



Figure similar

MLFB-Ordering data

1FK7040-2AK71-1RG1-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	1.7 A	Cooling	Natural cooling		
Static torque (60 K)	1.30 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	1.6 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	2.140 kgcm ²	Connector size	1		
Physical constants		Degree of protection	IP65		
		Design acc. to Code I	IM B5 (IM V1, IM V3)		
		Temperature monitoring	Pt1000 temperature sensor		
		Electrical connectors	Connectors for signals and power rotatable		
		Color of the housing	Standard (Anthracite RAL 7016)		
		Holding brake	without holding brake		
		Shaft extension	Plain shaft		
		Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)		
		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 kgcm ²
Designation	SP 075S-MF1	Radial output shaft loading, max.	4000 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 %	6000 rpm	Torsional backlash	4 '
Motor speed S1	3100 rpm	Gearbox weight	3.90 kg
Output torque S1	52 Nm		
Rated output torque at duty type S3-60 %	90 Nm		

Special design

J09 Mounting of SP+ planetary gearbox

Limiting data

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