

Figure similar

MLFB-Ordering data 1FG1305-9RF34-2AS1-Z  
D01+H7A+K06+N23

Client order no. :

Order no. :

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Project :

### Gearbox data

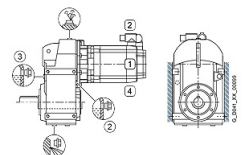
<b>Gear box type</b>	FZ79	<b>Radial force maximum</b>	13600 N
<b>Gearbox basic type</b>	Offset-shaft	<b>Max. permissible radial force with Mmax</b>	13600 N
<b>Gearbox size</b>	79	<b>Moment of inertia</b>	1.50 kgcm <sup>2</sup>
<b>Transmission stages</b>	2	<b>Torsional stiffness</b>	78 Nm/°
<b>Transmission (ratio)</b>	33.02	<b>Efficiency</b>	0.95
<b>Gear number relation</b>	1387/42	<b>Mounting position</b>	M1
<b>Output moment maximum (short-time)</b>	1010 Nm	<b>Mounting type</b>	Foot-mounted
<b>max. input speed (briefly)</b>	4500 rpm	<b>Output shaft version</b>	Hollow shaft inch standard
<b>Output speed short-time</b>	136 rpm	<b>Output shaft dimension</b>	H1.5"
<b>Emergency off output moment (1000 cycles)</b>	1700 Nm	<b>Gearbox flange diameter</b>	-/-
		<b>Figure 2 torque support</b>	-

### General tech. specifications

<b>Degree of protection</b>	IP65
<b>Color of the housing</b>	Standard painting (Anthracite RAL 7016)
<b>Specification</b>	CE / UL / CSA / EAC / cRUus
<b>Net weight</b>	51.55 kg
<b>1m-sound pressure level L<sub>pA</sub> (ToI.+3dB(A))</b>	75
<b>Plug position</b>	top (default) (2)
<b>Connector size</b>	1

### Lubrication and sealing

<b>Gear oil</b>	Mineral oil CLP ISO VG220
<b>Output shaft sealing</b>	Standard
<b>Oil charge</b>	2.60 l



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## Data sheet for SIMOTICS S-1FG1



Figure similar

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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	55.0 A
Shaft height	80 mm	<b>Optimum operating point</b>	
Cooling	Natural cooling	Optimum speed	2880 rpm
Rated speed	4500 rpm	Optimum power	2.95 kW
Rated torque (100K)	0.10 Nm	<b>Recommended Motor Module</b>	
Rated power	0.05 kW	Rated inverter current	18.0 A
Rated current (100K)	0.71 A	Maximum inverter current	54.0 A
Static torque	15.50 Nm	Maximum torque	49.3 Nm
Static current	14.80 A	<b>Holding brake</b>	
Moment of inertia	29.50 kgcm <sup>2</sup>	Holding brake	with holding brake
Efficiency $\eta$	82 %	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 $M_{1Br} / M_{2Br}$	11.00 Nm
		Holding torque $M_{4Br}$	22.00 Nm
		Opening time	200.0 ms
		Closing time	60.0 ms
		Maximum switching energy per braking action	1400.0 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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### Options

D01	M1 for helical and parallel shaft gearboxes
H7A	Hollow shaft inch standard
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