

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data 1FK7043-4CH71-1QG0

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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	6	Motor type	High Dynamic
Rated torque (100 K)	2.6 Nm	Shaft height	48
Rated current	3.3 A	Cooling	Natural cooling
Static torque (60 K)	2.90 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.50 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	3.30 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	4.10 A	Vibration severity grade	Grade A
Moment of inertia	1.000 kgcm²	Connector size	1
Efficiency	90.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.85 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	54.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	1.20 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	13.6 mH	Holding brake	without holding brake
Electrical time constant	11.30 ms	Shaft end	Plain shaft
Mechanical time constant	0.49 ms	Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits
Thermal time constant	40 min		
Shaft torsional stiffness	11400 Nm/rad		
Net weight of the motor	6.0 kg		



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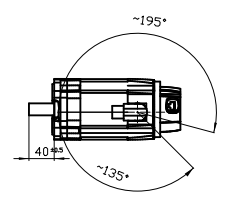
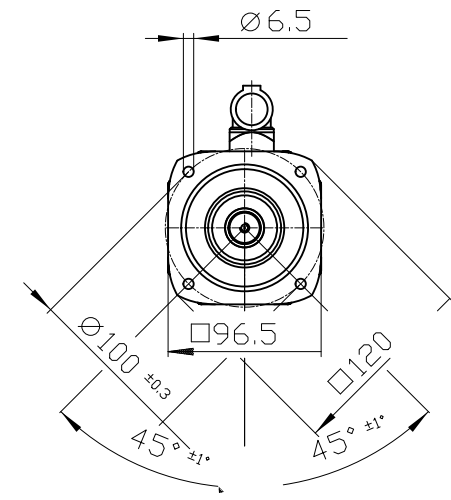
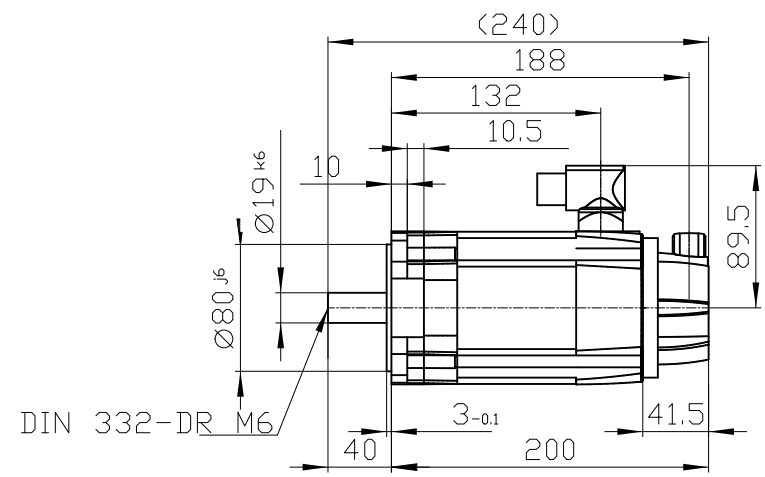
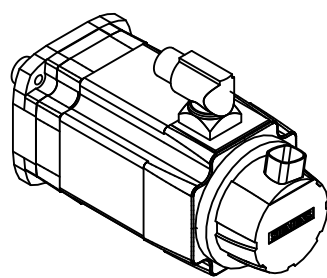
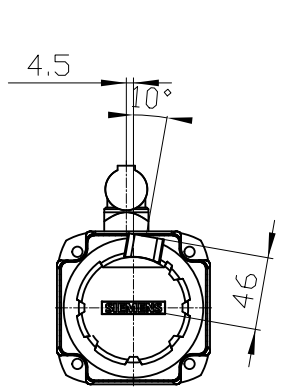
Optimum operating point		Recommended Motor Module	
Optimum speed	4500 rpm	Rated inverter current	5 A
Optimum power	1.2 kW	Maximum inverter current	15 A
Limiting data		Maximum torque	10.00 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	9000 rpm		
Maximum torque	10.0 Nm		
Maximum current	12.5 A		

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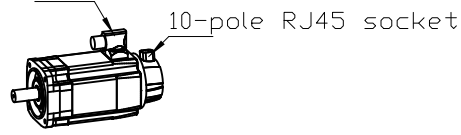
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Connector size 1 = M23;
6-pole for power and brake



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Unit	mm [in]	1FK7043-4CH71-1QG0
Date	7/31/23	
SIEMENS AG		-
-		DT