

Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data

1FK7063-2AF74-1EG0-Z
N16

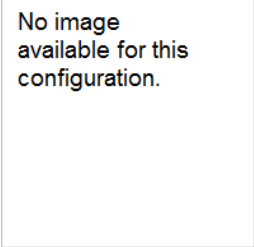


Figure similar

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data			
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	7.3 Nm	Shaft height	63		
Rated current	5.6 A	Cooling	Natural cooling		
Static torque (60 K)	9.10 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	11.00 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	6.50 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	8.00 A	Vibration severity grade	Grade A		
Moment of inertia	14.700 kgcm ²	Connector size	1		
Efficiency	91.0 %	Degree of protection	IP64		
<th colspan="2">Physical constants</th>		Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Torque constant	1.37 Nm/A	Temperature monitoring	Pt1000 temperature sensor
		Voltage constant at 20° C	90.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	0.64 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	8.5 mH	Holding brake	without holding brake
		Electrical time constant	13.40 ms	Shaft end	Plain shaft
		Mechanical time constant	1.48 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
		Thermal time constant	40 min		
		Shaft torsional stiffness	34000 Nm/rad		
		Net weight of the motor	11.1 kg		

No image available for this configuration.

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Optimum operating point

Optimum speed	3000 rpm
Optimum power	2.3 kW

Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	6400 rpm
Maximum torque	35.0 Nm
Maximum current	28.0 A

Recommended Motor Module

Rated inverter current 9 A

Maximum inverter current 27 A

Maximum torque 34.00 Nm

Special design

N16 Nickel plated connectors and paint varnish for increased chemical resistance