

Article No. : 1FG1108-1PG32-2AJ1-Z
D01+K06+N23

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

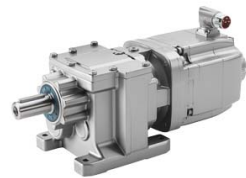
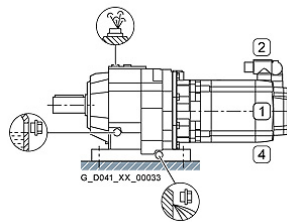


Figure similar

Gearbox data	
Gear box type	Z89
Gearbox basic type	Helical geared Z / D
Gearbox size	89
Transmission stages	2
Transmission (ratio)	12.15
Gear number relation	3827/315
Output moment maximum (short-time)	1,250 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	370 rpm
Emergency off output moment (1000 cycles)	2,770 Nm
Radial force maximum	10,800 N
Max. permissible radial force with Mmax	10,800 N
Moment of inertia	15.10 kgcm²
Torsional stiffness	89 Nm/°
Efficiency	0.96
Mounting position	M1
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard
Output shaft dimension	V50 x 100 mm
Gearbox flange diameter	-/-
Figure 2 torque support	-

General tech. specifications	
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	99.57 kg
1m-sound pressure level LpA (Tol.+3dB(A))	75
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing	
Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Standard
Oil charge	2.20 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	100 mm
Cooling	Natural cooling
Rated speed	2,000 rpm
Rated torque (100K)	22.50 Nm
Rated power	4.71 kW
Rated current (100K)	9.50 A
Static torque	31.50 Nm
Static current	12.90 A
Moment of inertia	112.00000 kgcm²
Efficiency η	93 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1.5
Degree of protection	IP65
Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)

Limiting data	
Maximum speed (short-time)	5,000 rpm
Maximum torque	108.00 Nm
Motor current short term	46.5 A

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	4.70 kW

Data sheet for SIMOTICS S-1FG1

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Recommended Motor Module	
Rated inverter current	18.0 A
Maximum inverter current	54.0 A
Maximum torque	108.0 Nm

Holding brake	
Holding brake	with holding brake
Holding brake version	Permanent-magnet brake
Power supply voltage	DC 24 V ± 10 %
Dynamic braking torque M _{1Br}	25.00 Nm
Holding torque M _{4Br}	43.00 Nm
Opening time	300.0 ms
Closing time	70.0 ms
Maximum switching energy per braking action	3,380.0 J

Standards	
Compliance with standards	CE / UL / CSA / EAC / cRUus
CE marking	EN 60034

Options	
D01	M1 for helical and parallel shaft gearboxes
K06	Mineral oil CLP ISO VG220
N23	Standard holding brake (permanent magnet brake)

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.