

Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6090-1AC61-2LH1

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)	11.90 Nm	Motor type	Permanent-magnet synchronous motor	
Rated current	7.8 A	Shaft height	90	
Rated power	2.50 kW / 3.40 hp	Encoder system	Absolute encoder 20 bit + 12 bit multi-turn	
Max. speed	3000 rpm	Cooling	Natural cooling	
Maximum torque	35.70 Nm	Shaft end	Plain shaft	
Max. current	23.4 A	Radial runout tolerance	Class N	
Static torque	15.00 Nm	Vibration severity grade	Grade A	
Moment of inertia	56.300 kgcm ²	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
Torque constant	1.60 Nm/A	Holding torque M_{4Br}	30.00 Nm	
Thermal class	B (130 °C)	Rated voltage	24 V DC 10 %	
Net weight	21.00 kg	Opening time	220 ms	
<th>Ambient conditions</th> <td>Closing time</td> <td>115 ms</td>		Ambient conditions	Closing time	115 ms
		Rated current	1.90 A	
Ambient temperature	0 ... 40 °C			
Operation				
<th>Standards</th> <td colspan="2"></td>		Standards		
		Compliance with standards	CE, EAC	
Relative humidity	90 % RH maximum (no condensation at 30 °C)			
Max. operation				



Figure similar

Article No. : 1FL6090-1AC61-2LH1

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed	2,000 rpm
Rated torque (100 K)	11.90 Nm
Rated current	7.8 A
Rated power	2.50 kW / 3.40 hp
Max. speed	3,000 rpm
Maximum torque	35.70 Nm
Max. current	23.4 A
Static torque	15.00 Nm
Moment of inertia	56.300 kgcm ²

Physical constants

Torque constant	1.60 Nm/A
Thermal class	B (130 °C)
Net weight	21.00 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	Plain shaft
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