

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6044-1AF61-2AH1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Engineering data

Rated speed	3000 rpm
Rated torque (100 K)	2.39 Nm
Rated current	2.1 A
Rated power	0.75 kW / 1.02 hp
Max. speed	4000 rpm
Maximum torque	7.20 Nm
Max. current	6.3 A
Static torque	3.50 Nm
Moment of inertia	5.700 kgcm <sup>2</sup>

### Physical constants

Torque constant	1.20 Nm/A
Thermal class	B (130 °C)
Net weight	6.40 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 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	Angular connector (rotatable)

### Holding brake

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