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SIEMENS

Data sheet for SIMOTICS S-1FK7

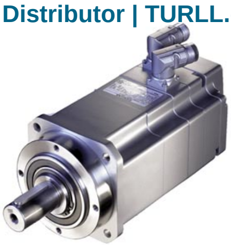

Figure similar

Article No. : 1FK7034-2AK71-1FH0

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed (100 K)	6,000 rpm
Number of poles	6
Rated torque (100 K)	1.0 Nm
Rated current	1.3 A
Static torque (60 K)	1.35 Nm
Static torque (100 K)	1.60 Nm
Stall current (60 K)	1.55 A
Stall current (100 K)	1.90 A
Moment of inertia	1.000 kgcm²
Efficiency	88.0 %

Physical constants

Torque constant	0.84 Nm/A
Voltage constant at 20° C	55.0 V/1000*min^{-1}
Winding resistance at 20° C	4.46 Ω
Rotating field inductance	17.2 mH
Electrical time constant	3.85 ms
Mechanical time constant	1.71 ms
Thermal time constant	30 min
Shaft torsional stiffness	3,750 Nm/rad
Net weight of the motor	3.9 kg

Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	36
Cooling	Natural cooling
Radial runout tolerance	0.035 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 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	with holding brake
Shaft end	Plain shaft
Encoder system	Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

Optimum operating point

Optimum speed	6,000 rpm
Optimum power	0.6 kW

Limiting data

Max. permissible speed (mech.)	10,000 rpm
Max. permissible speed (inverter)	10,000 rpm
Maximum torque	6.5 Nm
Maximum current	8.0 A

Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	1.9 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.3 A
Opening time	50 ms
Closing time	30 ms
Highest braking work	40 J

Recommended Motor Module

Rated inverter current	3 A
Maximum inverter current	9 A
Maximum torque	6.50 Nm

Technical data are subject to change! There may be discrepancie

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