

Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data

1FK7062-2AF71-1QA0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated speed	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	5.1 Nm	Shaft height	63
Rated current	4.0 A	Cooling	Natural cooling
Static torque (60 K)	7.10 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	8.5 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	4.3 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	5.3 A	Vibration severity grade	Grade A
Rotor moment of inertia	11.200 kgcm ²	Connector size	1
Efficiency	91.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.60 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	102.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	1.15 Ω	Color of the housing	Standard painting (Anthracite RAL 7016)
Rotating field inductance	14.6 mH	Holding brake	without holding brake
Electrical time constant	12.80 ms	Shaft extension	Feather key
Mechanical time constant	1.49 ms	Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits
Thermal time constant	35 min		
Shaft torsional stiffness	37000 Nm/rad		
Net weight of the motor	9.1 kg		



Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	5 A
Optimum power	1.6 kW	Maximum inverter current	10 A
Limiting data		Maximum torque	16.00 Nm
Max. permissible speed (mech.)	5600 rpm		