

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1508-5UF33-2AP1-Z
D11+K07



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	K79	Radial force maximum	13900 N
Gearbox basic type	Bevel geared	Max. permissible radial force with Mmax	13900 N
Gearbox size	79	Moment of inertia	0.92 kgcm ²
Transmission stages	3	Torsional stiffness	66 Nm/°
Transmission (ratio)	32.78	Efficiency	0.94
Gear number relation	6293/192	Mounting position	M1-A
Output moment maximum (short-time)	830 Nm	Mounting type	Foot-mounted
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft standard
Output speed short-time	137 rpm	Output shaft dimension	H40 mm
Emergency off output moment (1000 cycles)	1390 Nm	Gearbox flange diameter	-/-

Figure 2 torque support

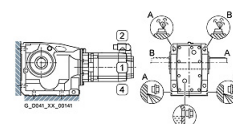
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General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	45.79 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	Polyglycol oil CLP ISO PG VG220
Output shaft sealing	Standard
Oil charge	1.00 l



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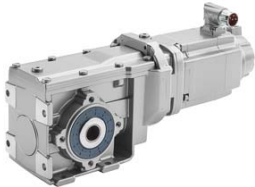


Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	6000 rpm
Motor type	Compact	Maximum torque	50.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	37.0 A
Shaft height	80 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	3000 rpm
Rated speed	3000 rpm	Optimum power	2.95 kW
Rated torque (100K)	9.40 Nm	Recommended Motor Module	
Rated power	2.95 kW	Rated inverter current	9.0 A
Rated current (100K)	6.50 A	Maximum inverter current	27.0 A
Static torque	15.50 Nm	Maximum torque	40.0 Nm
Static current	9.90 A		
Moment of inertia	26.00 kgcm ²		
Efficiency η	93 %		
Temperature monitoring	Pt1000 temperature sensor		
Connector size	1		
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)		

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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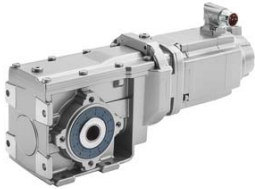


Figure similar

Options		Standards	
D11	M1-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
K07	Polyglycol oil CLP ISO PG VG220		
		CE marking	EN 60034