

Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6054-2AF21-0AB1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Engineering data		Mechanical data				
Rated speed	3000 rpm	Motor type	Low Inertia			
Rated torque (100 K)	6.37 Nm	Motor type	Permanent-magnet synchronous motor			
Rated current	11.6 A	Shaft height	50			
Rated power	2.00 kW / 2.72 hp	Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)			
Max. speed	5000 rpm	Cooling	Natural cooling			
Maximum torque	19.10 Nm	Shaft extension	Feather key			
Max. current	34.8 A	Radial runout tolerance	Class N			
Static torque	6.37 Nm	Vibration severity grade	Grade A			
Moment of inertia	2.820 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	0.55 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	8.00 kg	<th>Holding brake</th>		Holding brake		
<th>Ambient conditions</th> <td>Holding torque M_{4Br}</td> <td>6.37 Nm</td>		Ambient conditions	Holding torque M_{4Br}	6.37 Nm		
<th>Ambient temperature</th> <td>Rated voltage</td> <td>24 V DC $\pm 10\%$</td>		Ambient temperature	Rated voltage	24 V DC $\pm 10\%$		
<th>Operation</th> <td>Opening time</td> <td>90 ms</td>		Operation	Opening time	90 ms		
<th>Relative humidity</th> <td>Closing time</td> <td>35 ms</td>		Relative humidity	Closing time	35 ms		
<th>Max. operation</th> <td>Rated current</td> <td>0.57 A</td>		Max. operation	Rated current	0.57 A		
<th>90 % RH maximum (no condensation at 30 °C)</th> <td colspan="2"></td>		90 % RH maximum (no condensation at 30 °C)				
<th>Standards</th> <td colspan="2"></td>		Standards				
<th>Compliance with standards</th> <td colspan="2">CE, EAC</td>		Compliance with standards	CE, EAC			