



Figure similar

MLFB-Ordering data

1FK7022-5AK71-1JG0

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)	0.8 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 kgcm ²	Connector size	1
Efficiency	86.0 %	Degree of protection	IP64
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 extension	Plain shaft
Mechanical time constant	1.70 ms	Encoder system	Encoder AM16S/R: absolute encoder 16 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		



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Optimum operating point

Optimum speed	6000 rpm
Optimum power	0.4 kW

Limiting data

Max. permissible speed (mech.)	10000 rpm
Max. permissible speed (inverter)	10000 rpm
Maximum torque	3.4 Nm
Maximum current	8.0 A

Recommended Motor Module

Rated inverter current	3 A
Maximum inverter current	6 A
Maximum torque	2.65 Nm