

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6092-1AC61-2LB1

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)	16.70 Nm	Motor type	Permanent-magnet synchronous motor	
Rated current	11.0 A	Shaft height	90	
Rated power	3.50 kW / 4.76 hp	Encoder system	Absolute encoder 20 bit + 12 bit multi-turn	
Max. speed	3000 rpm	Cooling	Natural cooling	
Maximum torque	50.00 Nm	Shaft end	Feather key	
Max. current	32.9 A	Radial runout tolerance	Class N	
Static torque	22.00 Nm	Vibration severity grade	Grade A	
Moment of inertia	77.900 kgcm <sup>2</sup>	Degree of protection	IP65	
<th>Physical constants</th> <td>Design acc. to Code I</td> <td>IM B5 (IM V1, IM V3)</td>		Physical constants	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Connection type	Angular connector (rotatable)	
		<th>Holding brake</th>		Holding brake
Holding torque $M_{4Br}$	30.00 Nm			
Torque constant	1.60 Nm/A	Rated voltage	24 V DC 10 %	
Thermal class	B (130 °C)	Opening time	220 ms	
Net weight	25.40 kg	Closing time	115 ms	
<th>Ambient conditions</th> <td>Rated current</td> <td>1.90 A</td>		Ambient conditions	Rated current	1.90 A
		<th>Standards</th>		Standards
Ambient temperature		Compliance with standards	CE, EAC	
Operation	0 ... 40 °C			
Relative humidity				
Max. operation	90 % RH maximum (no condensation at 30 °C)			



Figure similar

**Article No. :** 1FL6092-1AC61-2LB1

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

Item no. :  
Consignment no. :  
Project :

### Engineering data

Rated speed	2,000 rpm
Rated torque (100 K)	16.70 Nm
Rated current	11.0 A
Rated power	3.50 kW / 4.76 hp
Max. speed	3,000 rpm
Maximum torque	50.00 Nm
Max. current	32.9 A
Static torque	22.00 Nm
Moment of inertia	77.900 kgcm <sup>2</sup>

### Physical constants

Torque constant	1.60 Nm/A
Thermal class	B (130 °C)
Net weight	25.40 kg

### Ambient conditions

Ambient temperature	
Operation	0 ... 40 °C
Relative humidity	
Max. operation	90 % RH maximum (no condensation at 30 °C)

### Standards

Compliance with standards	CE, EAC
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### Mechanical data

Motor type	High Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	90
Encoder system	Absolute encoder 20 bit + 12 bit multi-turn
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 $M_{4Br}$	30.00 Nm
Rated voltage	24 V DC 10 %
Opening time	220 ms
Closing time	115 ms
Rated current	1.90 A