

Data sheet for SIMOTICS S-1FK7

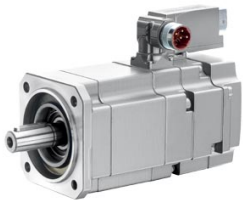


Figure similar

MLFB-Ordering data 1FK7015-5AK74-1JB3

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)	0.2 Nm	Shaft height	20
Rated current	0.8 A	Cooling	Natural cooling
Static torque (60 K)	0.29 Nm	Radial runout tolerance	-/-
Static torque (100 K)	0.35 Nm	Concentricity tolerance	-/-
Stall current (60 K)	1.20 A	Axial runout tolerance	-/-
Stall current (100 K)	1.50 A	Vibration severity grade	Grade A
Moment of inertia	0.102 kgcm²	Connector size	0.5
Efficiency	68.0 %	Degree of protection	IP54
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.24 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	16.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	4.30 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	8.4 mH	Holding brake	with holding brake
Electrical time constant	2.00 ms	Shaft end	Feather key
Mechanical time constant	1.90 ms	Encoder system	Encoder AM16S/R: absolute encoder 16 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	16 min		
Shaft torsional stiffness	1300 Nm/rad		
Net weight of the motor	1.2 kg		

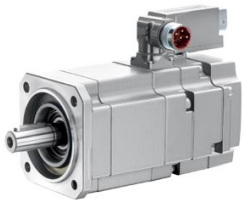


Figure similar

MLFB-Ordering data 1FK7015-5AK74-1JB3

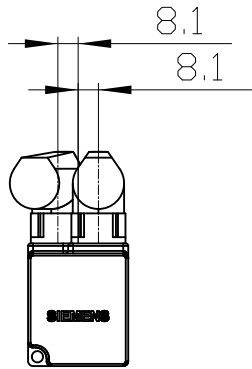
Optimum operating point		Recommended Motor Module	
Optimum speed	5000 rpm	Rated inverter current	3 A
Optimum power	0.1 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	1.00 Nm
Max. permissible speed (mech.)	8000 rpm		
Max. permissible speed (inverter)	8000 rpm		
Maximum torque	1.0 Nm		
Maximum current	4.2 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	0.4 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.3 A		
Opening time	30 ms		
Closing time	20 ms		
Highest braking work	2 J		

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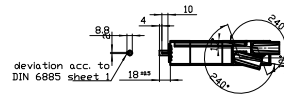
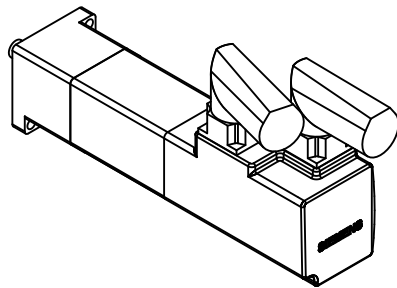
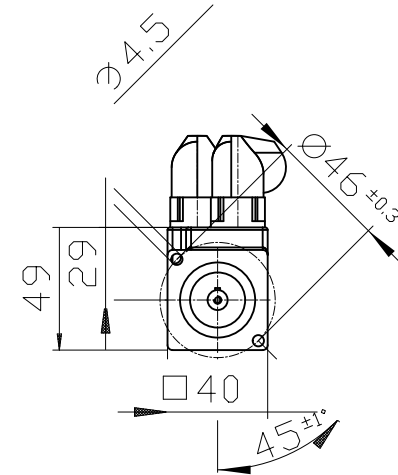
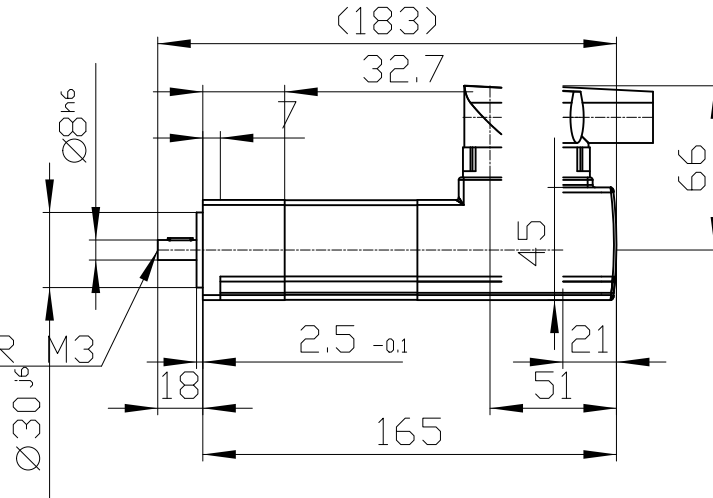
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DIN 332-DR



deviation acc. to
DIN 6885 sheet 1

Connector size 0,5 = M17;
7-pole for power and brake

Connector size M17, 17-pole

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	-	
Unit	mm [in]	1FK7015-5AK74-1JB3
Date	7/31/23	
SIEMENS AG		-
-		DT