



Figure similar

MLFB-Ordering data 1FG1406-9RG53-2HB1-Z
D01+G23+G34+G99+H3A+K06+K82+N30+X53

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	FD89	Radial force maximum	17400 N
Gearbox basic type	Offset-shaft	Max. permissible radial force with Mmax	17400 N
Gearbox size	89	Moment of inertia	6.50 kgcm ²
Transmission stages	3	Torsional stiffness	163 Nm/'
Transmission (ratio)	60.09	Efficiency	0.94
Gear number relation	13280/221	Mounting position	M1
Output moment maximum (short-time)	1980 Nm	Mounting type	Housing flange (C type)
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft S disk standard I
Output speed short-time	75 rpm	Output shaft dimension	HS50 mm
Emergency off output moment (1000 cycles)	3140 Nm	Gearbox flange diameter	-/-
Torsional backlash	5.25 '	Figure 2 torque support	-

General tech. specifications

Degree of protection	IP65
Color of the housing	Light gray RAL 7035
Specification	CE / UL / CSA / EAC / cRUus
Net weight	111.73 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	75
Plug position	top (default) (2)
Connector size	1.5

Lubrication and sealing

Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Seal longer service life
Oil charge	5.66 l

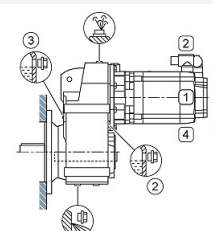




Figure similar

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Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	5000 rpm
		Maximum torque	150.00 Nm
Motor type	Compact	Motor current short term	109.0 A
DC-link voltage, max.	510...720V	Optimum operating point	
Shaft height	100 mm	Optimum speed	2640 rpm
Cooling	Natural cooling	Optimum power	7.60 kW
Rated speed	3000 rpm	Recommended Motor Module	
Rated torque (100K)	23.50 Nm	Rated inverter current	30.0 A
Rated power	7.38 kW	Maximum inverter current	56.0 A
Rated current (100K)	16.00 A	Maximum torque	87.0 Nm
Static torque	45.00 Nm	Holding brake	
Static current	29.00 A	Holding brake	spring-loaded brake (shaft height 80 - 100)
Moment of inertia	163.15530 kgcm²	Holding brake version	Spring-type brake
Efficiency η	94 %	Power supply voltage	DC 24 V ± 10 %
Temperature monitoring	Pt1000 temperature sensor	Braking torque M _{1Br} / M _{2Br}	25.00 Nm
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Holding torque M _{4Br}	19.00 Nm
		Opening time	300.0 ms
		Closing time	200.0 ms
		Maximum switching energy per braking action	6500.0 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		Standards	
D01	M1 for helical and parallel shaft gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G23	Seal longer service life		
G34	Oil inspection glass	CE marking	EN 60034
G99	Version with reduced backlash		
H3A	Hollow shaft S disk standard I		
K06	Mineral oil CLP ISO VG220		
K82	Manual brake release (only for working brakes)		
N30	Spring-loaded brake		
X53	Paint finish: Light gray RAL 7035		