

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data 1FK7061-4CH71-1QG0

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

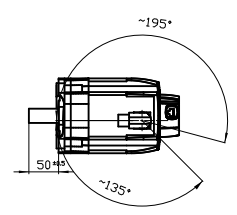
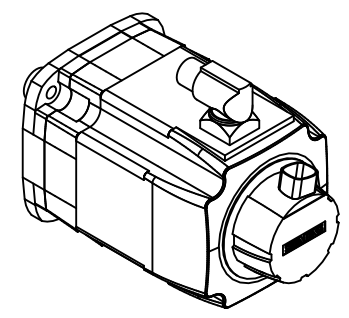
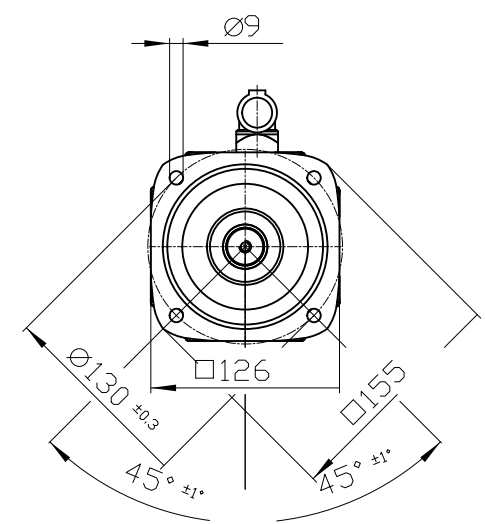
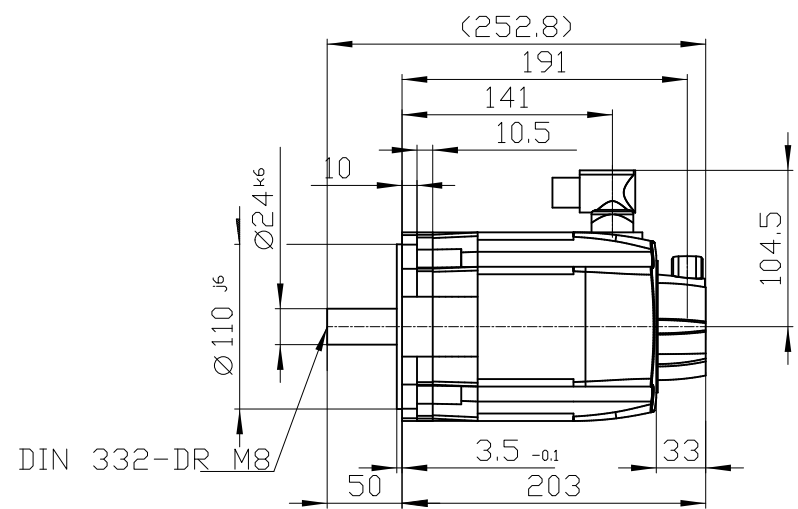
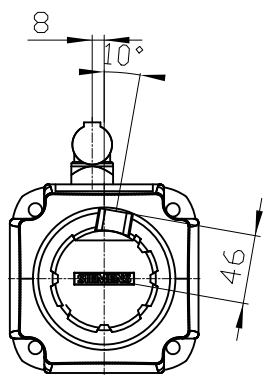
Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	6	Motor type	High Dynamic
Rated torque (100 K)	4.3 Nm	Shaft height	63
Rated current	6.2 A	Cooling	Natural cooling
Static torque (60 K)	5.30 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	6.40 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	7.10 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	8.70 A	Vibration severity grade	Grade A
Moment of inertia	4.100 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	0.73 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	47.0 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	10.7 mH	Holding brake	without holding brake
Electrical time constant	30.50 ms	Shaft end	Plain shaft
Mechanical time constant	0.79 ms	Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits
Thermal time constant	45 min		
Shaft torsional stiffness	36500 Nm/rad		
Net weight of the motor	9.5 kg		

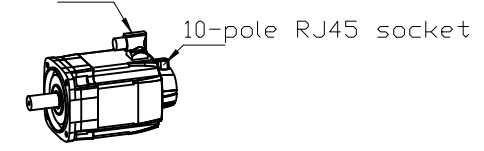


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Optimum operating point		Recommended Motor Module	
Optimum speed	4500 rpm	Rated inverter current	9 A
Optimum power	2.0 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	17.30 Nm
Max. permissible speed (mech.)	7500 rpm		
Max. permissible speed (inverter)	7500 rpm		
Maximum torque	17.3 Nm		
Maximum current	26.5 A		



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



Unit	mm [in]	1FK7061-4CH71-1QG0	
Date	3/24/23		
SIEMENS AG			
		DT	