

Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data1FK7034-5AK71-1HH3



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

Item no. :
Consignment no. :
Project :

Engineering data	Mechanical data
Rated speed (100 K) 6000 rpm	Motor type Permanent-magnet synchronous motor
Number of poles 6	Motor type Compact
Rated torque (100 K) 1.0 Nm	Shaft height 36
Rated current 1.3 A	Cooling Natural cooling
Static torque (60 K) 1.35 Nm	Radial runout tolerance 0.035 mm
Static torque (100 K) 1.60 Nm	Concentricity tolerance 0.08 mm
Stall current (60 K) 1.60 A	Axial runout tolerance 0.08 mm
Stall current (100 K) 1.90 A	Vibration severity grade Grade A
Moment of inertia 0.980 kgcm²	Connector size 1
Efficiency 88.0 %	Degree of protection IP64
	Design acc. to Code I IM B5 (IM V1, IM V3)
	Temperature monitoring KTY84 temperature sensor in the stator winding
	Electrical connectors Connectors for signals and power rotatable
	Color of the housing Standard (Anthracite RAL 7016)
	Holding brake with holding brake
	Shaft end Plain shaft
	Encoder system Encoder AM512S/R: absolute encoder 512 S/R, 4096 revolutions multi-turn, with EnDat interface

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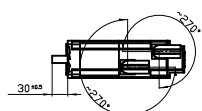
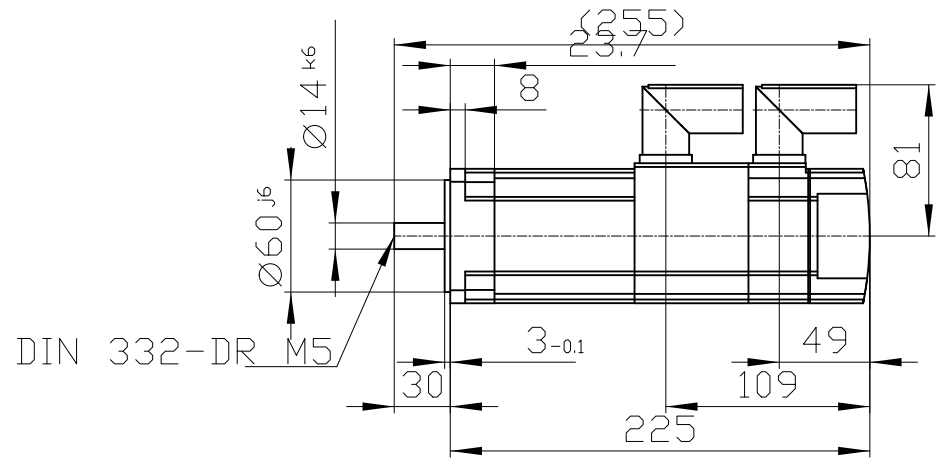
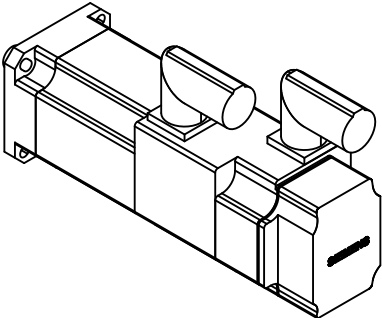
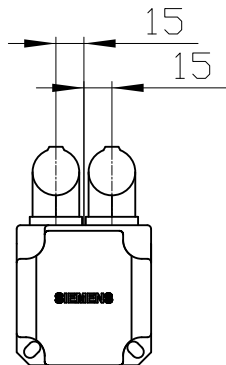
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.6 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	4.90 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	10500 rpm		
Maximum torque	6.5 Nm		
Maximum current	8.0 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	1.9 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.3 A		
Opening time	50 ms		
Closing time	30 ms		
Highest braking work	40 J		

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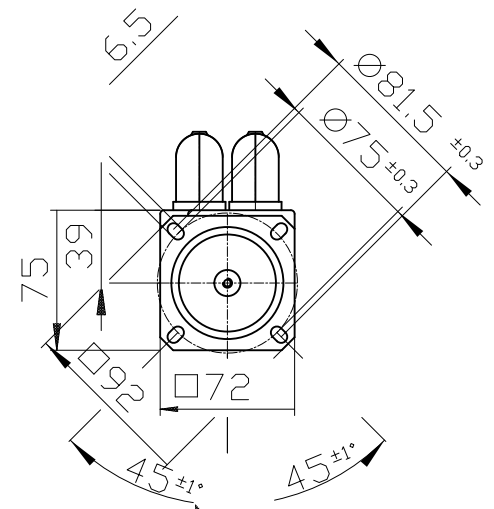
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Connector size 1 = M23;
6-pole for power and brake



Connector size M23, 17-pole



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Unit	mm [in]	1FK7034-5AK71-1HH3
Date	2/23/23	
SIEMENS AG		-
-		DT