



MLFB-Ordering data 1FK7101-2AC74-1TA1

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)	20.5 Nm	Shaft height	100
Rated current	9.7 A	Cooling	Natural cooling
Static torque (60 K)	22.50 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	27.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	10.00 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	12.30 A	Vibration severity grade	Grade A
Moment of inertia	79.000 kgcm²	Connector size	1.5
Efficiency	93.0 %	Degree of protection	IP65
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	2.15 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	144.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.34 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	8.5 mH	Holding brake	without holding brake
Electrical time constant	25.00 ms	Shaft end	Feather key
Mechanical time constant	1.62 ms	Encoder system	Resolver 2-pole
Thermal time constant	60 min		
Shaft torsional stiffness	164000 Nm/rad		
Net weight of the motor	23.0 kg		



Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	18 A
Optimum power	4.3 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	80.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	4000 rpm		
Maximum torque	80.0 Nm		
Maximum current	40.5 A		