

Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6092-1AC61-2LG1

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	Plain shaft			
Max. current	32.9 A	Radial runout tolerance	Class N			
Static torque	22.00 Nm	Vibration severity grade	Grade A			
Moment of inertia	69.100 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)		
		Torque constant	1.60 Nm/A	<th>Connection type</th> <td>Angular connector (rotatable)</td>	Connection type	Angular connector (rotatable)
		Thermal class	B (130 °C)			
Net weight	19.40 kg	<th>Ambient conditions</th>		Ambient conditions		
<th>Ambient temperature</th> <td colspan="2">Operation</td>		Ambient temperature	Operation			
<th>Relative humidity</th> <td colspan="2">0 ... 40 °C</td>		Relative humidity	0 ... 40 °C			
<th>Max. operation</th> <td colspan="2">90 % RH maximum (no condensation at 30 °C)</td>		Max. operation	90 % RH maximum (no condensation at 30 °C)			
<th>Standards</th>				Standards		
				Compliance with standards		CE, EAC



Figure similar

Article No. : 1FL6092-1AC61-2LG1

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	69.100 kgcm ²

Physical constants

Torque constant	1.60 Nm/A
Thermal class	B (130 °C)
Net weight	19.40 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	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)