



MLFB-Ordering data1FK7044-4CF74-1AG0

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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	6	Motor type	High Dynamic
Rated torque (100 K)	3.7 Nm	Shaft height	48
Rated current	3.5 A	Cooling	Natural cooling
Static torque (60 K)	3.75 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	4.50 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	3.20 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	4.00 A	Vibration severity grade	Grade A
Moment of inertia	1.260 kgcm²	Connector size	1
Efficiency	91.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.13 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	72.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	1.49 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	18.8 mH	Holding brake	without holding brake
Electrical time constant	12.60 ms	Shaft end	Plain shaft
Mechanical time constant	0.44 ms	Encoder system	Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track
Thermal time constant	45 min		
Shaft torsional stiffness	9800 Nm/rad		
Net weight of the motor	7.4 kg		



Figure similar

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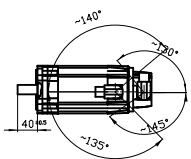
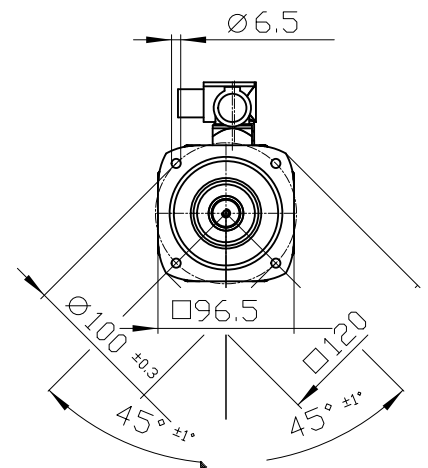
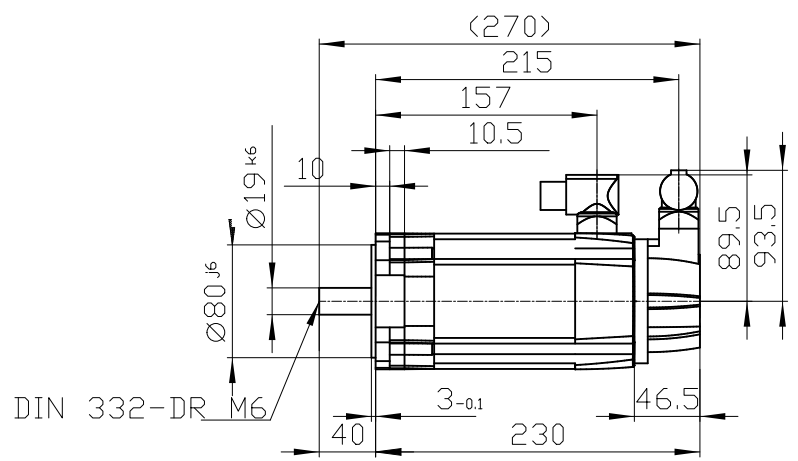
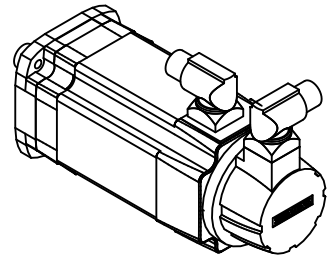
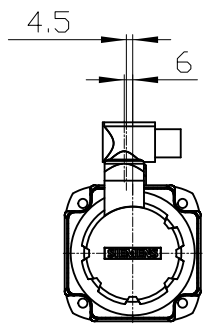
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	5 A
Optimum power	1.2 kW	Maximum inverter current	15 A
Limiting data		Maximum torque	13.00 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	8050 rpm		
Maximum torque	13.0 Nm		
Maximum current	12.1 A		

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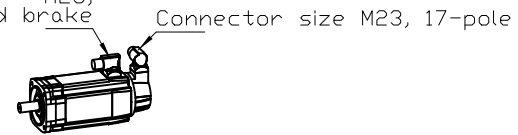
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Connector size 1 = M23;
6-pole for power and brake



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Unit		mm [in]
Date		3/13/23
SIEMENS AG		1FK7044-4CF74-1AG0
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