

MLFB-Ordering data1FK7044-7AF71-1EA0



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

Engineering data	Mechanical data
Rated speed (100 K) 3000 rpm Number of poles 6 Rated torque (100 K) 3.5 Nm Rated current 4.0 A Static torque (60 K) 3.00 Nm Static torque (100 K) 4.00 Nm Stall current (60 K) 3.40 A Stall current (100 K) 4.50 A Moment of inertia 1.280 kgcm² Efficiency 91.0 %	Motor type Permanent-magnet synchronous motor Motor type High Dynamic Shaft height 48 Cooling Natural cooling Radial runout tolerance 0.040 mm Concentricity tolerance 0.08 mm Axial runout tolerance 0.08 mm Vibration severity grade Grade A Connector size 1 Degree of protection IP64 Design acc. to Code I IM B5 (IM V1, IM V3) Temperature monitoring KTY84 temperature sensor in the stator winding Electrical connectors Connectors for signals and power rotatable Color of the housing without Holding brake without holding brake Shaft end Feather key Encoder system Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Physical constants	
Torque constant 0.86 Nm/A Voltage constant at 20° C 57.0 V/1000*min⁻¹ Winding resistance at 20° C 1.50 Ω Rotating field inductance 20.0 mH Electrical time constant 13.30 ms Mechanical time constant 0.78 ms Thermal time constant 45 min Shaft torsional stiffness 9500 Nm/rad Net weight of the motor 7.7 kg	

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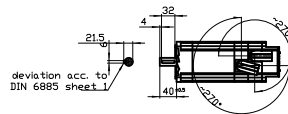
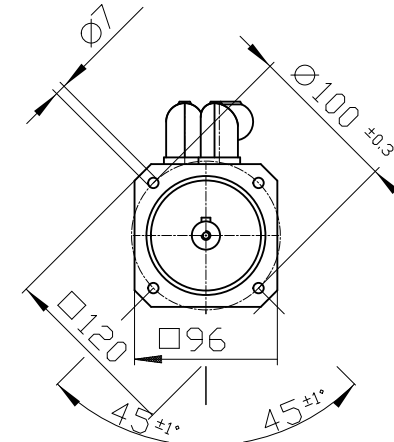
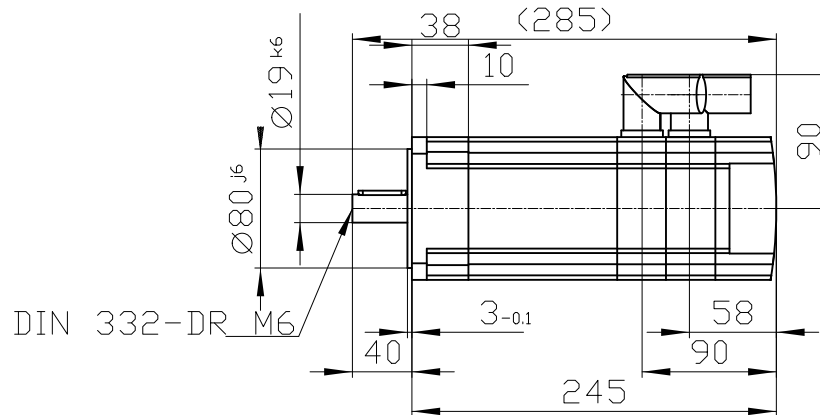
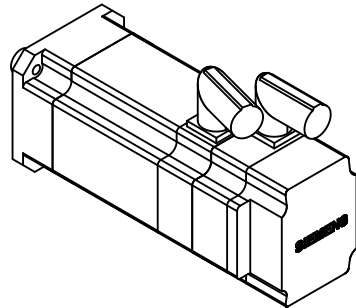
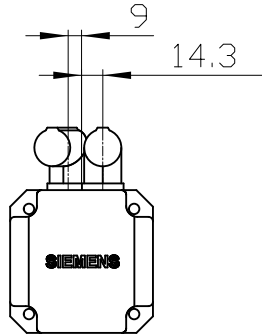
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	5 A
Optimum power	1.1 kW	Maximum inverter current	10 A
Limiting data		Maximum torque	8.80 Nm
Max. permissible speed (mech.)	8000 rpm		
Max. permissible speed (inverter)	10100 rpm		
Maximum torque	12.0 Nm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

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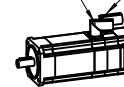
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Connector size 1 = M23;
6-pole for power and brake



Connector size M23, 17-pole

			
Unit	mm (in)	1FK7044-7AF71-1EA0	
Date	3/13/23		
SIEMENS AG			
		DT	