

Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1303-5QF32-2HE1-Z
D01+K06



Figure similar

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

Item no. :
Consignment no. :
Project :

Gearbox data

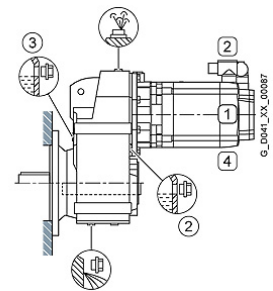
Gear box type	FZ49
Gearbox basic type	Parallel shaft geared F
Gearbox size	49
Transmission stages	2
Transmission (ratio)	8.40
Gear number relation	42/5
Output moment maximum (short-time)	405 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	536 rpm
Emergency off output moment (1000 cycles)	740 Nm
Radial force maximum	1,950 N
Max. permissible radial force with Mmax	1,950 N
Moment of inertia	2.20 kgcm ²
Torsional stiffness	35 Nm/°
Efficiency	0.97
Mounting position	M1
Mounting type	Housing flange (C type)
Output shaft version	Hollow shaft standard
Output shaft dimension	H35 mm
Gearbox flange diameter	-/-
Figure 2 torque support	-

General tech. specifications

Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	35.17 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	Standard
Oil charge	1.60 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	2,000 rpm
Rated torque (100K)	11.60 Nm
Rated power	2.43 kW
Rated current (100K)	5.80 A
Static torque	15.50 Nm
Static current	7.30 A
Moment of inertia	26.00 kgcm ²
Efficiency η	92 %
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)	6,000 rpm
Maximum torque	50.00 Nm
Motor current short term	27.5 A

Optimum operating point

Optimum speed	2,000 rpm
Optimum power	2.45 kW

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Recommended Motor Module

Rated inverter current	9.0 A
Maximum inverter current	27.0 A
Maximum torque	49.3 Nm

Standards

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

Options

D01	M1 for helical and parallel shaft gearboxes
K06	Mineral oil CLP ISO 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.