

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1504-5QD22-2FC2-Z
D12+K06



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

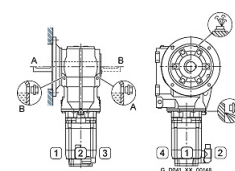
Gear box type	K39	Radial force maximum	6080 N
Gearbox basic type	Bevel geared	Max. permissible radial force with Mmax	6080 N
Gearbox size	39	Moment of inertia	0.12 kgcm ²
Transmission stages	3	Torsional stiffness	25 Nm/°
Transmission (ratio)	75.24	Efficiency	0.90
Gear number relation	1881/25	Mounting position	M2-A
Output moment maximum (short-time)	220 Nm	Mounting type	Flange version (A type)
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft standard
Output speed short-time	60 rpm	Output shaft dimension	H30 mm
Emergency off output moment (1000 cycles)	370 Nm	Gearbox flange diameter	160 mm
		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	17.35 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	65
Plug position	top (default) (2)
Connector size	1

Lubrication and sealing

Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Standard
Oil charge	0.85 l



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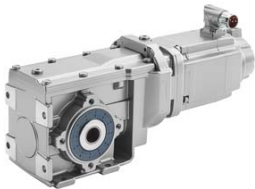


Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	9000 rpm
Motor type	Compact	Maximum torque	10.50 Nm
DC-link voltage, max.	510...720V	Motor current short term	5.6 A
		Optimum operating point	
Shaft height	48 mm	Optimum speed	2000 rpm
Cooling	Natural cooling	Optimum power	0.53 kW
Rated speed	2000 rpm	Recommended Motor Module	
Rated torque (100K)	2.50 Nm	Rated inverter current	3.0 A
Rated power	0.52 kW	Maximum inverter current	9.0 A
Rated current (100K)	1.45 A	Maximum torque	10.5 Nm
Static torque	2.85 Nm		
Static current	1.55 A		
Moment of inertia	2.90 kgcm²		
Efficiency η	89 %		
Temperature monitoring	Pt1000 temperature sensor		
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits		

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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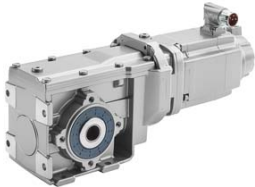


Figure similar

Options		Standards	
D12	M2-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
K06	Mineral oil CLP ISO VG220		
		CE marking	EN 60034