

Data sheet for SIMOTICS S-1FK7

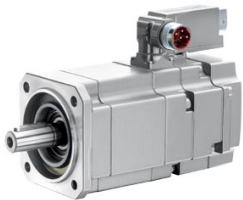


Figure similar

MLFB-Ordering data 1FK7022-5AK71-1HA2

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	6	Motor type	Compact
Rated torque (100 K)	0.6 Nm	Shaft height	28
Rated current	1.4 A	Cooling	Natural cooling
Static torque (60 K)	0.70 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	0.85 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.50 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	1.80 A	Vibration severity grade	Grade A
Moment of inertia	0.280 kgcm²	Connector size	1
Efficiency	86.0 %	Degree of protection	IP65 and DE flange IP67
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.46 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	29.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	4.20 Ω	Color of the housing	without
Rotating field inductance	9.1 mH	Holding brake	without holding brake
Electrical time constant	2.20 ms	Shaft end	Feather key
Mechanical time constant	1.70 ms	Encoder system	Encoder AM512S/R: absolute encoder 512 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	18 min		
Shaft torsional stiffness	3000 Nm/rad		
Net weight of the motor	1.8 kg		

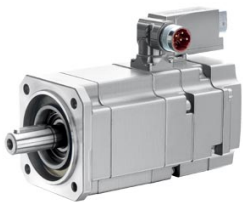
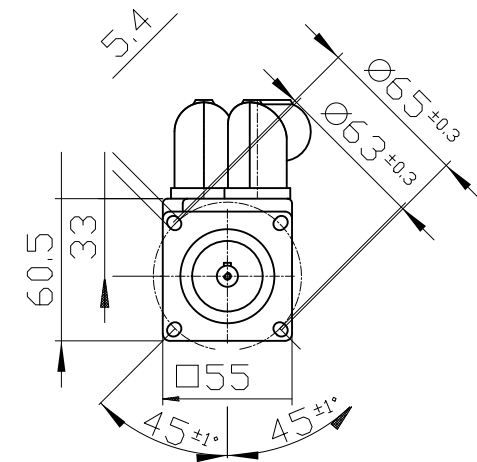
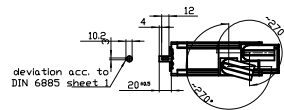
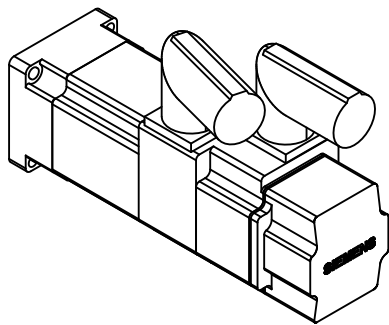


Figure similar

MLFB-Ordering data 1FK7022-5AK71-1HA2

Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.4 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	2.65 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	10000 rpm		
Maximum torque	3.4 Nm		
Maximum current	8.0 A		

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Connector size M23, 17-pole

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Unit	mm [in]	1FK7022-5AK71-1HA2
Date	12/16/22	
SIEMENS AG		-
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