



Figure similar

MLFB-Ordering data

1FK7042-2AF71-1DH1-Z
J23

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	2.6 Nm	Shaft height	48
Rated current	2.0 A	Cooling	Natural cooling
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.0 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.20 A	Vibration severity grade	Grade A
Moment of inertia	3.880 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	with holding brake
		Shaft extension	Plain shaft
		Encoder system	Encoder IC22DQ: incremental encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + commutation position 11 bits
		Recommended Motor Module	
Rated inverter current	3 A		
Maximum inverter current	9 A		
Maximum torque	10.50 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	0.680 kgcm²
Designation	SP 075S-MF1	Radial output shaft loading, max.	4200 N
Gearbox shaft end	Without feather key	Axial output shaft load, max.	3350 N
Gear ratio + steps	5 (1-step)	Efficiency of gearbox	0.97
Motor speed S3-60 %	7500 rpm	Torsional backlash	4 '
Motor speed S1	2900 rpm	Gearbox weight	3.90 kg
Output torque S1	81 Nm		
Rated output torque at duty type S3-60 %	132 Nm		

Limiting data	
Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	6400 rpm
Maximum torque	10.5 Nm
Maximum current	7.6 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	
J23	Mounting of SP+ planetary gearbox