

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data

1FK7034-2AK71-1RH2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data	
Rated speed (100 K)	6000 rpm
Number of poles	6
Rated torque (100 K)	1.0 Nm
Rated current	1.3 A
Static torque (60 K)	1.35 Nm
Static torque (100 K)	1.60 Nm
Stall current (60 K)	1.55 A
Stall current (100 K)	1.90 A
Moment of inertia	1.000 kgcm ²
Efficiency	88.0 %
Physical constants	
Torque constant	0.84 Nm/A
Voltage constant at 20° C	55.0 V/1000*min ⁻¹
Winding resistance at 20° C	4.46 Ω
Rotating field inductance	17.2 mH
Electrical time constant	3.85 ms
Mechanical time constant	1.71 ms
Thermal time constant	30 min
Shaft torsional stiffness	3750 Nm/rad
Net weight of the motor	3.9 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	36
Cooling	Natural cooling
Radial runout tolerance	0.035 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP65 and DE flange IP67
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
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 AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)



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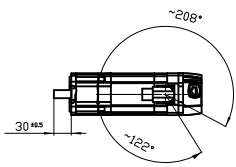
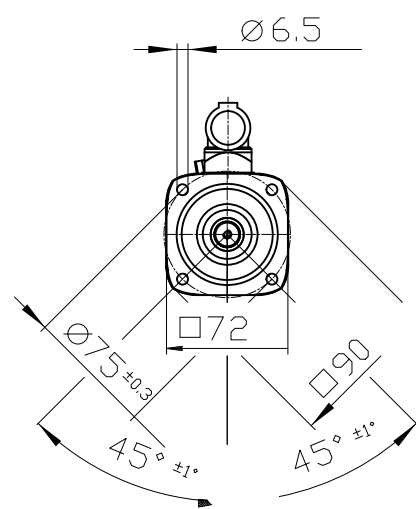
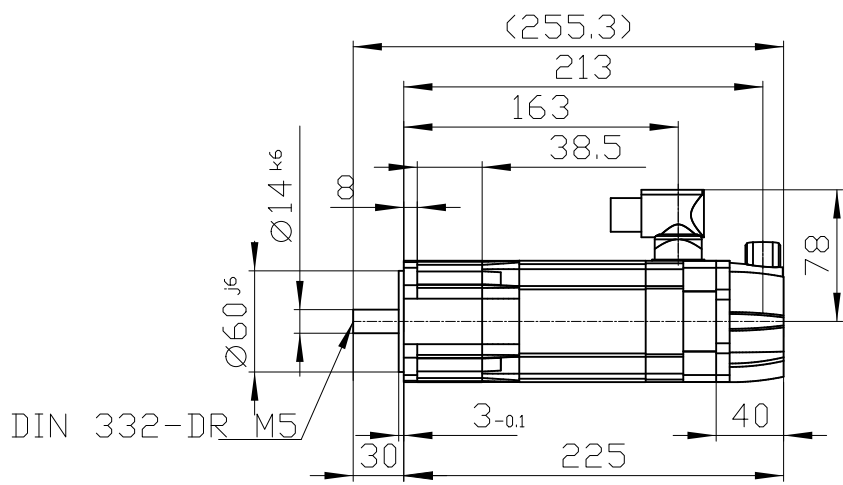
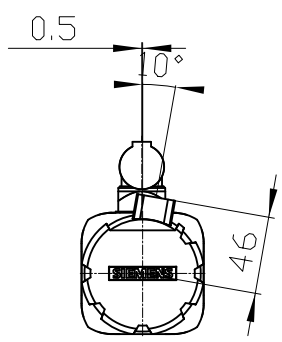
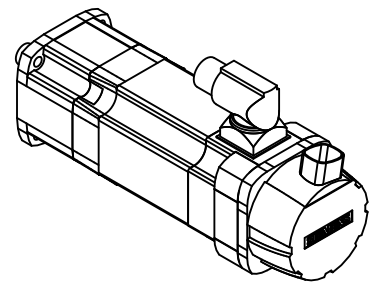
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.6 kW	Maximum inverter current	9 A
Limiting data		Maximum torque	6.50 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	10000 rpm		
Maximum torque	6.5 Nm		
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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Cod-drawing do not make any manual changes

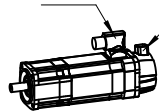
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Connector size 1 = M23;
6-pole for power and brake



10-pole RJ45 socket

Unit	mm [in]	1FK7034-2AK71-1RH2	
Date	2/23/23		
SIEMENS AG			
		DT	