

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6061-1AC61-0LH1



Figure similar

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)	3.58 Nm	Motor type	Permanent-magnet synchronous motor			
Rated current	2.5 A	Shaft height	65			
Rated power	0.75 kW / 1.02 hp	Encoder system	Absolute encoder 20 bit + 12 bit multi-turn			
Max. speed	3000 rpm	Cooling	Natural cooling			
Maximum torque	10.70 Nm	Shaft extension	Plain shaft			
Max. current	7.5 A	Radial runout tolerance	Class N			
Static torque	4.00 Nm	Vibration severity grade	Grade A			
Moment of inertia	9.100 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	1.50 Nm/A	<th>Connection type</th> <td>Straight connector (fixed cable outlet direction)</td>	Connection type	Straight connector (fixed cable outlet direction)
		Thermal class	B (130 °C)			
Net weight	8.60 kg	<th>Holding brake</th>		Holding brake		
<th>Ambient conditions</th> <td>Holding torque <math>M_{4Br}</math></td> <td>12.00 Nm</td>				Ambient conditions	Holding torque $M_{4Br}$	12.00 Nm
				Ambient temperature	0 ... 40 °C	Rated voltage
<th>Relative humidity</th> <td>Opening time</td> <td>180 ms</td>		Relative humidity	Opening time	180 ms		
		Max. operation	90 % RH maximum (no condensation at 30 °C)	Closing time	60 ms	
<th>Standards</th> <td>Rated current</td> <td>1.50 A</td>		Standards	Rated current	1.50 A		
		Compliance with standards	CE, EAC			