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MLFB-Ordering data1FK7033-7AK71-1AG0

Client 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	6	Motor type	High Dynamic
Rated torque (100 K)	0.9 Nm	Shaft height	36
Rated current	1.5 A	Cooling	Natural cooling
Static torque (60 K)	1.00 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	1.30 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.70 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.20 A	Vibration severity grade	Grade A
Moment of inertia	0.270 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	0.60 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	40.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	3.70 Ω	Color of the housing	without
Rotating field inductance	18.0 mH	Holding brake	without holding brake
Electrical time constant	4.90 ms	Shaft end	Plain shaft
Mechanical time constant	0.83 ms	Encoder system	Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track
Thermal time constant	25 min		
Shaft torsional stiffness	8000 Nm/rad		
Net weight of the motor	3.1 kg		

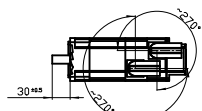
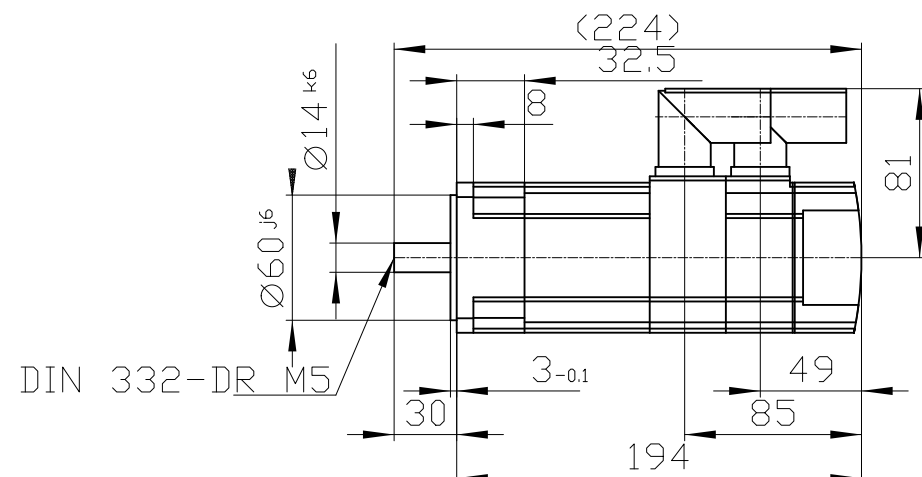
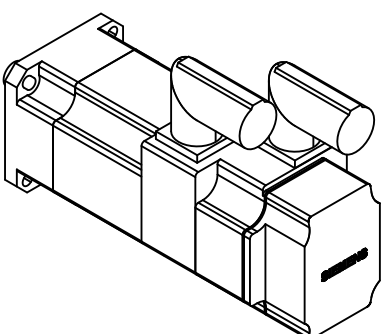
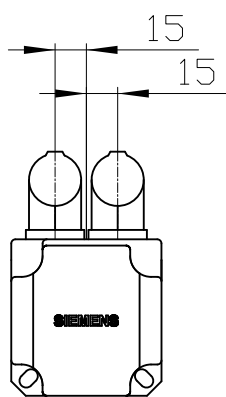
MLFB-Ordering data 1FK7033-7AK71-1AG0

Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.6 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	3.50 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	13300 rpm		
Maximum torque	4.3 Nm		
Maximum current	7.2 A		

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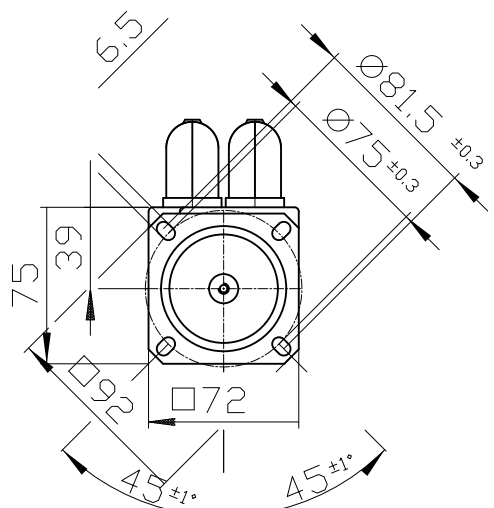
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Connector size 1 = M23;
6-pole for power and brake



Connector size M23, 17-pole



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Unit	mm [in]	1FK7033-7AK71-1AG0	
Date	12/27/22		
SIEMENS AG		—	
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