

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1111-1QG12-2AX1-Z
D01+G23+K07

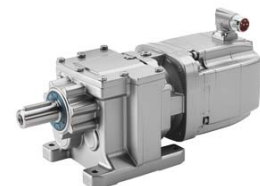


Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type Z129

Gearbox basic type Helical geared

Gearbox size 129

Transmission stages 2

Transmission (ratio) 62.48

Gear number relation 11371/182

Output moment maximum (short-time) 4730 Nm

max. input speed (briefly) 4500 rpm

Output speed short-time 72 rpm

Emergency off output moment (1000 cycles) 8420 Nm

Radial force maximum 29300 N

Max. permissible radial force with Mmax 29200 N

Moment of inertia 7.50 kgcm²

Torsional stiffness 260 Nm/'

Efficiency 0.95

Mounting position M1

Mounting type Foot-mounted

Output shaft version Solid shaft standard

Output shaft dimension V70x140 mm

Gearbox flange diameter -/-

Figure 2 torque support

-

General tech. specifications

Degree of protection IP65

Color of the housing Standard painting
(Anthracite RAL 7016)

Specification CE / UL / CSA / EAC / cRUus

Net weight 198.16 kg

1m-sound pressure level L_{pA} (Tol.+3dB(A)) 75

Plug position top (default) (2)

Adapter flange position top (default) (2)

Lubrication and sealing

Gear oil Polyglycol oil CLP ISO PG
VG220

Output shaft sealing Seal longer service life

Oil charge 5.80 l

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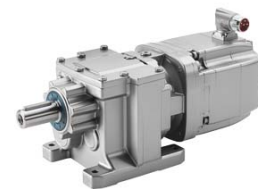


Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	5000 rpm
Motor type	Compact	Maximum torque	80.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	40.5 A
Shaft height	100 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2000 rpm
Rated speed	2000 rpm	Optimum power	3.75 kW
Rated torque (100K)	18.00 Nm	Recommended Motor Module	
Rated power	3.77 kW	Rated inverter current	18.0 A
Rated current (100K)	8.60 A	Maximum inverter current	54.0 A
Static torque	24.50 Nm	Maximum torque	80.0 Nm
Static current	11.10 A		
Moment of inertia	79.00 kgcm ²		
Efficiency η	93 %		
Temperature monitoring	Pt1000 temperature sensor		
Connector size	1.5		
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits		

Info servo geared motor

Outside the standard temperature range of -10 to +40 °C, further selectable options must be observed, in addition to the lubricant selection.

Further, you have to check the suitability of the components and options used for the requested temperature range.

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Figure similar

Options		Standards	
D01	M1 for helical and parallel shaft gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G23	Seal longer service life		
K07	Polyglycol oil CLP ISO PG VG220		
		CE marking	EN 60034