

Data sheet for SIMOTICS S-1FK7



Figure similar

MLFB-Ordering data

1FK7043-4CK71-1RA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data	
Rated speed (100 K)	6000 rpm
Number of poles	6
Rated torque (100 K)	2.0 Nm
Rated current	3.5 A
Static torque (60 K)	2.90 Nm
Static torque (100 K)	3.50 Nm
Stall current (60 K)	4.50 A
Stall current (100 K)	5.60 A
Moment of inertia	1.000 kgcm²
Efficiency	90.0 %
Physical constants	
Torque constant	0.63 Nm/A
Voltage constant at 20° C	39.8 V/1000*min ⁻¹
Winding resistance at 20° C	0.65 Ω
Rotating field inductance	7.4 mH
Electrical time constant	11.50 ms
Mechanical time constant	0.49 ms
Thermal time constant	40 min
Shaft torsional stiffness	11400 Nm/rad
Net weight of the motor	6.0 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	48
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP64
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	without holding brake
Shaft end	Feather key
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)



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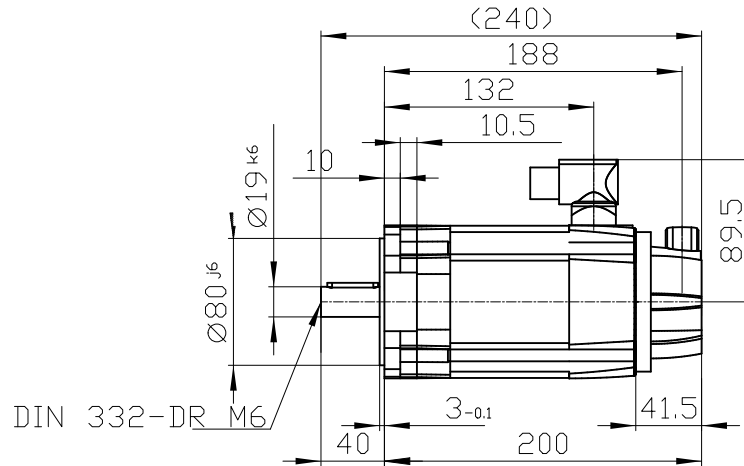
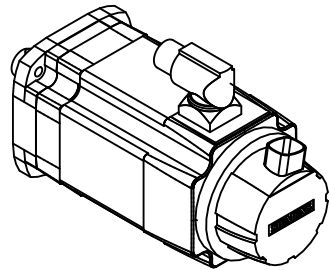
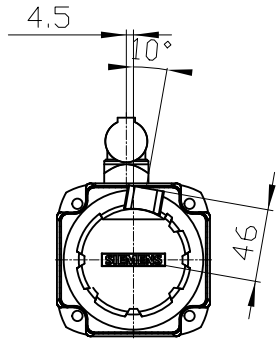
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	9 A
Optimum power	1.3 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	10.00 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	9000 rpm		
Maximum torque	10.0 Nm		
Maximum current	17.0 A		

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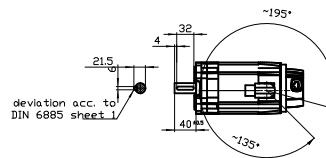
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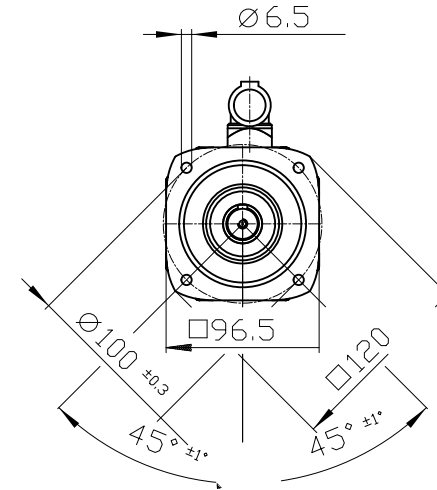
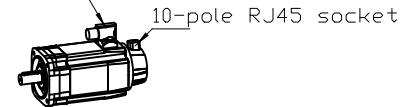


DIN 332-DR M6



deviation acc. to
DIN 6885 sheet 1

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



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Unit	mm [in]	1FK7043-4CK71-1RA0
Date	3/14/23	
SIEMENS AG		-
-		DT