

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6061-1AC61-2AB1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed	2000 rpm	Motor type	High Inertia		
Rated torque (100 K)	3.58 Nm	Motor type	Permanent-magnet synchronous motor		
Rated current	2.5 A	Shaft height	65		
Rated power	0.75 kW / 1.02 hp	Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)		
Max. speed	3000 rpm	Cooling	Natural cooling		
Maximum torque	10.70 Nm	Shaft end	Feather key		
Max. current	7.5 A	Radial runout tolerance	Class N		
Static torque	4.00 Nm	Vibration severity grade	Grade A		
Moment of inertia	9.100 kgcm <sup>2</sup>	Degree of protection	IP65		
<b>Physical constants</b>		Design acc. to Code I	IM B5 (IM V1, IM V3)		
		Torque constant	1.50 Nm/A	Connection type	Angular connector (rotatable)
		Thermal class	B (130 °C)	<b>Holding brake</b>	
Net weight	8.80 kg	Holding torque $M_{4Br}$	12.00 Nm		
<b>Ambient conditions</b>		Rated voltage	24 V DC 10 %		
		Ambient temperature	0 ... 40 °C	Opening time	180 ms
<b>Relative humidity</b>		Closing time	60 ms		
		Max. operation	90 % RH maximum (no condensation at 30 °C)	Rated current	1.50 A
<b>Standards</b>		<b>Standards</b>			
				Compliance with standards	CE, EAC



Figure similar

Article No. : 1FL6061-1AC61-2AB1

Client order no. :  
Order no. :  
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Item no. :  
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Project :

### Engineering data

Rated speed	2,000 rpm
Rated torque (100 K)	3.58 Nm
Rated current	2.5 A
Rated power	0.75 kW / 1.02 hp
Max. speed	3,000 rpm
Maximum torque	10.70 Nm
Max. current	7.5 A
Static torque	4.00 Nm
Moment of inertia	9.100 kgcm <sup>2</sup>

### Physical constants

Torque constant	1.50 Nm/A
Thermal class	B (130 °C)
Net weight	8.80 kg

### Ambient conditions

Ambient temperature

Operation	0 ... 40 °C
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Relative humidity

Max. operation	90 % RH maximum (no condensation at 30 °C)
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### Standards

Compliance with standards	CE, EAC
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### Mechanical data

Motor type	High Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	65
Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)
Cooling	Natural cooling
Shaft end	Feather key
Radial runout tolerance	Class N
Vibration severity grade	Grade A
Degree of protection	IP65
Design acc. to Code I	IM B5 (IM V1, IM V3)
Connection type	Angular connector (rotatable)

### Holding brake

Holding torque $M_{4Br}$	12.00 Nm
Rated voltage	24 V DC 10 %
Opening time	180 ms
Closing time	60 ms
Rated current	1.50 A