



Figure similar

MLFB-Ordering data 1FK7044-4CH71-1UG2

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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	6	Motor type	High Dynamic
Rated torque (100 K)	3.0 Nm	Shaft height	48
Rated current	3.9 A	Cooling	Natural cooling
Static torque (60 K)	3.75 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	4.5 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	4.35 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	5.40 A	Vibration severity grade	Grade A
Moment of inertia	1.260 kgcm²	Connector size	1
Efficiency	91.0 %	Degree of protection	IP65 and DE flange IP67
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.83 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	53.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.81 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	10.2 mH	Holding brake	without holding brake
Electrical time constant	12.50 ms	Shaft extension	Plain shaft
Mechanical time constant	0.44 ms	Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)
Thermal time constant	45 min		
Shaft torsional stiffness	9800 Nm/rad		
Net weight of the motor	7.4 kg		



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Optimum operating point		Recommended Motor Module	
Optimum speed	4500 rpm	Rated inverter current	9 A
Optimum power	1.4 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	13.00 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	9000 rpm		
Maximum torque	13.0 Nm		
Maximum current	16.4 A		