

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1504-5QD23-2HU1-Z
D11+G23+K07+N23+Q93+X01



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

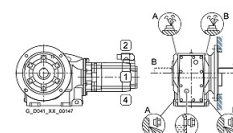
Gear box type	K39	Radial force maximum	5540 N
Gearbox basic type	Bevel geared	Max. permissible radial force with Mmax	5500 N
Gearbox size	39	Moment of inertia	0.30 kgcm ²
Transmission stages	3	Torsional stiffness	24 Nm/°
Transmission (ratio)	38.48	Efficiency	0.92
Gear number relation	1539/40	Mounting position	M1-A
Output moment maximum (short-time)	225 Nm	Mounting type	Housing flange (C type)
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft standard
Output speed short-time	117 rpm	Output shaft dimension	H30 mm
Emergency off output moment (1000 cycles)	370 Nm	Gearbox flange diameter	-/-
		Output shaft bearing	No
		Figure 2 torque support	-

General tech. specifications

Degree of protection	IP65
Color of the housing	Jet black, matt RAL 9005
Specification	CE / UL / CSA / EAC / cRUus
Net weight	16.67 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	65
Plug position	left (3)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Polyglycol oil CLP ISO PG VG220
Output shaft sealing	Seal longer service life
Oil charge	0.40 l



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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	7.6 A
Shaft height	48 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	3000 rpm
Rated speed	3000 rpm	Optimum power	0.74 kW
Rated torque (100K)	2.35 Nm	Recommended Motor Module	
Rated power	0.74 kW	Rated inverter current	3.0 A
Rated current (100K)	1.85 A	Maximum inverter current	9.0 A
Static torque	2.85 Nm	Maximum torque	10.5 Nm
Static current	2.10 A	Holding brake	
Moment of inertia	3.20000 kgcm ²	Holding brake	with holding brake
Efficiency η	89 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1	Braking torque M_{2Br}	3.00 Nm
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits	Holding torque M_{4Br}	4.00 Nm
		Opening time	70.0 ms
		Closing time	30.0 ms
		Maximum switching energy per braking action	150.0 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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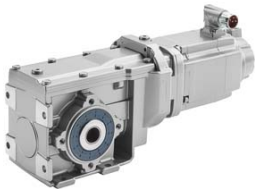


Figure similar

Options		Standards	
D11	M1-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G23	Seal longer service life		
K07	Polyglycol oil CLP ISO PG VG220		
N23	Standard holding brake (permanent magnet brake)	CE marking	EN 60034
Q93	Plug position left		
X01	Paint finish: Jet black, matt RAL 9005		