

Link to other documents





Datasheet for SIMOGEAR Geared Motors
MLFB-Ordering
data:

2KJ3212-1KL33-2AF1-Z
D01+K01+K06+L02+L75+M55

Client order no.: Order no.: Offer no.:

Geared motor basic data		
Type designation:	SIMOGEAR D149-LES180MQ4P	
Gearbox type:	Helical gearbox	
Installation size(s):	149	
Application:	Standard	
Light-duty sector acc. VDI 3643:	-	
Transmission ratio:	59.82	
Number of teeth:	96309 // 1610	
Service factor:	1.11 // 1.16	
Nominal torque:	8000 Nm	
Output torque:	7189.59 Nm // 6874.74 Nm	
Output speed:	24.6 rpm // 29.6 rpm	
Environment temperature:	-15 +40°C	
Specification:	CE (Europe / other countries)	
Additional specifications:	-	
Weight without oil:	422.6 kg	
Oil quantity:	9.10	

Mote	or options
Thermal class:	Temperature class 155 (F)
Motor protection:	-
Motor plug:	-
Ventilation:	Standard fan
Degree of protection:	[KO1] IP55
Terminal box position:	[M55] 1A
Increased air humidity/temperature:	-
Counter Plug:	-
Cable gland:	metric
External ground screw:	[N53] External ground screw
Motor connection:	Standard
Terminal box potted:	-
Term. Box neutr.:	-
Backstop Motor:	-
Rot. dir. outputshaft	-
Second shaft end:	-
Canopy:	-
Internal corrosion protection:	-
Corrosion protect. for motor fittings:	-
Anti-condens. heating:	-

item no.:
Consignment no.:
Project:

General options		
Surface treatments:	painted	
Coating:	[L02] Coating for normal environmental stress C1	
RAL Color:	[L75] 7016 anthracite gray	
Pretreatment:	-	
Coating on Flange:	-	
Conservation:	-	
Rating Plate stainless steel:	-	
Second rating plate:	-	
Packaging:	Standard packing	
Fast lane:	-	
Enclosed documentation:		
Additional documentation (E-Mail):	-	

Gearbox options		
Mounting position:	[D01] M1	
Special installation (Angle):	-	
Permissible mount. position deviation:	-	
Mount. pos. deviation (Angle):	-	
Mounting type:	Foot-mounted design	
Position of torque arm:	-	
Flange diameter:	-	
Output flange tightened:	-	
Output shaft:	V90 X 170	
Output shaft bearing:	Standard bearing	
Hollow shaft cover:	-	
Gear oil:	[K06] Mineral oil CLP VG220	
Output shaft sealing:	Standard sealing	
Gearbox breather:	Pressure breather valve	
Oil level control:	Oil level screw	
Electr. oil temperature monitoring:	-	
Disconnector unit, 24 V param.:	-	
Adapter cable USB/jacks:	-	
Oil level gauge:	-	
Separation switch gear:		

Performance data motor		
Rated power PN:	18.50 // 21.30 kW / 25.0 // 28.60 hp	
Efficiency class:	IE3 // IE3	
Operating mode:	S1	
Frequency, Voltage Power:	50//60Hz 400VD/690VY // 460VD 50 // 60	
Circuit (start):	D/Y (Y-D/Y) // D (Y-D)	
Rated speed nN:	1470 rpm // 1770 rpm	
Number of poles:	4-pole	
Rated current IN:	35.00 / 20.22 // 34.50 A	
Rel. starting current IA / IN:	7.20 // 7.20	
Power factor cos φ:	0.82 // 0.83	
Load efficiency 4/4-Load η:	92.60 % // 93.60 %	
Load efficiency 3/4-Load η:	93.10 % // 94.00 %	
Rated motor torque:	120.19 Nm	
Rel. starting torque TA / TN:	2.50 // 2.40	
Average acceleration torque TH / TN:	2.80 // 2.60	
Brakedown torque TK / TN:	3.30 // 3.20	
Moment of inertia Jmot:	0.13000 kgm²	

Oil drain:	Oil drain plug
Housing material:	Cast iron
Backlash Design:	-
Relubrication:	-
Drywell:	-
24 V Drywell switch disconnector:	-
Flange-Figure:	-