

## Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1504-1QD23-2AJ2-Z  
D11+K06



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Gearbox data

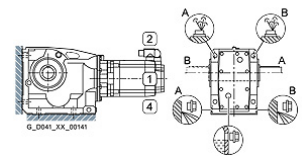
Gear box type	K39
Gearbox basic type	Bevel geared
Gearbox size	39
Transmission stages	3
Transmission (ratio)	157.32
Gear number relation	3933/25
Output moment maximum (short-time)	220 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	29 rpm
Emergency off output moment (1000 cycles)	370 Nm
Radial force maximum	6,080 N
Max. permissible radial force with Mmax	6,080 N
Moment of inertia	0.04 kgcm <sup>2</sup>
Torsional stiffness	24 Nm/°
Efficiency	0.88
Mounting position	M1-A
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard
Output shaft dimension	V25 x 50 mm
Gearbox flange diameter	-/-
Output shaft bearing	No
Figure 2 torque support	-

### General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	17.21 kg
1m-sound pressure level L <sub>pA</sub> (Tol.+3dB(A))	65
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	0.35 l



### Motor data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	48 mm
Cooling	Natural cooling
Rated speed	3,000 rpm
Rated torque (100K)	2.35 Nm
Rated power	0.74 kW
Rated current (100K)	1.85 A
Static torque	2.85 Nm
Static current	2.10 A
Moment of inertia	2.90 kgcm <sup>2</sup>
Efficiency $\eta$	89 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

### Limiting data

Maximum speed (short-time)	9,000 rpm
Maximum torque	10.50 Nm
Motor current short term	7.6 A

### Optimum operating point

Optimum speed	3,000 rpm
Optimum power	0.74 kW

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### Recommended Motor Module

Rated inverter current	3.0 A
Maximum inverter current	9.0 A
Maximum torque	10.5 Nm

### Standards

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

### Options

D11	M1-A for bevel and worm gearboxes
K06	Mineral oil CLP ISO VG220

#### 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.