

## Data sheet for SIMOTICS S-1FK7



Figure similar

Article No. : 1FK7043-4CH71-1BH0

Client order no. :  
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### Engineering data

Rated speed (100 K)	4,500 rpm
Number of poles	6
Rated torque (100 K)	2.6 Nm
Rated current	3.3 A
Static torque (60 K)	2.90 Nm
Static torque (100 K)	3.50 Nm
Stall current (60 K)	3.30 A
Stall current (100 K)	4.10 A
Moment of inertia	1.360 kgcm <sup>2</sup>
Efficiency	90.0 %

### Physical constants

Torque constant	0.85 Nm/A
Voltage constant at 20° C	54.0 V/1000*min <sup>-1</sup>
Winding resistance at 20° C	1.20 Ω
Rotating field inductance	13.6 mH
Electrical time constant	11.30 ms
Mechanical time constant	0.49 ms
Thermal time constant	40 min
Shaft torsional stiffness	9,000 Nm/rad
Net weight of the motor	6.6 kg

### Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	48
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP64
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	with holding brake
Shaft end	Plain shaft
Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits

### Optimum operating point

Optimum speed	4,500 rpm
Optimum power	1.2 kW

### Limiting data

Max. permissible speed (mech.)	9,000 rpm
Max. permissible speed (inverter)	9,000 rpm
Maximum torque	10.0 Nm
Maximum current	12.5 A

### Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	4.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.5 A
Opening time	70 ms
Closing time	30 ms
Highest braking work	150 J

### Recommended Motor Module

Rated inverter current	5 A
Maximum inverter current	15 A
Maximum torque	10.00 Nm

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