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SIEMENS

Data sheet for SIMOTICS S-1FK7

Article No. : 1FK7062-2AC71-1QG0

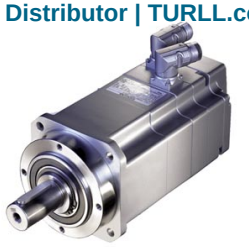

Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed (100 K)	2,000 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)	8.50 Nm
Stall current (60 K)	2.45 A
Stall current (100 K)	3.00 A
Moment of inertia	11.200 kgcm²
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	37,000 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	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 end	Plain shaft
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	1.5 kW

Limiting data	
Max. permissible speed (mech.)	7,200 rpm
Max. permissible speed (inverter)	3,200 rpm
Maximum torque	26.0 Nm
Maximum current	10.9 A

Recommended Motor Module	
Rated inverter current	3 A
Maximum inverter current	9 A
Maximum torque	22.90 Nm

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Technical data are subject to change! There may be discrepancies ... Generated: Wed, Mar 29 02:58:10 CET 2023

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