



Figure similar

MLFB-Ordering data 1FK7081-2AF71-1CG1-Z
J22

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)	8.7 Nm	Shaft height	80
Rated current	6.8 A	Cooling	Natural cooling
Static torque (60 K)	10.00 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	12.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	7.10 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	8.70 A	Vibration severity grade	Grade A
Moment of inertia	31.000 kgcm²	Connector size	1
Physical constants		Degree of protection	IP65
Torque constant	1.38 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	88.5 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	0.42 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	7.7 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	18.20 ms	Holding brake	without holding brake
Mechanical time constant	1.35 ms	Shaft end	Plain shaft
Thermal time constant	45 min	Encoder system	Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Shaft torsional stiffness	109000 Nm/rad		
Net weight of the motor	30.1 kg		
Recommended Motor Module			
Rated inverter current	9 A		
Maximum inverter current	27 A		
Maximum torque	34.10 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	11.000 kgcm²
Designation	SP 140S-MF1	Radial output shaft loading, max.	9900 N
Gearbox shaft end	Without feather key	Axial output shaft load, max.	9870 N
Gear ratio + steps	4 (1-step)	Efficiency of gearbox	0.97
Motor speed S3-60 %	5000 rpm	Torsional backlash	3 '
Motor speed S1	2100 rpm	Gearbox weight	17.20 kg
Output torque S1	335 Nm		

Rated output torque at duty type S3-60 % 792 Nm

Special design

J22 Mounting of SP+ planetary gearbox

Limiting data	
Max. permissible speed (mech.)	6000 rpm
Max. permissible speed (inverter)	6000 rpm
Maximum torque	37.0 Nm
Maximum current	30.0 A