

Data sheet for SIMOTICS S-1FK7



MLFB-Ordering data 1FK7063-2AH71-1CG2

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	8	Motor type	Compact
Rated torque (100 K)	3.0 Nm	Shaft height	63
Rated current	3.8 A	Cooling	Natural cooling
Static torque (60 K)	9.10 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	11.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	9.70 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	12.00 A	Vibration severity grade	Grade A
Moment of inertia	14.700 kgcm ²	Connector size	1
Efficiency	90.0 %	Degree of protection	IP65 and DE flange IP67
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.92 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	60.0 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	3.8 mH	Holding brake	without holding brake
Electrical time constant	13.20 ms	Shaft end	Plain shaft
Mechanical time constant	1.51 ms	Encoder system	Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Thermal time constant	40 min		
Shaft torsional stiffness	34000 Nm/rad		
Net weight of the motor	11.1 kg		



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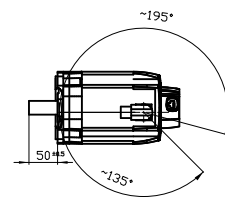
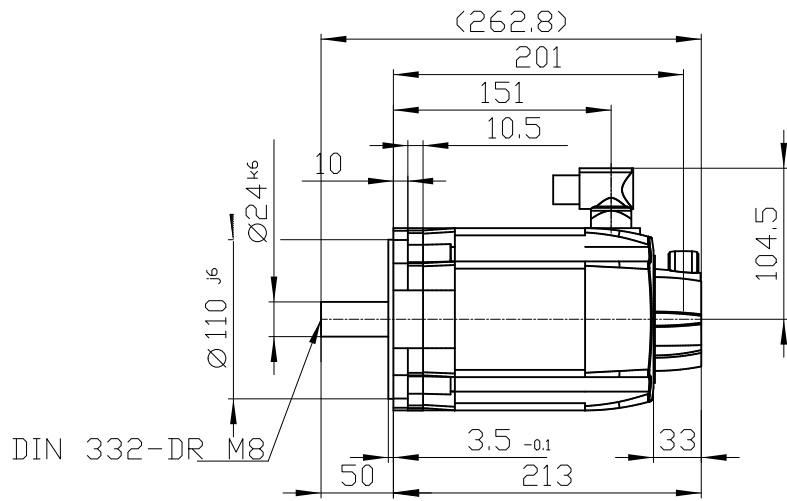
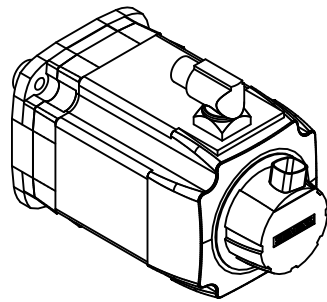
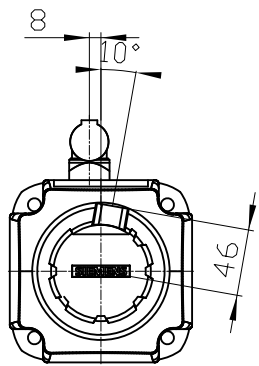
Optimum operating point		Recommended Motor Module	
Optimum speed	3300 rpm	Rated inverter current	18 A
Optimum power	2.3 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	35.00 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	7200 rpm		
Maximum torque	35.0 Nm		
Maximum current	42.0 A		

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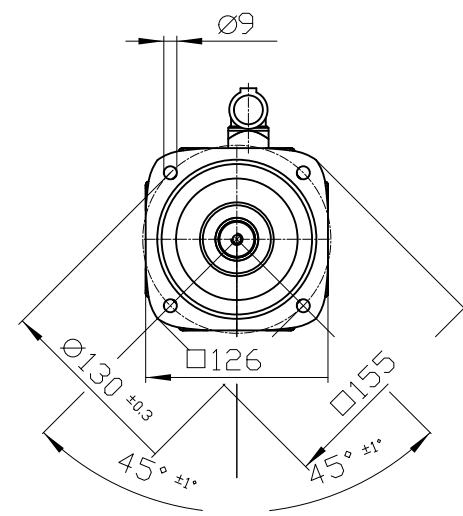
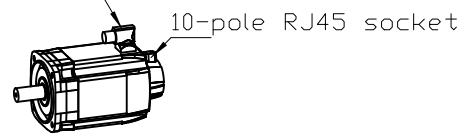
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Connector size 1 = M23;
6-pole for power and brake



Unit	mm [in]	1FK7063-2AH71-1CG2	
Date	4/28/23		
SIEMENS AG			
		DT	