

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data 1FK7103-2AC71-1QA0

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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	2000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	25.0 Nm	Shaft height	100
Rated current	11.0 A	Cooling	Natural cooling
Static torque (60 K)	30.00 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	36.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	11.60 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	14.40 A	Vibration severity grade	Grade A
Moment of inertia	104.000 kgcm²	Connector size	1.5
Efficiency	93.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	2.45 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	162.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.29 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	7.9 mH	Holding brake	without holding brake
Electrical time constant	27.50 ms	Shaft end	Feather key
Mechanical time constant	1.43 ms	Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits
Thermal time constant	65 min		
Shaft torsional stiffness	148000 Nm/rad		
Net weight of the motor	28.5 kg		



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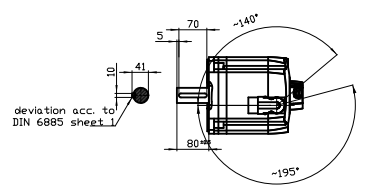
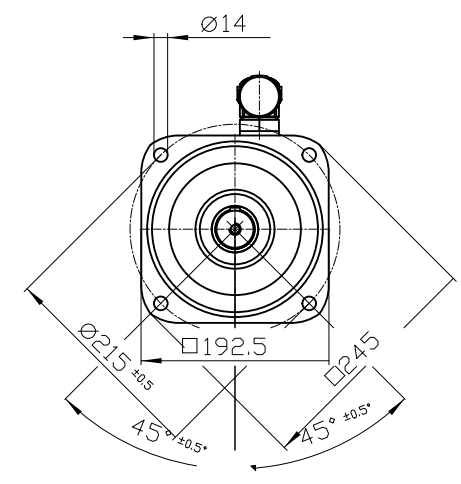
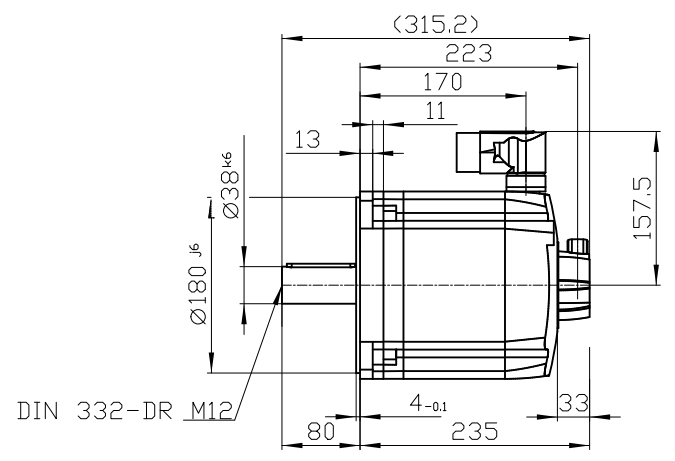
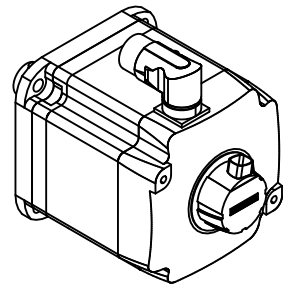
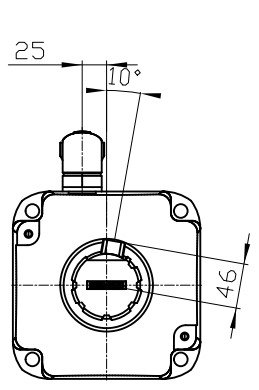
Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	18 A
Optimum power	5.2 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	108.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	3550 rpm		
Maximum torque	108.0 Nm		
Maximum current	46.5 A		

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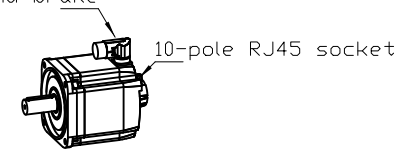
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Connector size 1.5 = M40;
6-pole for power and brake



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Unit	mm [in]	1FK7103-2AC71-1QA0
Date	7/27/23	
SIEMENS AG		—
—		DT