

Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data

1FK7063-2AC71-1TA2



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	2000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	8.9 Nm	Shaft height	63		
Rated current	4.4 A	Cooling	Natural cooling		
Static torque (60 K)	9.10 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	11.0 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	4.30 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	5.30 A	Vibration severity grade	Grade A		
Moment of inertia	14.700 kgcm ²	Connector size	1		
Efficiency	91.0 %	Degree of protection	IP65 and DE flange IP67		
<th colspan="2">Physical constants</th> <td>Design acc. to Code I</td> <td>IM B5 (IM V1, IM V3)</td>		Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Torque constant	2.08 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
		Voltage constant at 20° C	136.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	1.45 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	19.4 mH	Holding brake	without holding brake
		Electrical time constant	13.40 ms	Shaft extension	Feather key
		Mechanical time constant	1.47 ms	Encoder system	Resolver 2-pole
		Thermal time constant	40 min		
		Shaft torsional stiffness	34000 Nm/rad		
		Net weight of the motor	11.1 kg		



Figure similar

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1FK7063-2AC71-1TA2

Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	5 A
Optimum power	1.9 kW	Maximum inverter current	15 A
Limiting data		Maximum torque	29.50 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	4200 rpm		
Maximum torque	35.0 Nm		
Maximum current	18.5 A		