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Data sheet for SIMOTICS S-1FG1



Figure similar

MLFB-Ordering data 1FG1512-9RG52-2AD2-Z
D11+H5A+K06+N24

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type K129

Gearbox basic type Bevel geared

Gearbox size 129

Transmission stages 3

Transmission (ratio) 144.53

Gear number relation 58534/405

Output moment maximum (short-time) 4480 Nm

max. input speed (briefly) 4500 rpm

Output speed short-time 31 rpm

Emergency off output moment (1000 cycles) 7480 Nm

Radial force maximum 40000 N

Max. permissible radial force with Mmax 40000 N

Moment of inertia 7.00 kgcm²

Torsional stiffness 421 Nm/'

Efficiency 0.94

Mounting position M1-A

Mounting type Foot-mounted

Output shaft version Solid shaft, both ends with feather key

Output shaft dimension VD70x140 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 201.01 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 Mineral oil CLP ISO VG220

Output shaft sealing Standard

Oil charge 6.00 l

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Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	5000 rpm
Motor type	Compact	Maximum torque	150.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	71.0 A
Shaft height	100 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2000 rpm
Rated speed	2000 rpm	Optimum power	7.10 kW
Rated torque (100K)	34.00 Nm	Recommended Motor Module	
Rated power	7.12 kW	Rated inverter current	30.0 A
Rated current (100K)	14.80 A	Maximum inverter current	56.0 A
Static torque	45.00 Nm	Maximum torque	126.0 Nm
Static current	19.00 A	Holding brake	
Moment of inertia	181.60000 kgcm ²	Holding brake	reinforced brake
Efficiency η	93 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1.5	Braking torque M_{1Br} / M_{2Br}	35.00 Nm
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Holding torque M_{4Br}	85.00 Nm
		Opening time	250.0 ms
		Closing time	70.0 ms
		Maximum switching energy per braking action	5300.0 J

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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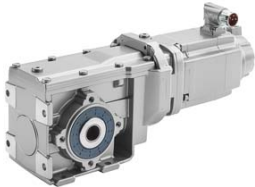


Figure similar

Options		Standards	
D11	M1-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
H5A	Solid shaft, both ends with feather key		
K06	Mineral oil CLP ISO VG220	CE marking	EN 60034
N24	Holding brake with increased braking torque (permanent magnet brake)		