

Article No. : 1FG1505-6RG53-2FK1-Z
D24+G23+G53+G60+K06+Q91

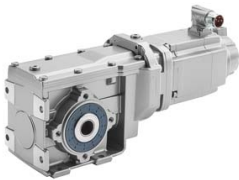


Figure similar

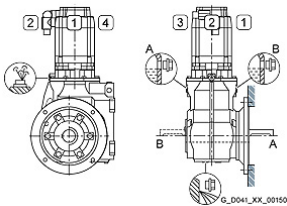
Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Gearbox data	
Gear box type	K49
Gearbox basic type	Bevel geared B / K
Gearbox size	49
Transmission stages	3
Transmission (ratio)	16.34
Gear number relation	23680/1449
Output moment maximum (short-time)	445 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	275 rpm
Emergency off output moment (1000 cycles)	710 Nm
Radial force maximum	2,780 N
Max. permissible radial force with Mmax	2,580 N
Moment of inertia	1.20 kgcm²
Torsional stiffness	37 Nm/°
Efficiency	0.95
Mounting position	M4-B
Mounting type	Flange version (A type)
Output shaft version	Hollow shaft standard II
Output shaft dimension	H30 mm
Gearbox flange diameter	200 mm
Figure 2 torque support	-

General tech. specifications	
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	61.16 kg
1m-sound pressure level LpA (Tol.+3dB(A))	75
Plug position	right (1)
Adapter flange position	top (default) (2)

Lubrication and sealing	
Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Seal longer service life
Oil charge	2.10 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	3,000 rpm
Rated torque (100K)	23.50 Nm
Rated power	7.38 kW
Rated current (100K)	16.00 A
Static torque	45.00 Nm
Static current	29.00 A
Moment of inertia	154.00 kgcm²
Efficiency η	94 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1.5
Degree of protection	IP65
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

Limiting data	
Maximum speed (short-time)	5,000 rpm
Maximum torque	150.00 Nm
Motor current short term	109.0 A

Optimum operating point	
Optimum speed	2,640 rpm
Optimum power	7.60 kW



Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1505-6RG53-2FK1-Z
D24+G23+G53+G60+K06+Q91

Recommended Motor Module	
Rated inverter current	30.0 A
Maximum inverter current	56.0 A
Maximum torque	87.0 Nm

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

Options	
D24	M4-B for bevel and worm gearboxes
G23	Seal longer service life
G53	Oil drain plug magnetic
G60	Protective cover
K06	Mineral oil CLP ISO VG220
Q91	Plug position right

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.