

# SIEMENS

## Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1102-1UC26-2AT1-Z  
D03+G23+K11+Q91



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Gearbox data

Gear box type Z29

Gearbox basic type Helical geared

Gearbox size 29

Transmission stages 2

Transmission (ratio) 22.58

Gear number relation 1242/55

Output moment maximum (short-time) 95 Nm

max. input speed (briefly) 4500 rpm

Output speed short-time 199 rpm

Emergency off output moment (1000 cycles) 235 Nm

Radial force maximum 2580 N

Max. permissible radial force with Mmax 2420 N

Moment of inertia 0.11 kgcm<sup>2</sup>

Torsional stiffness 9 Nm/°

Efficiency 0.94

Mounting position M3

Mounting type Foot-mounted

Output shaft version Solid shaft standard

Output shaft dimension V25x50 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 6.90 kg

1m-sound pressure level L<sub>pA</sub> (Tol.+3dB(A)) 65

Plug position right (1)

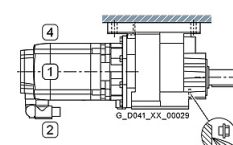
Adapter flange position top (default) (2)

### Lubrication and sealing

Gear oil Food-grade oil CLP ISO H1  
VG460

Output shaft sealing Seal longer service life

Oil charge 0.45 l



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Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	10000 rpm
Motor type	Compact	Maximum torque	4.50 Nm
DC-link voltage, max.	510...720V	Motor current short term	7.0 A
Shaft height	36 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	6000 rpm
Rated speed	6000 rpm	Optimum power	0.41 kW
Rated torque (100K)	0.65 Nm	Recommended Motor Module	
Rated power	0.41 kW	Rated inverter current	3.0 A
Rated current (100K)	1.09 A	Maximum inverter current	9.0 A
Static torque	1.01 Nm	Maximum torque	4.5 Nm
Static current	1.50 A		
Moment of inertia	0.65 kgcm²		
Efficiency $\eta$	87 %		
Temperature monitoring	Pt1000 temperature sensor		
Connector size	1		
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)		

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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Figure similar

Options		Standards	
D03	M3 for helical and parallel shaft gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G23	Seal longer service life		
K11	Food-grade oil CLP ISO H1 VG460		
Q91	Plug position right	CE marking	EN 60034