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MLFB-Ordering data1FK7105-5AF71-1FA3

Client order no. :
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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	156.000 kgcm²	Connector size	1.5
Efficiency	94.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.57 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	100.0 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	Feather key
Mechanical time constant	1.40 ms	Encoder system	Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Thermal time constant	70 min		
Shaft torsional stiffness	125000 Nm/rad		
Net weight of the motor	39.1 kg		

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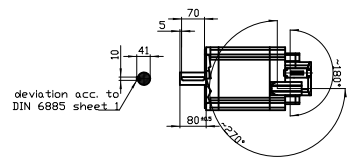
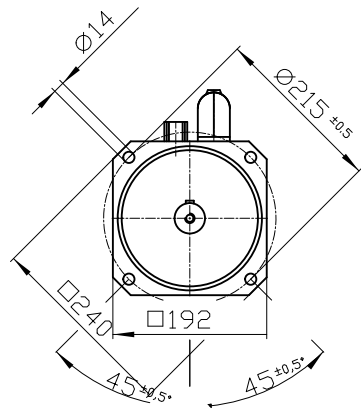
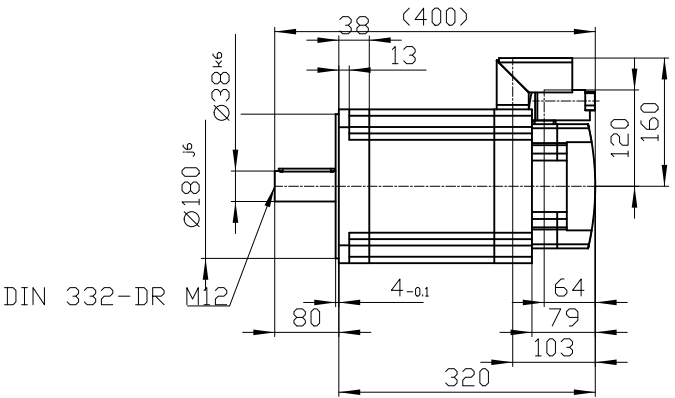
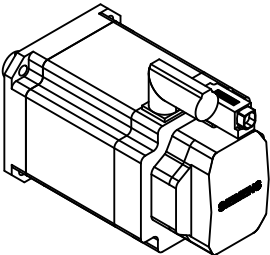
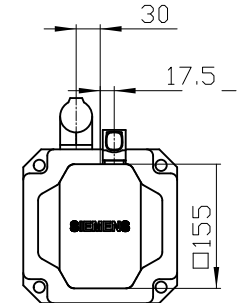
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	30 A
Optimum power	8.2 kW	Maximum inverter current	56 A
Limiting data		Maximum torque	87.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	5700 rpm		
Maximum torque	150.0 Nm		
Maximum current	109.0 A		

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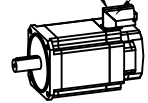
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Connector size 1.5 = M40;
6-pole for power and brake
10-pole RJ45 socket



			
Unit	mm [in]	1FK7105-5AF 71-1FA3	
Date	7/31/23		
SIEMENS AG		-	
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		DT	