

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data 1FK7064-4CF74-1SH0

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	8.500 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	with 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	22500 Nm/rad		
Net weight of the motor	16.8 kg		



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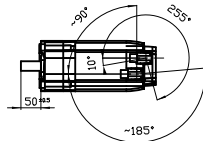
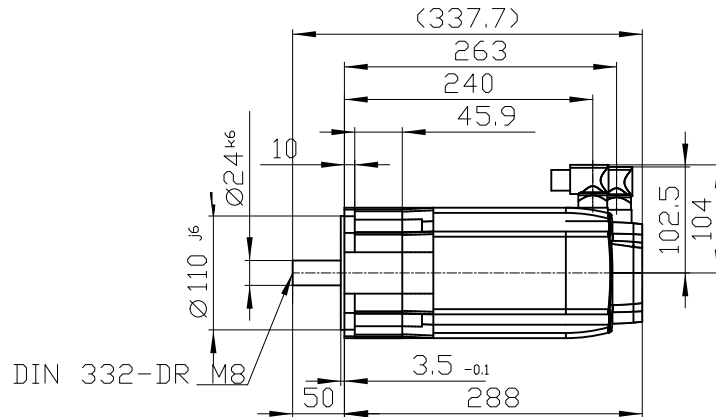
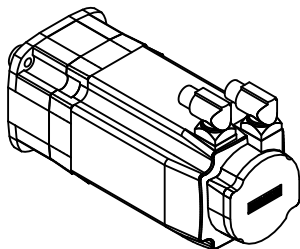
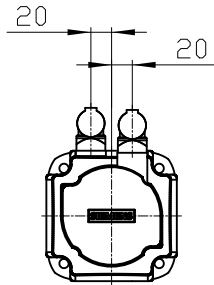
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	18 A
Optimum power	2.5 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	32.00 Nm
Max. permissible speed (mech.)	7500 rpm		
Max. permissible speed (inverter)	7500 rpm		
Maximum torque	32.0 Nm		
Maximum current	33.0 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	13.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.8 A		
Opening time	100 ms		
Closing time	50 ms		
Highest braking work	380 J		

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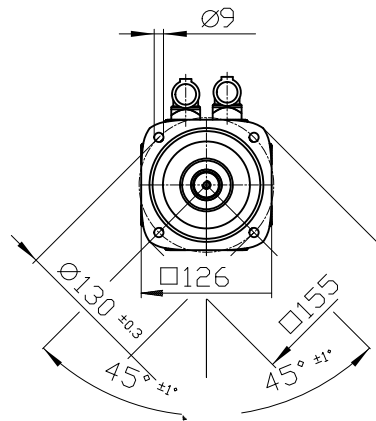
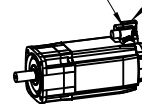
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Connector size 1 = M23;
6-pole for power and brake



Connector size M23, 12-pole

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Unit	mm [in]	1FK7064-4CF74-1SH0
Date	8/1/23	
SIEMENS AG		-
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