

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6044-2AF21-1AB1



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)	3.18 Nm
Rated current	6.3 A
Rated power	1.00 kW / 1.36 hp
Max. speed	5000 rpm
Maximum torque	9.54 Nm
Max. current	18.9 A
Static torque	3.18 Nm
Moment of inertia	1.310 kgcm <sup>2</sup>

### Physical constants

Torque constant	0.51 Nm/A
Thermal class	B (130 °C)
Net weight	4.20 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	Low Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	40
Encoder system	Incremental encoder TTL, 2500 S/R (13 bit)
Cooling	Natural cooling
Shaft extension	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	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