

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6042-1AF61-0AB1

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)	1.27 Nm	Motor type	Permanent-magnet synchronous motor		
Rated current	1.2 A	Shaft height	45		
Rated power	0.40 kW / 0.54 hp	Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)		
Max. speed	4000 rpm	Cooling	Natural cooling		
Maximum torque	3.80 Nm	Shaft end	Feather key		
Max. current	3.6 A	Radial runout tolerance	Class N		
Static torque	1.90 Nm	Vibration severity grade	Grade A		
Moment of inertia	3.200 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)	
		Connection type	Straight connector (fixed cable outlet direction)		
		<th>Ambient conditions</th>		Ambient conditions	
<th>Ambient temperature</th> <td colspan="2"> <th>Holding brake</th> </td>		Ambient temperature	<th>Holding brake</th>		Holding brake
Operation	0 ... 40 °C	Holding torque $M_{4Br}$	3.50 Nm		
<th>Relative humidity</th> <td>Rated voltage</td> <td>24 V DC 10 %</td>		Relative humidity	Rated voltage	24 V DC 10 %	
Max. operation	90 % RH maximum (no condensation at 30 °C)	Opening time	60 ms		
<th>Standards</th> <td>Closing time</td> <td>45 ms</td>		Standards	Closing time	45 ms	
		Rated current	0.90 A		
Compliance with standards	CE, EAC				