

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data 1FK7105-2AF71-1BG1

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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	26.0 Nm	Shaft height	100
Rated current	18.0 A	Cooling	Natural cooling
Static torque (60 K)	40.00 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	48.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	25.00 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	31.00 A	Vibration severity grade	Grade A
Moment of inertia	154.000 kgcm ²	Connector size	1.5
Efficiency	94.0 %	Degree of protection	IP65
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.55 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	102.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.07 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	1.9 mH	Holding brake	without holding brake
Electrical time constant	26.00 ms	Shaft end	Plain shaft
Mechanical time constant	1.40 ms	Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits
Thermal time constant	70 min		
Shaft torsional stiffness	125000 Nm/rad		
Net weight of the motor	39.0 kg		



Figure similar

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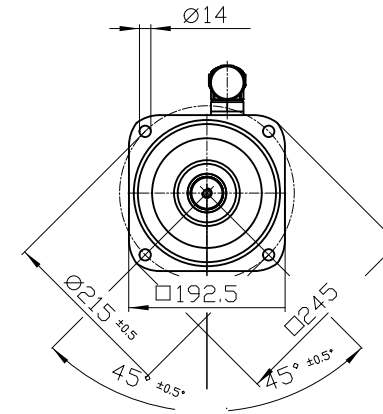
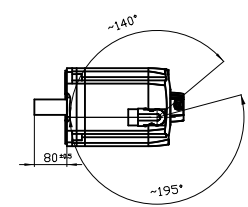
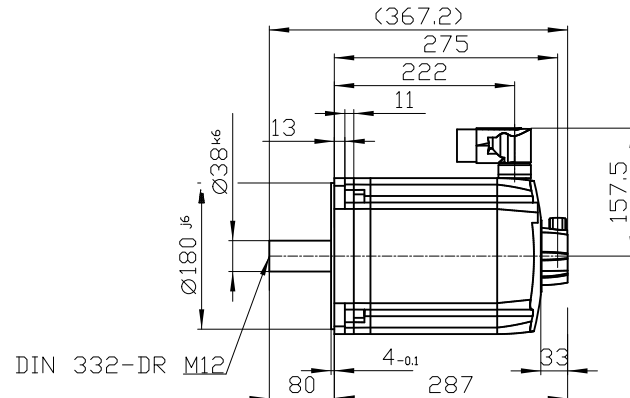
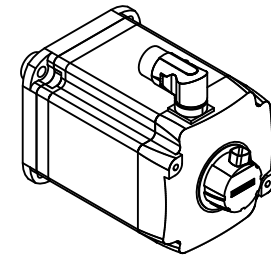
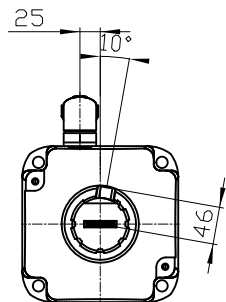
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	30 A
Optimum power	8.2 kW	Maximum inverter current	90 A
Limiting data		Maximum torque	129.70 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	5000 rpm		
Maximum torque	150.0 Nm		
Maximum current	109.0 A		

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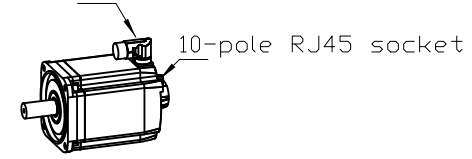
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Connector size 1.5 = M40;
6-pole for power and brake



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Unit		mm [in]	1FK7105-2AF 71-1BG1
Date		7/31/23	
SIEMENS AG		-	
-		DT	