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MLFB-Ordering data1FK7040-5AK71-1DA0

Client order no. :
Order no. :
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Engineering data		Mechanical data	
Rated speed (100 K)	6000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	1.1 Nm	Shaft height	48
Rated current	1.7 A	Cooling	Natural cooling
Static torque (60 K)	1.30 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	1.60 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.25 A	Vibration severity grade	Grade A
Moment of inertia	1.690 kgcm²	Connector size	1
Efficiency	88.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.68 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	43.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	3.30 Ω	Color of the housing	without
Rotating field inductance	17.0 mH	Holding brake	without holding brake
Electrical time constant	5.15 ms	Shaft end	Feather key
Mechanical time constant	3.62 ms	Encoder system	Encoder IC22DQ: incremental encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + commutation position 11 bits
Thermal time constant	25 min		
Shaft torsional stiffness	19000 Nm/rad		
Net weight of the motor	3.5 kg		

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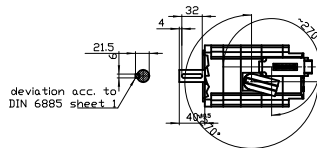
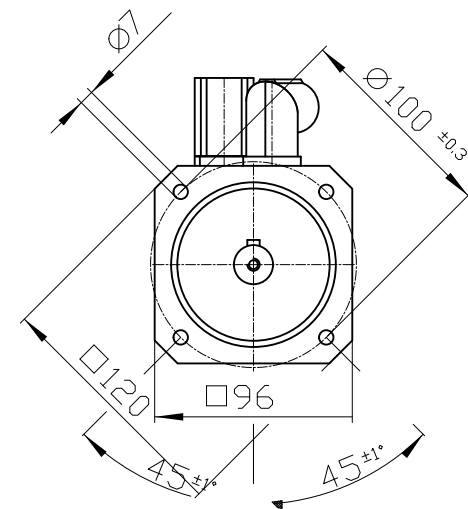
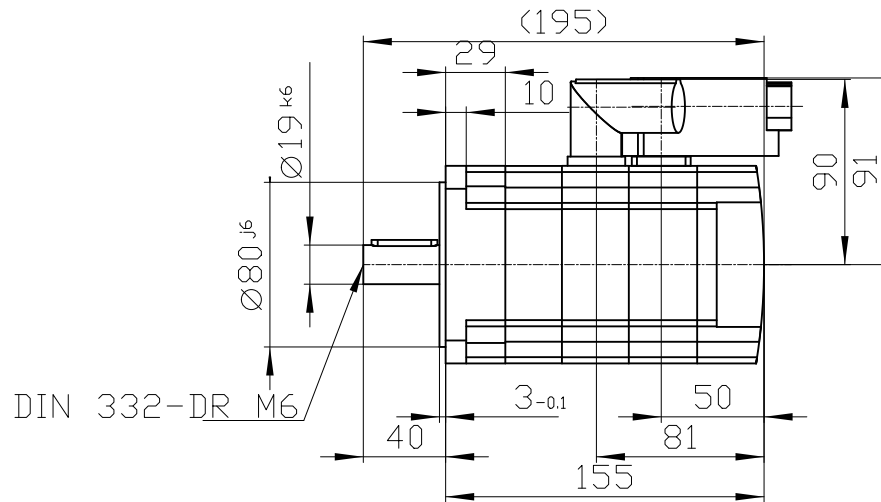
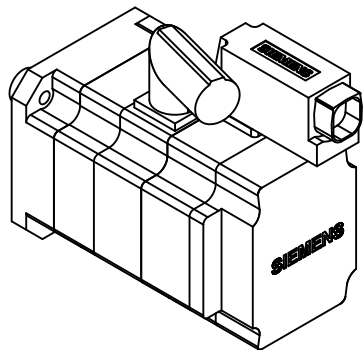
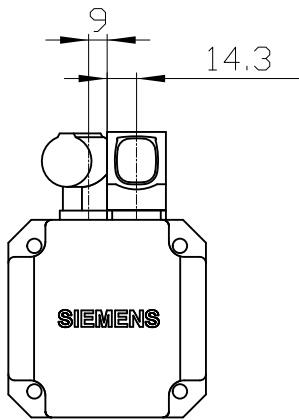
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.7 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	4.10 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	9990 rpm		
Maximum torque	5.1 Nm		
Maximum current	7.7 A		

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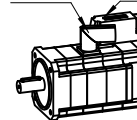
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Connector size 1 = M23;
6-pole for power and brake 10-pole RJ45 socket



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Unit	mm [in]	1FK7040-5AK71-1DA0
Date	2/7/23	
SIEMENS AG		-
-		DT