

Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6044-1AF61-2AB1



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	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	Incremental encoder TTL, 2500 S/R (13 bit)
Max. speed	4000 rpm	Cooling	Natural cooling
Maximum torque	7.20 Nm	Shaft extension	Feather key
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 ²	Degree of protection	IP65
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.20 Nm/A	Connection type	Angular connector (rotatable)
Thermal class	B (130 °C)		
Net weight	6.60 kg		
Ambient conditions		Holding brake	
Ambient temperature		Holding torque M_{4Br}	3.50 Nm
Operation	0 ... 40 °C	Rated voltage	24 V DC ±10 %
Relative humidity		Opening time	60 ms
Max. operation	90 % RH maximum (no condensation at 30 °C)	Closing time	45 ms
Standards		Rated current	0.90 A
Compliance with standards	CE, EAC		