

Data sheet for SIMOTICS S-1FK7



MLFB-Ordering data 1FK7060-2AH74-1EG0

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

Item no. :
Consignment no. :
Project :

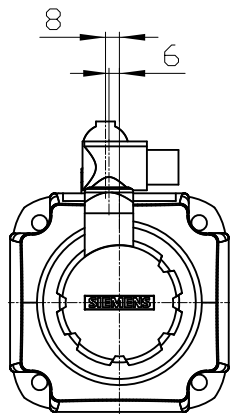
Engineering data		Mechanical data	
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	3.7 Nm	Shaft height	63
Rated current	4.3 A	Cooling	Natural cooling
Static torque (60 K)	5.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	6.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	5.10 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	6.30 A	Vibration severity grade	Grade A
Moment of inertia	7.700 kgcm²	Connector size	1
Efficiency	90.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.95 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	60.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.69 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	7.6 mH	Holding brake	without holding brake
Electrical time constant	10.90 ms	Shaft end	Plain shaft
Mechanical time constant	1.78 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	30 min		
Shaft torsional stiffness	40500 Nm/rad		
Net weight of the motor	7.1 kg		



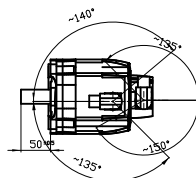
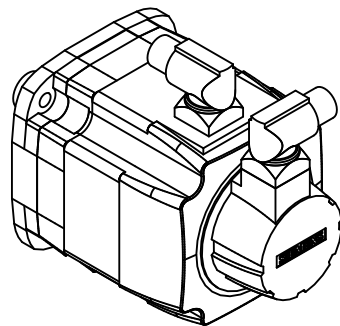
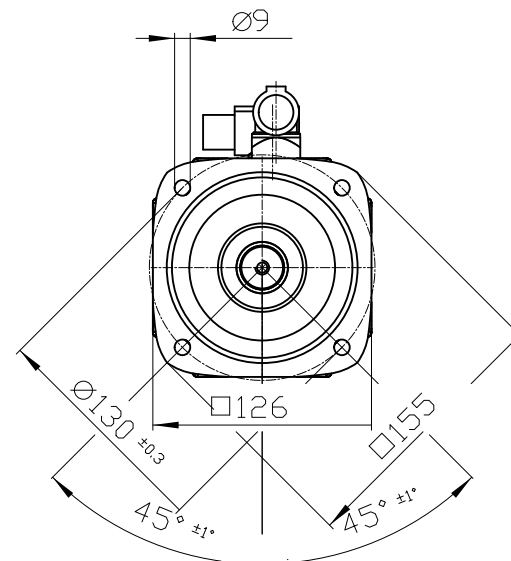
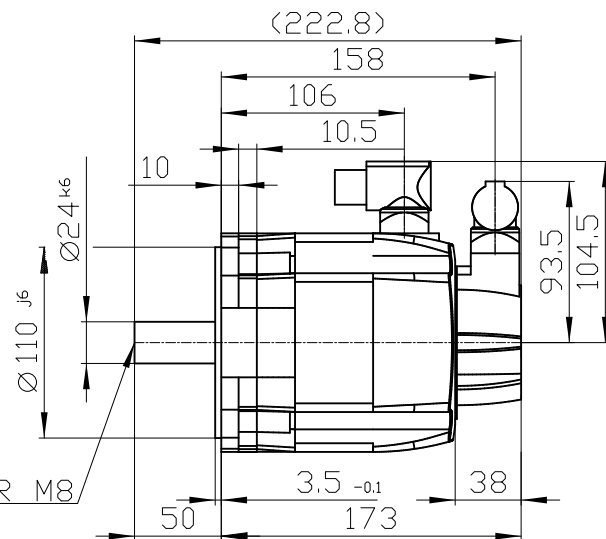
Figure similar

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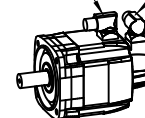
Optimum operating point		Recommended Motor Module	
Optimum speed	4500 rpm	Rated inverter current	9 A
Optimum power	1.7 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	18.00 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	7200 rpm		
Maximum torque	18.0 Nm		
Maximum current	21.5 A		



DIN 332-DR M8



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



Connector size M23, 17-pole

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Unit	mm [in]	1FK7060-2AH74-1EG0
Date	3/15/23	
SIEMENS AG		-
-		DT