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Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data **1FK7103-2AC74-1SA0**



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed (100 K)	2000 rpm
Number of poles	8
Rated torque (100 K)	25.0 Nm
Rated current	11.0 A
Static torque (60 K)	30.00 Nm
Static torque (100 K)	36.00 Nm
Stall current (60 K)	11.60 A
Stall current (100 K)	14.40 A
Moment of inertia	104.000 kgcm²
Efficiency	93.0 %

Physical constants

Torque constant	2.45 Nm/A
Voltage constant at 20° C	162.0 V/1000*min⁻¹
Winding resistance at 20° C	0.29 Ω
Rotating field inductance	7.9 mH
Electrical time constant	27.50 ms
Mechanical time constant	1.43 ms
Thermal time constant	65 min
Shaft torsional stiffness	148000 Nm/rad
Net weight of the motor	28.5 kg

Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	100
Cooling	Natural cooling
Radial runout tolerance	0.050 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
Vibration severity grade	Grade A
Connector size	1.5
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	Feather key
Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)

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Figure similar

Optimum operating point

Optimum speed	2000 rpm
Optimum power	5.2 kW

Limiting data

Max. permissible speed (mech.)	5000 rpm
Max. permissible speed (inverter)	3550 rpm
Maximum torque	108.0 Nm
Maximum current	46.5 A

Recommended Motor Module

Rated inverter current	18 A
Maximum inverter current	54 A
Maximum torque	108.00 Nm