



MLFB-Ordering data 1FK7080-2AH71-1BH0

Client order no. :
Order no. :
Offer no. :
Remarks :
Item no. :
Consignment no. :
Project :

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)	4.5 Nm	Shaft height	80
Rated current	4.8 A	Cooling	Natural cooling
Static torque (60 K)	6.60 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	8.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	6.00 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	7.40 A	Vibration severity grade	Grade A
Moment of inertia	17.500 kgcm ²	Connector size	1
Efficiency	92.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.08 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	68.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.42 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	7.3 mH	Holding brake	with holding brake
Electrical time constant	17.30 ms	Shaft end	Plain shaft
Mechanical time constant	1.54 ms	Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits
Thermal time constant	40 min		
Shaft torsional stiffness	81000 Nm/rad		
Net weight of the motor	13.3 kg		



Figure similar

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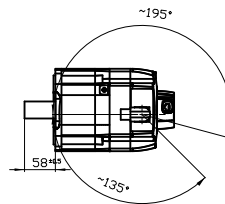
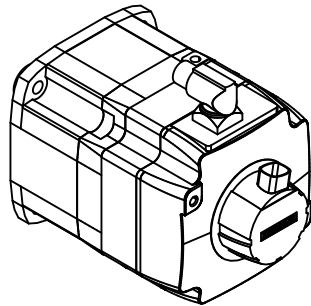
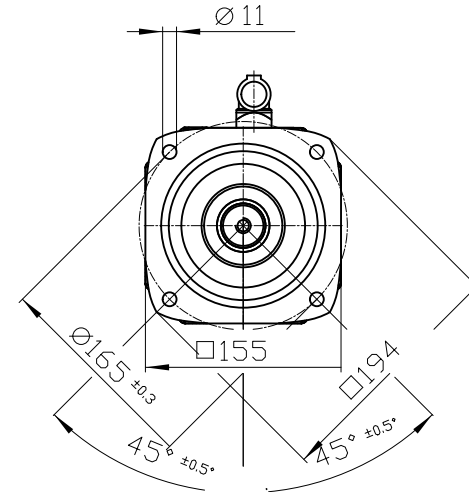
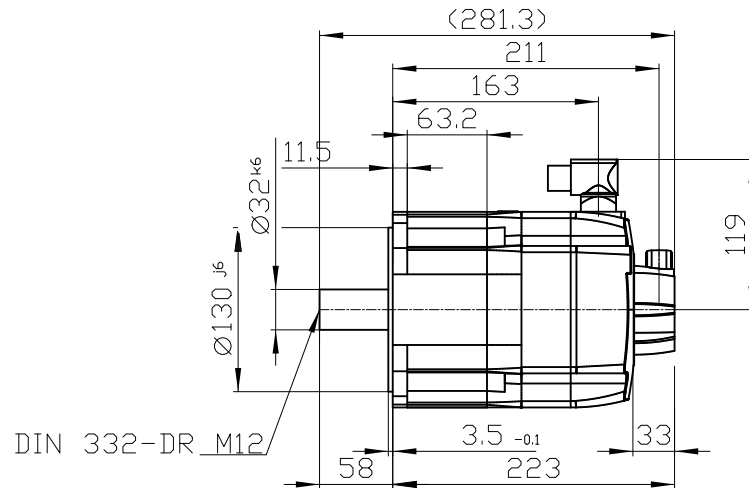
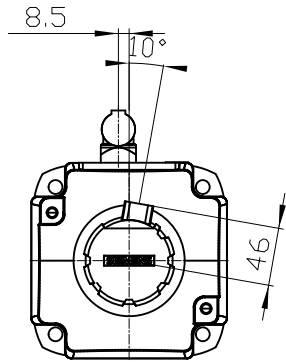
Optimum operating point		Recommended Motor Module	
Optimum speed	4000 rpm	Rated inverter current	9 A
Optimum power	2.4 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	24.70 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	6000 rpm		
Maximum torque	25.0 Nm		
Maximum current	27.5 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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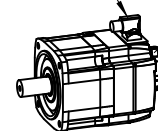
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Connector size 1 = M23;
6-pole for power and brake



10-pole RJ45 socket

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Unit	mm [in]	1FK7080-2AH71-1BH0
Date	6/16/23	
SIEMENS AG		-
-		DT