



Figure similar

MLFB-Ordering data

1FK7100-2AC71-1UA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	2000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	14.5 Nm	Shaft height	100		
Rated current	7.1 A	Cooling	Natural cooling		
Static torque (60 K)	14.90 Nm	Radial runout tolerance	0.050 mm		
Static torque (100 K)	18.0 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	6.80 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	8.40 A	Vibration severity grade	Grade A		
Moment of inertia	54.000 kgcm ²	Connector size	1		
Efficiency	92.0 %	Degree of protection	IP64		
<th colspan="2">Physical constants</th>		Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Torque constant	2.14 Nm/A	Temperature monitoring	Pt1000 temperature sensor
		Voltage constant at 20° C	138.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	0.55 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	12.7 mH	Holding brake	without holding brake
		Electrical time constant	23.00 ms	Shaft extension	Feather key
		Mechanical time constant	1.95 ms	Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)
		Thermal time constant	55 min		
		Shaft torsional stiffness	183000 Nm/rad		
		Net weight of the motor	17.6 kg		



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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	9 A
Optimum power	3.0 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	53.40 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	4200 rpm		
Maximum torque	55.0 Nm		
Maximum current	28.0 A		