

Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6054-2AF21-0AH1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Engineering data

Rated speed	3000 rpm
Rated torque (100 K)	6.37 Nm
Rated current	11.6 A
Rated power	2.00 kW / 2.72 hp
Max. speed	5000 rpm
Maximum torque	19.10 Nm
Max. current	34.8 A
Static torque	6.37 Nm
Moment of inertia	2.820 kgcm ²

Physical constants

Torque constant	0.55 Nm/A
Thermal class	B (130 °C)
Net weight	8.00 kg

Ambient conditions

Ambient temperature

Operation	0 ... 30 °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	Low Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	50
Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)
Cooling	Natural cooling
Shaft extension	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	Straight connector (fixed cable outlet direction)

Holding brake

Holding torque M_{4Br}	6.37 Nm
Rated voltage	24 V DC \pm 10 %
Opening time	90 ms
Closing time	35 ms
Rated current	0.57 A