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Data sheet for SIMOTICS S-1FK7

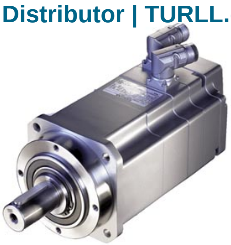

Figure similar

Article No. : **1FK7044-4CH71-1UH1**

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed (100 K)	4,500 rpm
Number of poles	6
Rated torque (100 K)	3.0 Nm
Rated current	3.9 A
Static torque (60 K)	3.75 Nm
Static torque (100 K)	4.50 Nm
Stall current (60 K)	4.35 A
Stall current (100 K)	5.40 A
Moment of inertia	1.620 kgcm²
Efficiency	91.0 %

Physical constants	
Torque constant	0.83 Nm/A
Voltage constant at 20° C	53.0 V/1000*min^{-1}
Winding resistance at 20° C	0.81 Ω
Rotating field inductance	10.2 mH
Electrical time constant	12.50 ms
Mechanical time constant	0.44 ms
Thermal time constant	45 min
Shaft torsional stiffness	7,900 Nm/rad
Net weight of the motor	8.0 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	48
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 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	with holding brake
Shaft end	Plain shaft
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)

Optimum operating point	
Optimum speed	4,500 rpm
Optimum power	1.4 kW

Limiting data	
Max. permissible speed (mech.)	9,000 rpm
Max. permissible speed (inverter)	9,000 rpm
Maximum torque	13.0 Nm
Maximum current	16.4 A

Holding brake	
Holding brake version	Permanent-magnet brake
Holding torque	4.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.5 A
Opening time	70 ms
Closing time	30 ms
Highest braking work	150 J

Recommended Motor Module	
Rated inverter current	9 A
Maximum inverter current	27 A
Maximum torque	13.00 Nm

Technical data are subject to change! There may be discrepancie

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