

Data sheet for SIMOTICS S-1FG1

Article No. : **1FG1510-1UE33-2AT1-Z
D11+G24+K08**



Figure similar

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

Item no. :
Consignment no. :
Project :

Gearbox data

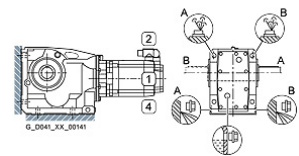
Gear box type	K89
Gearbox basic type	Bevel geared B / K
Gearbox size	89
Transmission stages	3
Transmission (ratio)	48.85
Gear number relation	16121/330
Output moment maximum (short-time)	1,610 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	92 rpm
Emergency off output moment (1000 cycles)	2,720 Nm
Radial force maximum	18,100 N
Max. permissible radial force with Mmax	18,100 N
Moment of inertia	5.20 kgcm ²
Torsional stiffness	164 Nm/°
Efficiency	0.94
Mounting position	M1-A
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard
Output shaft dimension	V50 x 100 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	72.12 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	70
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Synthetic oil CLP PG VG460
Output shaft sealing	Seal increased environmental load
Oil charge	1.80 l



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	3,000 rpm
Rated torque (100K)	6.70 Nm
Rated power	2.10 kW
Rated current (100K)	5.30 A
Static torque	10.10 Nm
Static current	7.40 A
Moment of inertia	14.70 kgcm ²
Efficiency η	91 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Degree of protection	IP65
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)

Limiting data

Maximum speed (short-time)	7,200 rpm
Maximum torque	35.00 Nm
Motor current short term	28.0 A

Optimum operating point

Optimum speed	3,000 rpm
Optimum power	2.10 kW

Data sheet for SIMOTICS S-1FG1

Article No. : **1FG1510-1UE33-2AT1-Z**
D11+G24+K08

Recommended Motor Module

Rated inverter current	9.0 A
Maximum inverter current	27.0 A
Maximum torque	34.0 Nm

Standards

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

Options

D11	M1-A for bevel and worm gearboxes
G24	Seal increased environmental load
K08	Polyglycol oil CLP ISO PG 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.