

MLFB-Ordering data 1FG1305-9RE23-2AQ1-Z  
D05+H5B+K06+N23

Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Gearbox data

Gear box type	FZ79	Radial force maximum	13600 N
Gearbox basic type	Offset-shaft	Max. permissible radial force with Mmax	13600 N
Gearbox size	79	Moment of inertia	1.90 kgcm <sup>2</sup>
Transmission stages	2	Torsional stiffness	77 Nm/°
Transmission (ratio)	26.08	Efficiency	0.95
Gear number relation	1330/51	Mounting position	M5
Output moment maximum (short-time)	645 Nm	Mounting type	Foot-mounted
max. input speed (briefly)	4500 rpm	Output shaft version	Solid shaft, both ends without feather key
Output speed short-time	173 rpm	Output shaft dimension	VDG40x80 mm
Emergency off output moment (1000 cycles)	1700 Nm	Gearbox flange diameter	-/-

Figure 2 torque support

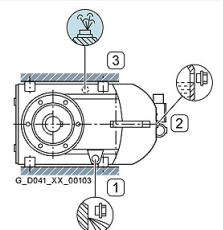
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### General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	45.31 kg
1m-sound pressure level L <sub>pA</sub> (ToI.+3dB(A))	70
Plug position	top (default) (2)
Connector size	1

### Lubrication and sealing

Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Standard
Oil charge	2.70 l



# SIEMENS

## Data sheet for SIMOTICS S-1FG1

No image available for this configuration.

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Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	5600 rpm
Motor type	Compact	Maximum torque	26.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	19.2 A
Shaft height	63 mm	<b>Optimum operating point</b>	
Cooling	Natural cooling	Optimum speed	3000 rpm
Rated speed	3000 rpm	Optimum power	1.69 kW
Rated torque (100K)	5.40 Nm	<b>Recommended Motor Module</b>	
Rated power	1.70 kW	Rated inverter current	5.0 A
Rated current (100K)	3.70 A	Maximum inverter current	15.0 A
Static torque	7.50 Nm	Maximum torque	22.1 Nm
Static current	4.85 A	<b>Holding brake</b>	
Moment of inertia	12.20 kgcm <sup>2</sup>	Holding brake	with holding brake
Efficiency $\eta$	91 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Braking torque $M_{1Br} / M_{2Br}$	8.50 Nm
		Holding torque $M_{4Br}$	13.00 Nm
		Opening time	100.0 ms
		Closing time	50.0 ms
		Maximum switching energy per braking action	380.0 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.

# SIEMENS

## Data sheet for SIMOTICS S-1FG1

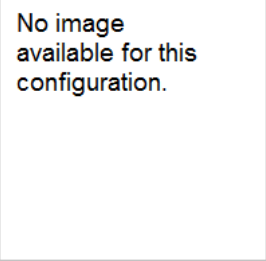


Figure similar

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### Options

D05	M5 for helical and parallel shaft gearboxes
H5B	Solid shaft, both ends without feather key
K06	Mineral oil CLP ISO VG220
N23	Standard holding brake (permanent magnet brake)

### Standards

**Compliance with standards** CE / UL / CSA / EAC / cRUus

**CE marking** EN 60034