SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1501-6PE03-2HB1-Z
D12+G23+K07+Q92

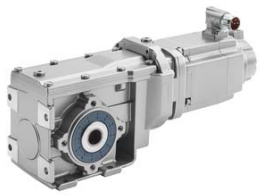


Figure similar

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)	4.21
Gear number relation	644/153
Output moment maximum (short-time)	72 Nm
max. input speed (briefly)	4500 rpm
Output speed short-time	1069 rpm
Emergency off output moment (1000 cycles)	125 Nm

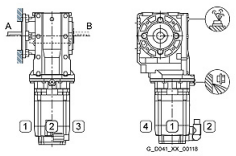
Radial force maximum	2690 N
Max. permissible radial force with Mmax	2490 N
Moment of inertia	0.82 kgcm²
Torsional stiffness	10 Nm/'
Efficiency	0.95
Mounting position	M2-A
Mounting type	Housing flange (C type)
Output shaft version	Hollow shaft standard II
Output shaft dimension	H25 mm
Gearbox flange diameter	-/-
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	12.42 kg
1m-sound pressure level L_{pA} (Tol.+3dB(A))	70
Plug position	bottom (4)
Connector size	1

Lubrication and sealing

Gear oil	Polyglycol oil CLP ISO PG VG220
Output shaft sealing	Seal longer service life
Oil charge	0.55 l



Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Siemens A6X30172237 Gearmotors | gesrepair.com

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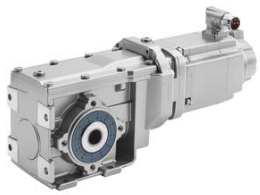

Figure similar

Motor data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	63 mm
Cooling	Natural cooling
Rated speed	3000 rpm
Rated torque (100K)	3.95 Nm
Rated power	1.24 kW
Rated current (100K)	3.25 A
Static torque	5.30 Nm
Static current	4.05 A
Moment of inertia	7.70 kgcm²
Efficiency η	91 %
Temperature monitoring	Pt1000 temperature sensor
Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)

Limiting data

Maximum speed (short-time)	7200 rpm
Maximum torque	18.00 Nm
Motor current short term	15.0 A

Optimum operating point

Optimum speed	3000 rpm
Optimum power	1.25 kW

Recommended Motor Module

Rated inverter current	5.0 A
Maximum inverter current	15.0 A
Maximum torque	18.0 Nm

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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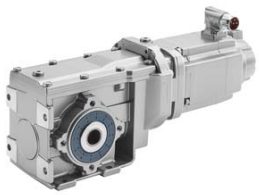

Figure similar

Options

D12	M2-A for bevel and worm gearboxes
G23	Seal longer service life
K07	Polyglycol oil CLP ISO PG VG220
Q92	Plug position bottom

Standards

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