



Figure similar

MLFB-Ordering data 1FK7084-2AF71-1RG1-Z
J09

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)	10.0 Nm	Shaft height	80
Rated current	6.5 A	Cooling	Natural cooling
Static torque (60 K)	16.60 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	20.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	9.80 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	12.10 A	Vibration severity grade	Grade A
Moment of inertia	40.940 kgcm²	Connector size	1
Physical constants		Degree of protection	IP65
Torque constant	1.66 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	106.5 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	0.28 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	5.9 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	21.00 ms	Holding brake	without holding brake
Mechanical time constant	1.01 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	93000 Nm/rad		
Net weight of the motor	35.5 kg		
Recommended Motor Module			
Rated inverter current	18 A		
Maximum inverter current	54 A		
Maximum torque	61.00 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	8.440 kgcm²
Designation	SP 140S-MF1	Radial output shaft loading, max.	9900 N
Gearbox shaft end	With feather key	Axial output shaft load, max.	9870 N
Gear ratio + steps	10 (1-step)	Efficiency of gearbox	0.97
Motor speed S3-60 %	5000 rpm	Torsional backlash	3 '
Motor speed S1	2600 rpm	Gearbox weight	17.20 kg
Output torque S1	327 Nm		

Rated output torque at duty type S3-60 % 636 Nm

Special design	
J09	Mounting of SP+ planetary gearbox

Limiting data	
Max. permissible speed (mech.)	6000 rpm
Max. permissible speed (inverter)	5400 rpm
Maximum torque	61.0 Nm
Maximum current	41.0 A