

## Data sheet for SIMOTICS S-1FL6



Figure similar

Article No. : 1FL6090-1AC61-2LG1

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Engineering data

Rated speed	2,000 rpm
Rated torque (100 K)	11.90 Nm
Rated current	7.8 A
Rated power	2.50 kW / 3.40 hp
Max. speed	3,000 rpm
Maximum torque	35.70 Nm
Max. current	23.4 A
Static torque	15.00 Nm
Moment of inertia	47.400 kgcm <sup>2</sup>

### Physical constants

Torque constant	1.60 Nm/A
Thermal class	B (130 °C)
Net weight	14.90 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	90
Encoder system	Absolute encoder 20 bit + 12 bit multi-turn
Cooling	Natural cooling
Shaft end	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)

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## 1FL6090-1AC61-2LG1

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