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Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data **1FK7064-7AF71-1UA0**

Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed (100 K)	3000 rpm
Number of poles	6
Rated torque (100 K)	8.0 Nm
Rated current	7.5 A
Static torque (60 K)	9.00 Nm
Static torque (100 K)	12.00 Nm
Stall current (60 K)	8.50 A
Stall current (100 K)	11.00 A
Moment of inertia	6.500 kgcm²
Efficiency	93.0 %

Physical constants

Torque constant	1.03 Nm/A
Voltage constant at 20° C	68.0 V/1000*min⁻¹
Winding resistance at 20° C	0.35 Ω
Rotating field inductance	10.7 mH
Electrical time constant	30.50 ms
Mechanical time constant	0.64 ms
Thermal time constant	55 min
Shaft torsional stiffness	30000 Nm/rad
Net weight of the motor	15.5 kg

Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
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	without
Holding brake	without holding brake
Shaft end	Feather key
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)

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Figure similar

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Optimum operating point

Optimum speed	3000 rpm
Optimum power	2.5 kW

Limiting data

Max. permissible speed (mech.)	6000 rpm
Max. permissible speed (inverter)	8500 rpm
Maximum torque	32.0 Nm
Maximum current	31.0 A

Recommended Motor Module

Rated inverter current	18 A
Maximum inverter current	36 A
Maximum torque	32.00 Nm