

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data

1FK7063-2AF71-1BA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K) 3000 rpm

Number of poles 8

Rated torque (100 K) 7.3 Nm

Rated current 5.6 A

Static torque (60 K) 9.10 Nm

Static torque (100 K) 11.0 Nm

Stall current (60 K) 6.50 A

Stall current (100 K) 8.00 A

Moment of inertia 14.700 kgcm²

Efficiency 91.0 %

Physical constants

Torque constant 1.37 Nm/A

Voltage constant at 20° C 90.5 V/1000*min⁻¹

Winding resistance at 20° C 0.64 Ω

Rotating field inductance 8.5 mH

Electrical time constant 13.40 ms

Mechanical time constant 1.48 ms

Thermal time constant 40 min

Shaft torsional stiffness 34000 Nm/rad

Net weight of the motor 11.1 kg

Mechanical data

Motor type Permanent-magnet synchronous motor

Motor type Compact

Shaft height 63

Cooling Natural cooling

Radial runout tolerance 0.040 mm

Concentricity tolerance 0.10 mm

Axial runout tolerance 0.10 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 without holding brake

Shaft extension Feather key

Encoder system Encoder AS24DQI: absolute encoder single-turn 24 bits



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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	9 A
Optimum power	2.3 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	34.00 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	6400 rpm		
Maximum torque	35.0 Nm		
Maximum current	28.0 A		