

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6044-1AF61-2LG1

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	Absolute encoder 20 bit + 12 bit multi-turn			
Max. speed	4000 rpm	Cooling	Natural cooling			
Maximum torque	7.20 Nm	Shaft extension	Plain shaft			
Max. current	6.3 A	Radial runout tolerance	Class N			
Static torque	3.50 Nm	Vibration severity grade	Grade A			
Moment of inertia	5.200 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)		
		Torque constant	1.20 Nm/A	<th>Connection type</th> <td>Angular connector (rotatable)</td>	Connection type	Angular connector (rotatable)
		Thermal class	B (130 °C)			
Net weight	5.10 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> <td colspan="2">Compliance with standards</td>		Standards	Compliance with standards			
		CE, EAC				