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MLFB-Ordering data 1FK7105-5AF71-1DB0

Client order no. :
Order no. :
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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	169.000 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	without
Rotating field inductance	1.9 mH	Holding brake	with holding brake
Electrical time constant	26.00 ms	Shaft end	Feather key
Mechanical time constant	1.40 ms	Encoder system	Encoder IC22DQ: incremental encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + commutation position 11 bits
Thermal time constant	70 min		
Shaft torsional stiffness	125000 Nm/rad		
Net weight of the motor	41.5 kg		

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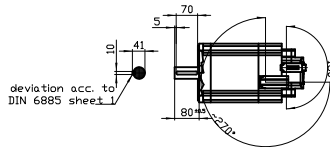
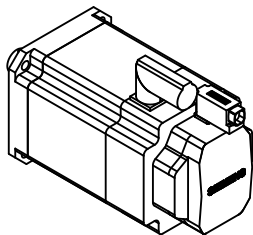
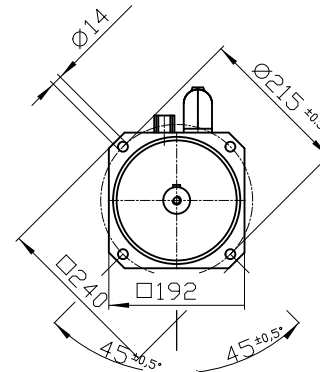
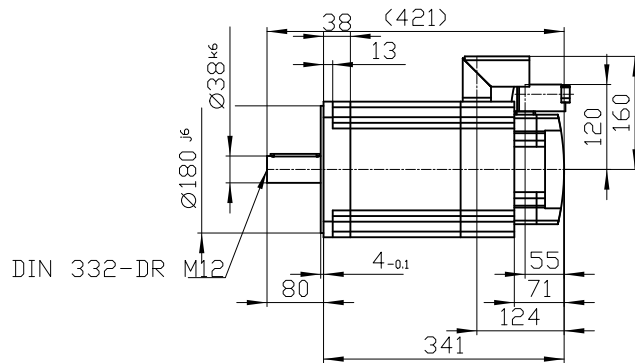
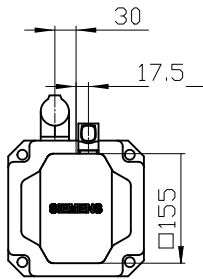
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	30 A
Optimum power	8.2 kW	Maximum inverter current	56 A
Limiting data		Maximum torque	87.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	5700 rpm		
Maximum torque	150.0 Nm		
Maximum current	109.0 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	43.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	1.0 A		
Opening time	300 ms		
Closing time	70 ms		
Highest braking work	3380 J		

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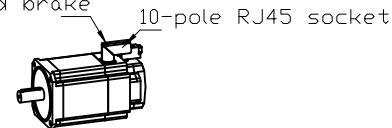
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Connector size 1.5 = M40;
6-pole for power and brake



	Unit	mm [in]	1FK7105-5AF 71-1DB0
	Date	7/28/23	
SIEMENS AG		-	
-		DT	