

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6044-1AF61-2LH1

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	5.700 kgcm <sup>2</sup>	Degree of protection	IP65
<b>Physical constants</b>		Design acc. to Code I	IM B5 (IM V1, IM V3)
		<b>Ambient conditions</b>	
		Connection type	Angular connector (rotatable)
Torque constant	1.20 Nm/A	<b>Holding brake</b>	
Thermal class	B (130 °C)		
Net weight	6.30 kg	Holding torque $M_{4Br}$	3.50 Nm
<b>Ambient conditions</b>		Rated voltage	24 V DC $\pm$ 10 %
		Operation	0 ... 40 °C
<b>Relative humidity</b>		Opening time	60 ms
		Max. operation	90 % RH maximum (no condensation at 30 °C)
<b>Standards</b>		Closing time	45 ms
		Rated current	0.90 A
Compliance with standards	CE, EAC		