SIEMENS

Data sheet for SIMOTICS S-1FG1

Article No. : **1FG1503-5QC26-2FB2-Z**
D11+G24+G34+G99+K08+W50

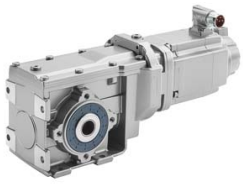


Figure similar

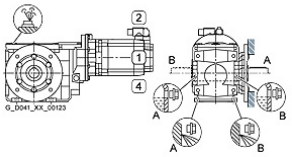
Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Gearbox data	
Gear box type	B49
Gearbox basic type	Bevel geared B / K
Gearbox size	49
Transmission stages	2
Transmission (ratio)	53.89
Gear number relation	485/9
Output moment maximum (short-time)	230 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	84 rpm
Emergency off output moment (1000 cycles)	765 Nm
Radial force maximum	9,120 N
Max. permissible radial force with Mmax	9,020 N
Moment of inertia	0.23 kgcm²
Torsional stiffness	54 Nm/'
Torsional backlash	8.25'
Efficiency	0.95
Mounting position	M1-A
Mounting type	Flange version (A type)
Output shaft version	Hollow shaft standard
Output shaft dimension	H40 mm
Gearbox flange diameter	200 mm
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	19.61 kg
1m-sound pressure level L_{pA} (Tol.+3dB(A))	65
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing	
Gear oil	Synthetic oil CLP PG VG460
Output shaft sealing	Seal increased environmental load
Oil charge	1.01 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	36 mm
Cooling	Natural cooling
Rated speed	6,000 rpm
Rated torque (100K)	0.65 Nm
Rated power	0.41 kW
Rated current (100K)	1.09 A
Static torque	1.01 Nm
Static current	1.50 A
Moment of inertia	0.65 kgcm²
Efficiency η	87 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Degree of protection	IP65
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Limiting data	
Maximum speed (short-time)	10,000 rpm
Maximum torque	4.50 Nm
Motor current short term	7.0 A

Optimum operating point	
Optimum speed	6,000 rpm
Optimum power	0.41 kW

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Recommended Motor Module	
Rated inverter current	3.0 A
Maximum inverter current	9.0 A
Maximum torque	4.5 Nm

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

Options	
D11	M1-A for bevel and worm gearboxes
G24	Seal increased environmental load
G34	Oil inspection glass
G99	Version with reduced backlash
K08	Polyglycol oil CLP ISO PG VG460
W50	Express delivery service for motors - fast lane

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.