

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6042-1AF61-0LH1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Engineering data

Rated speed	3000 rpm
Rated torque (100 K)	1.27 Nm
Rated current	1.2 A
Rated power	0.40 kW / 0.54 hp
Max. speed	4000 rpm
Maximum torque	3.80 Nm
Max. current	3.6 A
Static torque	1.90 Nm
Moment of inertia	3.200 kgcm <sup>2</sup>

### Physical constants

Torque constant	1.10 Nm/A
Thermal class	B (130 °C)
Net weight	4.60 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	Absolute encoder 20 bit + 12 bit multi-turn
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 $M_{4Br}$	3.50 Nm
Rated voltage	24 V DC $\pm$ 10 %
Opening time	60 ms
Closing time	45 ms
Rated current	0.90 A