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Figure similar

MLFB-Ordering data 1FK7085-7AF71-1EG0

Client order no. :
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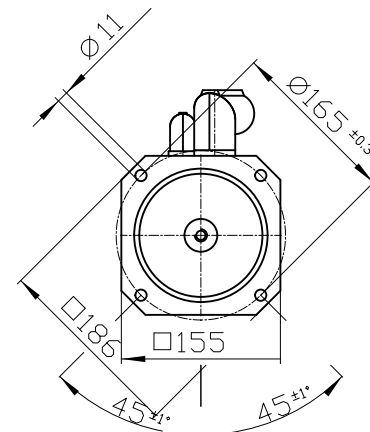
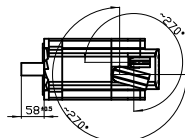
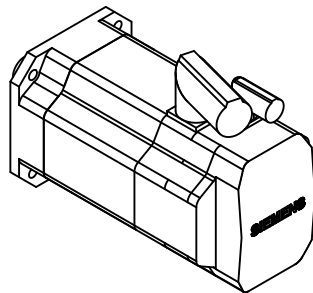
Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	High Dynamic
Rated torque (100 K)	6.5 Nm	Shaft height	80
Rated current	7.0 A	Cooling	Natural cooling
Static torque (60 K)	17.00 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	22.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	16.50 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	22.50 A	Vibration severity grade	Grade A
Moment of inertia	23.000 kgcm²	Connector size	1.5
Efficiency	92.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.96 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	63.0 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	3.3 mH	Holding brake	without holding brake
Electrical time constant	27.50 ms	Shaft end	Plain shaft
Mechanical time constant	0.90 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	23.5 kg		

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Optimum operating point		Recommended Motor Module	
Optimum speed	2500 rpm	Rated inverter current	30 A
Optimum power	3.1 kW	Maximum inverter current	56 A
Limiting data		Maximum torque	52.60 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	9100 rpm		
Maximum torque	65.0 Nm		
Maximum current	80.0 A		

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Connector size M23, 17-pole

			
Unit	mm [in]	1FK7085-7AF71-1EG0	
Date	7/10/23		
SIEMENS AG		-	
-		DT	