

MLFB-Ordering data1FK7033-7AK71-1AA0



Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed (100 K)	6000 rpm
Number of poles	6
Rated torque (100 K)	0.9 Nm
Rated current	1.5 A
Static torque (60 K)	1.00 Nm
Static torque (100 K)	1.30 Nm
Stall current (60 K)	1.70 A
Stall current (100 K)	2.20 A
Moment of inertia	0.270 kgcm ²
Efficiency	88.0 %
Physical constants	
Torque constant	0.60 Nm/A
Voltage constant at 20° C	40.0 V/1000*min ⁻¹
Winding resistance at 20° C	3.70 Ω
Rotating field inductance	18.0 mH
Electrical time constant	4.90 ms
Mechanical time constant	0.83 ms
Thermal time constant	25 min
Shaft torsional stiffness	8000 Nm/rad
Net weight of the motor	3.1 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	36
Cooling	Natural cooling
Radial runout tolerance	0.035 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 IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track

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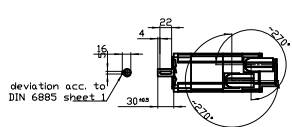
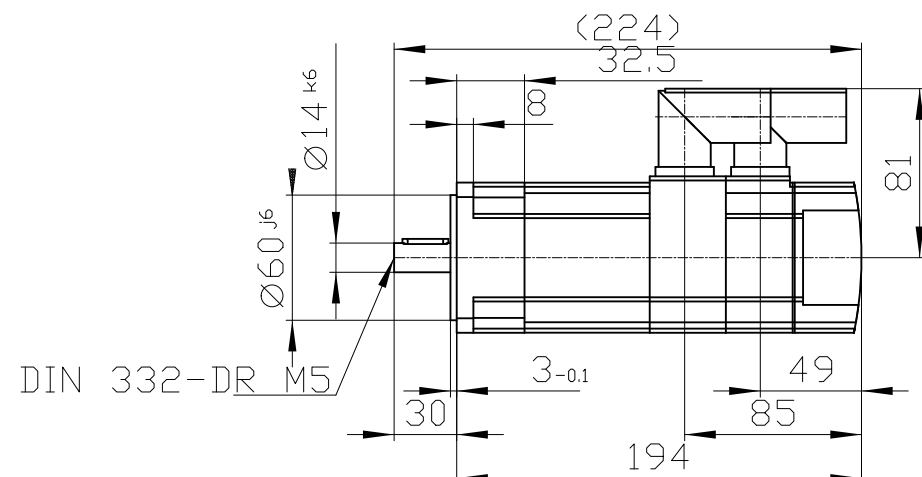
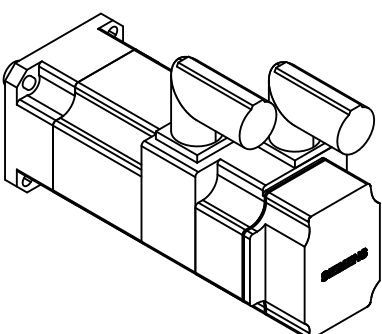
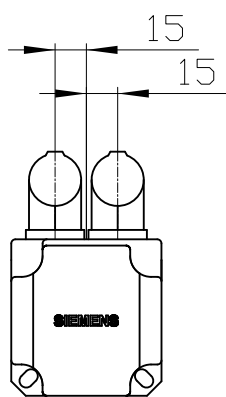
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.6 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	3.50 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	13300 rpm		
Maximum torque	4.3 Nm	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

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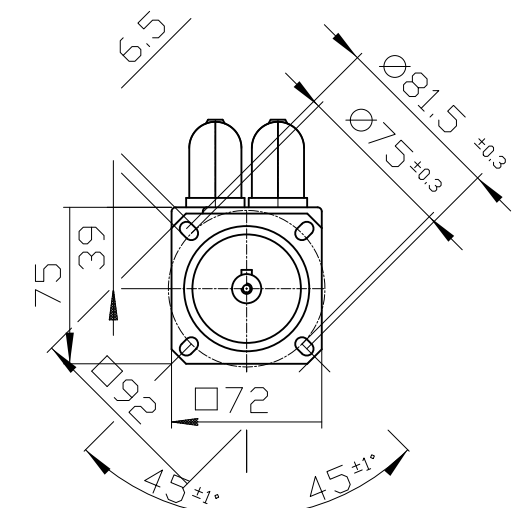
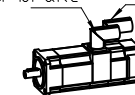
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Connector size 1 = M23;
6-pole for power and brake

Connector size M23, 17-pole



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Unit		mm [in]
Date		12/27/22
SIEMENS AG		1FK7033-7AK71-1AA0
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DT		