



Figure similar

MLFB-Ordering data 1FK7040-2AK71-1CH1-Z
J09

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	8	Motor type	Compact
Rated torque (100 K)	1.1 Nm	Shaft height	48
Rated current	1.9 A	Cooling	Natural cooling
Static torque (60 K)	1.30 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	1.60 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.90 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.35 A	Vibration severity grade	Grade A
Moment of inertia	2.460 kgcm²	Connector size	1
Physical constants		Degree of protection	IP65
Torque constant	0.68 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	43.4 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	2.87 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	16.5 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	5.70 ms	Holding brake	with holding brake
Mechanical time constant	3.00 ms	Shaft end	Plain shaft
Thermal time constant	25 min	Encoder system	Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Shaft torsional stiffness	13000 Nm/rad		
Net weight of the motor	7.8 kg		
Recommended Motor Module			
Rated inverter current	3 A		
Maximum inverter current	9 A		
Maximum torque	5.10 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	0.540 kgcm²
Designation	SP 075S-MF1	Radial output shaft loading, max.	4200 N
Gearbox shaft end	With feather key	Axial output shaft load, max.	3350 N
Gear ratio + steps	10 (1-step)	Efficiency of gearbox	0.97
Motor speed S3-60 %	7500 rpm	Torsional backlash	4 '
Motor speed S1	3100 rpm	Gearbox weight	3.90 kg
Output torque S1	81 Nm		

Rated output torque at duty type S3-60 % 114 Nm

Limiting data	
Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	9000 rpm
Maximum torque	5.1 Nm
Maximum current	7.7 A

Holding brake	
Holding brake version	Permanent-magnet brake
Holding torque	4.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.5 A
Opening time	70 ms
Closing time	30 ms
Highest braking work	150 J

Special design	
J09	Mounting of SP+ planetary gearbox