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Figure similar

MLFB-Ordering data 1FK7101-5AF71-1EH3

Client order no. :
Order no. :
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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)	15.5 Nm	Shaft height	100
Rated current	11.8 A	Cooling	Natural cooling
Static torque (60 K)	22.40 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	27.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	15.70 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	19.00 A	Vibration severity grade	Grade A
Moment of inertia	92.300 kgcm²	Connector size	1.5
Efficiency	93.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.41 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	90.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.15 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	3.0 mH	Holding brake	with holding brake
Electrical time constant	20.00 ms	Shaft end	Plain shaft
Mechanical time constant	1.80 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	60 min		
Shaft torsional stiffness	165000 Nm/rad		
Net weight of the motor	24.0 kg		

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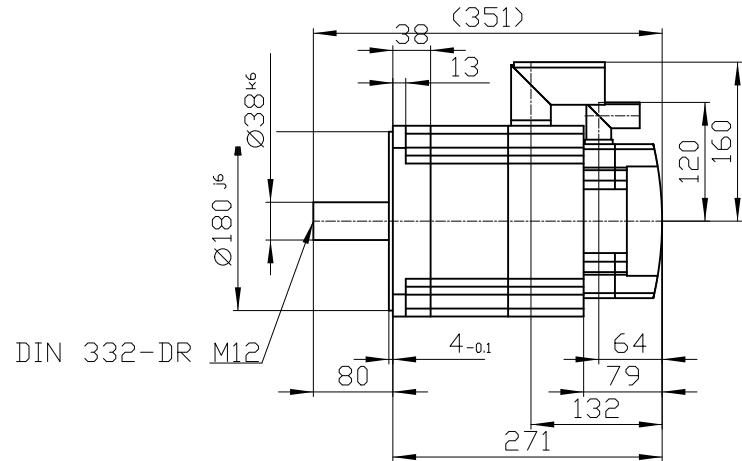
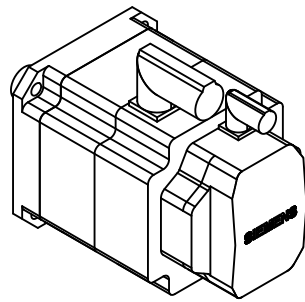
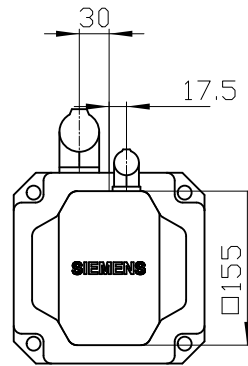
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	18 A
Optimum power	4.9 kW	Maximum inverter current	36 A
Limiting data		Maximum torque	51.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	6400 rpm		
Maximum torque	80.0 Nm		
Maximum current	63.0 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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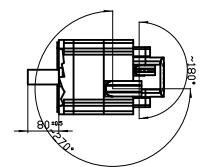
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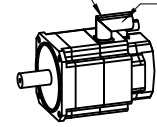
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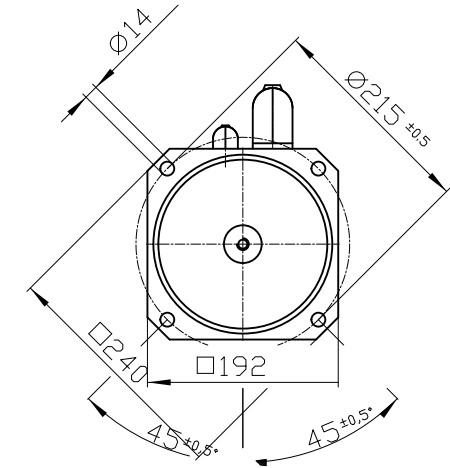
DIN 332-DR M12



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



Connector size M23, 17-pole



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Unit	mm [in]	1FK7101-5AF71-1EH3
Date	2/7/23	
SIEMENS AG		-
-		
		DT