

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data

1FK7064-4CH71-1UA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data	
Rated speed (100 K)	4500 rpm
Number of poles	6
Rated torque (100 K)	5.0 Nm
Rated current	7.0 A
Static torque (60 K)	10.00 Nm
Static torque (100 K)	12.0 Nm
Stall current (60 K)	12.20 A
Stall current (100 K)	15.00 A
Moment of inertia	7.500 kgcm²
Efficiency	93.0 %
Physical constants	
Torque constant	0.80 Nm/A
Voltage constant at 20° C	50.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.17 Ω
Rotating field inductance	6.2 mH
Electrical time constant	36.50 ms
Mechanical time constant	0.60 ms
Thermal time constant	55 min
Shaft torsional stiffness	29500 Nm/rad
Net weight of the motor	15.4 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	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	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)



Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	3500 rpm	Rated inverter current	18 A
Optimum power	2.8 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	32.00 Nm
Max. permissible speed (mech.)	7500 rpm		
Max. permissible speed (inverter)	7500 rpm		
Maximum torque	32.0 Nm		
Maximum current	46.0 A		