

Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6044-1AF61-2AB1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Engineering data		Mechanical data		
Rated speed	3000 rpm	Motor type	High Inertia	
Rated torque (100 K)	2.39 Nm	Motor type	Permanent-magnet synchronous motor	
Rated current	2.1 A	Shaft height	45	
Rated power	0.75 kW / 1.02 hp	Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)	
Max. speed	4000 rpm	Cooling	Natural cooling	
Maximum torque	7.20 Nm	Shaft end	Feather key	
Max. current	6.3 A	Radial runout tolerance	Class N	
Static torque	3.50 Nm	Vibration severity grade	Grade A	
Moment of inertia	5.700 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
Holding torque M_{4Br}	3.50 Nm			
Torque constant	1.20 Nm/A	Rated voltage	24 V DC 10 %	
Thermal class	B (130 °C)	Opening time	60 ms	
Net weight	6.60 kg	Closing time	45 ms	
<th>Ambient conditions</th> <td>Rated current</td> <td>0.90 A</td>		Ambient conditions	Rated current	0.90 A
		<th>Standards</th>		Standards
Ambient temperature	0 ... 40 °C	Compliance with standards		
Operation		CE, EAC		
Relative humidity	90 % RH maximum (no condensation at 30 °C)			
Max. operation				



Figure similar

Article No. : 1FL6044-1AF61-2AB1

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed	3,000 rpm
Rated torque (100 K)	2.39 Nm
Rated current	2.1 A
Rated power	0.75 kW / 1.02 hp
Max. speed	4,000 rpm
Maximum torque	7.20 Nm
Max. current	6.3 A
Static torque	3.50 Nm
Moment of inertia	5.700 kgcm ²

Physical constants

Torque constant	1.20 Nm/A
Thermal class	B (130 °C)
Net weight	6.60 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	45
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}	3.50 Nm
Rated voltage	24 V DC 10 %
Opening time	60 ms
Closing time	45 ms
Rated current	0.90 A