

Data sheet for SIMOTICS S-1FK7



MLFB-Ordering data 1FK7062-2AC71-1QA0

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

Item no. :
Consignment no. :
Project :

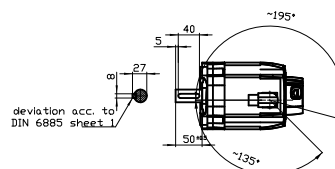
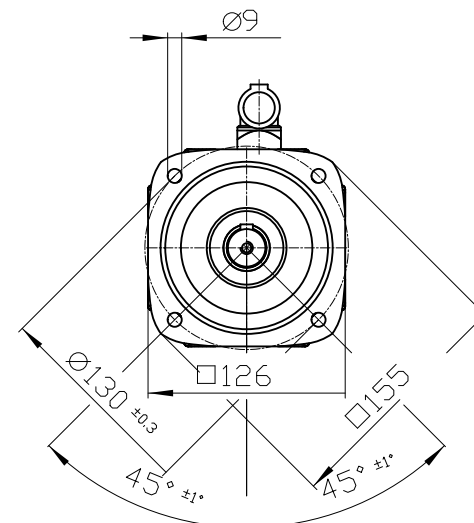
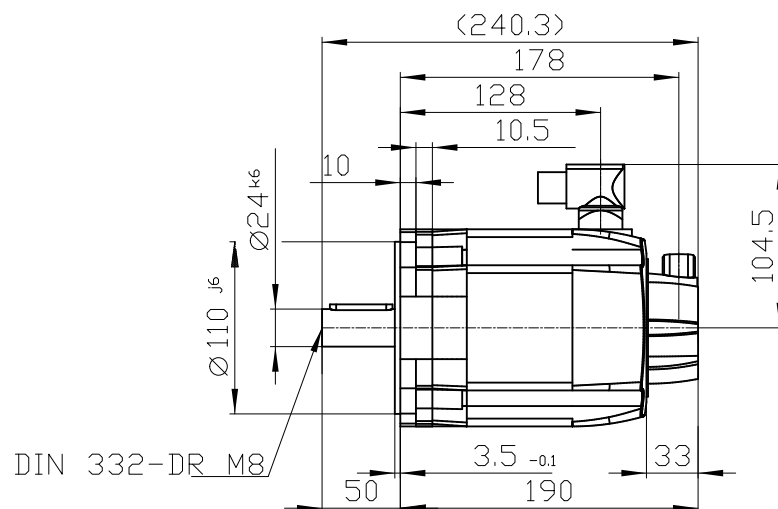
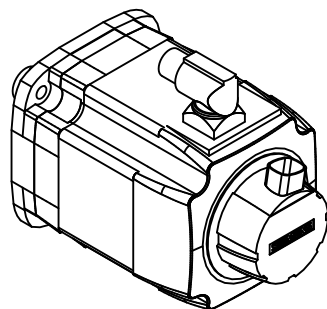
Engineering data		Mechanical data	
Rated speed (100 K)	2000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	7.0 Nm	Shaft height	63
Rated current	2.6 A	Cooling	Natural cooling
Static torque (60 K)	7.10 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	8.50 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	2.45 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	3.00 A	Vibration severity grade	Grade A
Moment of inertia	11.200 kgcm ²	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	2.83 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	180.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	3.59 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	45.5 mH	Holding brake	without holding brake
Electrical time constant	12.70 ms	Shaft end	Feather key
Mechanical time constant	1.51 ms	Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits
Thermal time constant	35 min		
Shaft torsional stiffness	37000 Nm/rad		
Net weight of the motor	9.1 kg		



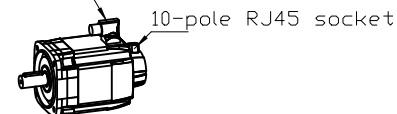
Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	3 A
Optimum power	1.5 kW	Maximum inverter current	9 A
Limiting data		Maximum torque	22.90 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	3200 rpm		
Maximum torque	26.0 Nm		
Maximum current	10.9 A		



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



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Unit		mm [in]
Date		7/31/23
SIEMENS AG		1FK7062-2AC71-1QA0
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