

Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data 1FL6090-1AC61-0LB1



Figure similar

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed	2000 rpm	Motor type	High Inertia
Rated torque (100 K)	11.90 Nm	Motor type	Permanent-magnet synchronous motor
Rated current	7.8 A	Shaft height	90
Rated power	2.50 kW / 3.40 hp	Encoder system	Absolute encoder 20 bit + 12 bit multi-turn
Max. speed	3000 rpm	Cooling	Natural cooling
Maximum torque	35.70 Nm	Shaft end	Feather key
Max. current	23.4 A	Radial runout tolerance	Class N
Static torque	15.00 Nm	Vibration severity grade	Grade A
Moment of inertia	56.300 kgcm ²	Degree of protection	IP65
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.60 Nm/A	Connection type	Straight connector (fixed cable outlet direction)
Thermal class	B (130 °C)	Holding brake	
Net weight	20.90 kg	Holding torque M _{4Br}	30.00 Nm
Ambient conditions		Rated voltage	24 V DC ±10 %
Ambient temperature		Opening time	220 ms
Operation	0 ... 40 °C	Closing time	115 ms
Relative humidity		Rated current	1.90 A
Max. operation	90 % RH maximum (no condensation at 30 °C)		
Standards			
Compliance with standards	CE, EAC		