



Figure similar

MLFB-Ordering data

1FK7064-4CF71-1RG1-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	6	Motor type	High Dynamic		
Rated torque (100 K)	8.0 Nm	Shaft height	63		
Rated current	7.6 A	Cooling	Natural cooling		
Static torque (60 K)	10.00 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	12.0 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	8.70 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	10.80 A	Vibration severity grade	Grade A		
Moment of inertia	10.110 kgcm ²	Connector size	1		
Physical constants		Degree of protection	IP65		
		Torque constant	1.11 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Voltage constant at 20° C	70.5 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
		Winding resistance at 20° C	0.35 Ω	Electrical connectors	Connectors for signals and power rotatable
		Rotating field inductance	12.0 mH	Color of the housing	Standard (Anthracite RAL 7016)
		Electrical time constant	34.50 ms	Holding brake	without holding brake
		Mechanical time constant	0.64 ms	Shaft end	Plain shaft
		Thermal time constant	55 min	Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
		Shaft torsional stiffness	29500 Nm/rad		
		Net weight of the motor	23.1 kg		
Recommended Motor Module					
		Rated inverter current	18 A		
		Maximum inverter current	54 A		
Maximum torque	32.00 Nm				



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Gearbox data

Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	2.610 kgcm ²
Designation	SP 100S-MF1	Radial output shaft loading, max.	6600 N
Gearbox shaft end	Without feather key	Axial output shaft load, max.	5650 N
Gear ratio + steps	5 (1-step)	Efficiency of gearbox	0.97
Motor speed S3-60 %	5500 rpm	Torsional backlash	3 '
Motor speed S1	2500 rpm	Gearbox weight	7.70 kg
Output torque S1	169 Nm		
Rated output torque at duty type S3-60 %	378 Nm		

Special design

J23 Mounting of SP+ planetary gearbox

Limiting data

Max. permissible speed (mech.)	7500 rpm
Max. permissible speed (inverter)	7500 rpm
Maximum torque	32.0 Nm
Maximum current	33.0 A