

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

Rated speed	3000 rpm
Rated torque (100 K)	2.39 Nm
Rated current	4.7 A
Rated power	0.75 kW / 1.02 hp
Max. speed	5000 rpm
Maximum torque	7.20 Nm
Max. current	14.2 A
Static torque	2.39 Nm
Moment of inertia	1.060 kgcm ²

Physical constants

Torque constant	0.51 Nm/A
Thermal class	B (130 °C)
Net weight	3.70 kg

Ambient conditions

Ambient temperature

Operation	0 ... 40 °C
-----------	-------------

Relative humidity

Max. operation	90 % RH maximum (no condensation at 30 °C)
----------------	--

Standards

Compliance with standards	CE, EAC
---------------------------	---------

Mechanical data

Motor type	Low Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	40
Encoder system	Absolute encoder single-turn 21 bit
Cooling	Natural cooling
Shaft end	Plain shaft
Radial runout tolerance	Class N
Vibration severity grade	Grade A
Degree of protection	IP65
Design acc. to Code I	IM B5 (IM V1, IM V3)
Connection type	Cable outlet

Holding brake

Holding torque M_{4Br}	3.18 Nm
Rated voltage	24 V DC \pm 10 %
Opening time	105 ms
Closing time	15 ms
Rated current	0.35 A