

MLFB-Ordering data1FK7044-7AF71-1EG0

Client order no. :
Order no. :
Offer no. :
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	6	Motor type	High Dynamic
Rated torque (100 K)	3.5 Nm	Shaft height	48
Rated current	4.0 A	Cooling	Natural cooling
Static torque (60 K)	3.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	4.00 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	3.40 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	4.50 A	Vibration severity grade	Grade A
Moment of inertia	1.280 kgcm²	Connector size	1
Efficiency	91.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.86 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	57.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	1.50 Ω	Color of the housing	without
Rotating field inductance	20.0 mH	Holding brake	without holding brake
Electrical time constant	13.30 ms	Shaft end	Plain shaft
Mechanical time constant	0.78 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	45 min		
Shaft torsional stiffness	9500 Nm/rad		
Net weight of the motor	7.7 kg		

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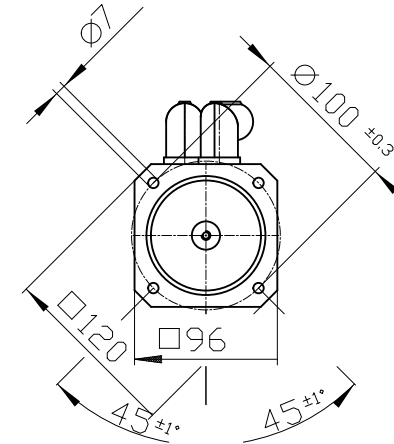
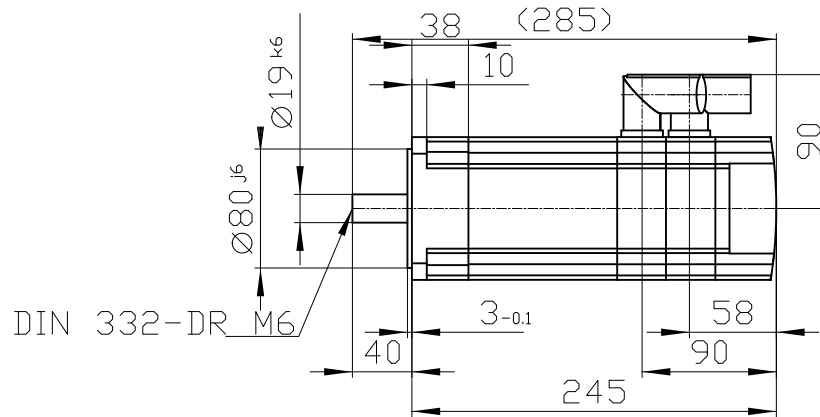
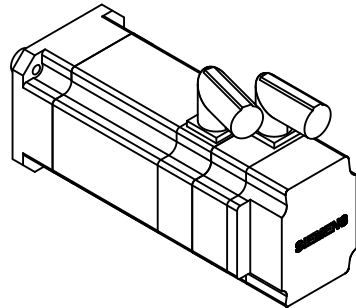
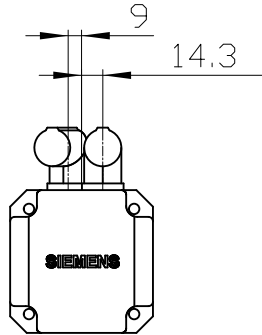
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	5 A
Optimum power	1.1 kW	Maximum inverter current	10 A
Limiting data		Maximum torque	8.80 Nm
Max. permissible speed (mech.)	8000 rpm		
Max. permissible speed (inverter)	10100 rpm		
Maximum torque	12.0 Nm		
Maximum current	14.8 A		

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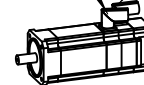
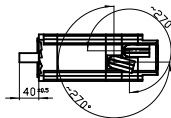
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Connector size 1 = M23;
6-pole for power and brake

Connector size M23, 17-pole



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Unit	mm [in]	1FK7044-7AF71-1EG0
Date	3/10/23	
SIEMENS AG		—
—		DT