

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6024-2AF21-1MB1



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)	0.32 Nm
Rated current	1.2 A
Rated power	0.10 kW / 0.14 hp
Max. speed	5000 rpm
Maximum torque	0.96 Nm
Max. current	3.6 A
Static torque	0.32 Nm
Moment of inertia	0.059 kgcm <sup>2</sup>

### Physical constants

Torque constant	0.29 Nm/A
Thermal class	B (130 °C)
Net weight	0.86 kg

### Ambient conditions

#### Ambient temperature

Operation	0 ... 40 °C
-----------	-------------

#### Relative humidity

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

### Standards

Compliance with standards	CE, EAC
---------------------------	---------

### Mechanical data

Motor type	Low Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	20
Encoder system	Absolute encoder single-turn 21 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 $M_{4Br}$	0.32 Nm
Rated voltage	24 V DC $\pm$ 10 %
Opening time	35 ms
Closing time	10 ms
Rated current	0.25 A