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Data sheet for SIMOTICS S-1FG1



Figure similar

MLFB-Ordering data 1FG1513-1QG52-2AC2-Z
D12+G20+G23+K06

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	K149	Radial force maximum ¹⁾	Calculation required
Gearbox basic type	Bevel geared	Max. permissible radial force with Mmax ¹⁾	Calculation required
Gearbox size	149	Moment of inertia	18.70 kgcm ²
Transmission stages	3	Torsional stiffness	920 Nm/'
Transmission (ratio)	127.16	Efficiency	0.94
Gear number relation	89523/704	Mounting position	M2-A
Output moment maximum (short-time)	8160 Nm	Mounting type	Foot-mounted
max. input speed (briefly)	4500 rpm	Output shaft version	Solid shaft standard
Output speed short-time	35 rpm	Output shaft dimension	V90x170 mm
Emergency off output moment (1000 cycles)	13200 Nm	Gearbox flange diameter	-/-
		Output shaft bearing	Yes
		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	291.20 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	Seal longer service life
Oil charge	20.50 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		
Moment of inertia	154.00 kgcm ²		
Efficiency η	93 %		
Temperature monitoring	Pt1000 temperature sensor		
Connector size	1.5		
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits		

1) For the option G20 (reinforced bearing), a calculation must be performed using the Siemens tool ALVIS to determine the value. Please contact your Siemens representative.

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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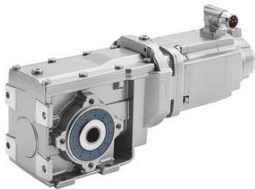


Figure similar

Options		Standards	
D12	M2-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G20	Radially reinforced output shaft bearing		
G23	Seal longer service life		
K06	Mineral oil CLP ISO VG220	CE marking	EN 60034