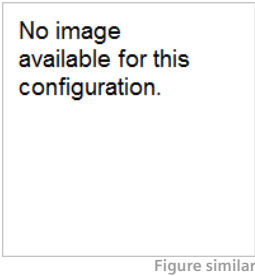


Data sheet for SIMOTICS S-1FK7

MLFB-Ordering data1FK7040-5AK71-1SA0



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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	6000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	1.1 Nm	Shaft height	48
Rated current	1.7 A	Cooling	Natural cooling
Static torque (60 K)	1.30 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	1.60 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.25 A	Vibration severity grade	Grade A
Moment of inertia	1.690 kgcm²	Connector size	1
Efficiency	88.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.68 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	43.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	3.30 Ω	Color of the housing	without
Rotating field inductance	17.0 mH	Holding brake	without holding brake
Electrical time constant	5.15 ms	Shaft end	Feather key
Mechanical time constant	3.62 ms	Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)
Thermal time constant	25 min		
Shaft torsional stiffness	19000 Nm/rad		
Net weight of the motor	3.5 kg		

MLFB-Ordering data 1FK7040-5AK71-1SA0

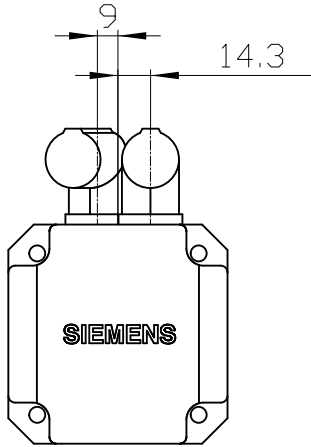
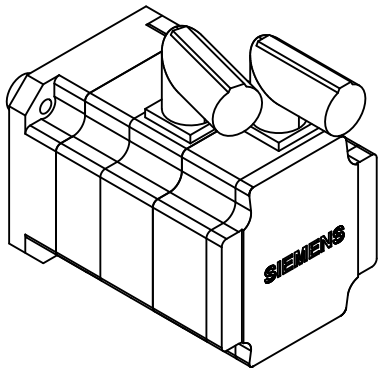
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.7 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	4.10 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	9990 rpm		
Maximum torque	5.1 Nm		
Maximum current	7.7 A		

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Cod-drawing do not make any manual changes

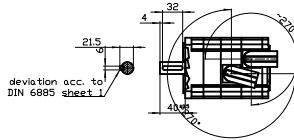
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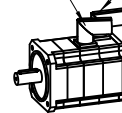
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DIN 332-DR M6



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



Connector size M23, 12-pole

	-	
	-	
Unit	mm [in]	1FK7040-5AK71-1SA0
Date	2/3/23	
SIEMENS AG		-
-		DT

