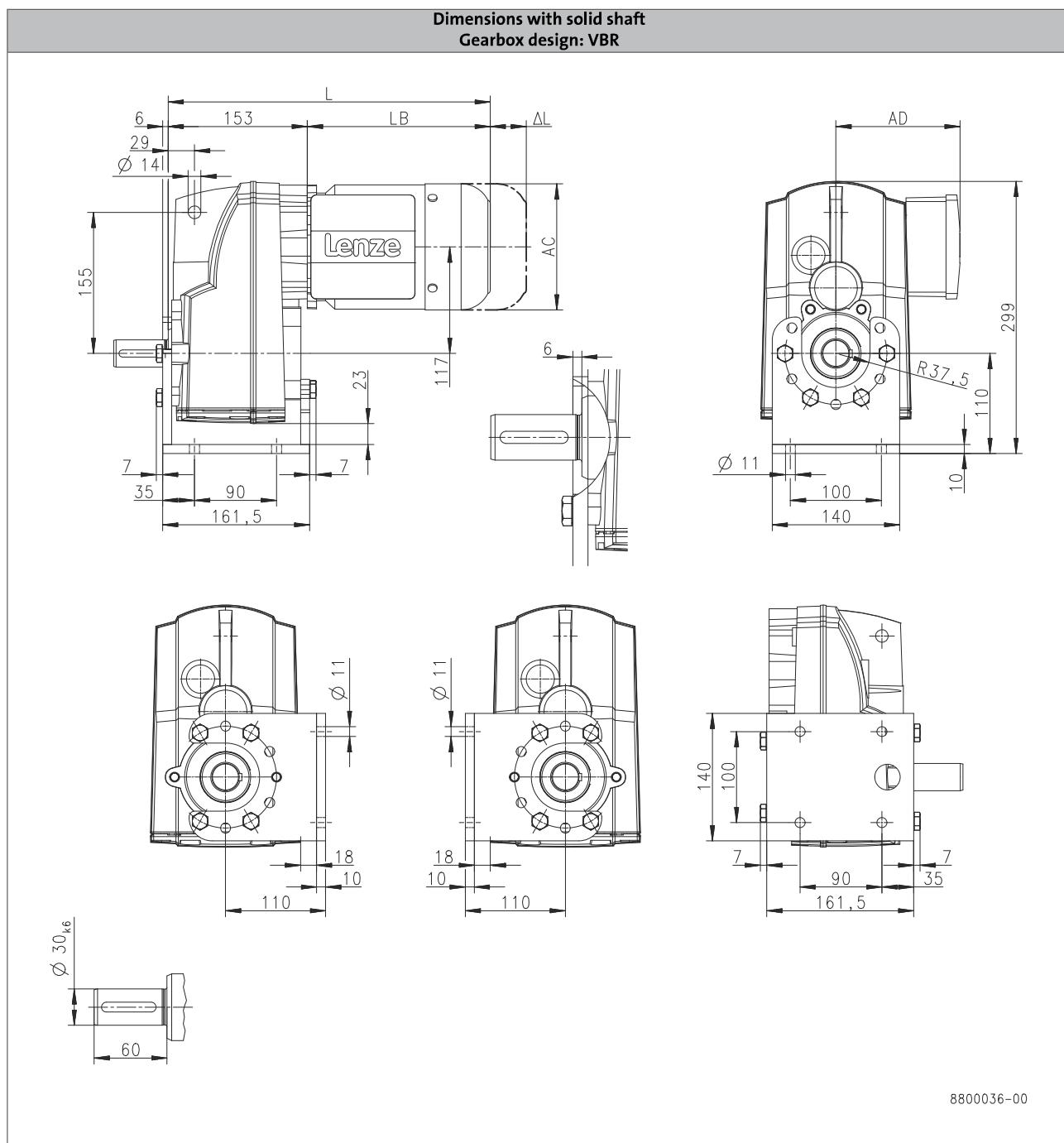
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length		336			356
Motor length	LB [mm]	183			203
Length of motor options	Δ L [mm]	40.0			52.0
Motor diameter	AC [mm]	123			139
Distance motor/connection	AD [mm]	107			118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

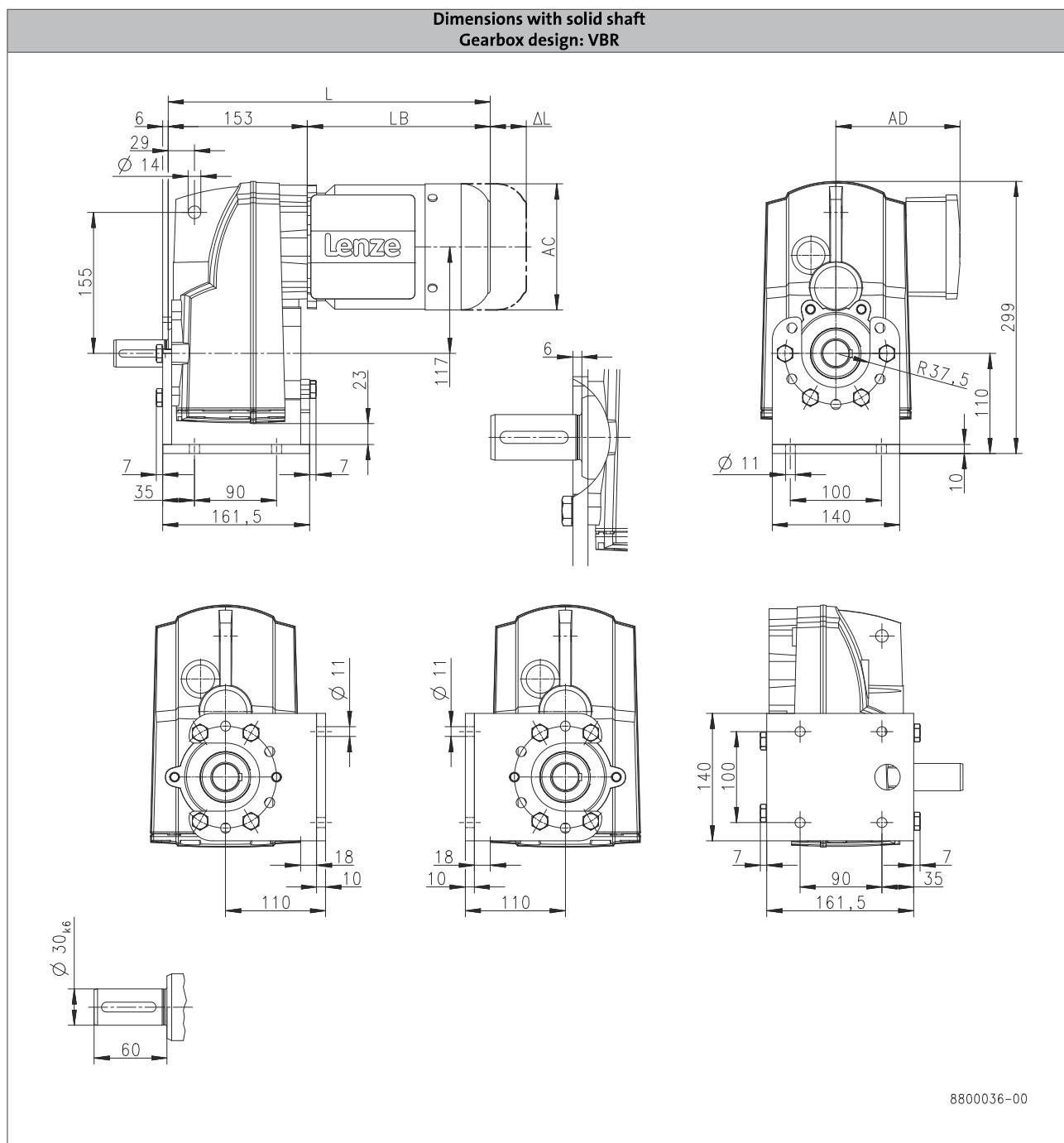
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S400



		m240					
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4
Total length	L [mm]	378		447		509	496
Motor length	LB [mm]	225		294		356	343
Length of motor options	Δ L [mm]	107		92.0		103	111
Motor diameter	AC [mm]	158		172		192	210
Distance motor/connection	AD [mm]	148		155		164	171

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

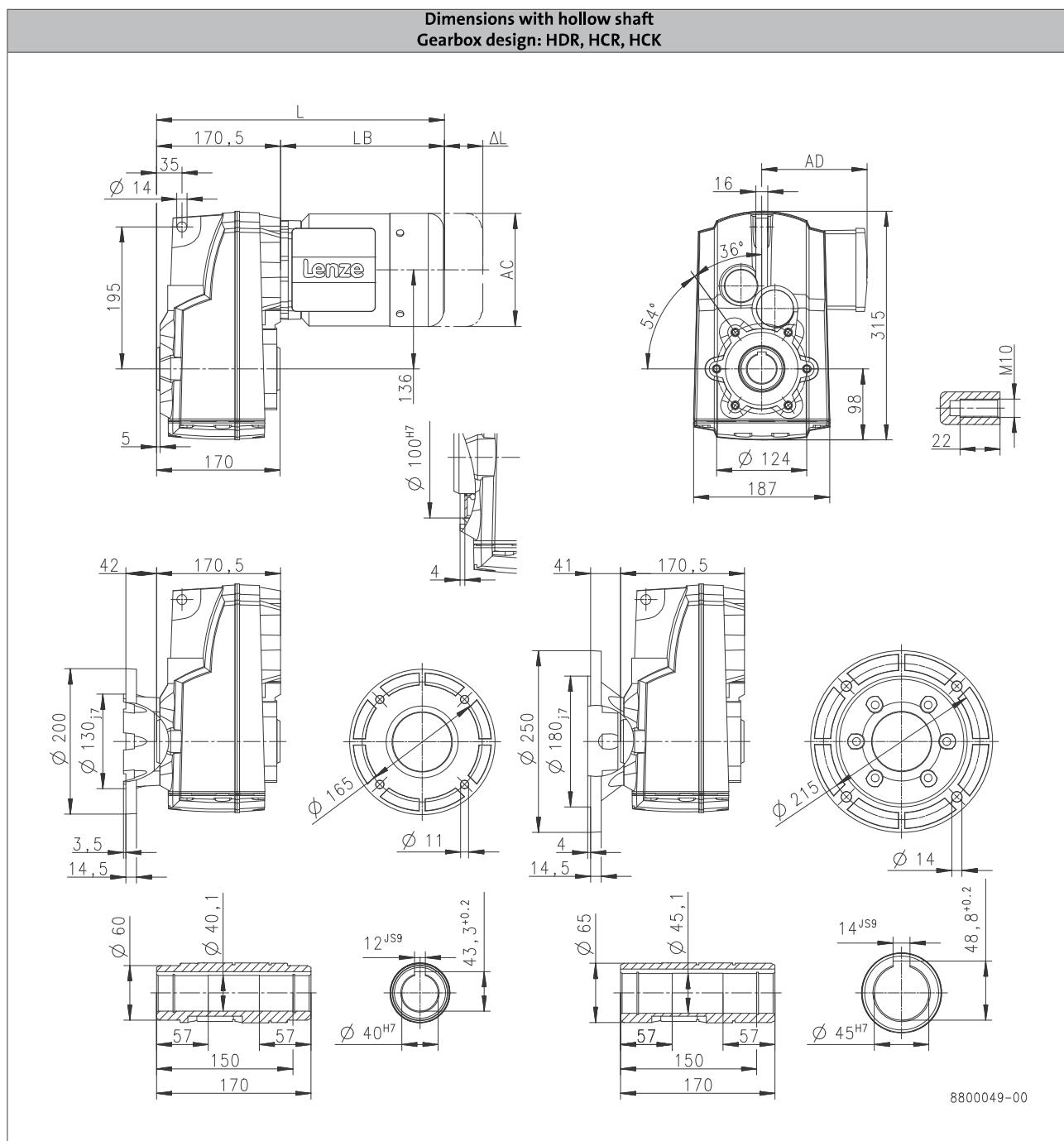
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



6.4

		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length	L [mm]		354		374
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

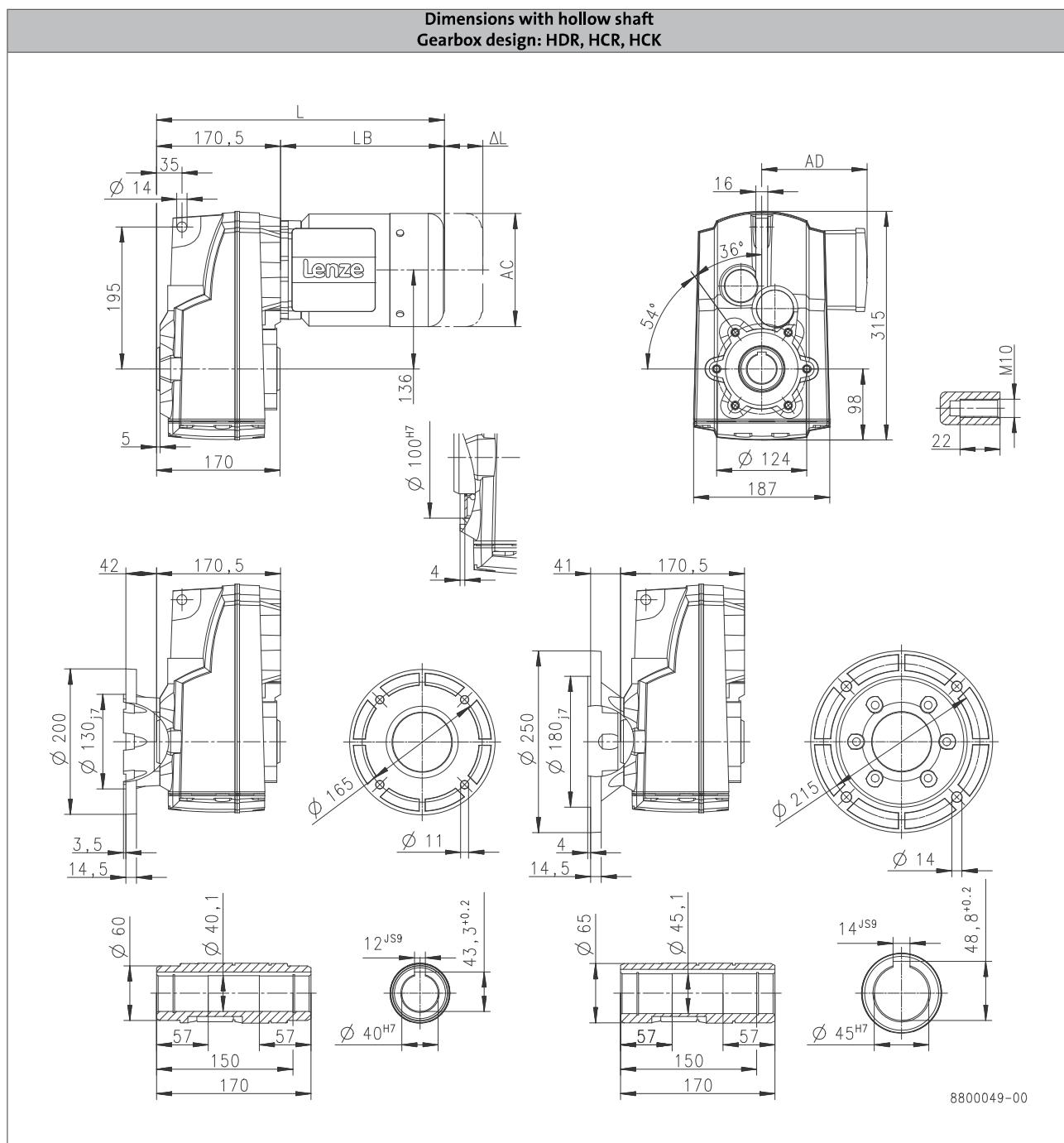
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



		m240							
	L [mm]	-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	396		465		527	514		589
Motor length	LB [mm]	225		294		356	343		418
Length of motor options	Δ L [mm]	107		92.0		103	111		118
Motor diameter	AC [mm]	158		172		192	210		281
Distance motor/connection	AD [mm]	148		155		164	171		182

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

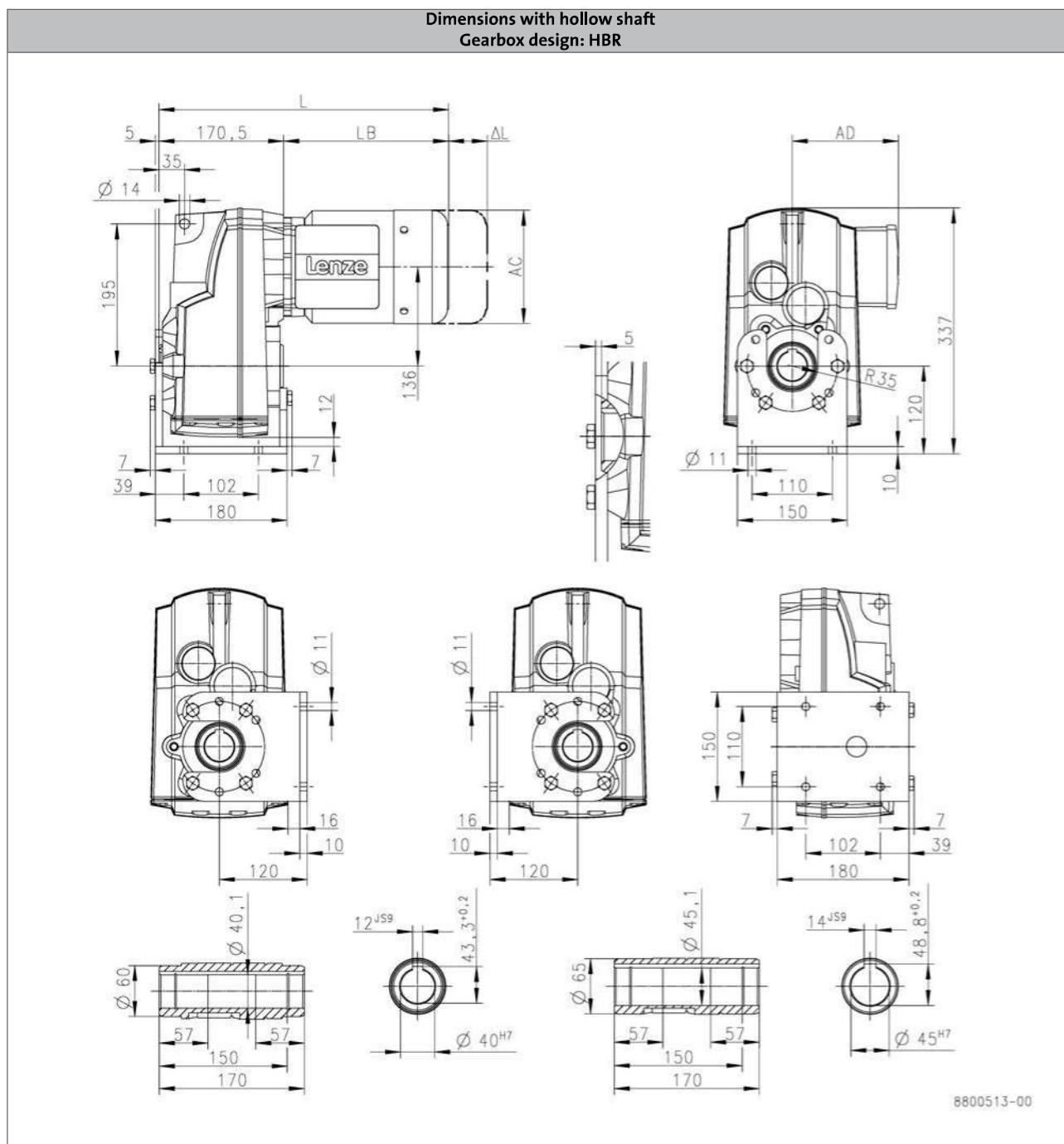
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



			MD□MA□□	
			063-12	063-32
Total length	L [mm]		354	374
Motor length	LB [mm]		183	203
Length of motor options	Δ L [mm]		40.0	52.0
Motor diameter	AC [mm]		123	139
Distance motor/connection	AD [mm]		107	118

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

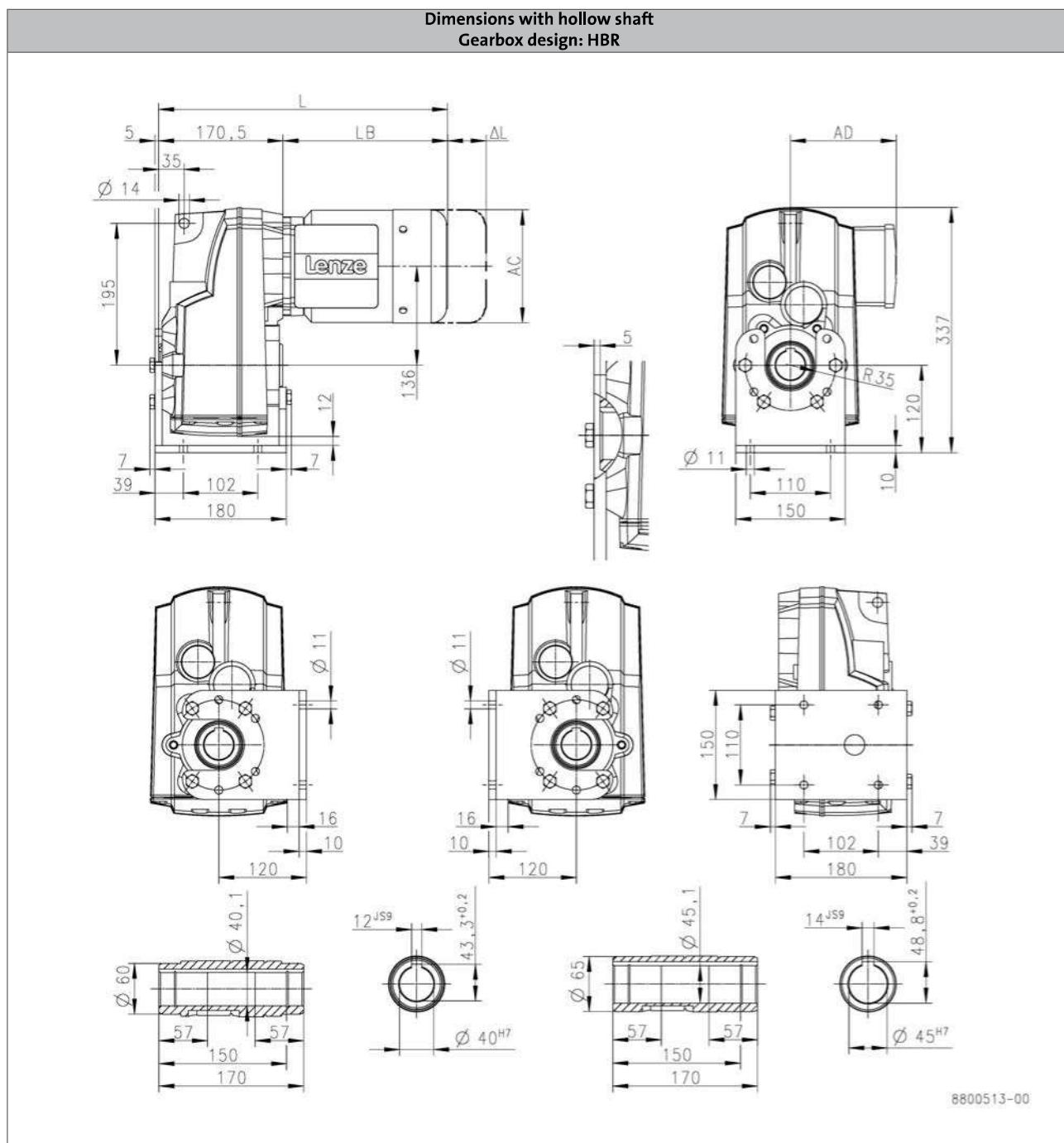
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	396	465		527		514		589
Motor length	LB [mm]	225	294		356		343		418
Length of motor options	Δ L [mm]	107	92.0		103		111		118
Motor diameter	AC [mm]	158	172		192		210		281
Distance motor/connection	AD [mm]	148	155		164		171		182

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

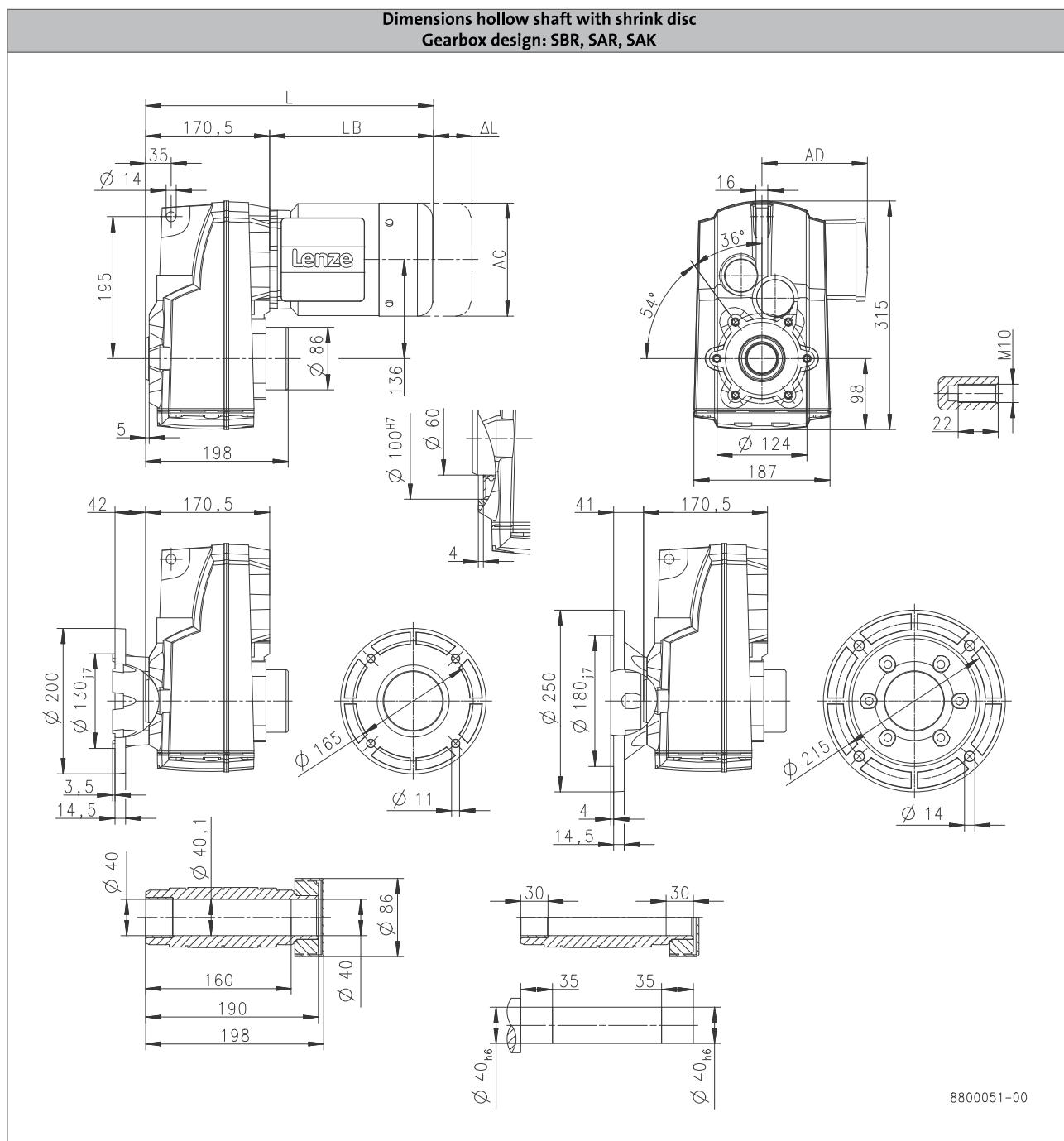
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



6.4

		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length			354		374
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

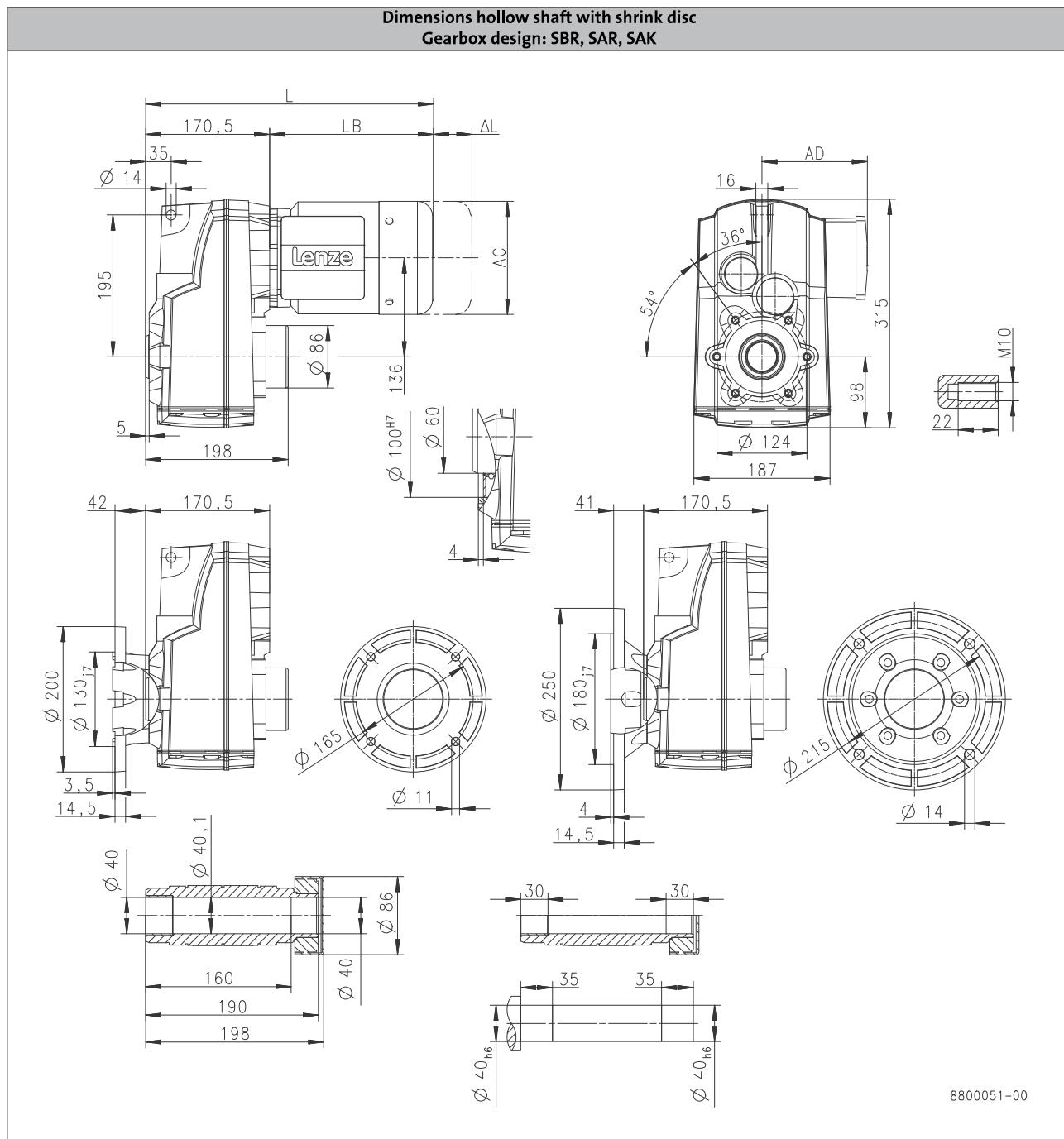
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



6.4

		m240							
	L [mm]	-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	396		465		527		514	589
Motor length	LB [mm]	225		294		356		343	418
Length of motor options	Δ L [mm]	107		92.0		103		111	118
Motor diameter	AC [mm]	158		172		192		210	281
Distance motor/connection	AD [mm]	148		155		164		171	182

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

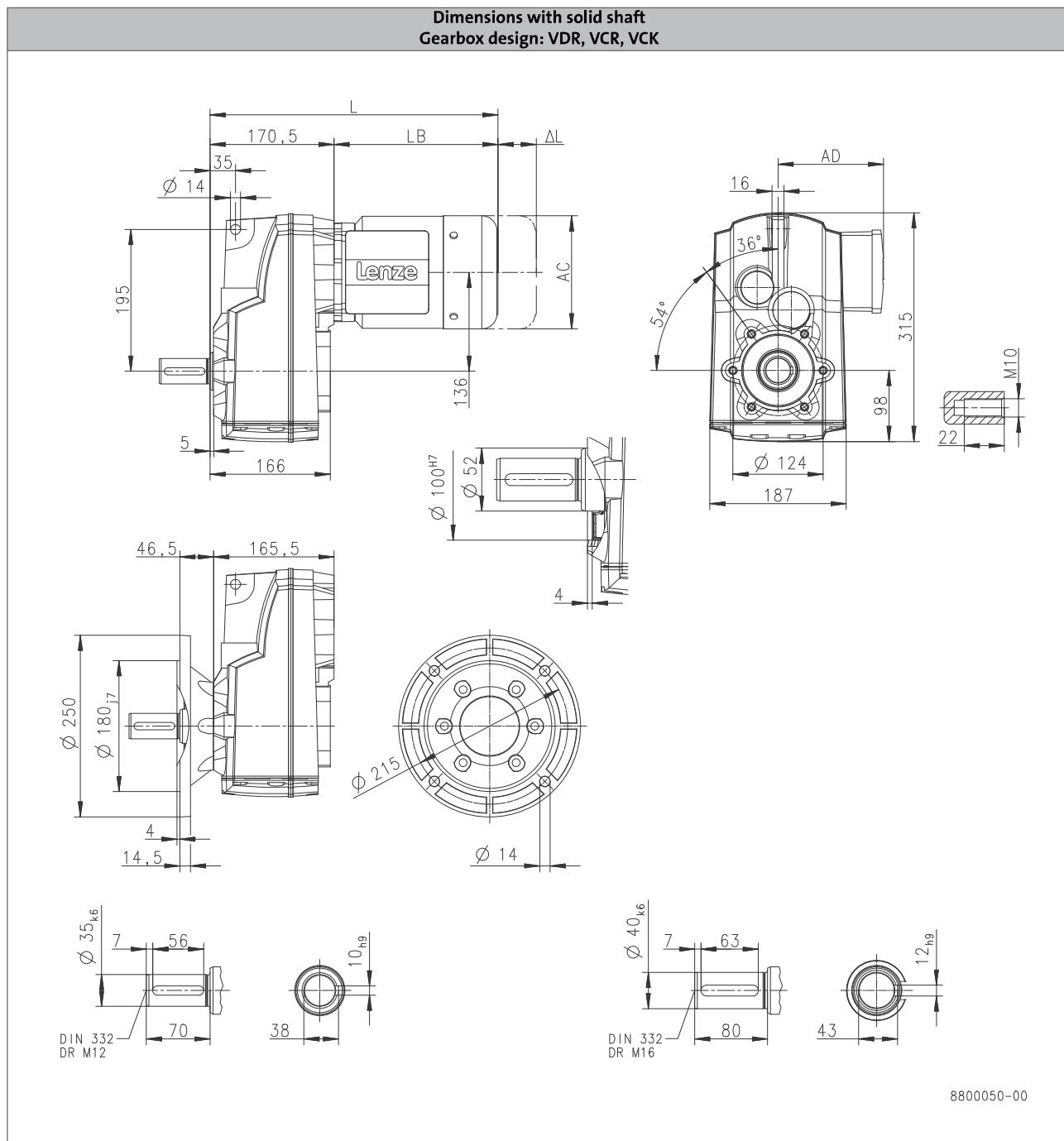
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



		MD□MA□□			
	L [mm]	063-12	063-32	063-42	071-32
Total length			354		374
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

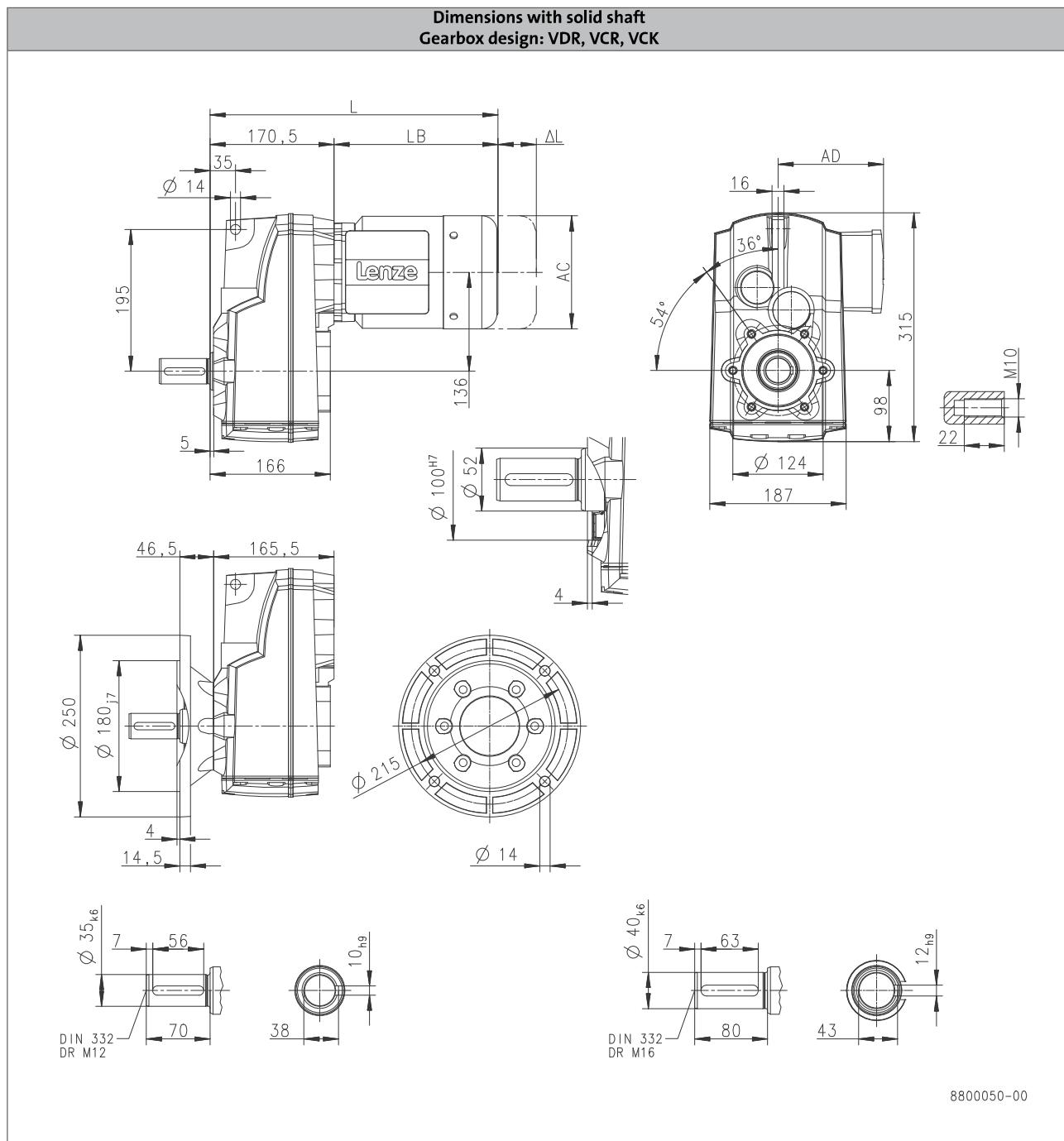
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



6.4

		m240							
	L [mm]	-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	396		465		527		514	589
Motor length	LB [mm]	225		294		356		343	418
Length of motor options	Δ L [mm]	107		92.0		103		111	118
Motor diameter	AC [mm]	158		172		192		210	281
Distance motor/connection	AD [mm]	148		155		164		171	182

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

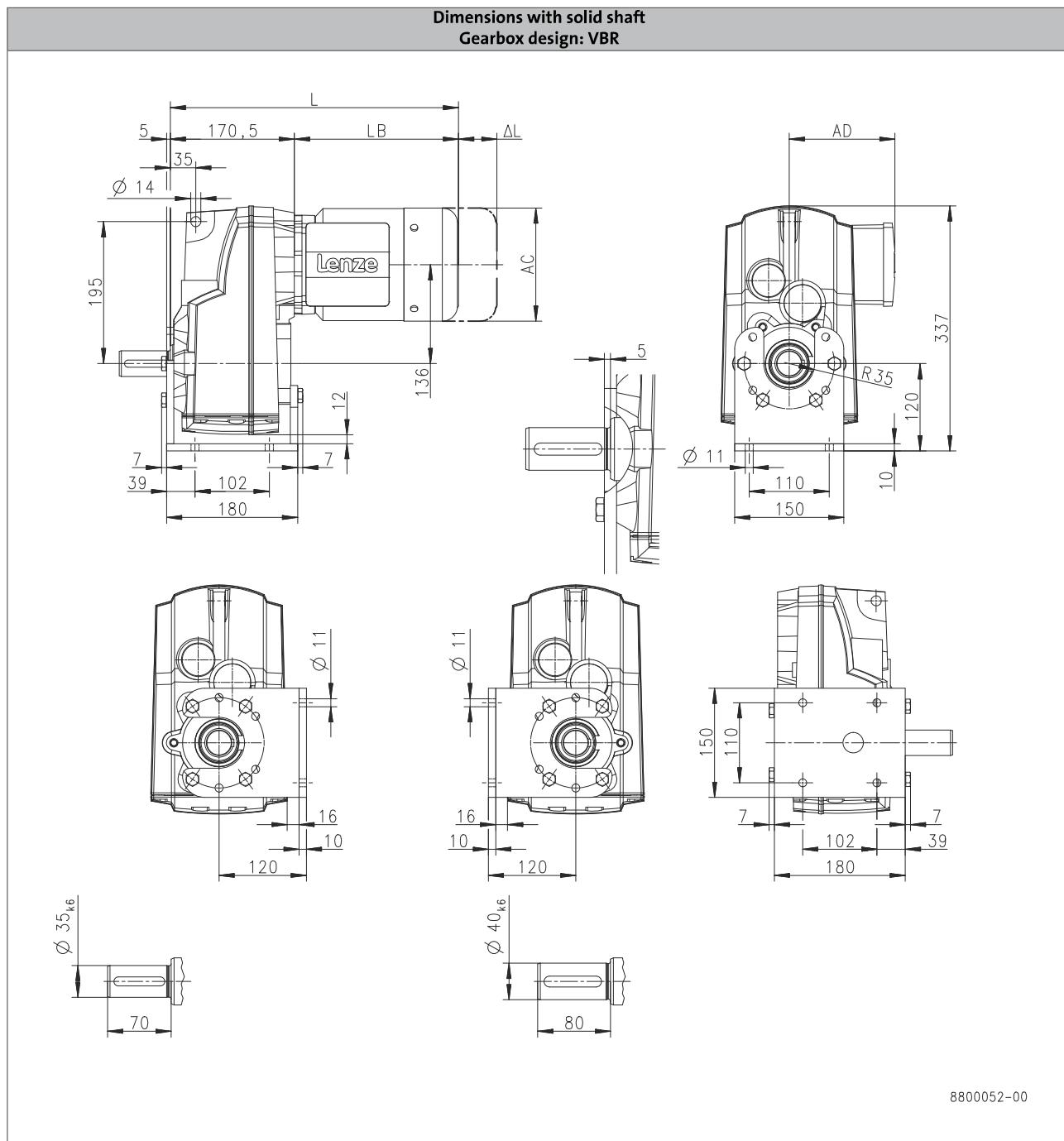
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



6.4

		MD□MA□□			
		063-12	063-32	063-42	071-32
Total length	L [mm]		354		374
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]	40.0		52.0	
Motor diameter	AC [mm]	123		139	
Distance motor/connection	AD [mm]	107		118	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

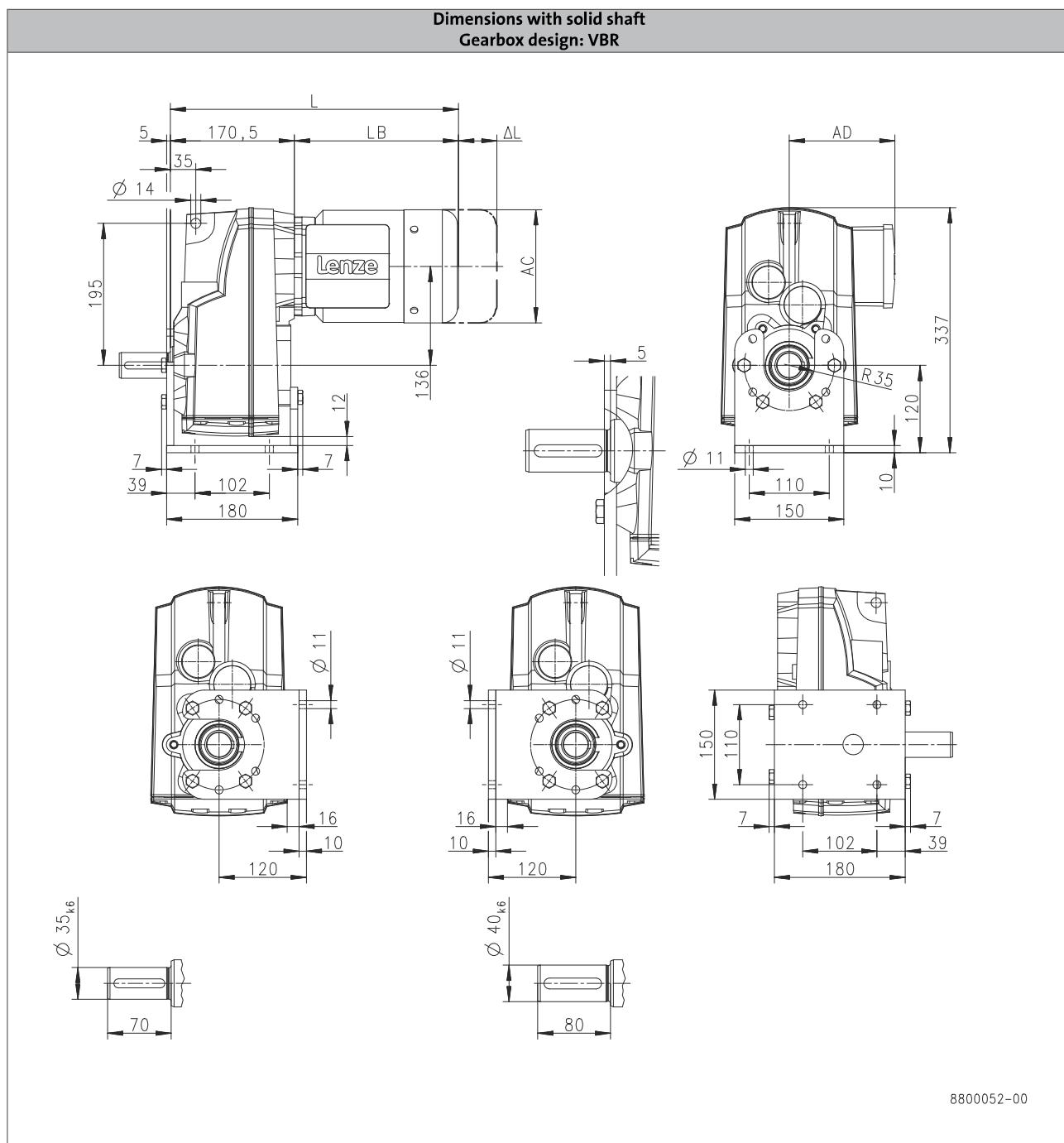
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S660



		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	396		465		527		514	589
Motor length	LB [mm]	225		294		356		343	418
Length of motor options	Δ L [mm]	107		92.0		103		111	118
Motor diameter	AC [mm]	158		172		192		210	281
Distance motor/connection	AD [mm]	148		155		164		171	182

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

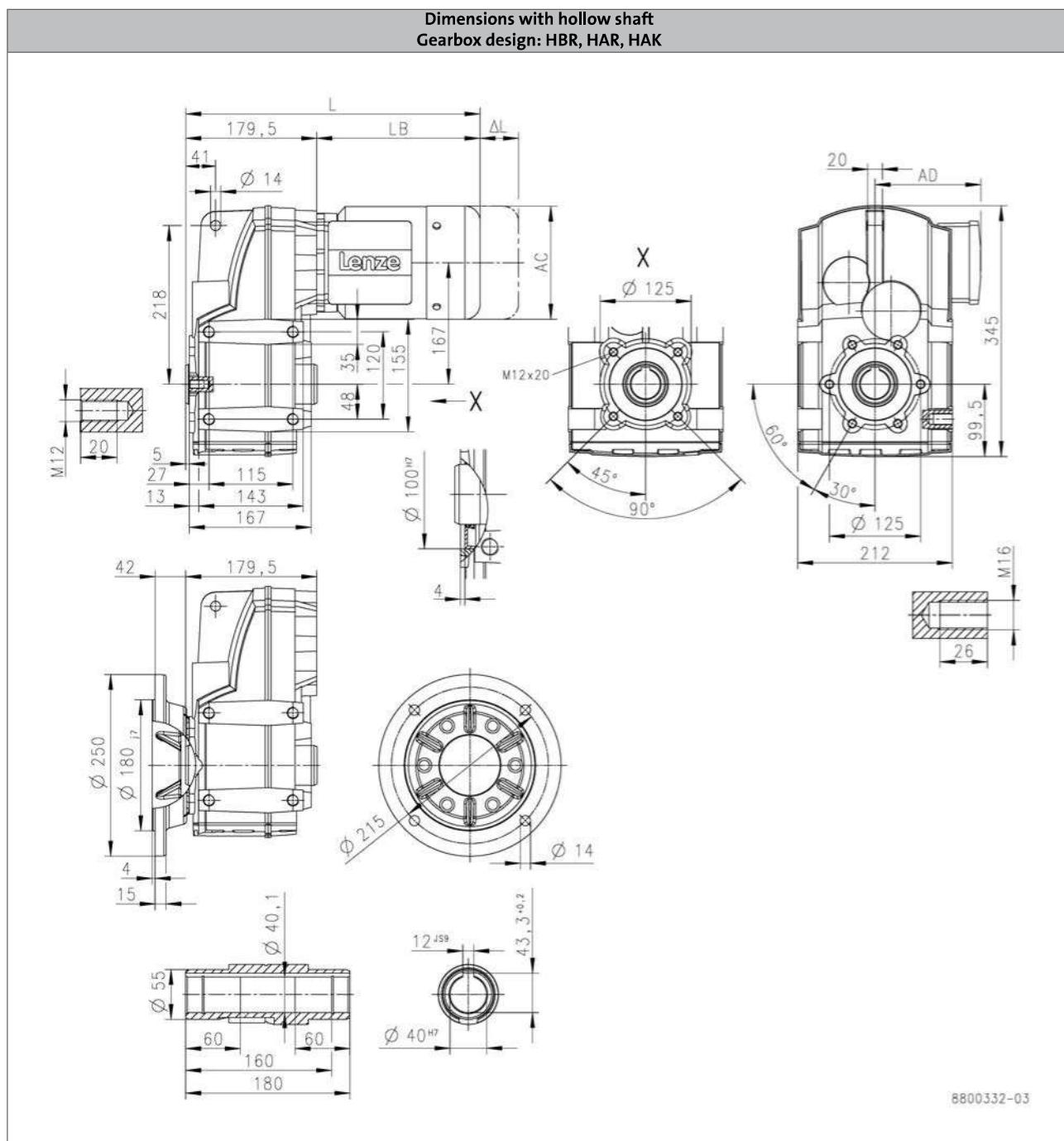
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S950



		MD□MA□□				
		063-12	063-32	063-42	071-32	071-42
Total length	L [mm]		363		383	
Motor length	LB [mm]		183		203	
Length of motor options	Δ L [mm]	40.0			52.0	
Motor diameter	AC [mm]	123			139	
Distance motor/connection	AD [mm]	107			118	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

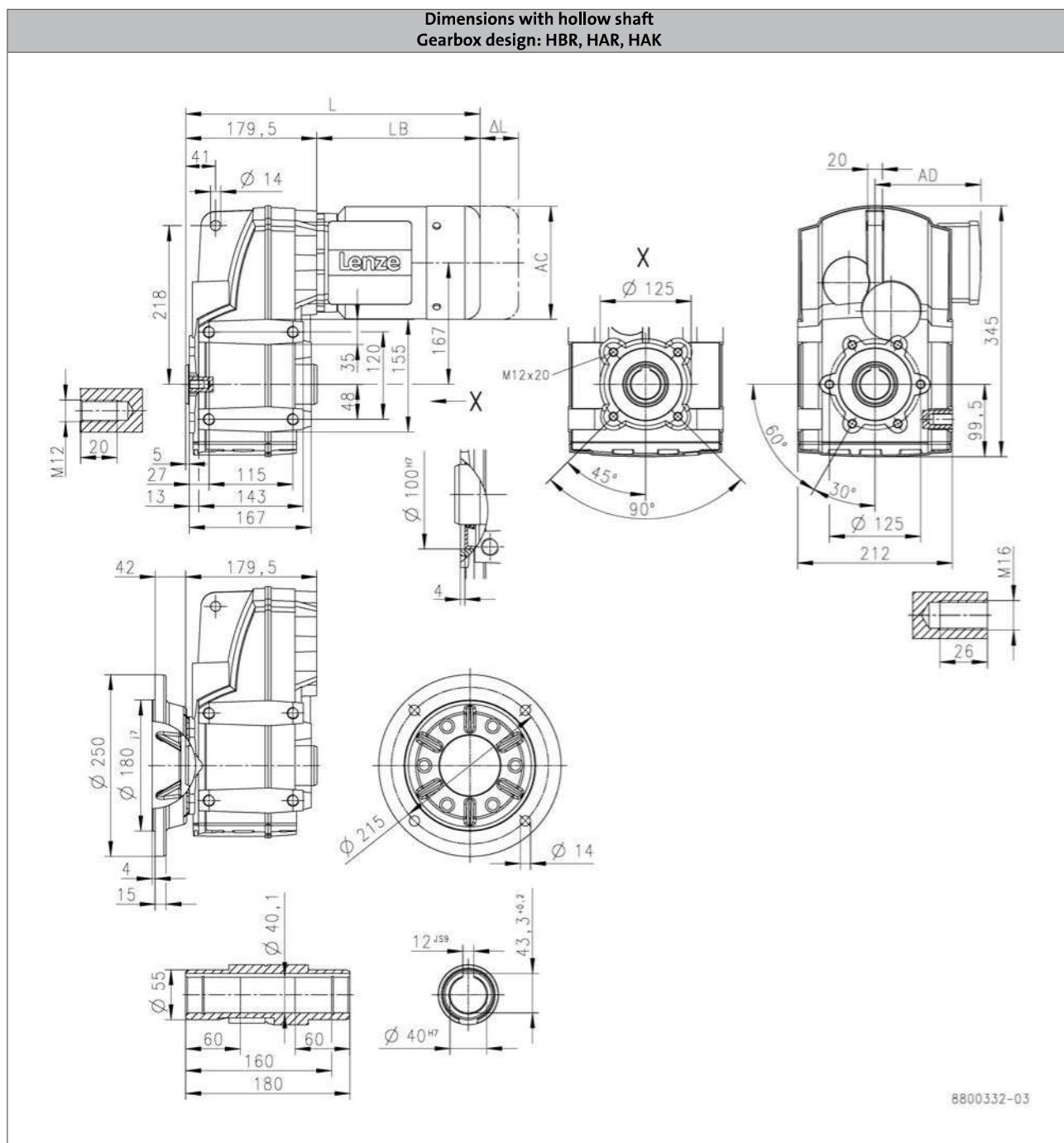
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S950



		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	405		474		536		523	598
Motor length	LB [mm]	225		294		356		343	418
Length of motor options	Δ L [mm]	107		92.0		103		111	118
Motor diameter	AC [mm]	158		172		192		210	281
Distance motor/connection	AD [mm]	148		155		164		171	182

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

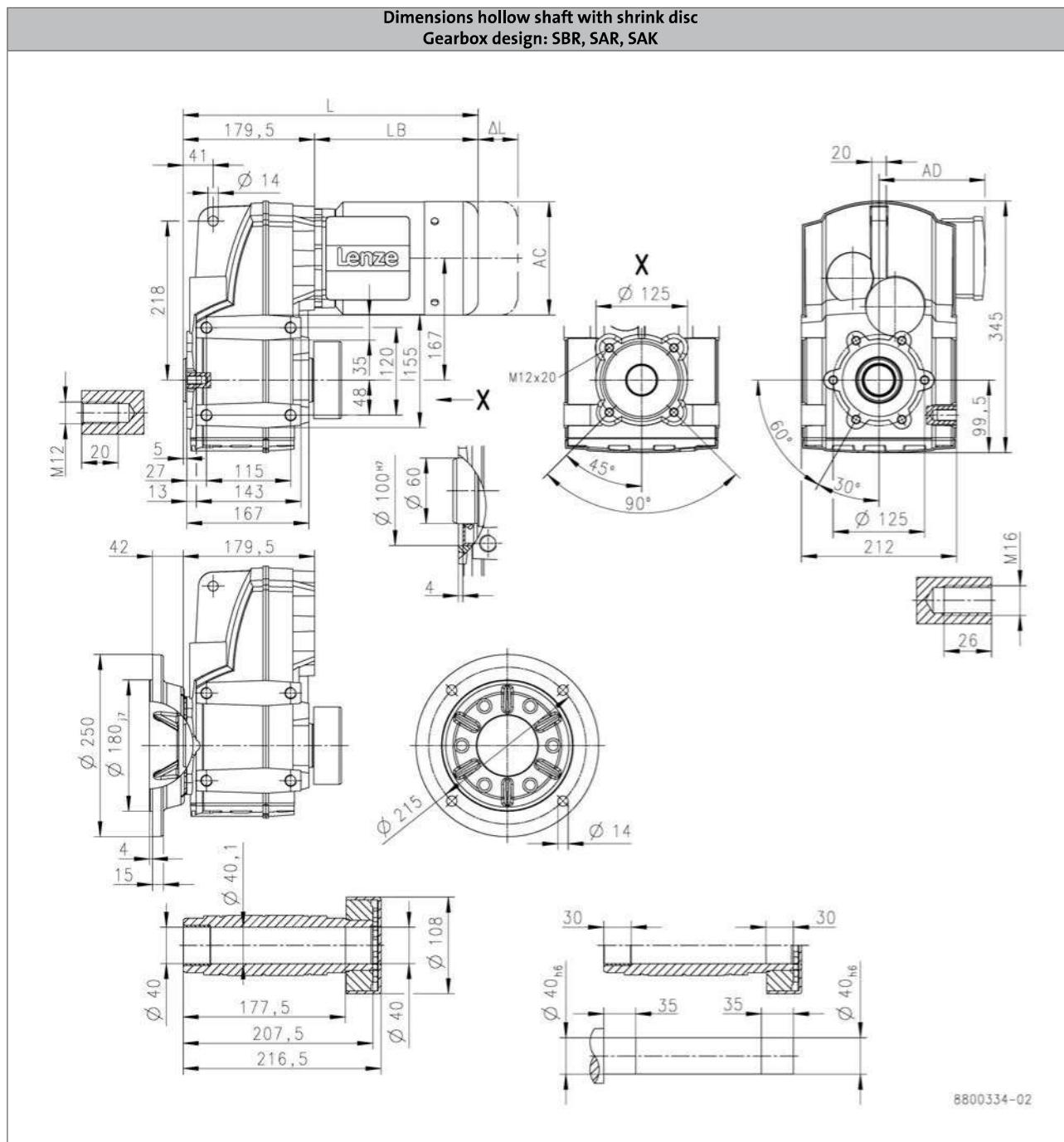
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S950



6.4

		MD□MA□□				
		063-12	063-32	063-42	071-32	071-42
Total length	L [mm]		363		383	
Motor length	LB [mm]		183		203	
Length of motor options	Δ L [mm]	40.0			52.0	
Motor diameter	AC [mm]	123			139	
Distance motor/connection	AD [mm]	107			118	

L = length of the motor without built-on accessories
ΔL = additional length of the built-on accessories (with brake)

184 - Shrink disc dimensions

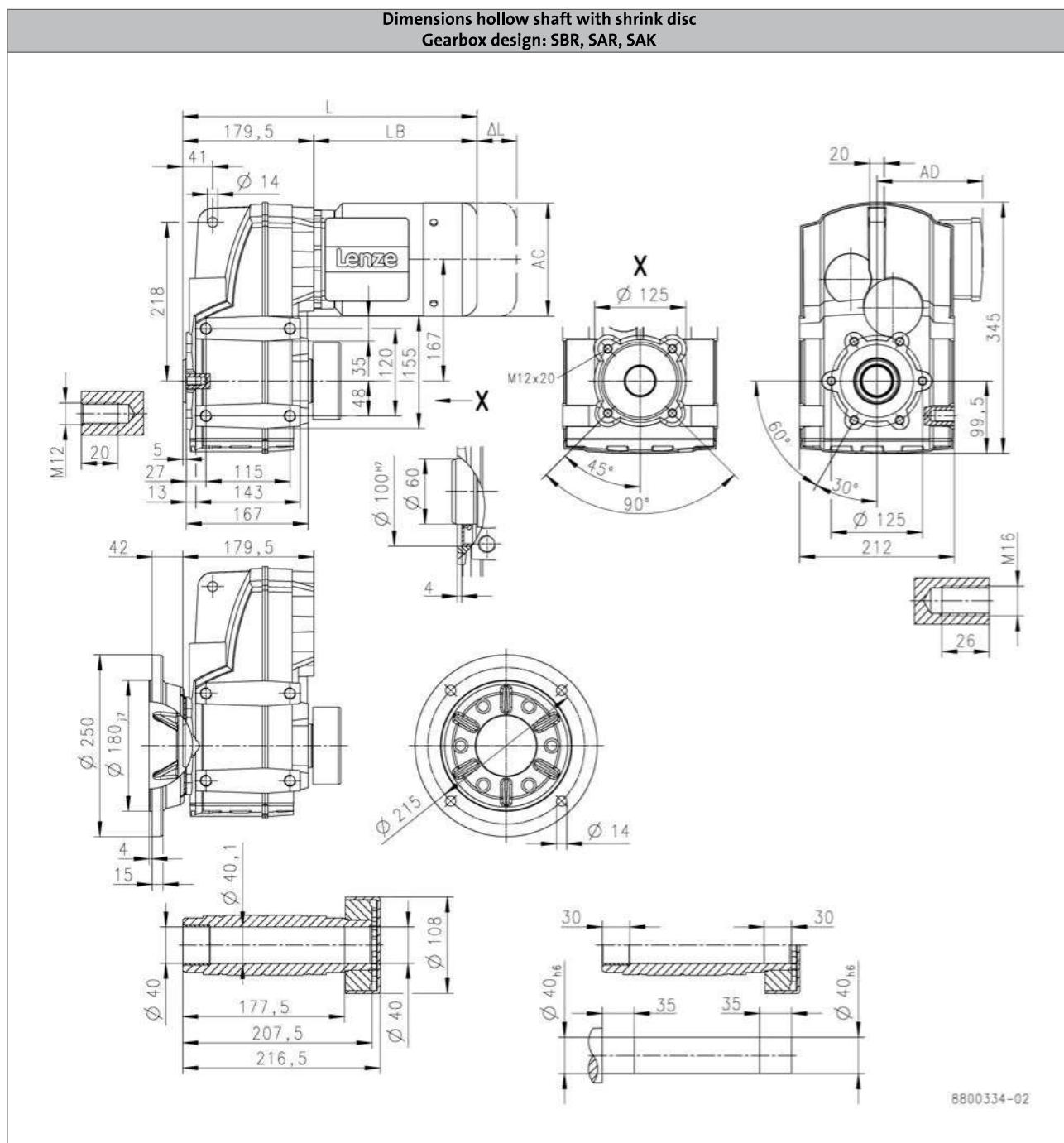
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S950



6.4

		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	405		474		536		523	598
Motor length	LB [mm]	225		294		356		343	418
Length of motor options	Δ L [mm]	107		92.0		103		111	118
Motor diameter	AC [mm]	158		172		192		210	281
Distance motor/connection	AD [mm]	148		155		164		171	182

L = length of the motor without built-on accessories
ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

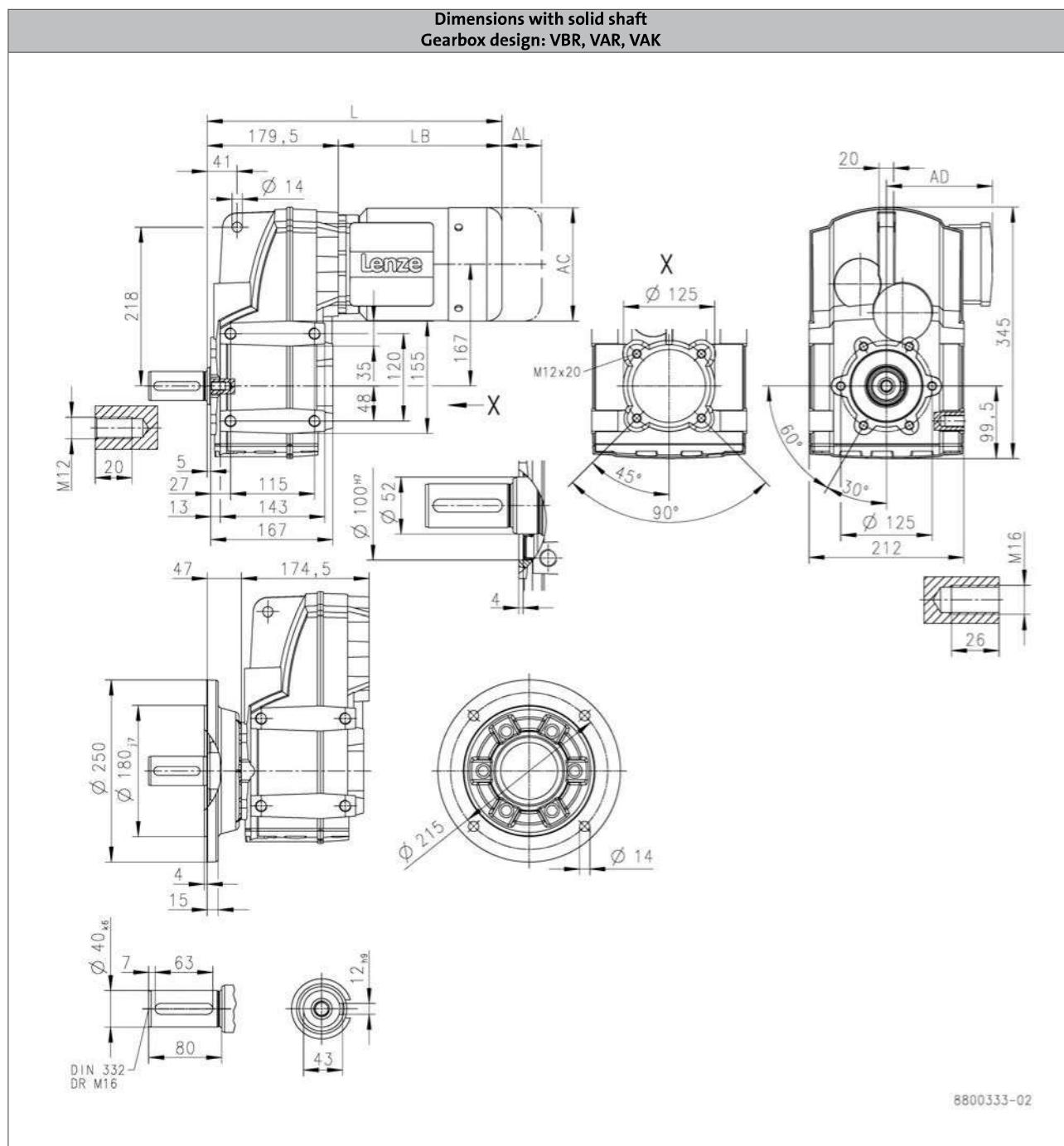
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S950



		MD□MA□□				
		063-12	063-32	063-42	071-32	071-42
Total length	L [mm]		363		383	
Motor length	LB [mm]		183		203	
Length of motor options	Δ L [mm]	40.0			52.0	
Motor diameter	AC [mm]	123			139	
Distance motor/connection	AD [mm]	107			118	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

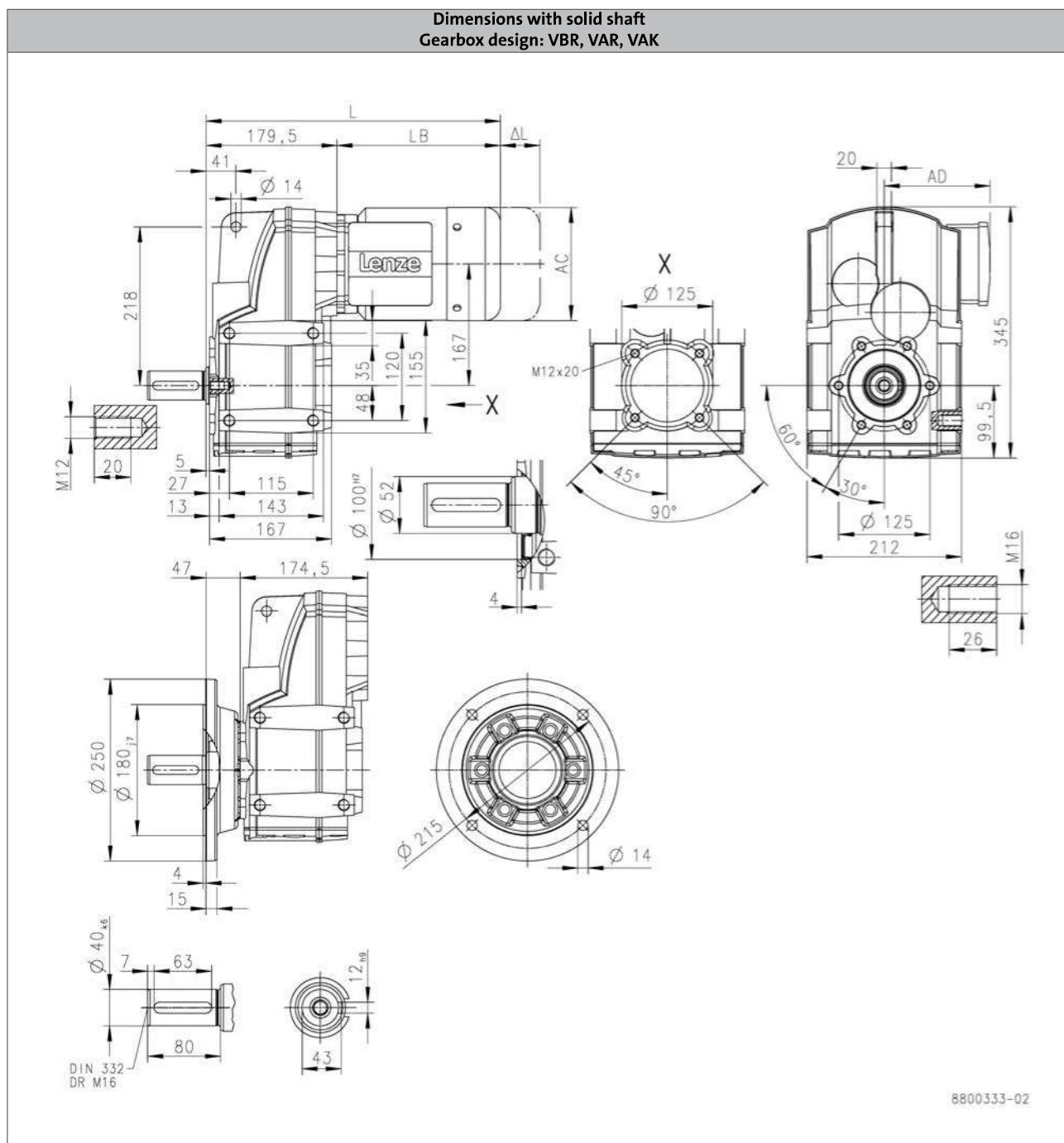
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S950



		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	405	474		536		523		598
Motor length	LB [mm]	225	294		356		343		418
Length of motor options	Δ L [mm]	107	92.0		103		111		118
Motor diameter	AC [mm]	158	172		192		210		281
Distance motor/connection	AD [mm]	148	155		164		171		182

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

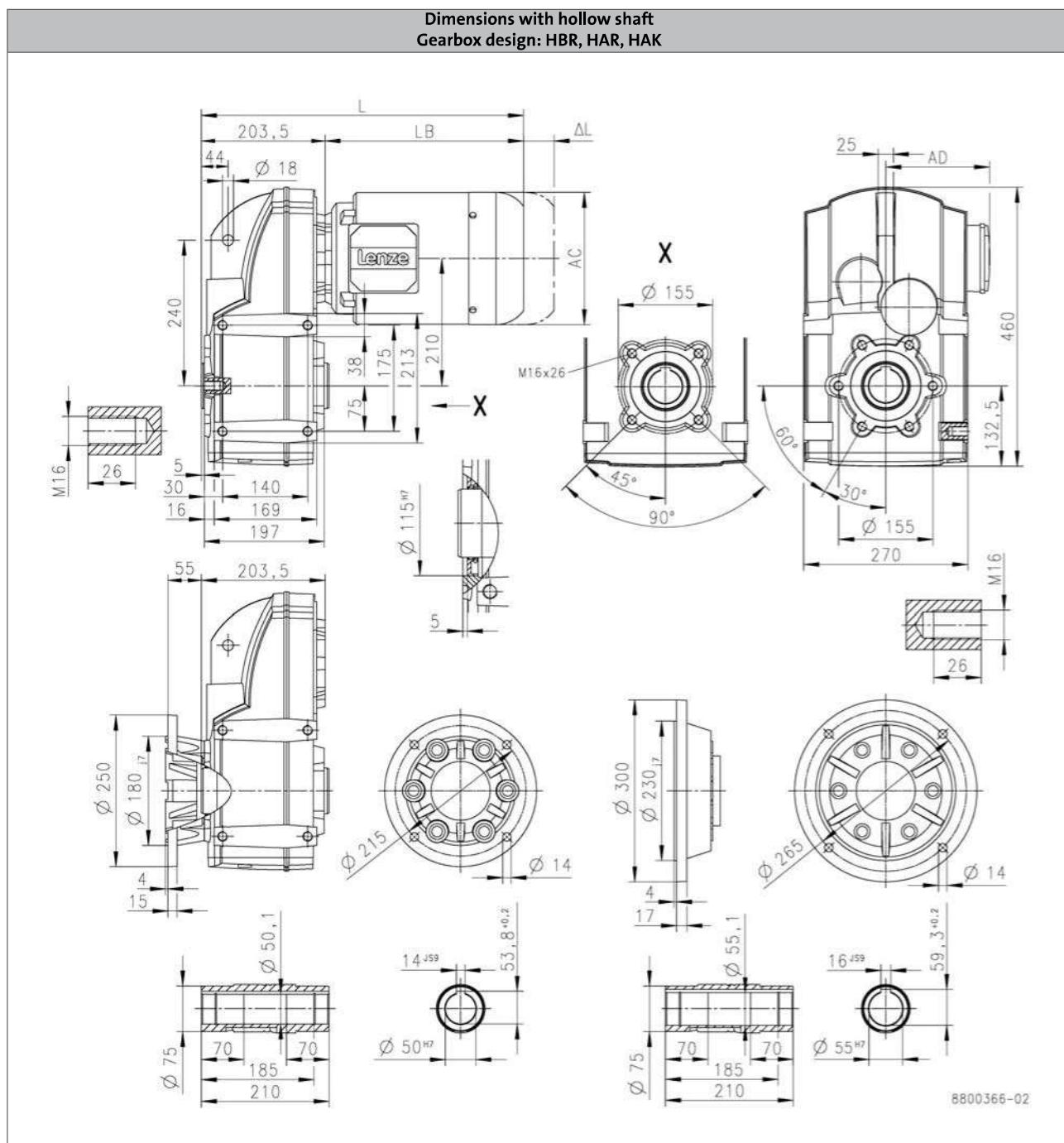
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



6.4

			MD□MA□□		
			063-42	071-32	071-42
Total length	L [mm]		387		407
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

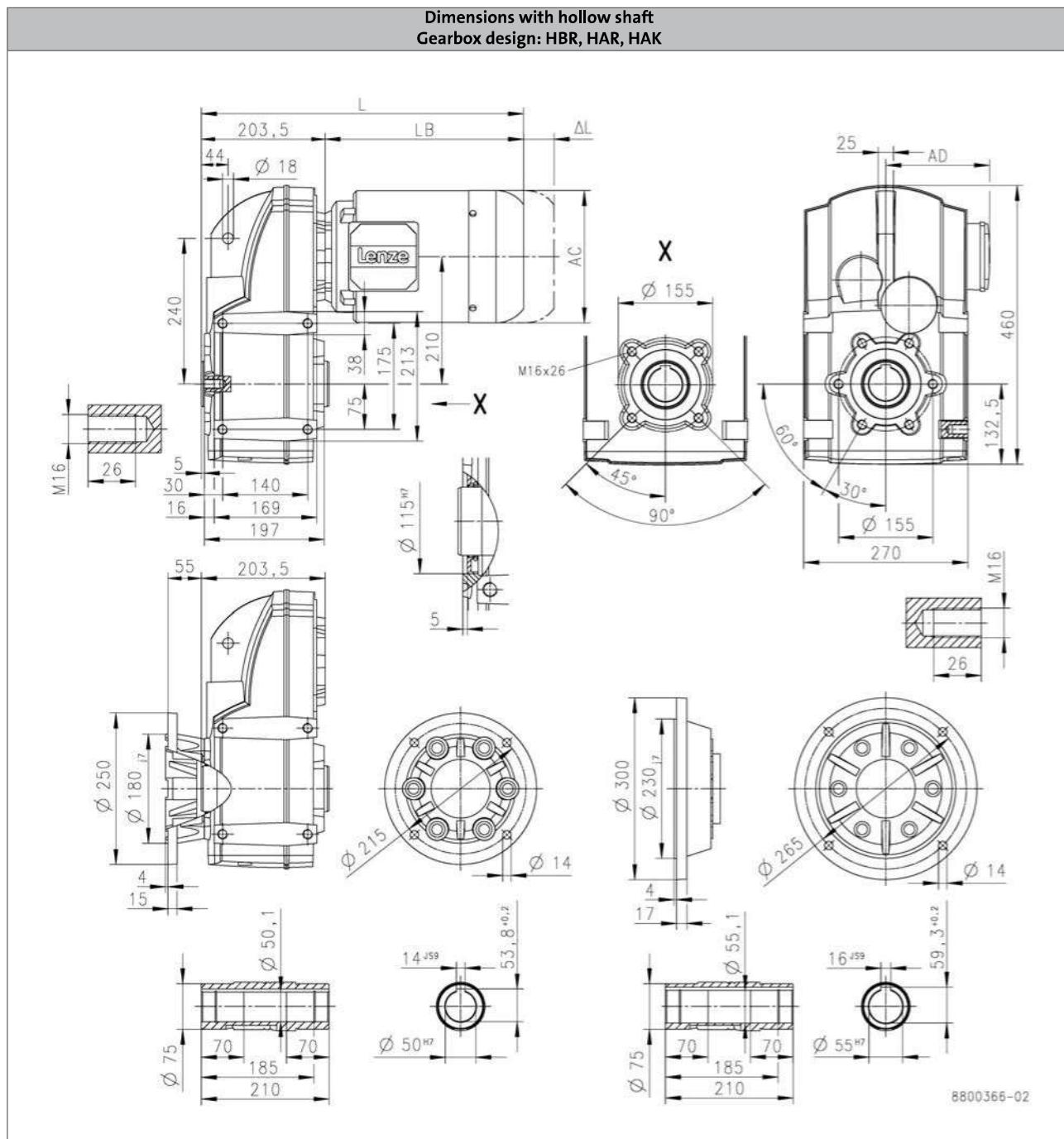
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



6.4

		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	429	498		560		547		622
Motor length	LB [mm]	225	294		356		343		418
Length of motor options	Δ L [mm]	107	92.0		103		111		118
Motor diameter	AC [mm]	158	172		192		210		281
Distance motor/connection	AD [mm]	148	155		164		171		182

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

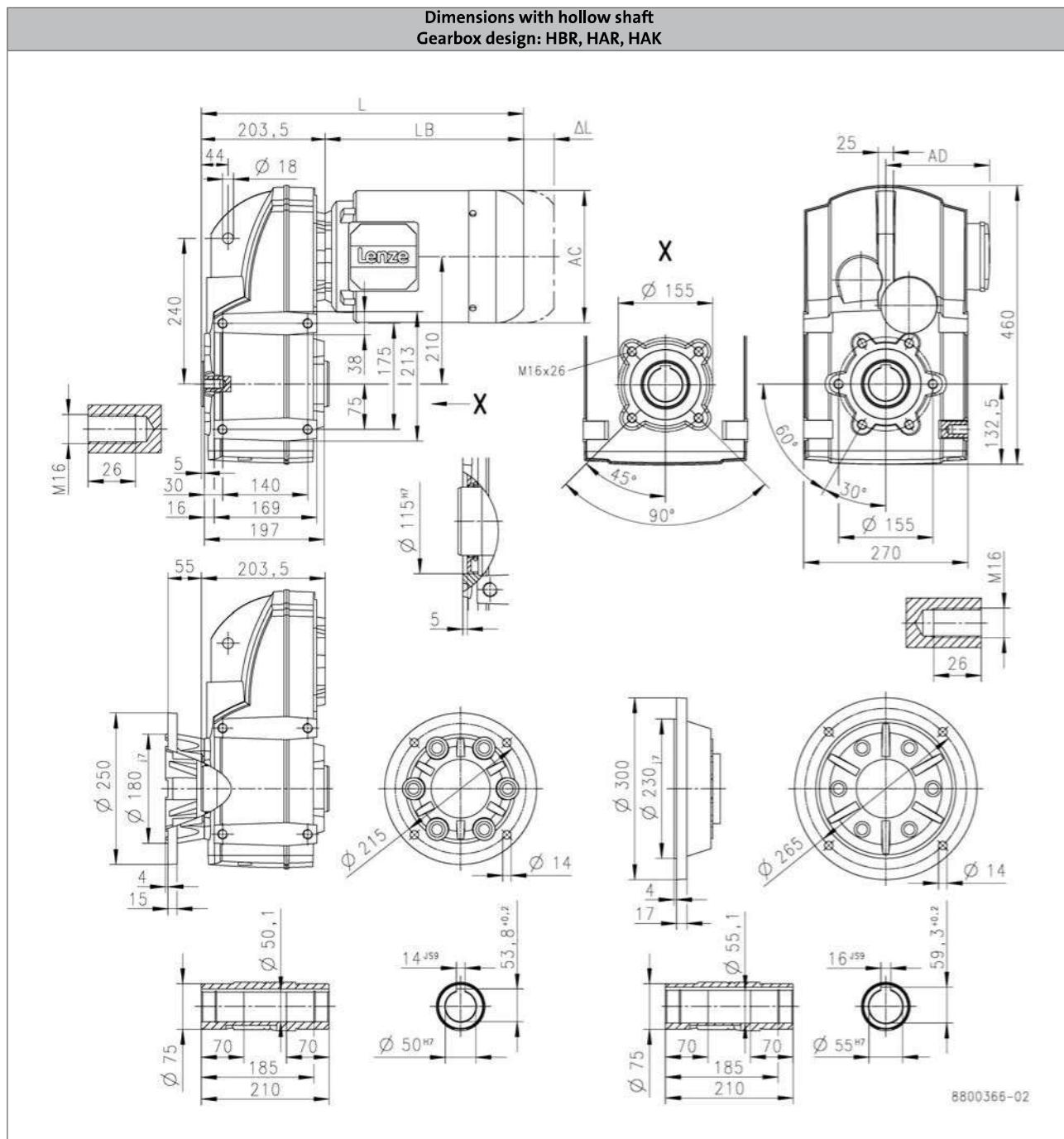
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



		m240			
		-P160/M4	-P160/L4	-P180/M4	-P180/L4
Total length	L [mm]	773		873	
Motor length	LB [mm]	569		669	
Length of motor options	Δ L [mm]	146		107	
Motor diameter	AC [mm]	313		351	
Distance motor/connection	AD [mm]	231		282	

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

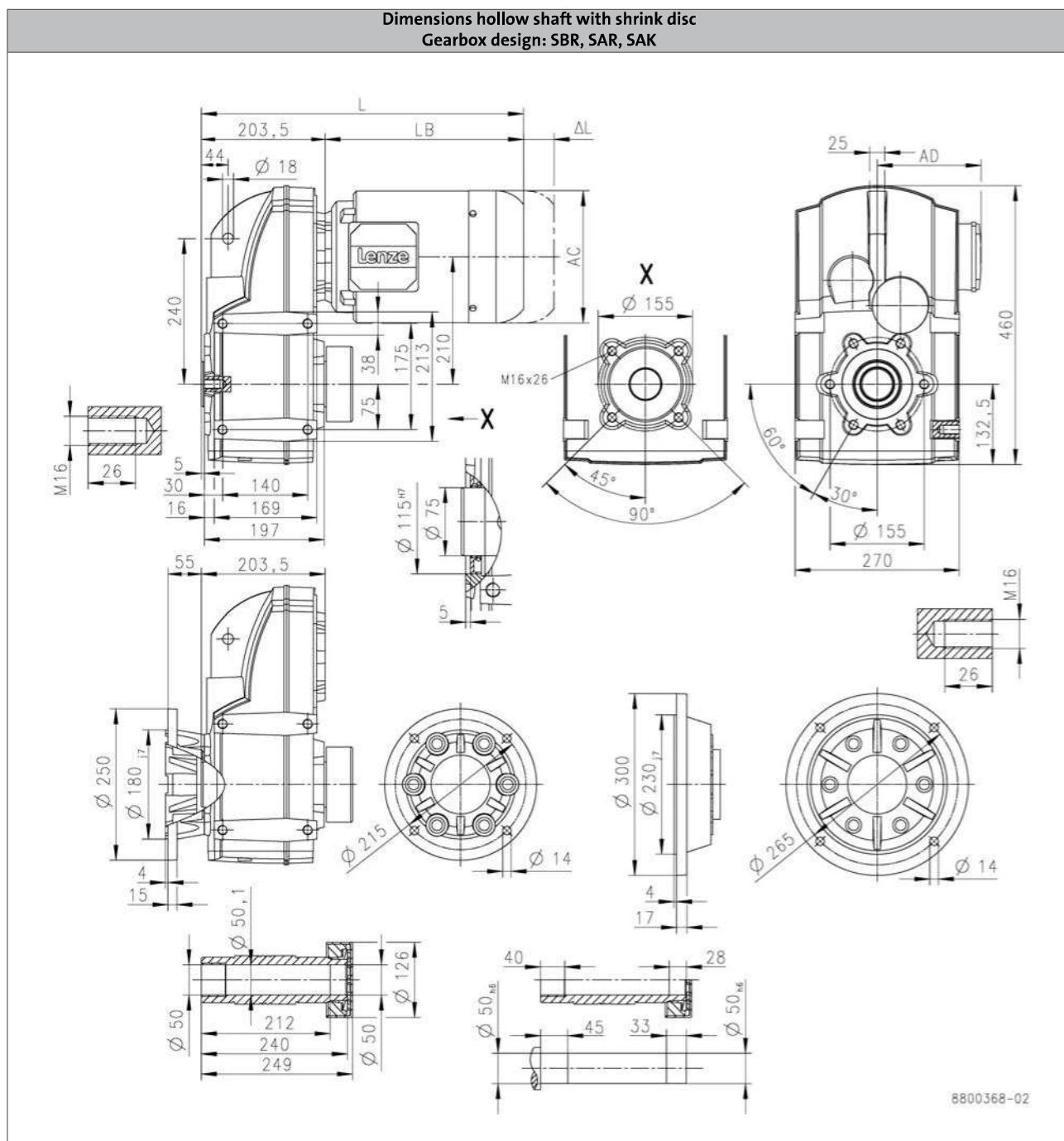
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



		MD□MA□□	
		063-42	071-32
Total length	L [mm]	387	407
Motor length	LB [mm]	183	203
Length of motor options	Δ L [mm]	40.0	52.0
Motor diameter	AC [mm]	123	139
Distance motor/connection	AD [mm]	107	118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

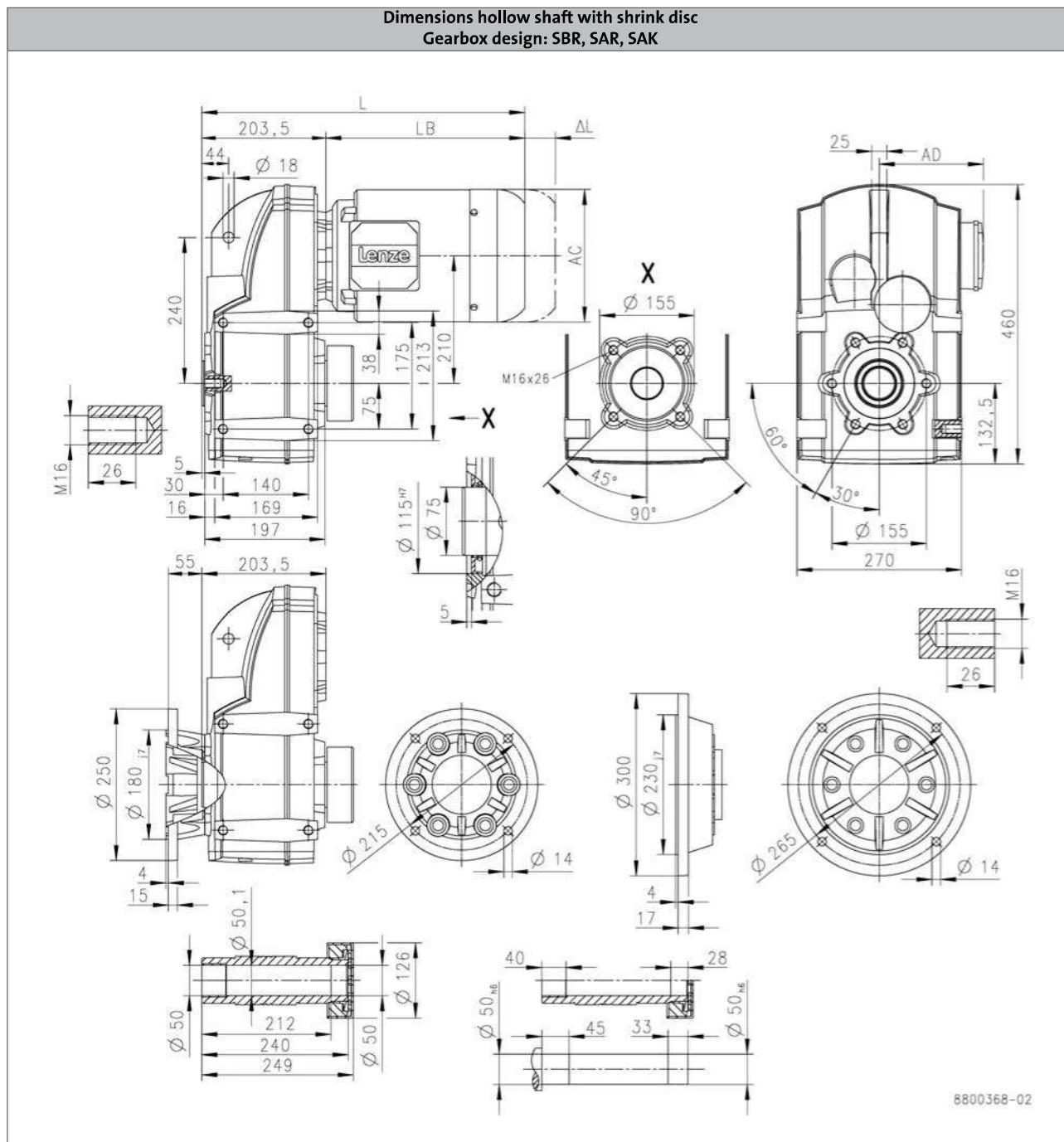
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	429	498		560		547		622
Motor length	LB [mm]	225	294		356		343		418
Length of motor options	Δ L [mm]	107	92.0		103		111		118
Motor diameter	AC [mm]	158	172		192		210		281
Distance motor/connection	AD [mm]	148	155		164		171		182

L = length of the motor without built-on accessories
ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

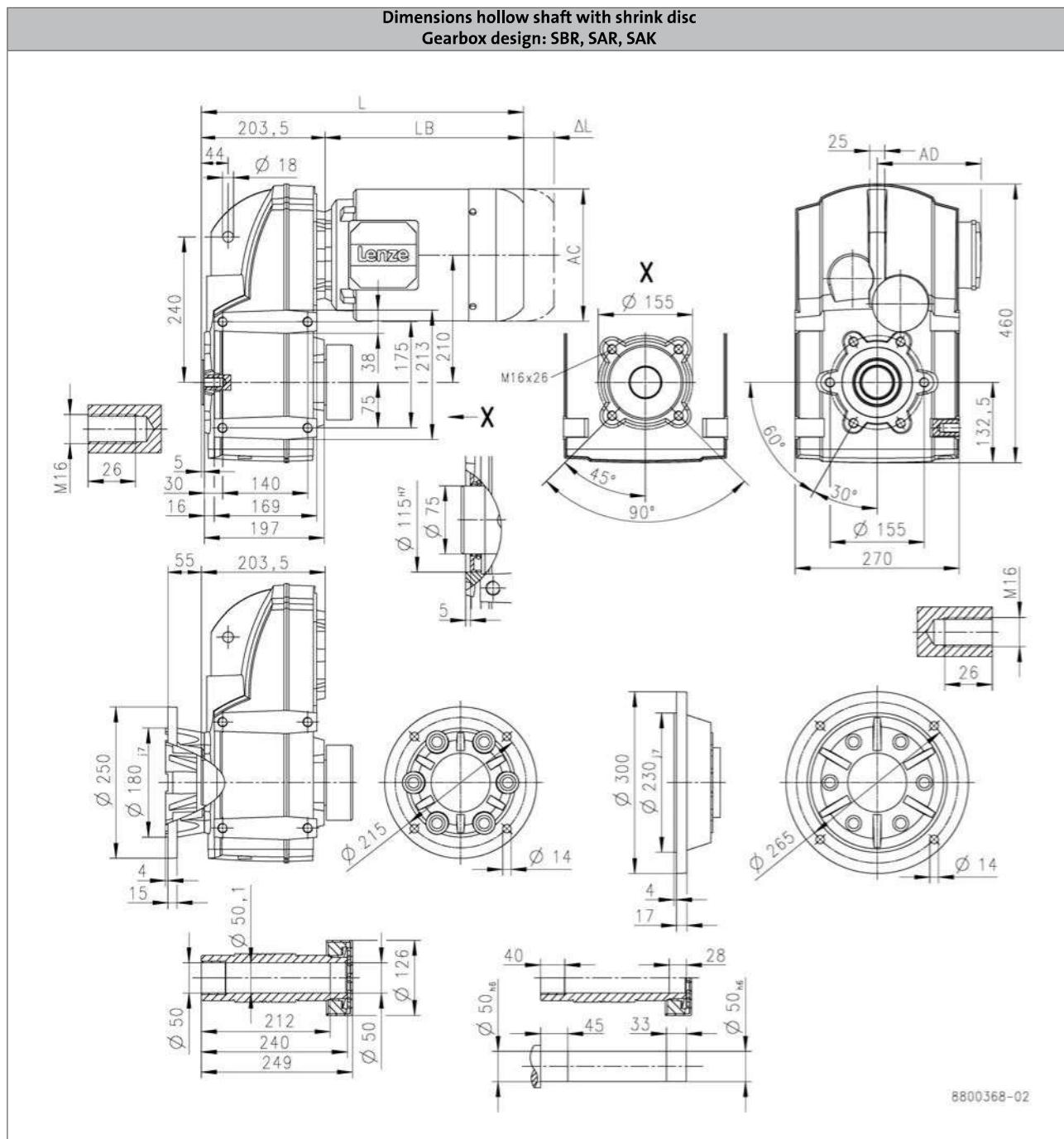
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



		m240			
		-P160/M4	-P160/L4	-P180/M4	-P180/L4
Total length	L [mm]	773		873	
Motor length	LB [mm]	569		669	
Length of motor options	Δ L [mm]	146		107	
Motor diameter	AC [mm]	313		351	
Distance motor/connection	AD [mm]	231		282	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

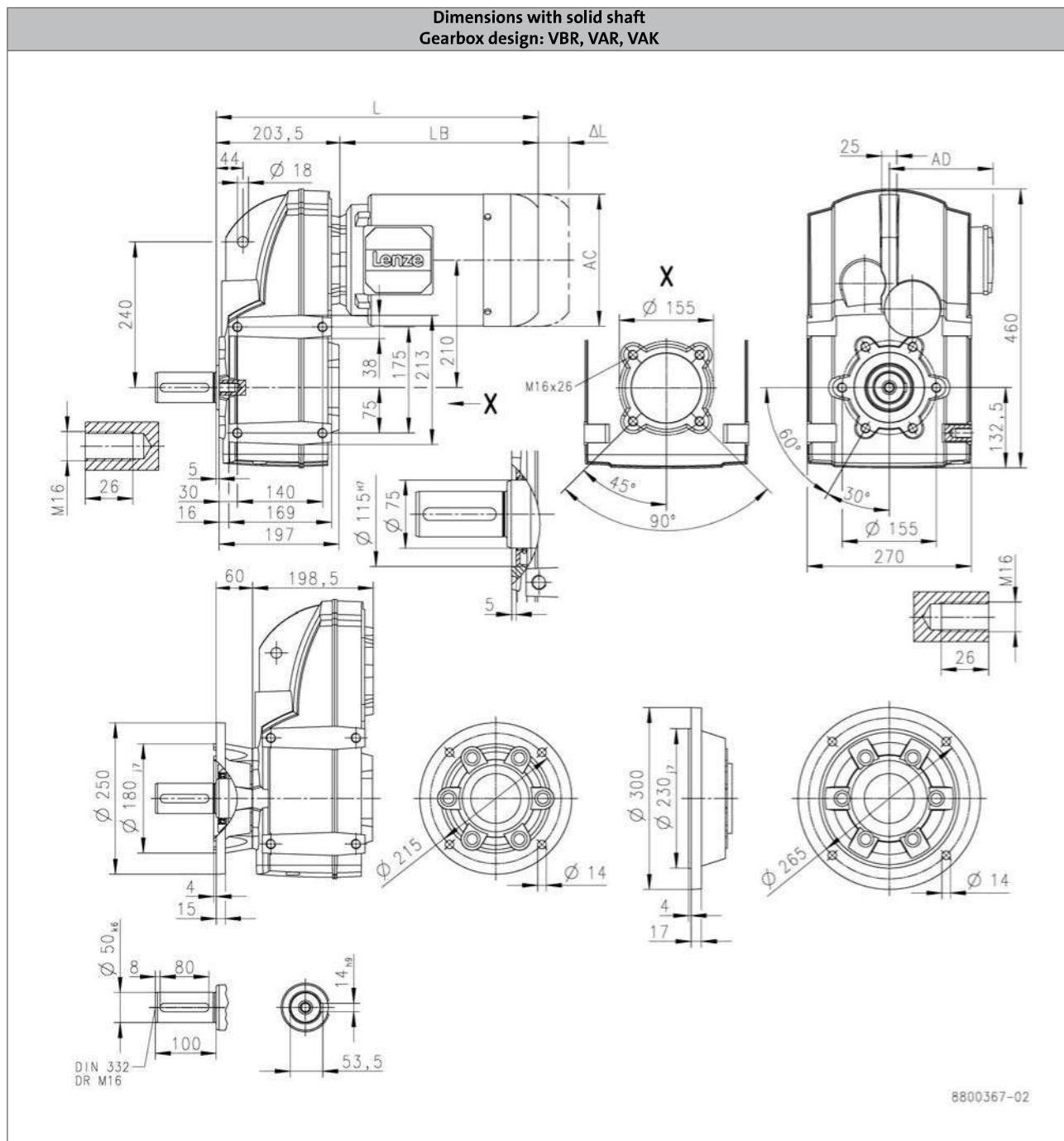
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



			MD□MA□□		
			063-42	071-32	071-42
Total length	L [mm]		387		407
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

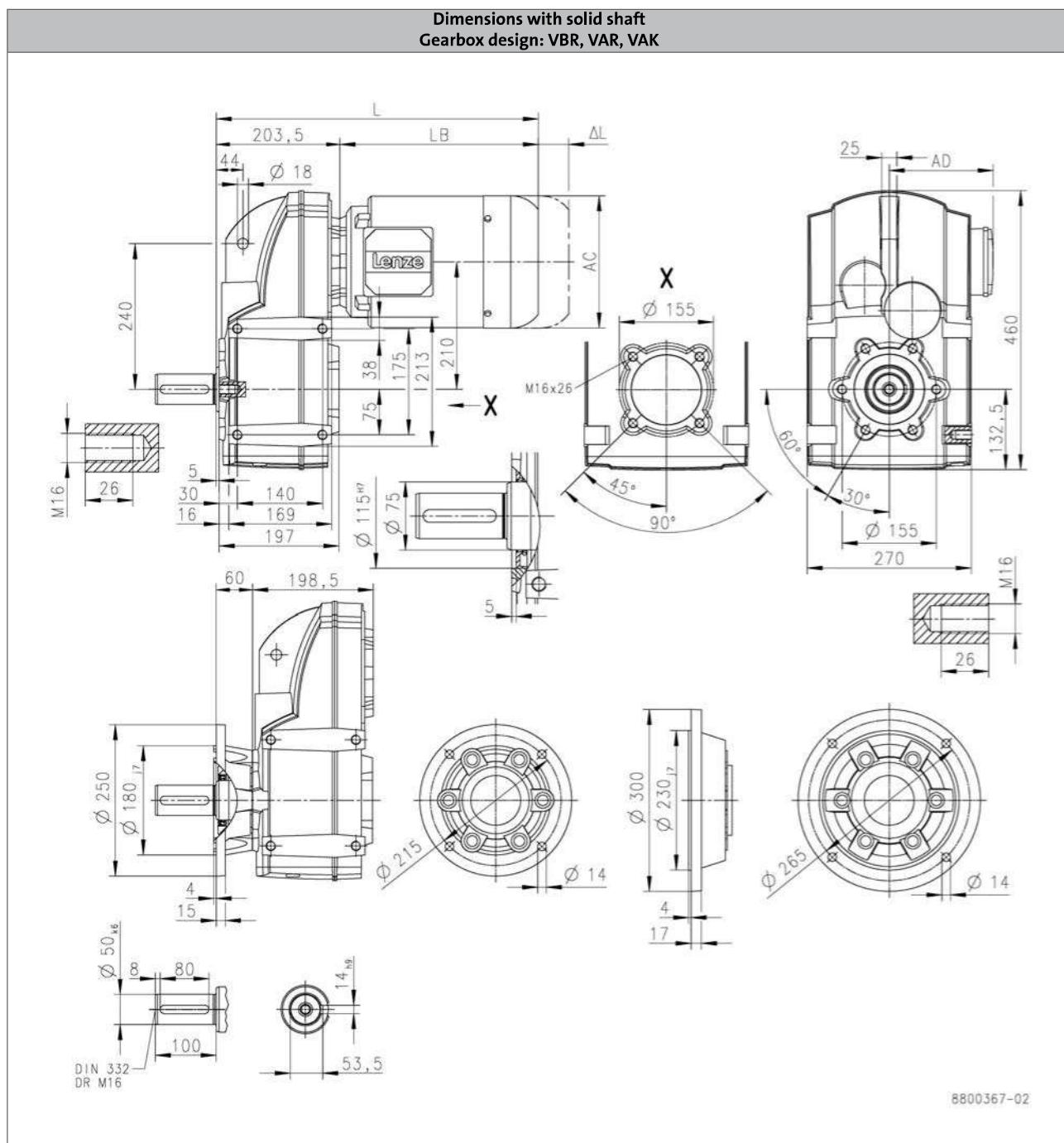
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	429	498		560		547	622	
Motor length	LB [mm]	225	294		356		343	418	
Length of motor options	Δ L [mm]	107	92.0		103		111	118	
Motor diameter	AC [mm]	158	172		192		210	281	
Distance motor/connection	AD [mm]	148	155		164		171	182	

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

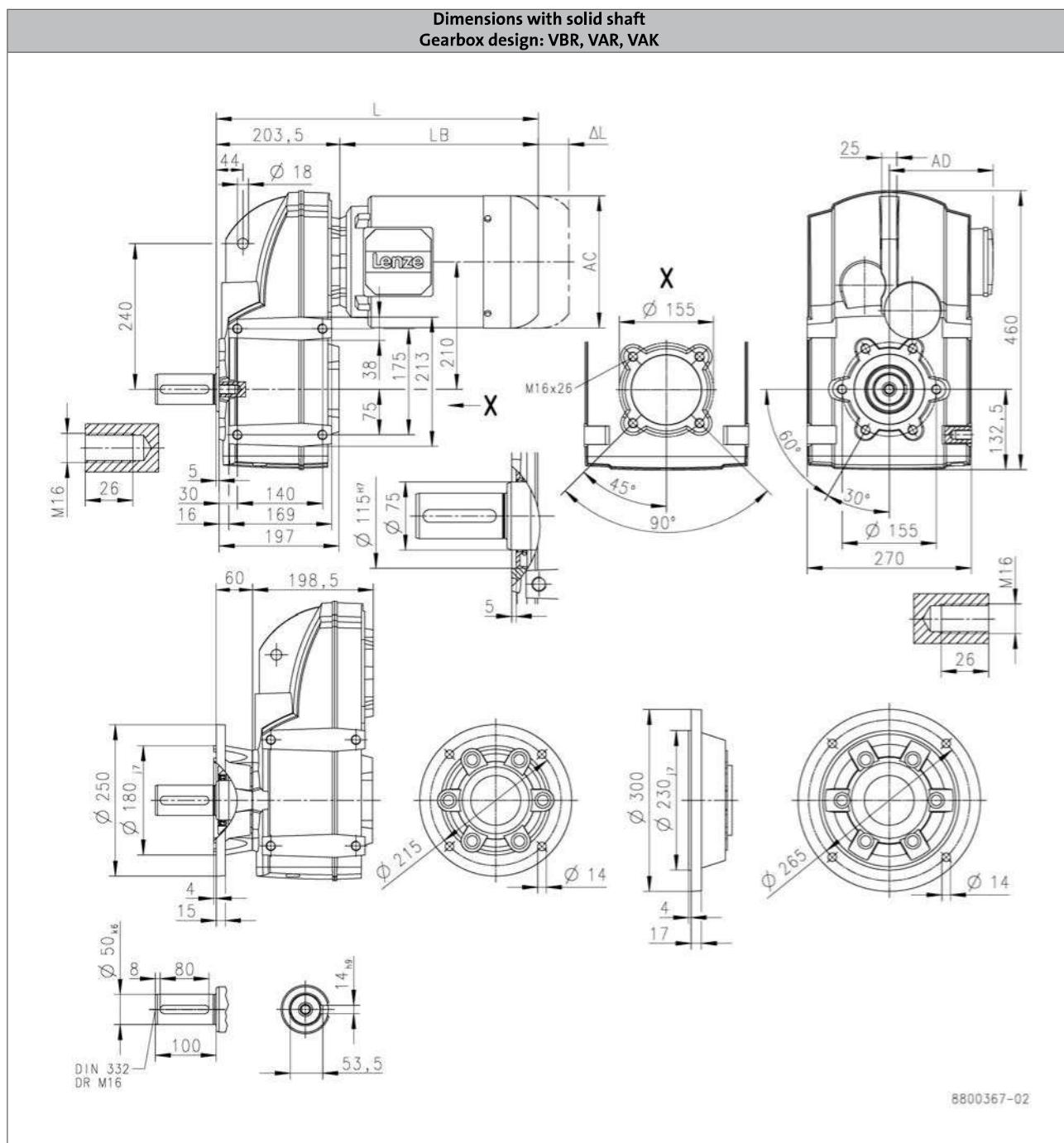
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S2100



		m240			
		-P160/M4	-P160/L4	-P180/M4	-P180/L4
Total length	L [mm]	773		873	
Motor length	LB [mm]	569		669	
Length of motor options	ΔL [mm]	146		107	
Motor diameter	AC [mm]	313		351	
Distance motor/connection	AD [mm]	231		282	

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

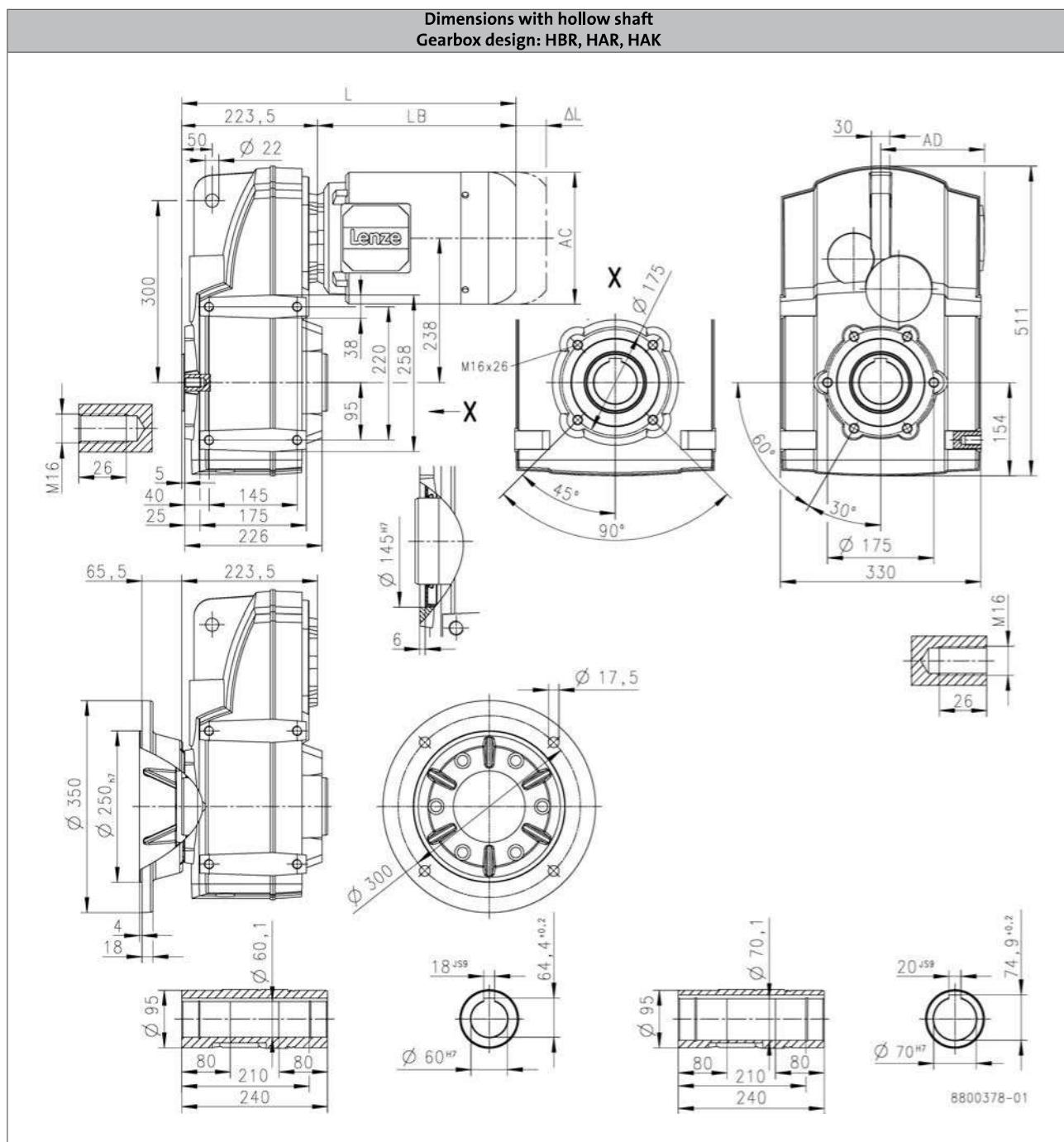
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



6.4

		MD□MA□□	063-42	071-32	071-42
Total length	L [mm]		407		427
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

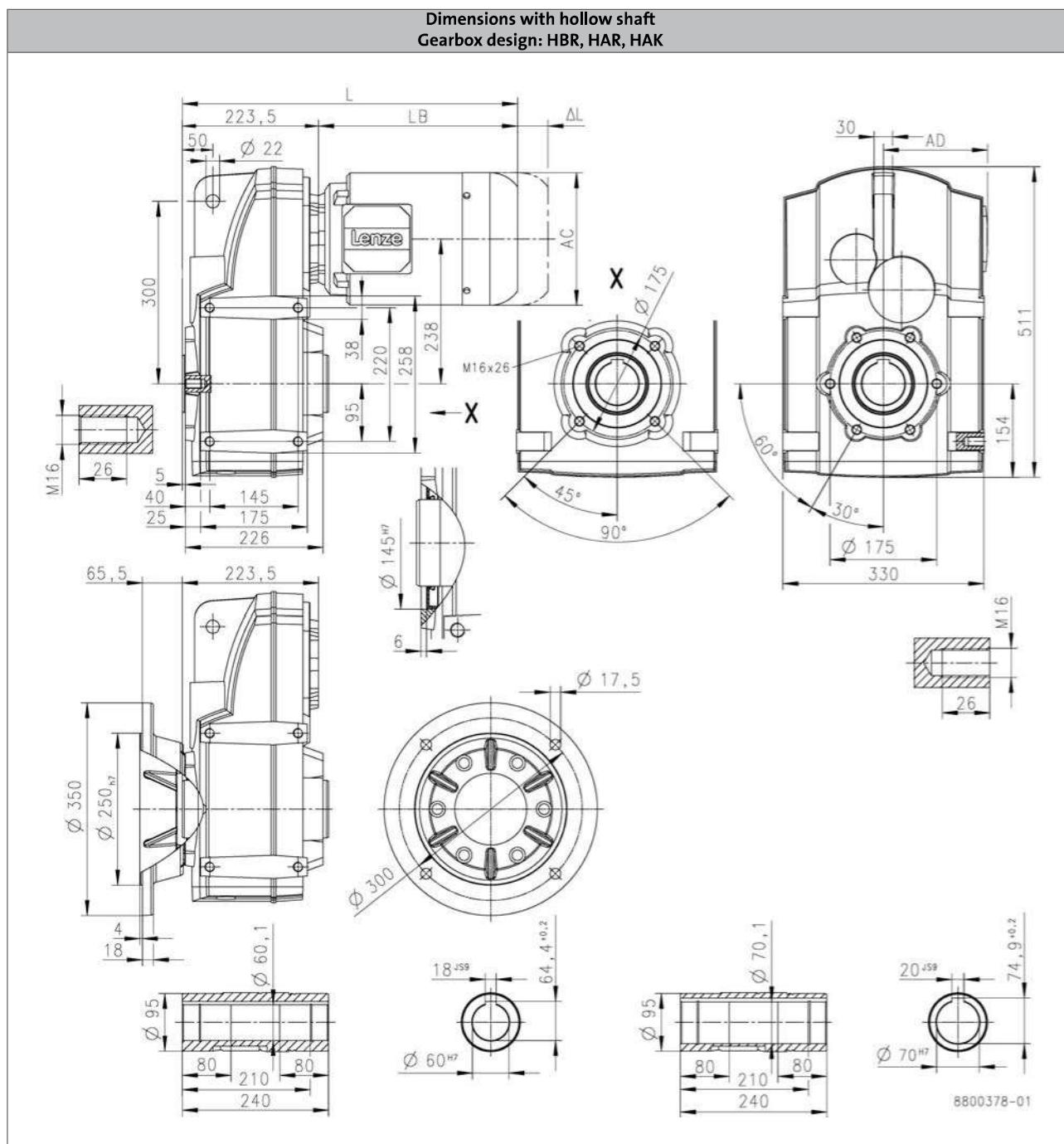
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



6.4

		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	449	518		580		567	642	
Motor length	LB [mm]	225	294		356		343	418	
Length of motor options	Δ L [mm]	107	92.0		103		111	118	
Motor diameter	AC [mm]	158	172		192		210	281	
Distance motor/connection	AD [mm]	148	155		164		171	182	

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

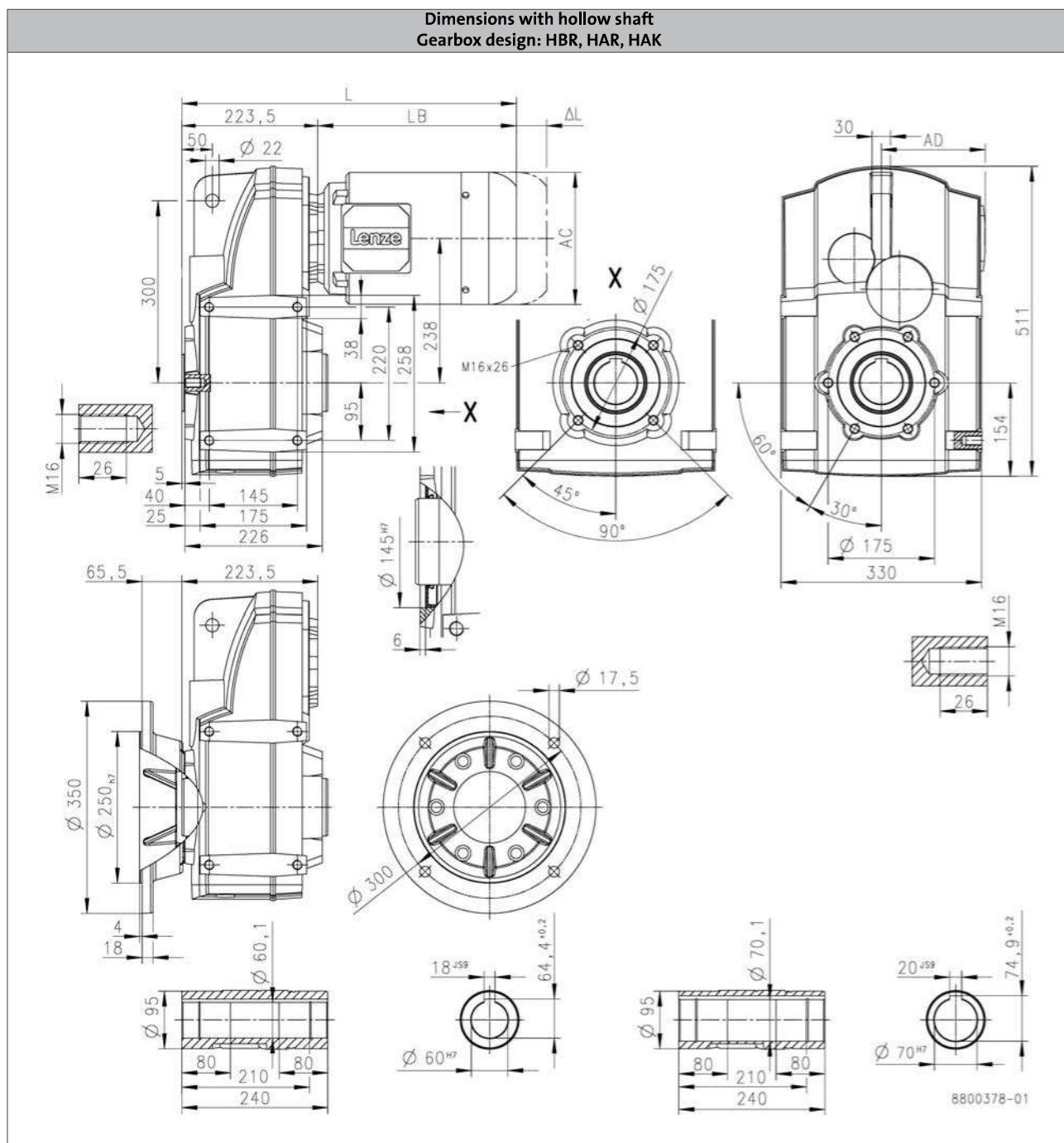
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



		m240			
		-P160/M4	-P160/L4	-P180/M4	-P180/L4
Total length	L [mm]	793		893	
Motor length	LB [mm]	569		669	
Length of motor options	Δ L [mm]	146		107	
Motor diameter	AC [mm]	313		351	
Distance motor/connection	AD [mm]	231		282	

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

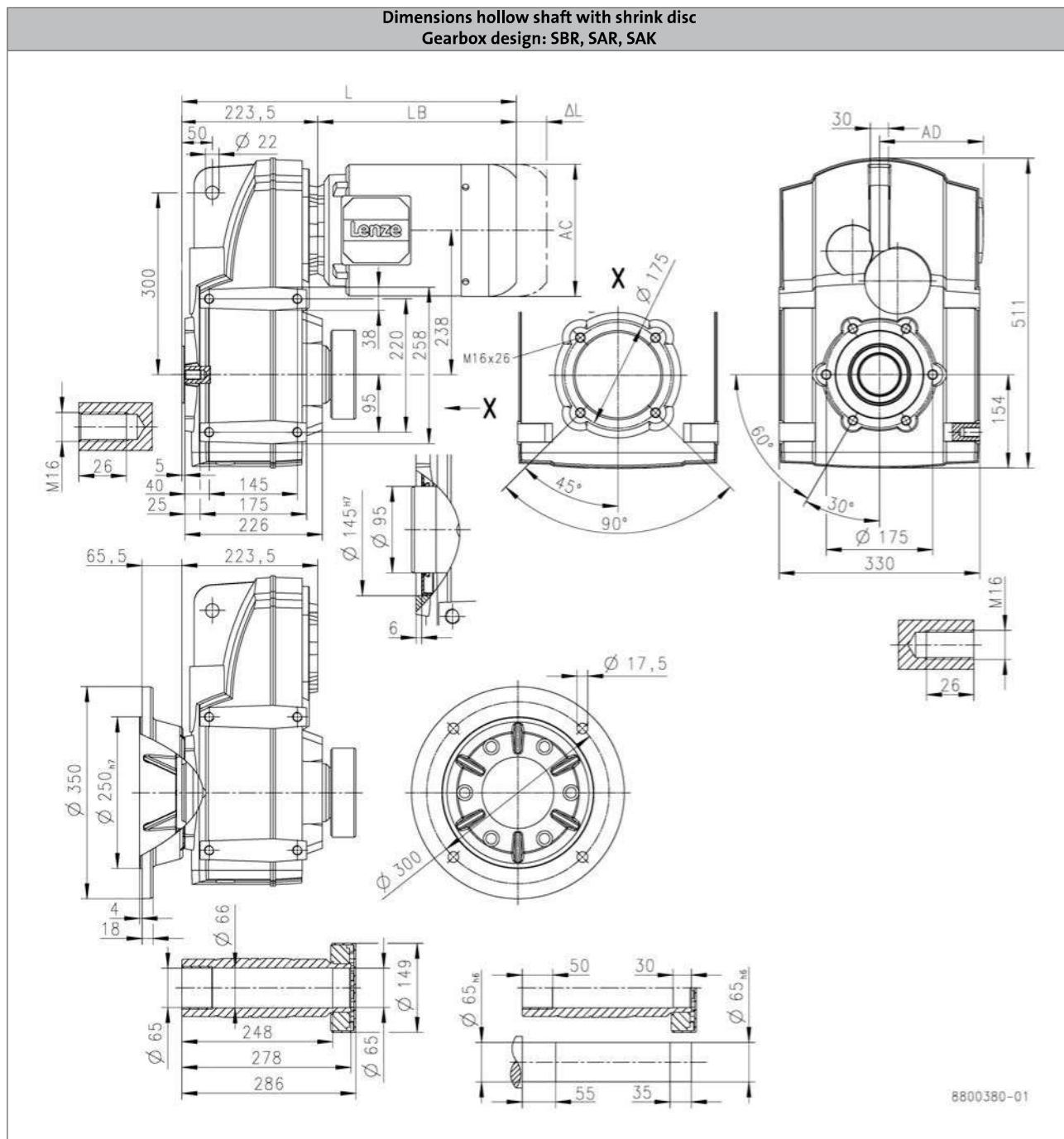
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



		MD□MA□□	
		063-42	071-32
Total length	L [mm]	407	427
Motor length	LB [mm]	183	203
Length of motor options	Δ L [mm]	40.0	52.0
Motor diameter	AC [mm]	123	139
Distance motor/connection	AD [mm]	107	118

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

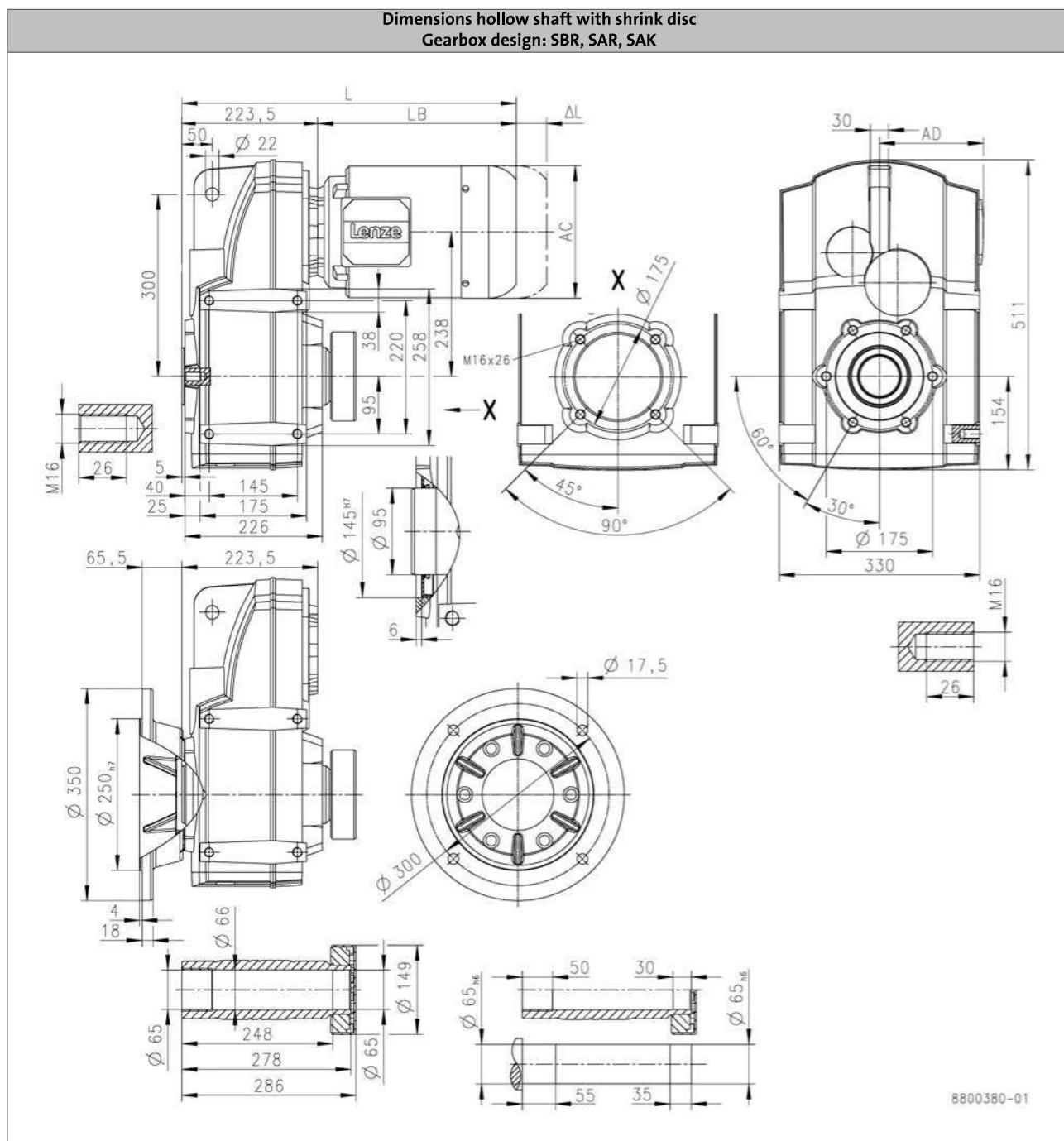
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



		m240							
		-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	449	518		580		567		642
Motor length	LB [mm]	225	294		356		343		418
Length of motor options	Δ L [mm]	107	92.0		103		111		118
Motor diameter	AC [mm]	158	172		192		210		281
Distance motor/connection	AD [mm]	148	155		164		171		182

L = length of the motor without built-on accessories
ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

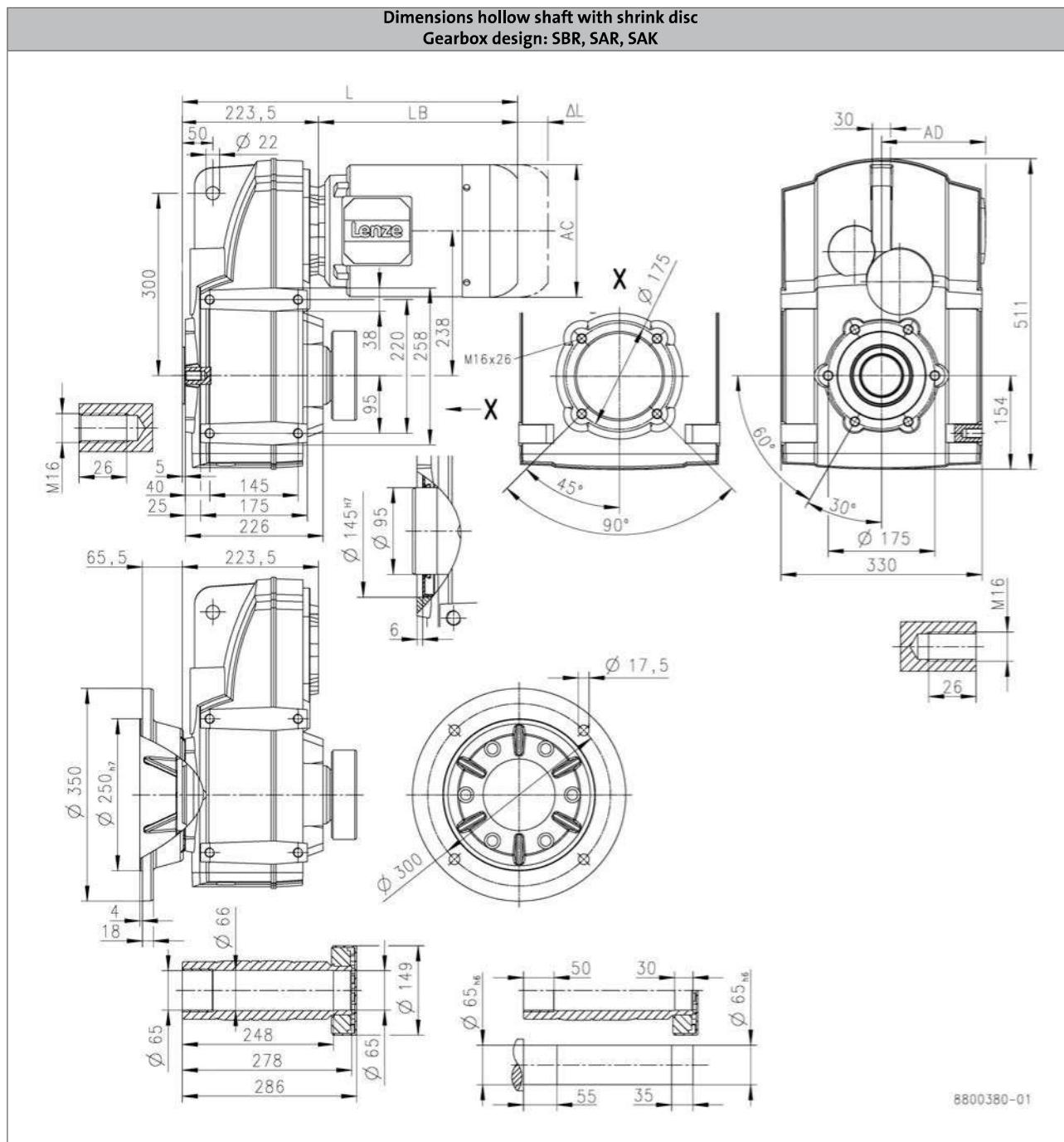
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



		m240			
		-P160/M4	-P160/L4	-P180/M4	-P180/L4
Total length	L [mm]	793		893	
Motor length	LB [mm]	569		669	
Length of motor options	Δ L [mm]	146		107	
Motor diameter	AC [mm]	313		351	
Distance motor/connection	AD [mm]	231		282	

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

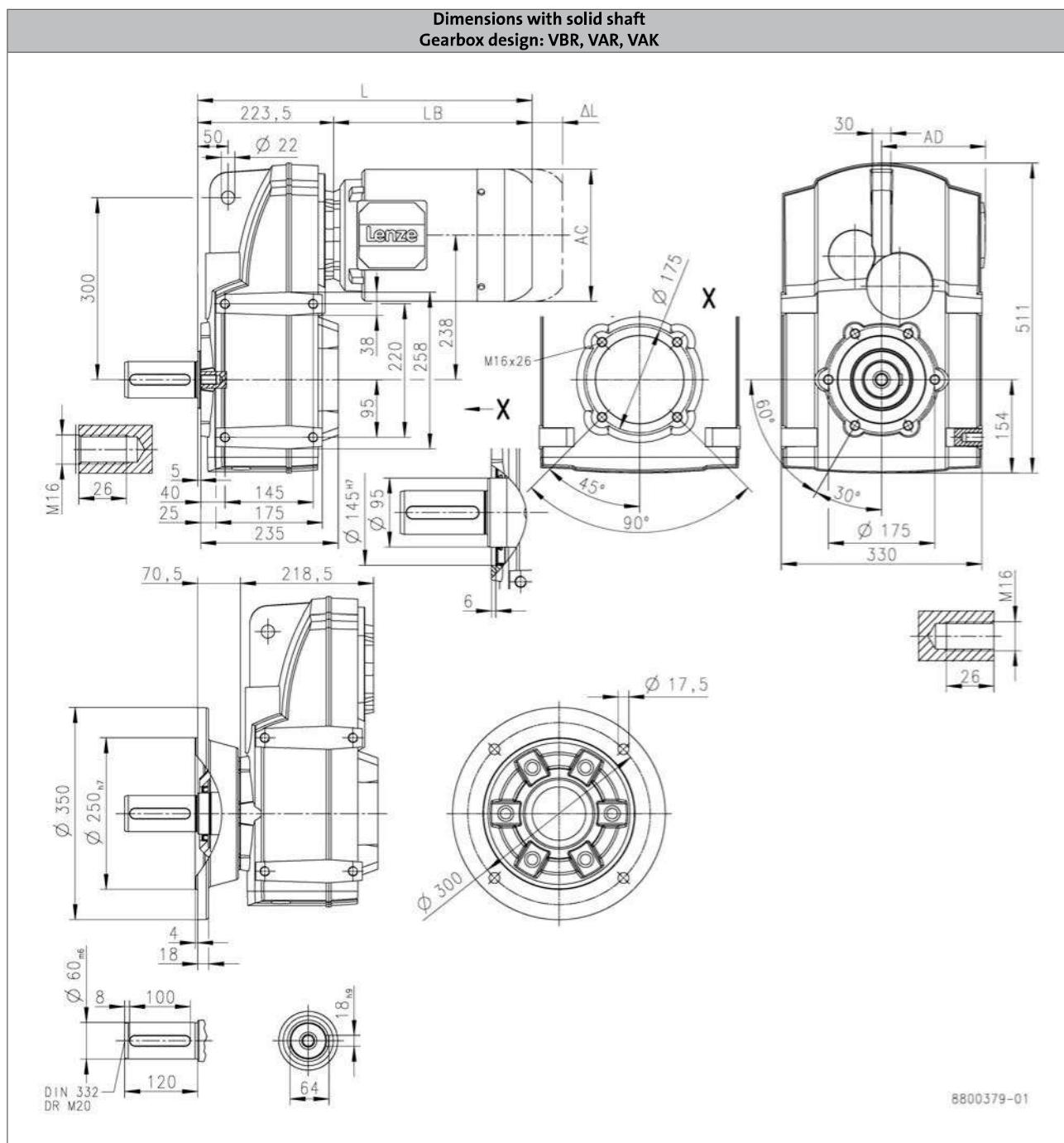
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



			MD□MA□□		
			063-42	071-32	071-42
Total length	L [mm]		407		427
Motor length	LB [mm]		183		203
Length of motor options	Δ L [mm]		40.0		52.0
Motor diameter	AC [mm]		123		139
Distance motor/connection	AD [mm]		107		118

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

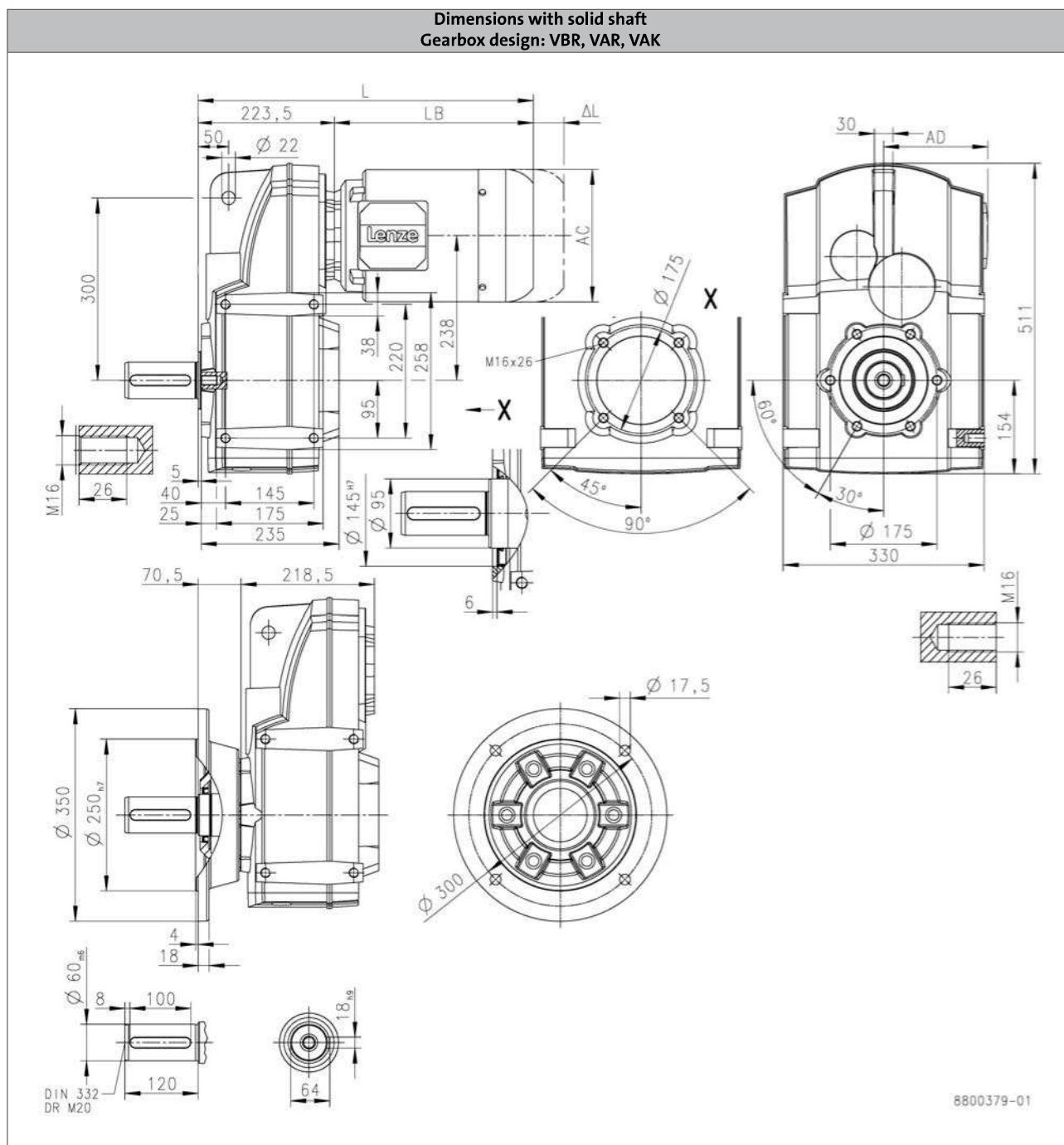
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



6.4

			m240							
			-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4	-P132/M4	-P132/L4
Total length	L [mm]	449	518	580	567	642				
Motor length	LB [mm]	225	294	356	343	418				
Length of motor options	Δ L [mm]	107	92.0	103	111	118				
Motor diameter	AC [mm]	158	172	192	210	281				
Distance motor/connection	AD [mm]	148	155	164	171	182				

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

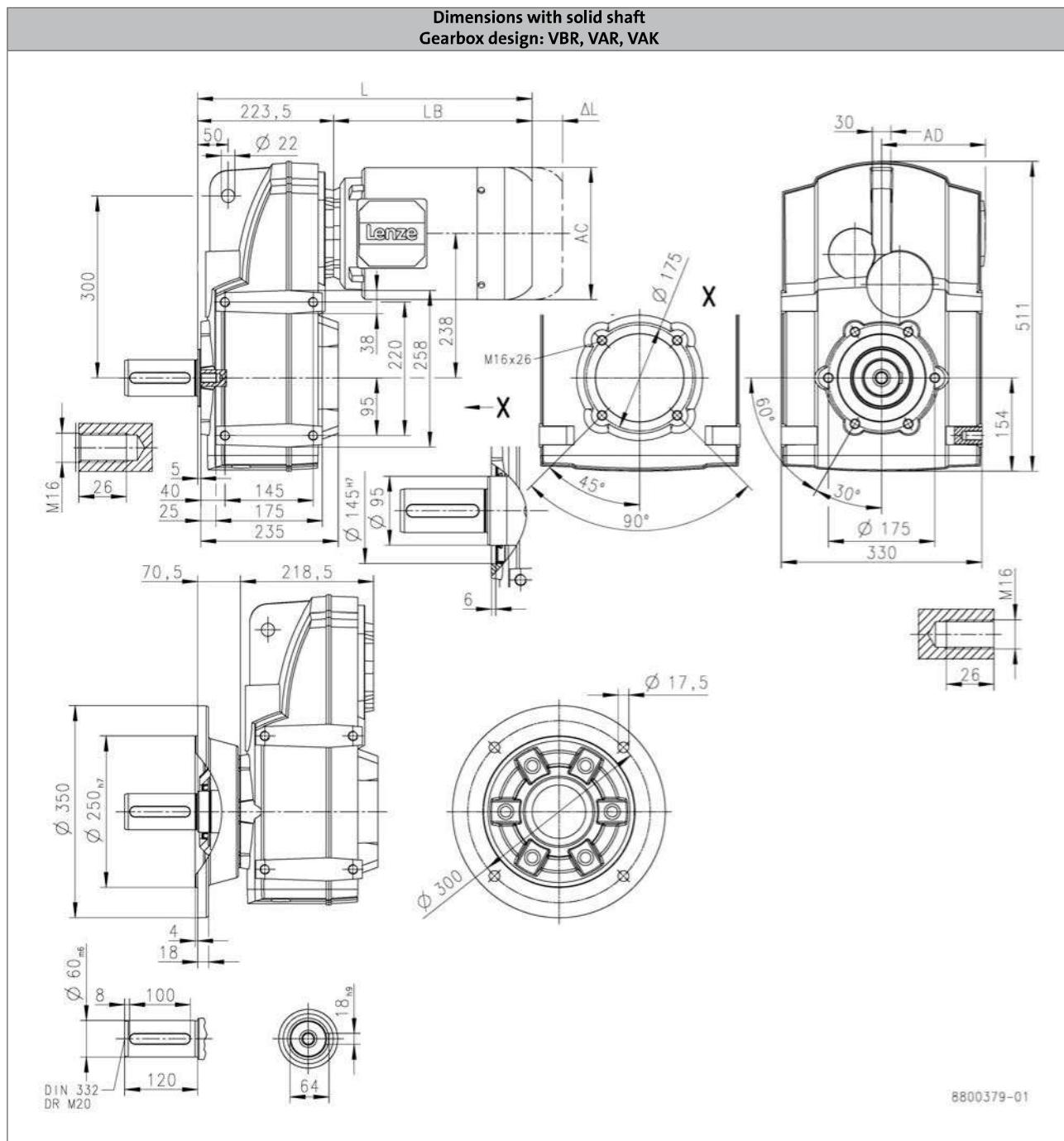
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S3100



6.4

			m240				
			-P160/M4	-P160/L4	-P180/M4	-P180/L4	-P180/V4
Total length	L [mm]		793		893		
Motor length	LB [mm]		569		669		
Length of motor options	ΔL [mm]		146		107		
Motor diameter	AC [mm]		313		351		
Distance motor/connection	AD [mm]		231		282		

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

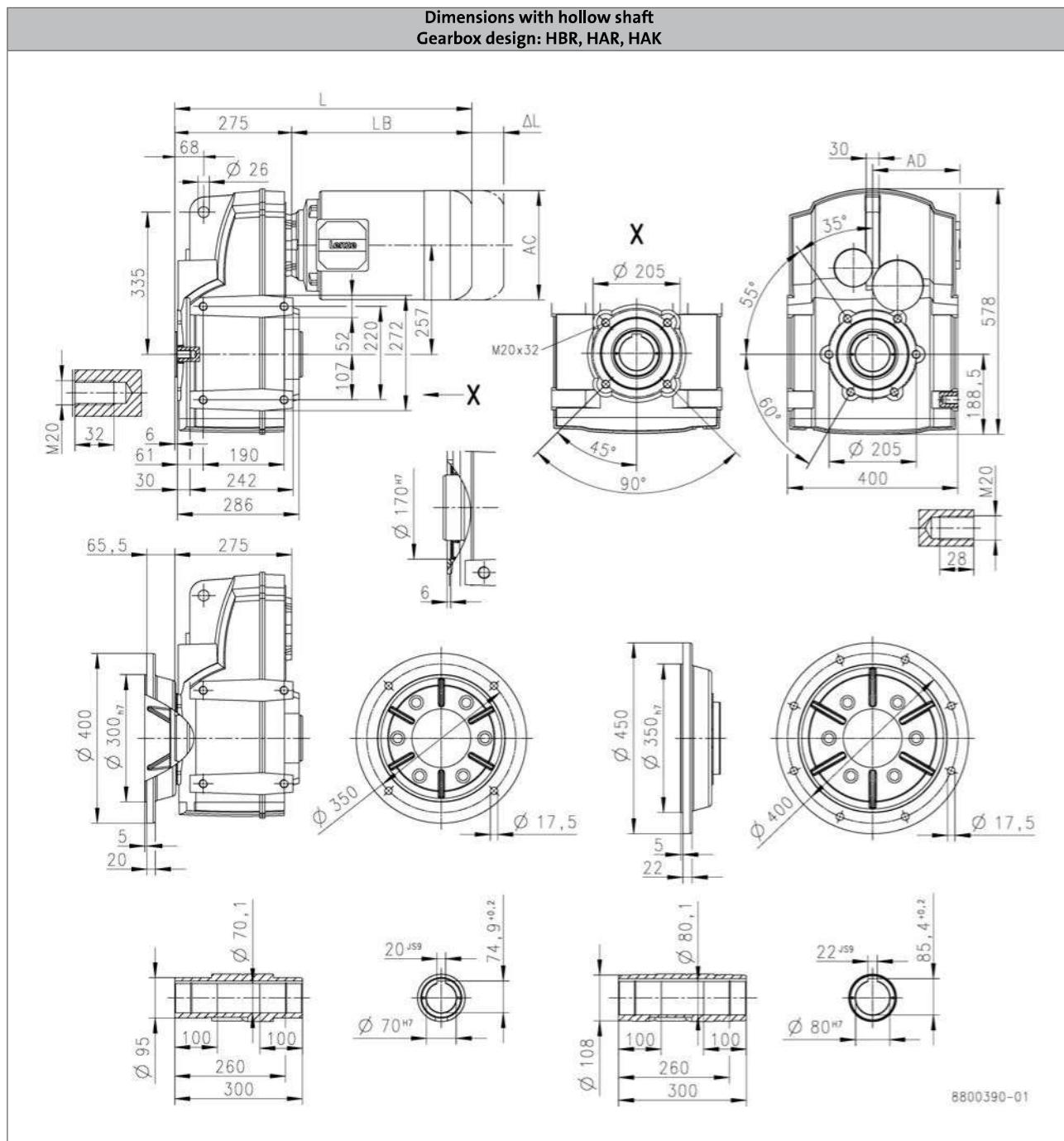
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S4500



		MD□MA□□	m240					
		071-42	-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4
Total length	L [mm]	478	500	569		631		618
Motor length	LB [mm]	203	225	294		356		343
Length of motor options	Δ L [mm]	52.0	107	92.0		103		111
Motor diameter	AC [mm]	139	158	172		192		210
Distance motor/connection	AD [mm]	118	148	155		164		171

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

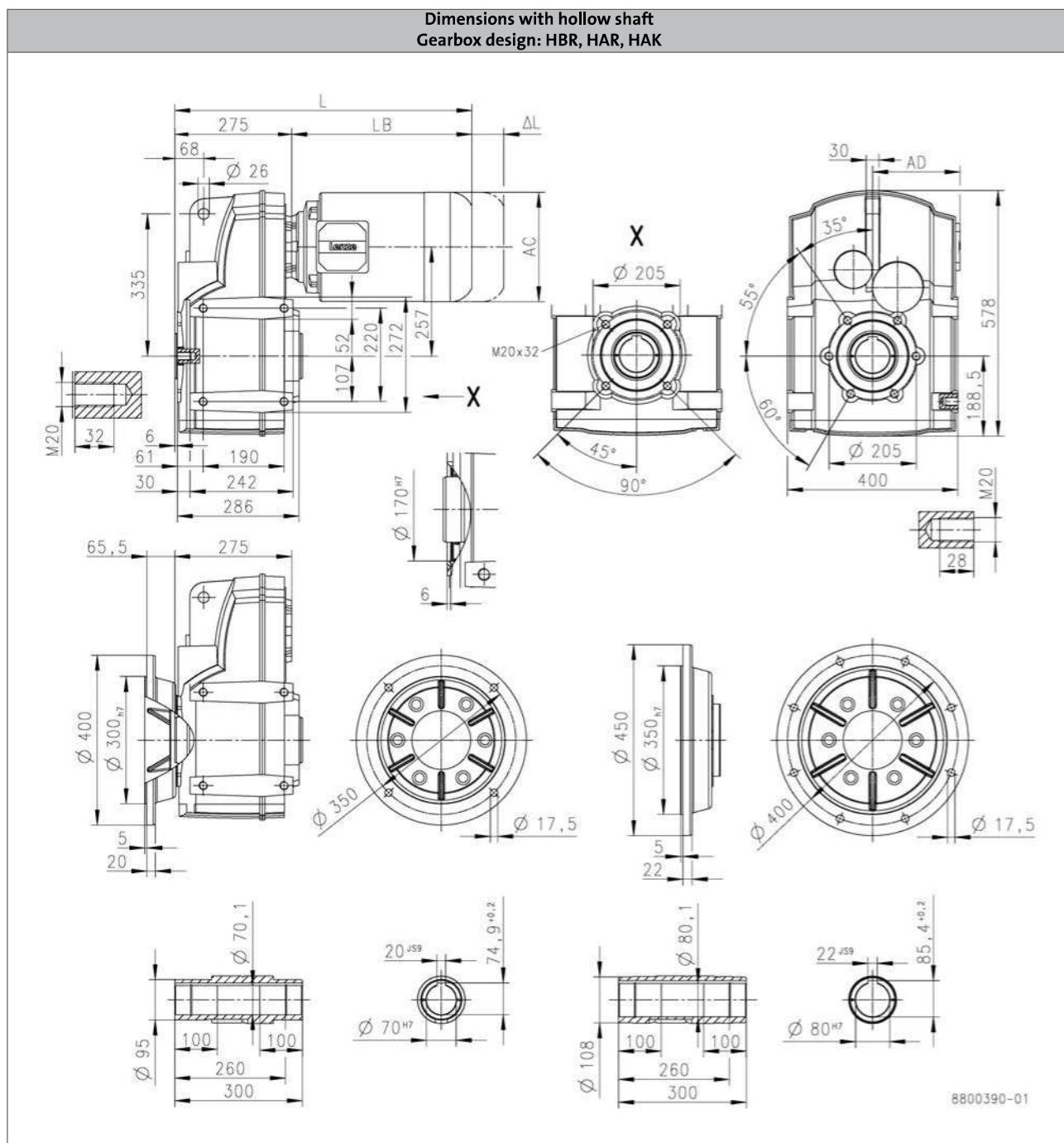
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S4500



		m240						
		-P132/M4	-P132/L4	-P160/M4	-P160/L4	-P180/M4	-P180/L4	-P180/V4
Total length	L [mm]	693		844		944		
Motor length	LB [mm]	418		569		669		
Length of motor options	Δ L [mm]	118		146		107		
Motor diameter	AC [mm]	281		313		351		
Distance motor/connection	AD [mm]	182		231		282		

L = length of the motor without built-on accessories
 ΔL = additional length of the built-on accessories (with brake)

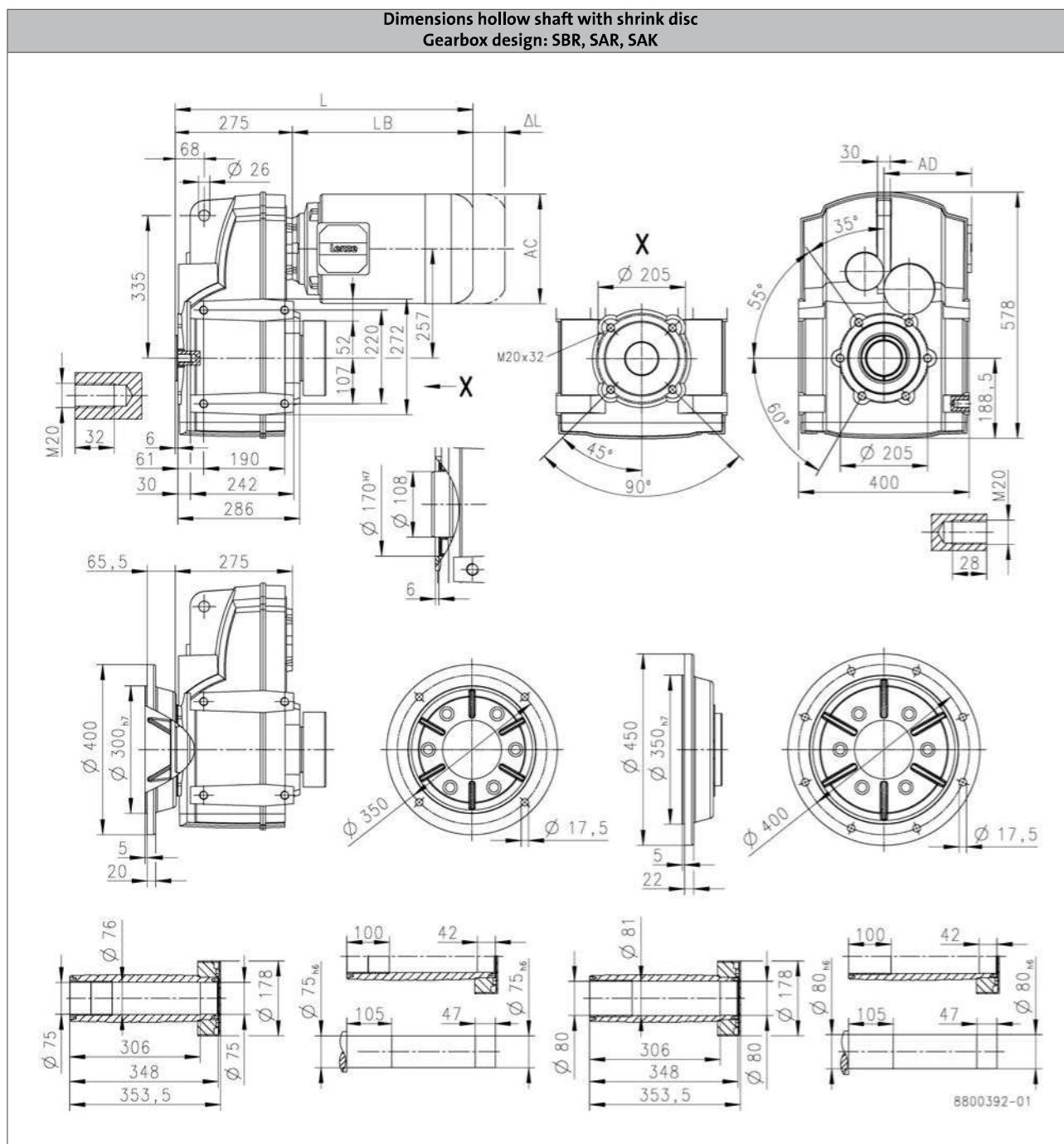
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S4500



		MD□MA□□	m240					
		071-42	-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4
Total length	L [mm]	478	500	569		631		618
Motor length	LB [mm]	203	225	294		356		343
Length of motor options	Δ L [mm]	52.0	107	92.0		103		111
Motor diameter	AC [mm]	139	158	172		192		210
Distance motor/connection	AD [mm]	118	148	155		164		171

L = length of the motor without built-on accessories
ΔL = additional length of the built-on accessories (with brake)



184 - Shrink disc dimensions

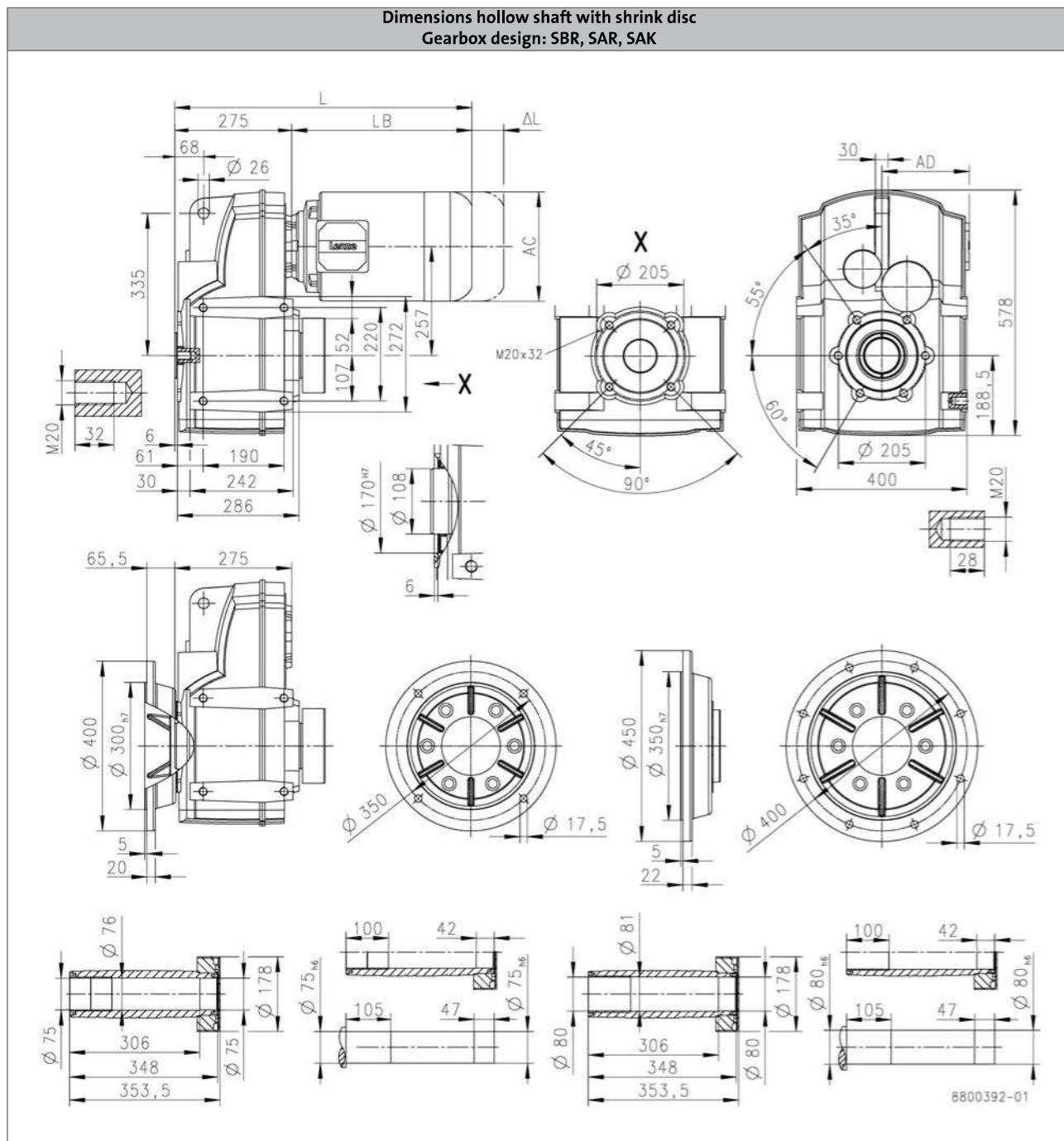
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S4500



6.4

		m240						
		-P132/M4	-P132/L4	-P160/M4	-P160/L4	-P180/M4	-P180/L4	-P180/V4
Total length	L [mm]	693		844		944		
Motor length	LB [mm]	418		569		669		
Length of motor options	Δ L [mm]	118		146		107		
Motor diameter	AC [mm]	281		313		351		
Distance motor/connection	AD [mm]	182		231		282		

L = length of the motor without built-on accessories
ΔL = additional length of the built-on accessories (with brake)

184 - Shrink disc dimensions

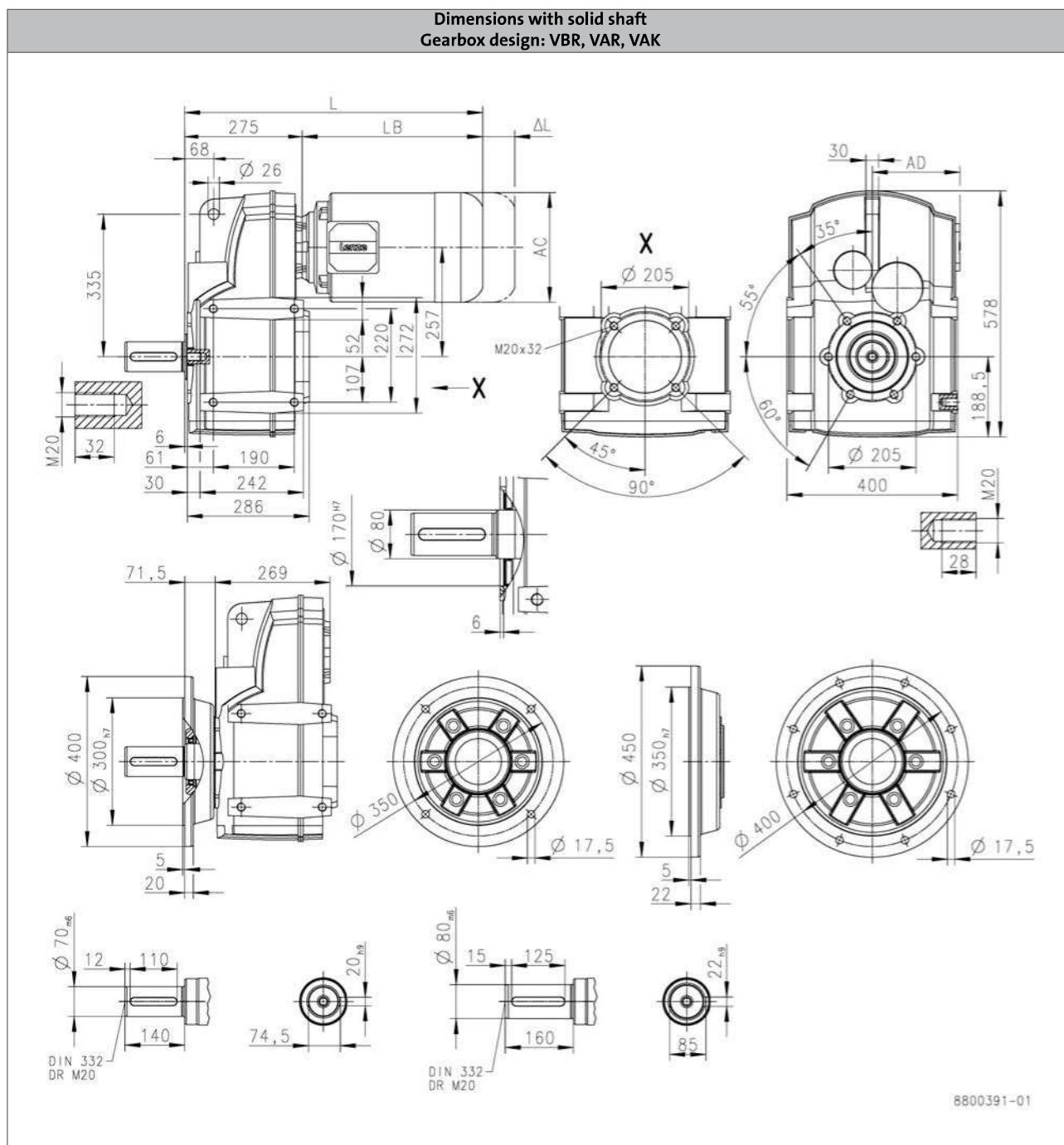
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S4500



		MD□MA□□	m240					
		071-42	-P80/M4	-P90/M4	-P90/L4	-P100/M4	-P100/L4	-P112/M4
Total length	L [mm]	478	500	569		631		618
Motor length	LB [mm]	203	225	294		356		343
Length of motor options	Δ L [mm]	52.0	107	92.0		103		111
Motor diameter	AC [mm]	139	158	172		192		210
Distance motor/connection	AD [mm]	118	148	155		164		171

L = length of the motor without built-on accessories

ΔL = additional length of the built-on accessories (with brake)

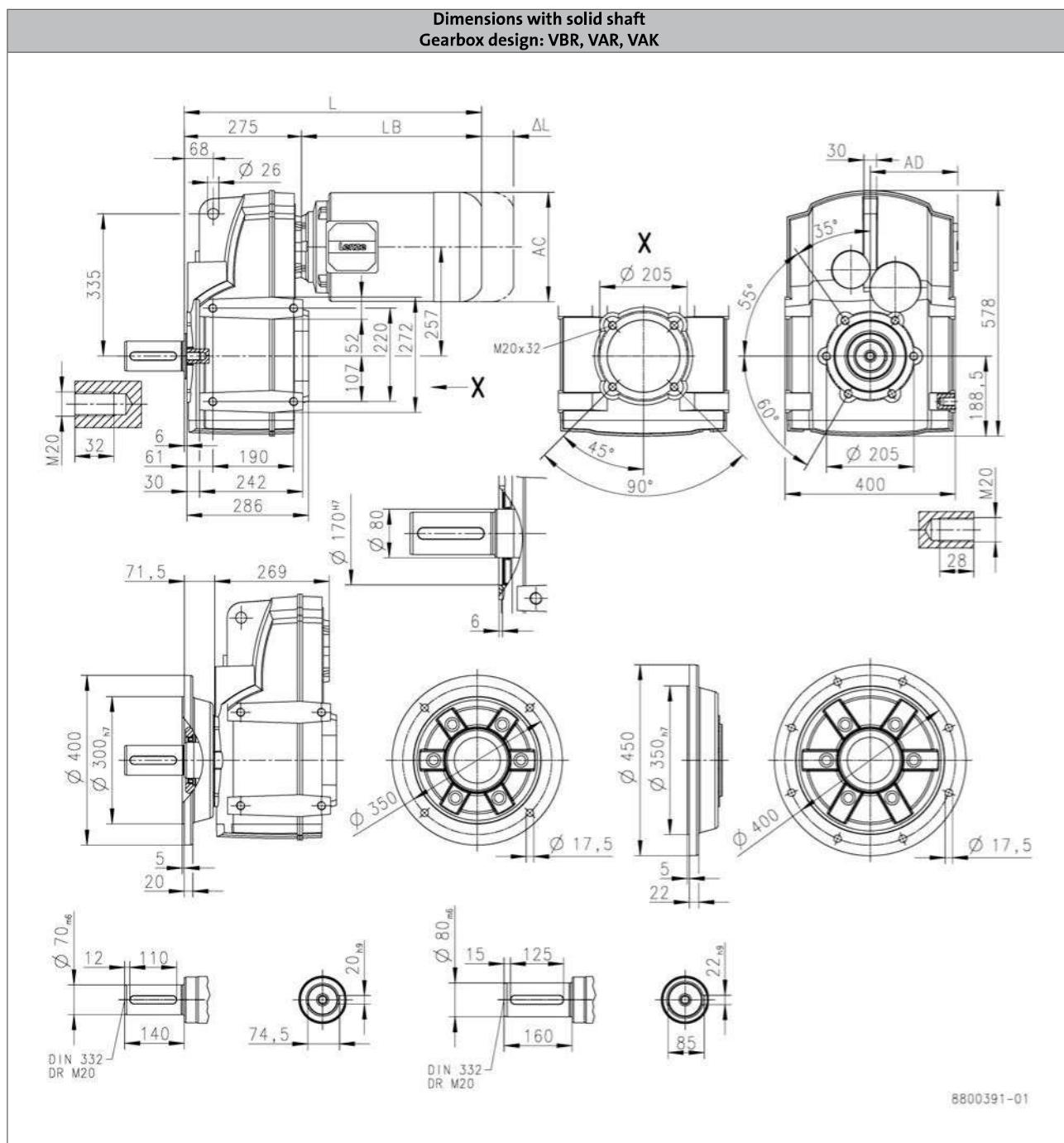
g500-S shaft-mounted helical geared motors



Technical data

Dimensions, 4-pole motors

g500-S4500



6.4

		m240						
		-P132/M4	-P132/L4	-P160/M4	-P160/L4	-P180/M4	-P180/L4	-P180/V4
Total length	L [mm]	693		844		944		
Motor length	LB [mm]	418		569		669		
Length of motor options	Δ L [mm]	118		146		107		
Motor diameter	AC [mm]	281		313		351		
Distance motor/connection	AD [mm]	182		231		282		

L = length of the motor without built-on accessories

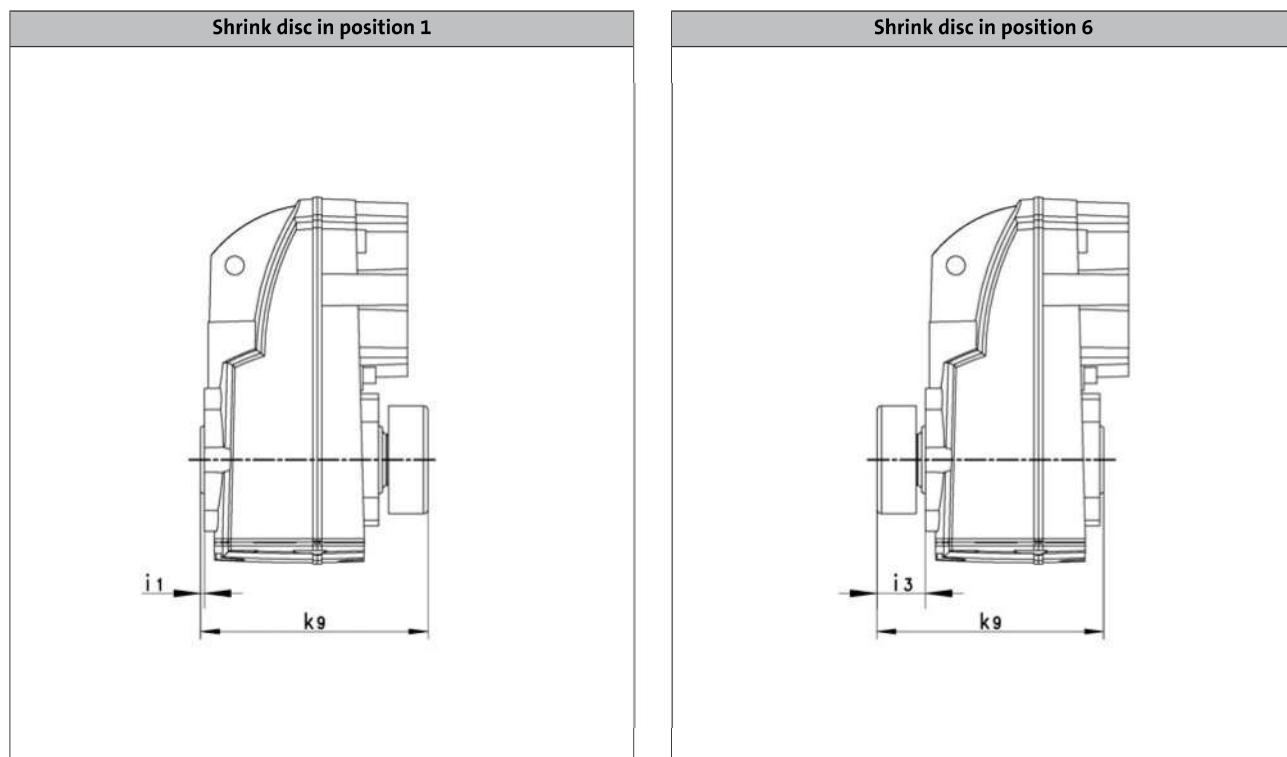
ΔL = additional length of the built-on accessories (with brake)

g500-S shaft-mounted helical geared motors

Technical data



Shrink disc dimensions



Product	Dimensions		
	i ₁ [mm]	i ₃ [mm]	k ₉ [mm]
g500-S130	2.50	28.0	130
g500-S220	2.50	32.0	150
g500-S400	4.00	33.0	179
g500-S660	5.00	33.0	198
g500-S950	5.00	41.5	217
g500-S2100	5.00	44.0	249
g500-S3100	5.00	48.0	286
g500-S4500	6.00	57.5	354

g500-S shaft-mounted helical geared motors



Technical data

Weights, 4-pole motors

- Weights with oil capacity for mounting position A, all given as approximate values.
- The weights refer to the basic version, observe additional weights!

2-stage gearboxes

Product		Mass
		m
		[kg]
g500-S130	MD□MA□□063-12	9.70
	MD□MA□□063-32	
	MD□MA□□063-42	10.0
	MD□MA□□071-32	11.4
	MD□MA□□071-42	12.0
	m240-P80/M4	20.5
	m240-P90/M4	24.5
	m240-P90/L4	25.5
g500-S220	MD□MA□□063-12	11.5
	MD□MA□□063-32	
	MD□MA□□063-42	11.8
	MD□MA□□071-32	13.2
	MD□MA□□071-42	13.8
	m240-P80/M4	22.3
	m240-P90/M4	26.3
	m240-P90/L4	27.3
	m240-P100/M4	33.3
	m240-P100/L4	38.3
g500-S400	MD□MA□□063-32	15.0
	MD□MA□□063-42	15.3
	MD□MA□□071-32	16.7
	MD□MA□□071-42	17.3
	m240-P80/M4	25.8
	m240-P90/M4	29.8
	m240-P90/L4	30.8
	m240-P100/M4	36.8
	m240-P100/L4	41.8
	m240-P112/M4	44.8
g500-S660	MD□MA□□063-42	20.5
	MD□MA□□071-32	21.9
	MD□MA□□071-42	22.5
	m240-P80/M4	31.0
	m240-P90/M4	35.0
	m240-P90/L4	36.0
	m240-P100/M4	42.0
	m240-P100/L4	47.0
	m240-P112/M4	50.0
	m240-P132/M4	71.0
g500-S950	m240-P132/L4	73.0
	MD□MA□□071-42	42.1
g500-S950	m240-P80/M4	50.6

Product		Mass
		m
		[kg]
g500-S950	m240-P90/M4	54.6
	m240-P90/L4	55.6
	m240-P100/M4	61.6
	m240-P100/L4	66.6
	m240-P112/M4	69.6
	m240-P132/M4	90.6
	m240-P132/L4	92.6
	m240-P90/M4	86.9
g500-S2100	m240-P90/L4	87.9
	m240-P100/M4	93.9
	m240-P100/L4	98.9
	m240-P112/M4	102
	m240-P132/M4	123
	m240-P132/L4	125
	m240-P160/M4	160
	m240-P160/L4	167
	m240-P180/M4	194
	m240-P180/L4	203
g500-S3100	m240-P180/V4	251
	m240-P90/M4	126
	m240-P90/L4	127
	m240-P100/M4	133
	m240-P100/L4	138
	m240-P112/M4	141
	m240-P132/M4	162
	m240-P132/L4	164
	m240-P160/M4	199
	m240-P160/L4	206
g500-S4500	m240-P180/M4	233
	m240-P180/L4	242
	m240-P180/V4	290
	m240-P100/M4	206
	m240-P100/L4	211
g500-S4500	m240-P112/M4	214
	m240-P132/M4	235
	m240-P132/L4	237
	m240-P160/M4	272
	m240-P160/L4	279
	m240-P180/M4	306
	m240-P180/L4	315
	m240-P180/V4	363

g500-S shaft-mounted helical geared motors



Technical data

Weights, 4-pole motors

- Weights with oil capacity for mounting position A, all given as approximate values.
- The weights refer to the basic version, observe additional weights!

3-stage gearboxes

Product		Mass
		m
		[kg]
g500-S220	MD□MA□□063-12	11.7
	MD□MA□□063-32	
	MD□MA□□063-42	12.0
	MD□MA□□071-32	13.4
	MD□MA□□071-42	14.0
	m240-P80/M4	22.5
g500-S400	MD□MA□□063-12	15.2
	MD□MA□□063-32	
	MD□MA□□063-42	15.5
	MD□MA□□071-32	16.9
	MD□MA□□071-42	17.5
	m240-P80/M4	26.0
g500-S660	MD□MA□□063-12	20.6
	MD□MA□□063-32	
	MD□MA□□063-42	20.9
	MD□MA□□071-32	22.3
	MD□MA□□071-42	22.9
	m240-P80/M4	31.4
	m240-P90/M4	35.4
g500-S950	m240-P90/L4	36.4
	MD□MA□□063-12	40.4
	MD□MA□□063-32	
	MD□MA□□063-42	40.7
	MD□MA□□071-32	42.1
	MD□MA□□071-42	42.7
	m240-P80/M4	51.2
	m240-P90/M4	55.2
	m240-P90/L4	56.2
g500-S2100	m240-P100/M4	62.2
	m240-P100/L4	67.2
	MD□MA□□063-42	72.9
	MD□MA□□071-32	74.3

Product		Mass
		m
		[kg]
g500-S2100	MD□MA□□071-42	74.9
	m240-P80/M4	83.4
	m240-P90/M4	87.4
	m240-P90/L4	88.4
	m240-P100/M4	94.4
	m240-P100/L4	99.4
	m240-P112/M4	102
	m240-P132/M4	123
	m240-P132/L4	125
	MD□MA□□063-42	112
g500-S3100	MD□MA□□071-32	
	MD□MA□□071-42	114
	m240-P80/M4	123
	m240-P90/M4	127
	m240-P90/L4	128
	m240-P100/M4	134
	m240-P100/L4	139
	m240-P112/M4	142
	m240-P132/M4	163
	m240-P132/L4	165
g500-S4500	MD□MA□□071-42	190
	m240-P80/M4	198
	m240-P90/M4	202
	m240-P90/L4	203
	m240-P100/M4	209
	m240-P100/L4	214
	m240-P112/M4	217
	m240-P132/M4	238
	m240-P132/L4	240
	m240-P160/M4	275
6.4	m240-P160/L4	282
	m240-P180/M4	309

g500-S shaft-mounted helical geared motors



Technical data

Additional weights for gearboxes

Product			g500-S130	g500-S220	g500-S400	g500-S660
Mass						
Solid shaft	m	[kg]	0.5	0.5	1.7	2.5
Shrink disc	m	[kg]	0.2	0.4	0.6	0.6
Foot	m	[kg]	1.7	1.8	3.3	4.3
Flange	m	[kg]	0.4	0.4	0.9	1.7

Product			g500-S950	g500-S2100	g500-S3100	g500-S4500
Mass						
Solid shaft	m	[kg]	3.0	5.5	8.4	19.0
Shrink disc	m	[kg]	1.2	1.7	2.3	4.3
Foot	m	[kg]				
Flange	m	[kg]	6.0	11.5	15.0	29.0

Additional weights for motors

4-pole motors

Product			MD□MA□□		m240		
			063-12 063-32 063-42	071-32 071-42	-P80/M4	-P90/M4 -P90/L4	-P100/M4 -P100/L4
Brake			06	06 08	08 10		10 12
	m	[kg]	0.9	0.9 1.5	1.5 2.6		2.6 4.2

Product			m240				
			-P112/M4	-P132/M4 -P132/L4	-P160/M4	-P160/L4	-P180/M4 -P180/L4 -P180/V4
Brake			12 14	14 16	16 18	18	18 20
	m	[kg]	4.2 5.8	5.8 8.7	8.7 12.6	12.6	12.6 19.5

g500-S shaft-mounted helical geared motors

Technical data



6.4

g500-S shaft-mounted helical gearbox

Product extensions



Overview

Torque plate

The torque is usually supported via the foot or the flange. Another simple option is the integrated torque plate at the housing. Here, the torque is supported only via one point and is, among other things, suitable for shaft-mounted gearboxes. Moreover, the suitable rubber buffers provide for a low-tension installation and absorb slight shocks.

The rubber buffers can be ordered optionally.

Rubber buffer for torque plate



Shaft cover

The optional shrink disc cover is provided for the shrink disc to be protected from contact.

Shrink disc cover



6.4

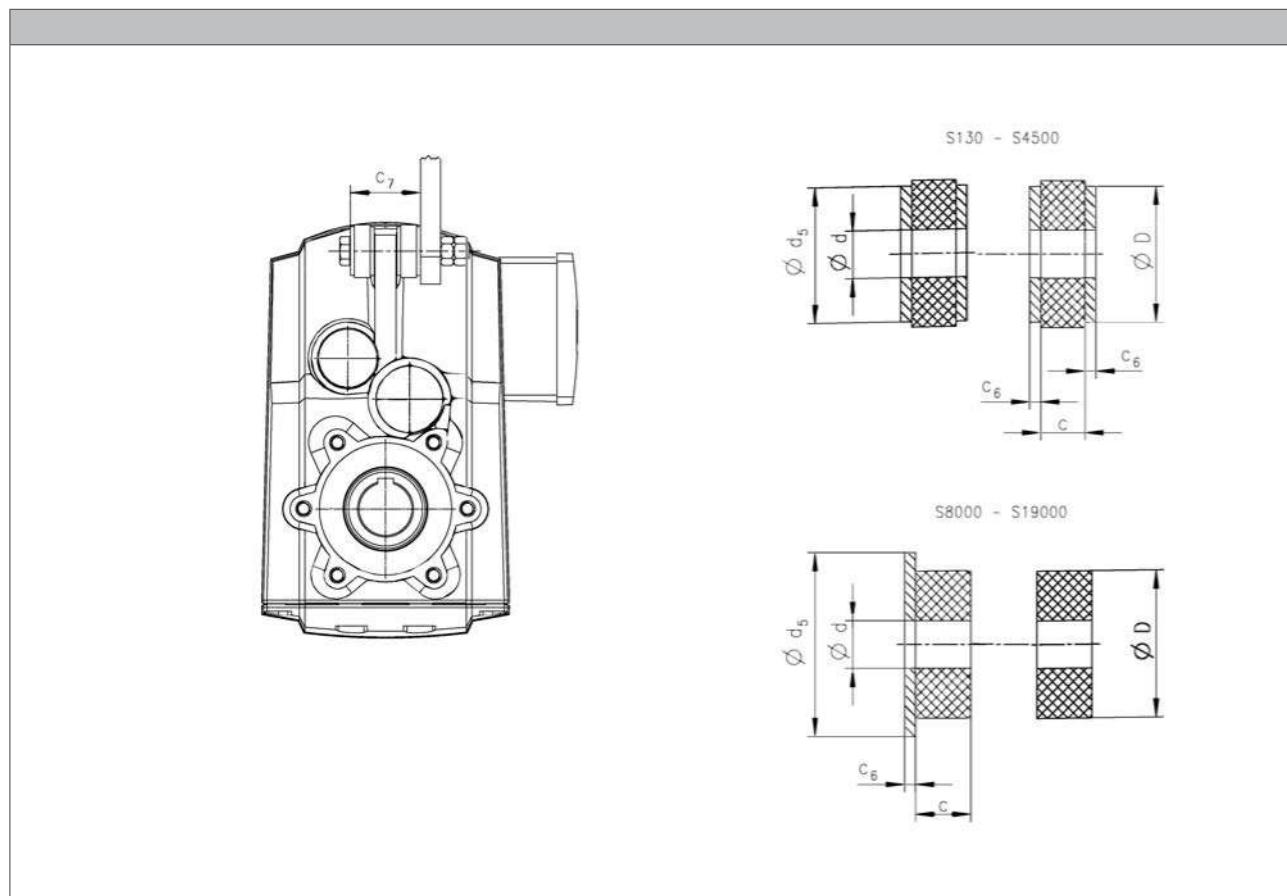
g500-S shaft-mounted helical gearbox



Product extensions

Torque plate

Rubber buffer for torque plate



Product	Dimensions						Mass m [kg]
	d [mm]	D [mm]	d ₅ [mm]	c [mm]	c ₆ [mm]	c ₇ [mm]	
g500-S130	11.0	30.0	30	12.0	2.50	45.0	0.1
g500-S220	11.0	30.0	30	12.0	2.50	45.0	0.1
g500-S400	13.0	40.0	37	12.0	3.00	49.0	0.1
g500-S660	13.0	40.0	37	12.0	3.00	52.0	0.1
g500-S950	13.0	40.0	37	12.0	3.00	56.0	0.1
g500-S2100	17.0	50.0	50	24.0	3.00	85.0	0.5
g500-S3100	21.0	60.0	60	24.0	4.00	94.0	0.5
g500-S4500	26.0	72.0	72	24.0	5.00	98.0	0.5
g500-S8000	25.0	80.0	100	40.0	10.0	128	1.0
g500-S14000	31.0	120	140	50.0	12.0	152	1.0
g500-S19000	31.0	120	140	50.0	12.0	156	1.0

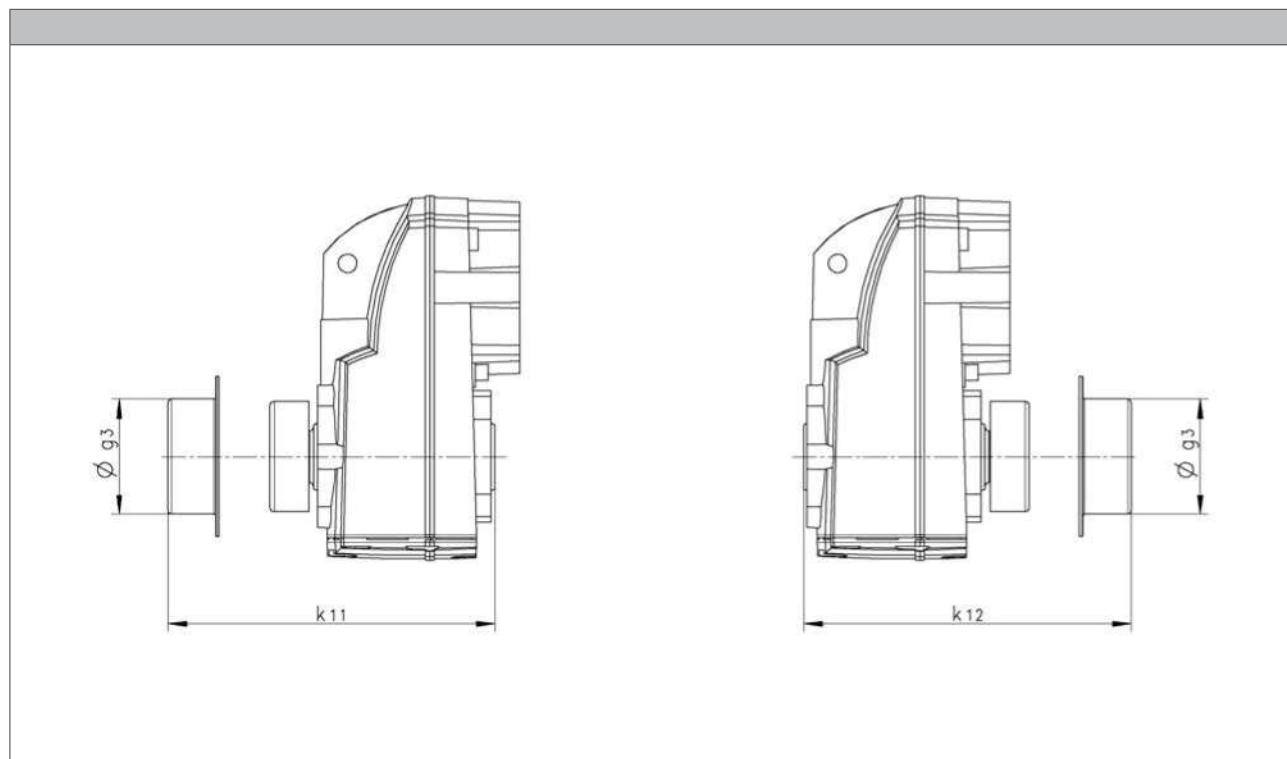
g500-S shaft-mounted helical gearbox



Product extensions

Shaft cover

Shrink disc cover



Product	Dimensions			Mass [kg]
	g ₃ [mm]	k ₁₁ [mm]	k ₁₂ [mm]	
g500-S130	63.0	132	132	0.1
g500-S220	76.0	152	152	0.1
g500-S400	90.0	182	182	0.1
g500-S660	90.0	200	202	0.1
g500-S950	110	219	219	0.1
g500-S2100	127	252	252	0.2
g500-S3100	155	290	290	0.3
g500-S4500	188	355	357	0.4
g500-S8000 ¹⁾	218		425	0.5
g500-S14000 ¹⁾	258		520	0.6
g500-S19000 ¹⁾	310		622	0.9

¹⁾ Shrink disc only available in position 1 (on the motor end).

g500-S shaft-mounted helical geared motors

Product extensions



6.4

g500-S shaft-mounted helical geared motors



Appendix

Gearbox code

Example		G	50	B	S	113	M	H	D	R	2	C	1B
Meaning	Variant	G	50										
Product family		G	50										
Generation				B									
Gearbox type	Shaft-mounted helical gearbox				S								
Output torque	130 Nm					113							
	220 Nm					122							
	400 Nm					140							
	660 Nm					166							
	950 Nm					195							
	2100 Nm					221							
	3100 Nm					231							
	4500 Nm					245							
	8000 Nm					280							
	14000 Nm					314							
	19000 Nm					319							
Type of construction	Geared motor						M						
	Gearboxes						N						
Shaft type	Solid shaft with feather key						V						
	Hollow shaft with keyway						H						
	Hollow shaft with shrink disc						S						
Housing type	Foot mounting + centering							A					
	Foot mounting							B					
	Centering							C					
	Threaded pitch circle							D					
Flange mounting	Without flange							R					
	Flange with through holes							k					
Number of stages	2-stage								2				
	3-stage								3				
Motor mounting	Integrated									C			
	IEC motor									N			
	NEMA motor									A			
	Servo motor									S			
Drive size											1A		
											...		
											□H		

g500-S shaft-mounted helical geared motors



Appendix

Motor code

Example		M	D	E	MA	XX	063	-	4	2	C1	C
Meaning	Variant	Motor code										
Product family		M										
Efficiency class	IE1		D									
Cooling	Natural ventilation			S								
	Integral fan			E								
	Blower			F								
Internal key				MA								
Built-on accessories	Without built-on accessories				XX							
	Brake				BR							
	Brake + resolver				BS							
	Brake + incremental encoder				BI							
	Brake + SinCos absolute value encoder				BA							
	Resolver				RS							
	Incremental encoder				IG							
	SinCos absolute value encoder				AG							
Size					063							
Overall length					071							
Number of pole pairs	4-pole motors					0						
	2-pole motors					1						
Internal key						2						
Approval	CE					3						
	cURus					4						
	CCC						2					
							1				C1	
											C	
											U	
											3	

g500-S shaft-mounted helical geared motors



Appendix

Motor code

Example		M	24	A	P	080	M	04	5	E	0	0	W	T
Meaning	Variant	Motor code												
Product family		M	24											
Generation				A										
Efficiency class	Premium - IE3				P	080								
Size						090								
						100								
						112								
						132								
						160								
						180								
Overall length	Medium				M									
	Long				L									
	Very long				V									
Number of poles	4-pole					04								
Degree of protection	IP5□						5							
	IP6□						6							
Cooling	Integral fan							E						
Brake attachment	Without brake								0					
	Spring-applied brake								F					
Actual value encoder	Without encoder									0				
Approval	CE										C			
	Without										N			
Design type	Internal key											T		

g500-S shaft-mounted helical geared motors

Appendix



6.4