

Data sheet for SIMOTICS S-1FL6

Article No. : 1FL6044-1AF61-2AB1

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

Item no. :
Consignment no. :
Project :



Figure similar

Engineering data

Rated speed	3,000 rpm
Rated torque (100 K)	2.39 Nm
Rated current	2.1 A
Rated power	0.75 kW / 1.02 hp
Max. speed	4,000 rpm
Maximum torque	7.20 Nm
Max. current	6.3 A
Static torque	3.50 Nm
Moment of inertia	5.700 kgcm ²

Physical constants

Torque constant	1.20 Nm/A
Thermal class	B (130 °C)
Net weight	6.60 kg

Ambient conditions

Ambient temperature

Operation	0 ... 40 °C
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Relative humidity

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

Compliance with standards	CE, EAC
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Mechanical data

Motor type	High Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	45
Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)
Cooling	Natural cooling
Shaft end	Feather key
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	Angular connector (rotatable)

Holding brake

Holding torque M_{4Br}	3.50 Nm
Rated voltage	24 V DC 10 %
Opening time	60 ms
Closing time	45 ms
Rated current	0.90 A

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1FL6044-1AF61-2AB1

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