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MLFB-Ordering data 1FK7042-5AF71-1AA2

Client order no. :
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Engineering data		Mechanical data	
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	2.6 Nm	Shaft height	48
Rated current	1.9 A	Cooling	Natural cooling
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.00 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.20 A	Vibration severity grade	Grade A
Moment of inertia	3.010 kgcm²	Connector size	1
Efficiency	89.0 %	Degree of protection	IP65 and DE flange IP67
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.40 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	89.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	5.15 Ω	Color of the housing	without
Rotating field inductance	29.0 mH	Holding brake	without holding brake
Electrical time constant	5.60 ms	Shaft end	Feather key
Mechanical time constant	2.37 ms	Encoder system	Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track
Thermal time constant	30 min		
Shaft torsional stiffness	16000 Nm/rad		
Net weight of the motor	4.9 kg		

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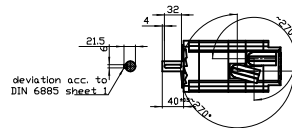
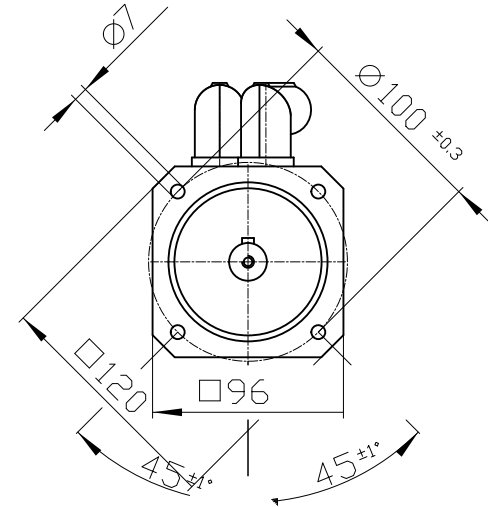
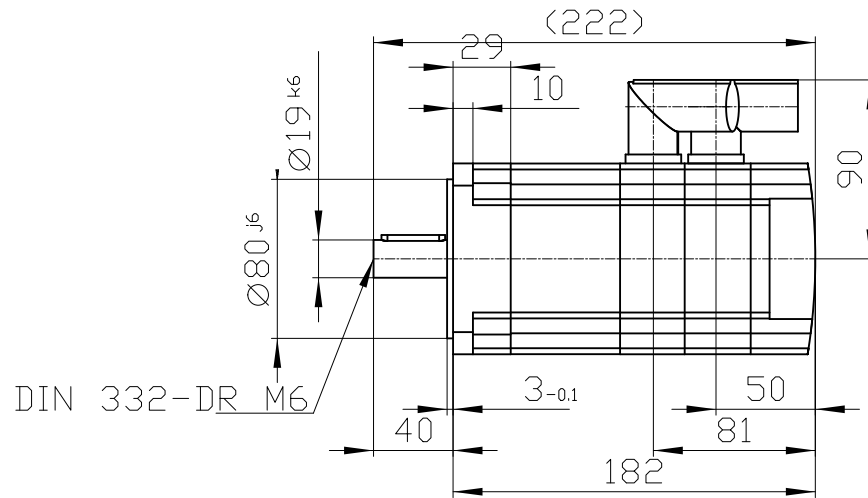
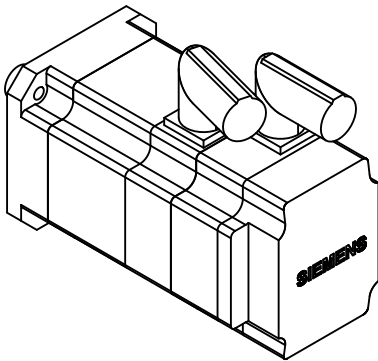
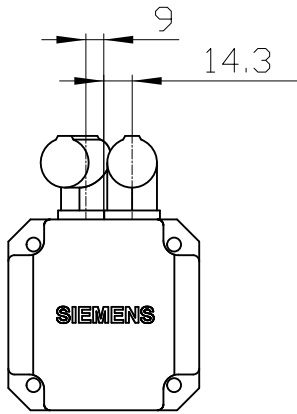
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	3 A
Optimum power	0.8 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	8.40 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	6500 rpm		
Maximum torque	10.5 Nm		
Maximum current	7.4 A		

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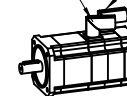
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Connector size 1 = M23;
6-pole for power and brake

Connector size M23, 17-pole



Unit	mm [in]	1FK7042-5AF71-1AA2	
Date	2/27/23		
SIEMENS AG			
		DT	