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Data sheet for SIMOTICS S-1FK7

Figure similar

MLFB-Ordering data **1FK7063-5AF71-1SA3-Z**
X01

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed (100 K)	3000 rpm
Number of poles	8
Rated torque (100 K)	7.3 Nm
Rated current	5.6 A
Static torque (60 K)	9.10 Nm
Static torque (100 K)	11.0 Nm
Stall current (60 K)	6.60 A
Stall current (100 K)	8.00 A
Moment of inertia	15.100 kgcm²
Efficiency	91.0 %

Physical constants

Torque constant	1.37 Nm/A
Voltage constant at 20° C	87.5 V/1000*min⁻¹
Winding resistance at 20° C	0.65 Ω
Rotating field inductance	7.7 mH
Electrical time constant	11.80 ms
Mechanical time constant	1.56 ms
Thermal time constant	40 min
Shaft torsional stiffness	35000 Nm/rad
Net weight of the motor	11.5 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	KTY84 temperature sensor in the stator winding
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Jet black, matt RAL 9005
Holding brake	without holding brake
Shaft extension	Feather key
Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)

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X01

Optimum operating point

Optimum speed	3000 rpm
Optimum power	2.3 kW

Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	6600 rpm
Maximum torque	35.0 Nm
Maximum current	28.0 A

Recommended Motor Module

Rated inverter current	9 A
Maximum inverter current	18 A
Maximum torque	24.50 Nm

Special design

X01	Paint finish: Jet black, matt RAL 9005