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Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data **1FK7063-2AH71-1CA1**



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed (100 K)	4500 rpm
Number of poles	8
Rated torque (100 K)	3.0 Nm
Rated current	3.8 A
Static torque (60 K)	9.10 Nm
Static torque (100 K)	11.00 Nm
Stall current (60 K)	9.70 A
Stall current (100 K)	12.00 A
Moment of inertia	14.700 kgcm²
Efficiency	90.0 %

Physical constants

Torque constant	0.92 Nm/A
Voltage constant at 20° C	60.0 V/1000*min⁻¹
Winding resistance at 20° C	0.29 Ω
Rotating field inductance	3.8 mH
Electrical time constant	13.20 ms
Mechanical time constant	1.51 ms
Thermal time constant	40 min
Shaft torsional stiffness	34000 Nm/rad
Net weight of the motor	11.1 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	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	without holding brake
Shaft end	Feather key
Encoder system	Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

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Figure similar

Optimum operating point

Optimum speed	3300 rpm
Optimum power	2.3 kW

Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	7200 rpm
Maximum torque	35.0 Nm
Maximum current	42.0 A

Recommended Motor Module

Rated inverter current	18 A
Maximum inverter current	54 A
Maximum torque	35.00 Nm