

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data

1FK7062-2AH71-1TG0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K)	4500 rpm
Number of poles	8
Rated torque (100 K)	3.0 Nm
Rated current	3.3 A
Static torque (60 K)	7.10 Nm
Static torque (100 K)	8.5 Nm
Stall current (60 K)	6.50 A
Stall current (100 K)	8.00 A
Moment of inertia	11.200 kgcm ²
Efficiency	91.0 %

Physical constants

Torque constant	1.06 Nm/A
Voltage constant at 20° C	67.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.48 Ω
Rotating field inductance	6.4 mH
Electrical time constant	13.20 ms
Mechanical time constant	1.44 ms
Thermal time constant	35 min
Shaft torsional stiffness	37000 Nm/rad
Net weight of the motor	9.1 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	KTY84 temperature sensor in the stator winding
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	without holding brake
Shaft extension	Plain shaft
Encoder system	Resolver 2-pole



Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	3500 rpm	Rated inverter current	9 A
Optimum power	1.9 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	24.80 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	7200 rpm		
Maximum torque	26.0 Nm		
Maximum current	29.0 A		