

Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6042-2AF21-1MB1



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	Feather key		
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				
Ambient conditions		Holding torque M_{4Br}	3.18 Nm		
Ambient temperature		Rated voltage	24 V DC ±10 %		
Operation		Opening time	105 ms		
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				