

Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6042-2AF21-1MH1



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated speed	3000 rpm	Motor type	Low Inertia
Rated torque (100 K)	2.39 Nm	Motor type	Permanent-magnet synchronous motor
Rated current	4.7 A	Shaft height	40
Rated power	0.75 kW / 1.02 hp	Encoder system	Absolute encoder single-turn 21 bit
Max. speed	5000 rpm	Cooling	Natural cooling
Maximum torque	7.20 Nm	Shaft extension	Plain shaft
Max. current	14.2 A	Radial runout tolerance	Class N
Static torque	2.39 Nm	Vibration severity grade	Grade A
Moment of inertia	1.060 kgcm ²	Degree of protection	IP65
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.51 Nm/A	Connection type	Cable outlet
Thermal class	B (130 °C)	Holding brake	
Net weight	3.68 kg	Holding torque M_{4Br}	3.18 Nm
Ambient conditions		Rated voltage	24 V DC $\pm 10\%$
Ambient temperature		Opening time	105 ms
Operation	0 ... 40 °C	Closing time	15 ms
Relative humidity		Rated current	0.35 A
Max. operation	90 % RH maximum (no condensation at 30 °C)		
Standards			
Compliance with standards	CE, EAC		