

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6094-1AC61-2AB1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Engineering data

Rated speed	2000 rpm
Rated torque (100 K)	23.90 Nm
Rated current	12.6 A
Rated power	5.00 kW / 6.80 hp
Max. speed	2500 rpm
Maximum torque	70.00 Nm
Max. current	36.9 A
Static torque	30.00 Nm
Moment of inertia	99.700 kgcm <sup>2</sup>

### Physical constants

Torque constant	2.00 Nm/A
Thermal class	B (130 °C)
Net weight	30.30 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	High Inertia
Motor type	Permanent-magnet synchronous motor
Shaft height	90
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	Angular connector (rotatable)

### Holding brake

Holding torque $M_{4Br}$	30.00 Nm
Rated voltage	24 V DC $\pm$ 10 %
Opening time	220 ms
Closing time	115 ms
Rated current	1.90 A