

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data

1FK7062-2AC71-1BG1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K)	2000 rpm
Number of poles	8
Rated torque (100 K)	7.0 Nm
Rated current	2.6 A
Static torque (60 K)	7.10 Nm
Static torque (100 K)	8.5 Nm
Stall current (60 K)	2.45 A
Stall current (100 K)	3.00 A
Moment of inertia	11.200 kgcm ²
Efficiency	90.0 %

Physical constants

Torque constant	2.83 Nm/A
Voltage constant at 20° C	180.5 V/1000*min ⁻¹
Winding resistance at 20° C	3.59 Ω
Rotating field inductance	45.5 mH
Electrical time constant	12.70 ms
Mechanical time constant	1.51 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	IP65
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	Plain shaft
Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits



Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	3 A
Optimum power	1.3 kW	Maximum inverter current	9 A
Limiting data		Maximum torque	22.90 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	3200 rpm		
Maximum torque	26.0 Nm		
Maximum current	10.9 A		