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Data sheet for SIMOTICS S-1FG1

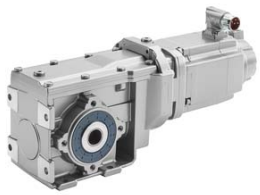

Figure similar

MLFB-Ordering data 1FG1513-9RG52-2AD2-Z
D11+H5A+K06+N24

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

Item no. :
Consignment no. :
Project :

Gearbox data

Gear box type	K149
Gearbox basic type	Bevel geared
Gearbox size	149
Transmission stages	3
Transmission (ratio)	140.93
Gear number relation	17052/121
Output moment maximum (short-time)	8160 Nm
max. input speed (briefly)	4500 rpm
Output speed short-time	32 rpm
Emergency off output moment (1000 cycles)	13200 Nm

Radial force maximum	64100 N
Max. permissible radial force with Mmax	63600 N
Moment of inertia	16.00 kgcm²
Torsional stiffness	920 Nm/'
Efficiency	0.94
Mounting position	M1-A
Mounting type	Foot-mounted
Output shaft version	Solid shaft, both ends with feather key
Output shaft dimension	VD90x170 mm
Gearbox flange diameter	-/-
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	297.10 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	9.00 l

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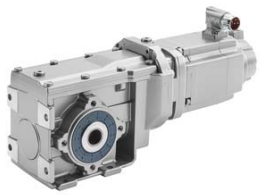

Figure similar

Motor data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	100 mm
Cooling	Natural cooling
Rated speed	2000 rpm
Rated torque (100K)	34.00 Nm
Rated power	7.12 kW
Rated current (100K)	14.80 A
Static torque	45.00 Nm
Static current	19.00 A
Moment of inertia	181.60000 kgcm²
Efficiency η	93 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1.5
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)	5000 rpm
Maximum torque	150.00 Nm
Motor current short term	71.0 A

Optimum operating point

Optimum speed	2000 rpm
Optimum power	7.10 kW

Recommended Motor Module

Rated inverter current	30.0 A
Maximum inverter current	56.0 A
Maximum torque	126.0 Nm

Holding brake

Holding brake	reinforced brake
Holding brake version	Permanent-magnet brake
Power supply voltage	DC 24 V ± 10 %
Braking torque M_{1Br} / M_{2Br}	35.00 Nm
Holding torque M_{4Br}	85.00 Nm
Opening time	250.0 ms
Closing time	70.0 ms
Maximum switching energy per braking action	5300.0 J

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.

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D11+H5A+K06+N24

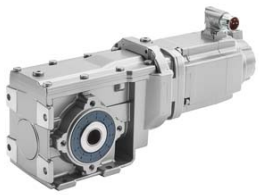

Figure similar

Options

D11	M1-A for bevel and worm gearboxes
H5A	Solid shaft, both ends with feather key
K06	Mineral oil CLP ISO VG220
N24	Holding brake with increased braking torque (permanent magnet brake)

Standards

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