

Data sheet for SIMOTICS S-1FK7



MLFB-Ordering data 1FK7064-4CF74-1SG0

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)	8.0 Nm	Shaft height	63
Rated current	7.6 A	Cooling	Natural cooling
Static torque (60 K)	10.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	12.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	8.70 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	10.80 A	Vibration severity grade	Grade A
Moment of inertia	7.500 kgcm²	Connector size	1
Efficiency	93.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.11 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	70.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.35 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	12.0 mH	Holding brake	without holding brake
Electrical time constant	34.50 ms	Shaft end	Plain shaft
Mechanical time constant	0.64 ms	Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)
Thermal time constant	55 min		
Shaft torsional stiffness	29500 Nm/rad		
Net weight of the motor	15.4 kg		



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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	18 A
Optimum power	2.5 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	32.00 Nm
Max. permissible speed (mech.)	7500 rpm		
Max. permissible speed (inverter)	7500 rpm		
Maximum torque	32.0 Nm		
Maximum current	33.0 A		

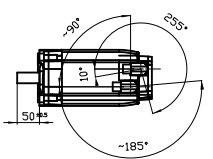
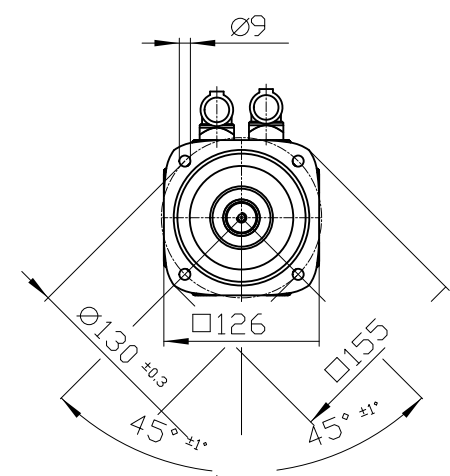
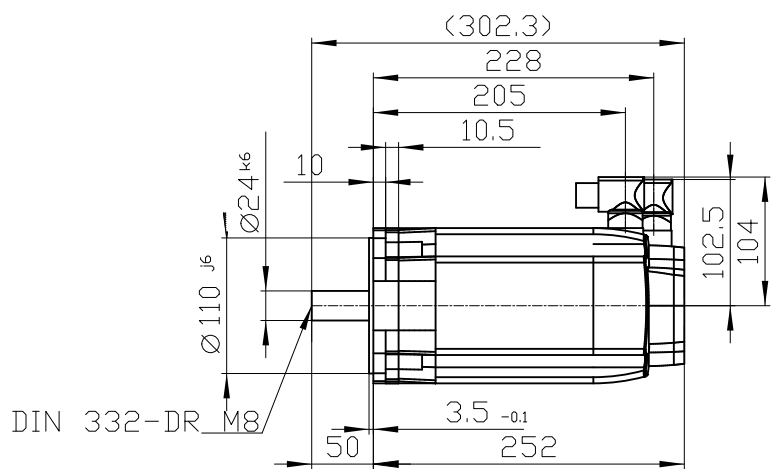
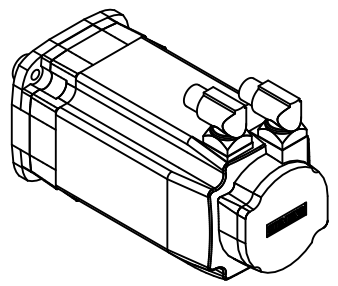
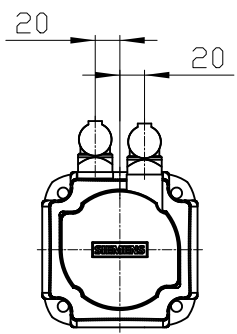
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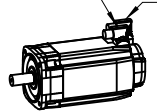
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Connector size 1 = M23;
6-pole for power and brake

Connector size M23, 12-pole



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Unit		mm [in]	1FK7064-4CF74-1SG0
Date		8/1/23	
SIEMENS AG		-	
-		DT	