

Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1502-5ED26-2AA2-Z
D14+K12



Figure similar

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

Item no. :
Consignment no. :
Project :

Gearbox data

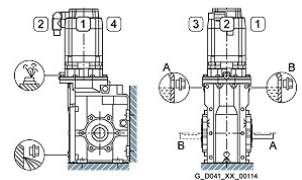
Gear box type	B39
Gearbox basic type	Bevel geared B / K
Gearbox size	39
Transmission stages	2
Transmission (ratio)	56.36
Gear number relation	4565/81
Output moment maximum (short-time)	250 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	80 rpm
Emergency off output moment (1000 cycles)	425 Nm
Radial force maximum	6,980 N
Max. permissible radial force with Mmax	6,980 N
Moment of inertia	0.06 kgcm ²
Torsional stiffness	40 Nm/°
Efficiency	0.93
Mounting position	M4-A
Mounting type	Foot-mounted
Output shaft version	Hollow shaft standard
Output shaft dimension	H30 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	13.46 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	Poly-alpha-olefin oil CLP ISO PAO VG220
Output shaft sealing	Standard
Oil charge	1.50 l



Motor data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	48 mm
Cooling	Natural cooling
Rated speed	6,000 rpm
Rated torque (100K)	1.23 Nm
Rated power	0.77 kW
Rated current (100K)	2.15 A
Static torque	2.85 Nm
Static current	4.25 A
Moment of inertia	2.90 kgcm ²
Efficiency η	88 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Degree of protection	IP65
Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface

Limiting data

Maximum speed (short-time)	9,000 rpm
Maximum torque	10.50 Nm
Motor current short term	15.3 A

Optimum operating point

Optimum speed	4,800 rpm
Optimum power	0.86 kW

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Recommended Motor Module

Rated inverter current	5.0 A
Maximum inverter current	15.0 A
Maximum torque	10.3 Nm

Standards

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

Options

D14	M4-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.