

Data sheet for SIMOTICS S-1FK7



MLFB-Ordering data 1FK7060-2AH71-1PB1

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)	3.7 Nm	Shaft height	63
Rated current	4.3 A	Cooling	Natural cooling
Static torque (60 K)	5.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	6.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	5.10 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	6.30 A	Vibration severity grade	Grade A
Moment of inertia	8.700 kgcm²	Connector size	1
Efficiency	90.0 %	Degree of protection	IP65
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.95 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	60.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.69 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	7.6 mH	Holding brake	with holding brake
Electrical time constant	10.90 ms	Shaft end	Feather key
Mechanical time constant	1.78 ms	Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)
Thermal time constant	30 min		
Shaft torsional stiffness	28500 Nm/rad		
Net weight of the motor	8.5 kg		



Figure similar

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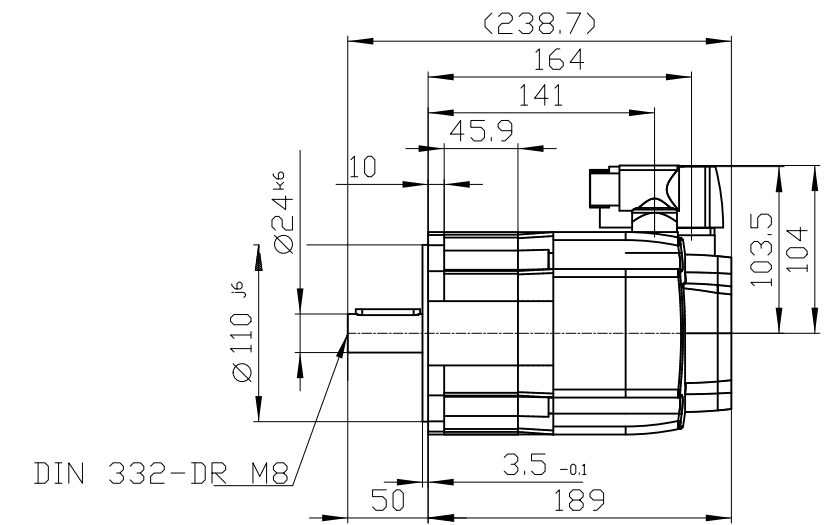
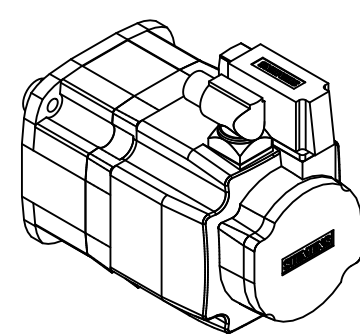
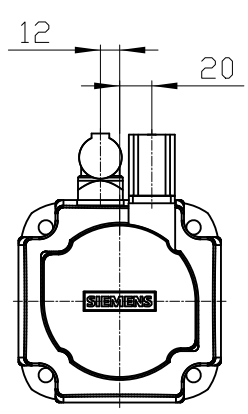
Optimum operating point		Recommended Motor Module	
Optimum speed	4500 rpm	Rated inverter current	9 A
Optimum power	1.7 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	18.00 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	7200 rpm		
Maximum torque	18.0 Nm		
Maximum current	21.5 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	13.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.8 A		
Opening time	100 ms		
Closing time	50 ms		
Highest braking work	380 J		

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Cod-drawing do not make any manual changes

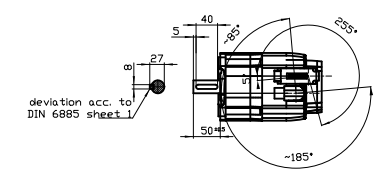
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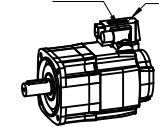


DIN 332-DR M8



deviation acc. to DIN 6885 sheet 1

Connector size 1 = M23;
6-pole for power and brake
10-pole RJ45 socket



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Unit	mm [in]	1FK7060-2AH71-1PB1
Date	3/16/23	
SIEMENS AG		-
-		DT