

Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1501-5QC46-2AL1-Z
K11

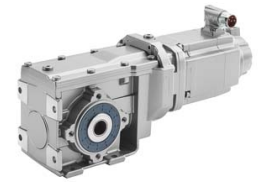


Figure similar

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

Item no. :
Consignment no. :
Project :

Gearbox data	
Gear box type	B29
Gearbox basic type	Bevel geared
Gearbox size	29
Transmission stages	2
Transmission (ratio)	10.78
Gear number relation	550/51
Output moment maximum (short-time)	65 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	417 rpm
Emergency off output moment (1000 cycles)	187 Nm
Radial force maximum	3,560 N
Max. permissible radial force with Mmax	3,520 N
Moment of inertia	0.40 kgcm ²
Torsional stiffness	13 Nm/°
Efficiency	0.93
Mounting position	
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	
Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	8.73 kg
1 m-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	Food-grade oil CLP ISO H1 VG460
Output shaft sealing	Standard
Oil charge	I

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)	0.77 Nm
Rated power	0.49 kW
Rated current (100K)	1.08 A
Static torque	1.40 Nm
Static current	1.69 A
Moment of inertia	0.90 kgcm ²
Efficiency η	87 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Limiting data	
Maximum speed (short-time)	10,000 rpm
Maximum torque	6.50 Nm
Motor current short term	8.0 A

Optimum operating point	
Optimum speed	6,000 rpm
Optimum power	0.48 kW

Recommended Motor Module	
Rated inverter current	3.0 A
Maximum inverter current	9.0 A
Maximum torque	6.5 Nm

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

Options	
K11	Food-grade oil CLP ISO H1 VG460

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.