



Figure similar

MLFB-Ordering data

1FK7064-4CF71-1RH1-Z
J23

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K) 3000 rpm

Number of poles 6

Rated torque (100 K) 8.0 Nm

Rated current 7.6 A

Static torque (60 K) 10.00 Nm

Static torque (100 K) 12.0 Nm

Stall current (60 K) 8.70 A

Stall current (100 K) 10.80 A

Moment of inertia 11.110 kgcm²

Physical constants

Torque constant 1.11 Nm/A

Voltage constant at 20° C 70.5 V/1000*min⁻¹

Winding resistance at 20° C 0.35 Ω

Rotating field inductance 12.0 mH

Electrical time constant 34.50 ms

Mechanical time constant 0.64 ms

Thermal time constant 55 min

Shaft torsional stiffness 22500 Nm/rad

Net weight of the motor 24.5 kg

Recommended Motor Module

Rated inverter current 18 A

Maximum inverter current 54 A

Maximum torque 32.00 Nm

Mechanical data

Motor type Permanent-magnet synchronous motor

Motor type High Dynamic

Shaft height 63

Cooling Natural cooling

Radial runout tolerance 0.040 mm

Concentricity tolerance 0.10 mm

Axial runout tolerance 0.10 mm

Vibration severity grade Grade A

Connector size 1

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 end 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)



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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

Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	13.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.8 A
Opening time	100 ms
Closing time	50 ms
Highest braking work	380 J