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Figure similar

MLFB-Ordering data 1FK7086-7AF71-1EH2

Client order no. :
Order no. :
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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	High Dynamic
Rated torque (100 K)	6.5 Nm	Shaft height	80
Rated current	5.5 A	Cooling	Natural cooling
Static torque (60 K)	23.50 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	28.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	17.00 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	21.00 A	Vibration severity grade	Grade A
Moment of inertia	25.000 kgcm²	Connector size	1.5
Efficiency	93.0 %	Degree of protection	IP65 and DE flange IP67
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.33 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	85.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.12 Ω	Color of the housing	without
Rotating field inductance	3.0 mH	Holding brake	with holding brake
Electrical time constant	25.00 ms	Shaft end	Plain shaft
Mechanical time constant	0.47 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	65 min		
Shaft torsional stiffness	83000 Nm/rad		
Net weight of the motor	25.7 kg		

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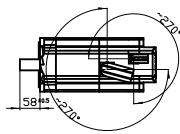
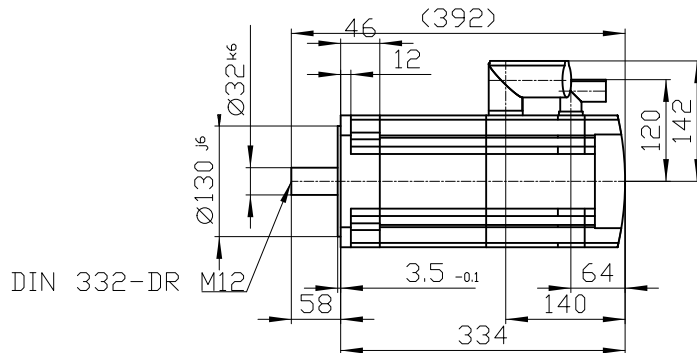
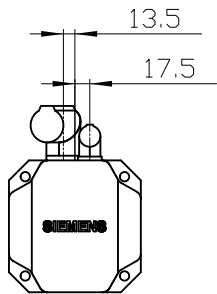
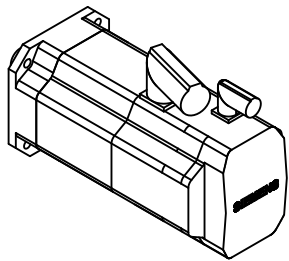
Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	30 A
Optimum power	3.8 kW	Maximum inverter current	56 A
Limiting data		Maximum torque	72.00 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	6800 rpm		
Maximum torque	105.0 Nm		
Maximum current	112.0 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	22.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.9 A		
Opening time	200 ms		
Closing time	60 ms		
Highest braking work	1400 J		

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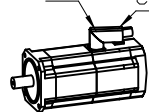
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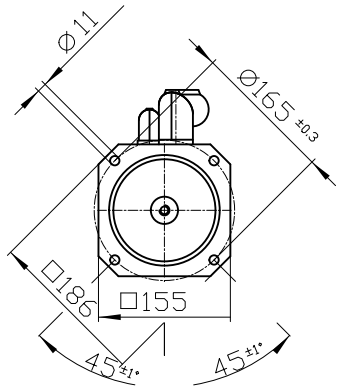
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Connector size 1.5 = M40;
6-pole for power and brake



Connector size M23, 17-pole



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	-	
Unit	mm [in]	1FK7086-7AF71-1EH2
Date	7/6/23	
SIEMENS AG		-
-		DT