



Figure similar

MLFB-Ordering data

1FK7060-2AF74-1SH1-Z
J17

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)	4.7 Nm	Shaft height	63		
Rated current	3.7 A	Cooling	Natural cooling		
Static torque (60 K)	5.00 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	6.00 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	3.60 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	4.45 A	Vibration severity grade	Grade A		
Moment of inertia	10.780 kgcm ²	Connector size	1		
Physical constants		Degree of protection	IP65		
		Torque constant	1.33 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Voltage constant at 20° C	85.5 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
		Winding resistance at 20° C	1.35 Ω	Electrical connectors	Connectors for signals and power rotatable
		Rotating field inductance	15.2 mH	Color of the housing	Standard (Anthracite RAL 7016)
		Electrical time constant	11.30 ms	Holding brake	with holding brake
		Mechanical time constant	1.71 ms	Shaft end	Plain shaft
		Thermal time constant	30 min	Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)
		Shaft torsional stiffness	28500 Nm/rad		
		Net weight of the motor	25.5 kg		
Recommended Motor Module					
		Rated inverter current	5 A		
		Maximum inverter current	15 A		
Maximum torque	18.00 Nm				



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Gearbox data

Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	2.080 kgcm ²
Designation	SP 140S-MF2	Radial output shaft loading, max.	9900 N
Gearbox shaft end	With feather key	Axial output shaft load, max.	9870 N
Gear ratio + steps	50 (2-step)	Efficiency of gearbox	0.94
Motor speed S3-60 %	6000 rpm	Torsional backlash	5 '
Motor speed S1	3200 rpm	Gearbox weight	17.00 kg
Output torque S1	536 Nm		
Rated output torque at duty type S3-60 %	670 Nm		

Special design

J17 Mounting of SP+ planetary gearbox

Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	6700 rpm
Maximum torque	18.0 Nm
Maximum current	15.0 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