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MLFB-Ordering data1FK7083-5AH71-1FA3

Client order no. :
Order no. :
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Engineering data		Mechanical data	
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	3.0 Nm	Shaft height	80
Rated current	3.6 A	Cooling	Natural cooling
Static torque (60 K)	13.30 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	16.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	12.40 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	15.00 A	Vibration severity grade	Grade A
Moment of inertia	27.300 kgcm²	Connector size	1
Efficiency	93.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.05 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	67.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.17 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	2.9 mH	Holding brake	without holding brake
Electrical time constant	17.00 ms	Shaft end	Feather key
Mechanical time constant	1.26 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	50 min		
Shaft torsional stiffness	105000 Nm/rad		
Net weight of the motor	14.0 kg		

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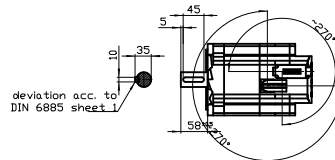
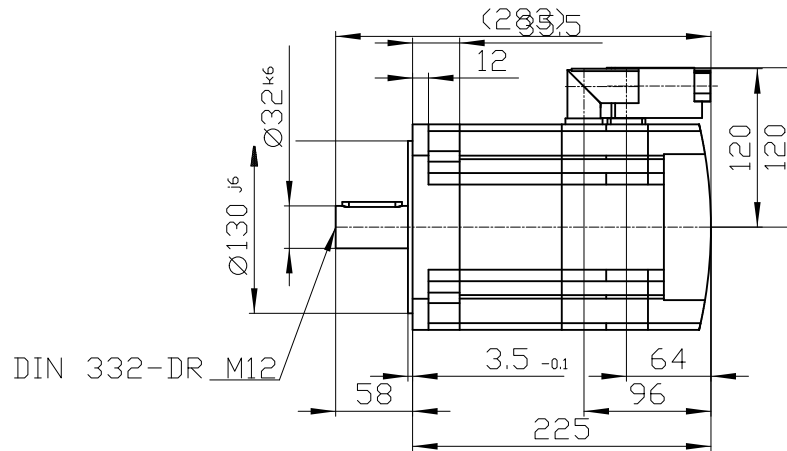
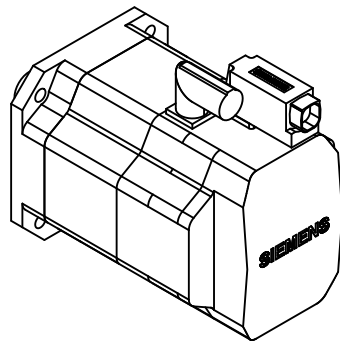
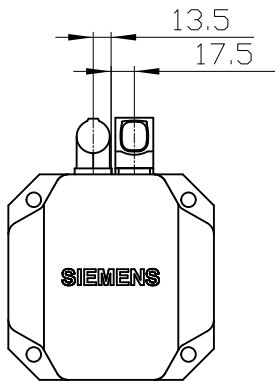
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	18 A
Optimum power	3.3 kW	Maximum inverter current	36 A
Limiting data		Maximum torque	37.70 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	8600 rpm		
Maximum torque	50.0 Nm		
Maximum current	52.0 A		

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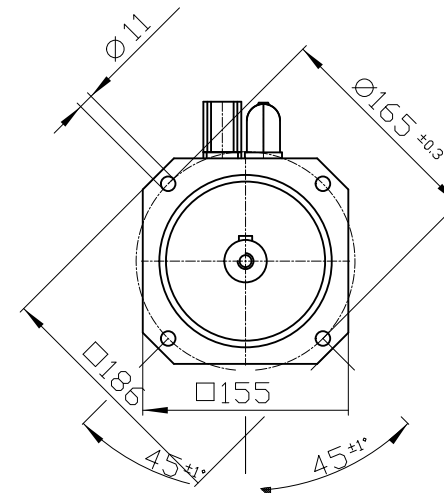
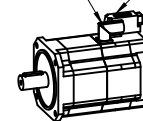
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Connector size 1 = M23;
6-pole for power and brake 10-pole RJ45 socket



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Unit	mm [in]	1FK7083-5AH71-1FA3
Date	7/13/23	
SIEMENS AG		-
-		DT