



MLFB-Ordering data1FK7042-2AF71-1PG0

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

Item no. :
Consignment no. :
Project :

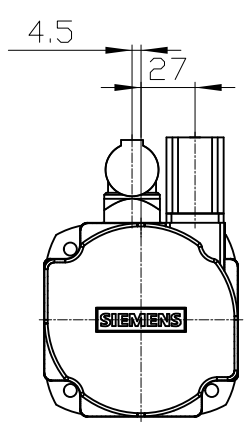
Engineering data		Mechanical data	
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	2.6 Nm	Shaft height	48
Rated current	2.0 A	Cooling	Natural cooling
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm
Static 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	2.900 kgcm²	Connector size	1
Efficiency	89.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.38 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	90.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	4.67 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	35.0 mH	Holding brake	without holding brake
Electrical time constant	7.50 ms	Shaft end	Plain shaft
Mechanical time constant	2.15 ms	Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)
Thermal time constant	30 min		
Shaft torsional stiffness	15500 Nm/rad		
Net weight of the motor	4.6 kg		



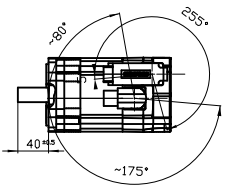
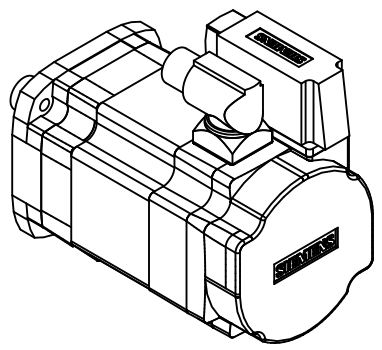
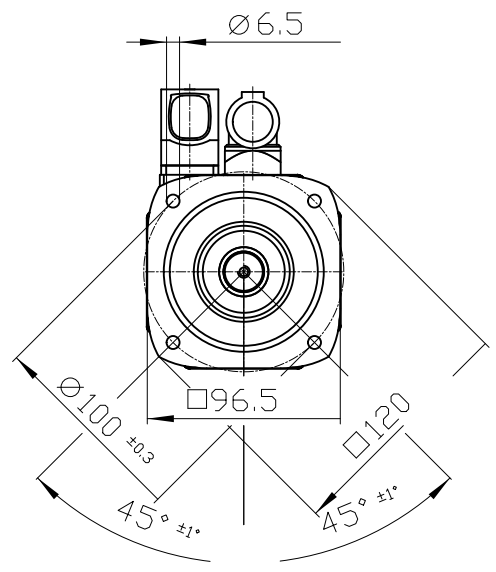
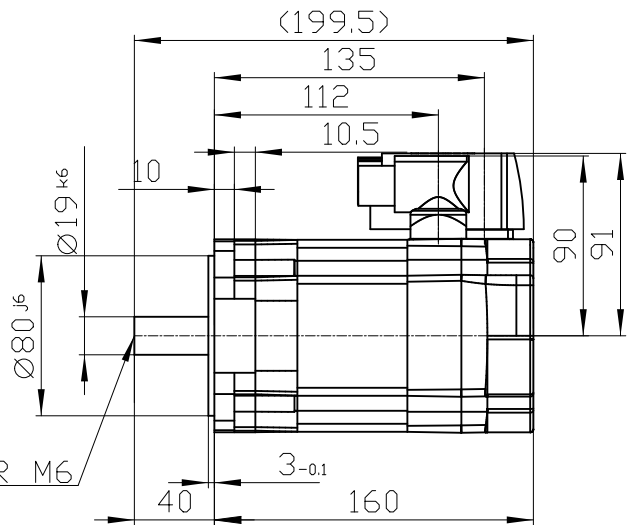
Figure similar

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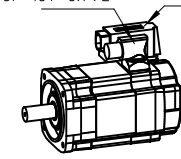
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	3 A
Optimum power	0.8 kW	Maximum inverter current	9 A
Limiting data		Maximum torque	10.50 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	6400 rpm		
Maximum torque	10.5 Nm		
Maximum current	7.6 A		



DIN 332-DR M6



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



10-pole RJ45 socket

		-
		-
Unit	mm [in]	1FK7042-2AF71-1PG0
Date	2/13/23	
SIEMENS AG		-
-		DT

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