

Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1501-5RF03-2AG1-Z
D11+K12

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

Item no. :
Consignment no. :
Project :

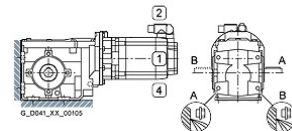


Figure similar

Gearbox data	
Gear box type	B29
Gearbox basic type	Bevel geared B / K
Gearbox size	29
Transmission stages	2
Transmission (ratio)	7.38
Gear number relation	1380/187
Output moment maximum (short-time)	75 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	610 rpm
Emergency off output moment (1000 cycles)	127 Nm
Radial force maximum	3,270 N
Max. permissible radial force with Mmax	3,320 N
Moment of inertia	0.43 kgcm²
Torsional stiffness	12 Nm/°
Efficiency	0.93
Mounting position	M1-A
Mounting type	Foot-mounted
Output shaft version	Hollow shaft standard
Output shaft dimension	H20 mm
Gearbox flange diameter	-/-
Output shaft bearing	No
Figure 2 torque support	-

General tech. specifications	
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	16.23 kg
1m-sound pressure level LpA (Tol.+3dB(A))	75
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing	
Gear oil	Synthetic oil CLP PAO VG220
Output shaft sealing	Standard
Oil charge	0.25 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	80 mm
Cooling	Natural cooling
Rated speed	3,000 rpm
Rated torque (100K)	5.60 Nm
Rated power	1.76 kW
Rated current (100K)	3.70 A
Static torque	7.00 Nm
Static current	4.30 A
Moment of inertia	14.20 kgcm²
Efficiency η	92 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Degree of protection	IP65
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

Limiting data	
Maximum speed (short-time)	6,000 rpm
Maximum torque	25.00 Nm
Motor current short term	18.0 A

Optimum operating point	
Optimum speed	3,000 rpm
Optimum power	1.76 kW



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Recommended Motor Module	
Rated inverter current	5.0 A
Maximum inverter current	15.0 A
Maximum torque	22.1 Nm

Standards	
Compliance with standards	CE / UL / CSA / EAC / cRUus
CE marking	EN 60034

Options	
D11	M1-A for bevel and worm gearboxes
K12	Poly-alpha-olefin oil CLP ISO PAO VG220

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.