



Figure similar

MLFB-Ordering data

1FK7101-5AF71-1AG5-Z
J12

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)	15.5 Nm	Shaft height	100
Rated current	11.8 A	Cooling	Natural cooling
Static torque (60 K)	22.40 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	27.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	15.70 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	19.00 A	Vibration severity grade	Grade A
Moment of inertia	93.400 kgcm ²	Connector size	1.5
Physical constants		Degree of protection	IP65 and DE flange IP67
		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Temperature monitoring	KTY84 temperature sensor in the stator winding
		Electrical connectors	Connectors for signals and power rotatable
		Color of the housing	Standard (Anthracite RAL 7016)
		Holding brake	without holding brake
		Shaft end	Plain shaft
		Encoder system	Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track
		Recommended Motor Module	
Rated inverter current	18 A	Recommended Motor Module	
Maximum inverter current	36 A		
Maximum torque	51.00 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	13.500 kgcm²
Designation	SP 180S-MF2	Radial output shaft loading, max.	15400 N
Gearbox shaft end	With feather key	Axial output shaft load, max.	15570 N
Gear ratio + steps	16 (2-step)	Efficiency of gearbox	0.94
Motor speed S3-60 %	5000 rpm	Torsional backlash	5 '
Motor speed S1	2700 rpm	Gearbox weight	36.40 kg
Output torque S1	1162 Nm		
Rated output torque at duty type S3-60 %	1462 Nm		

Limiting data	
Max. permissible speed (mech.)	5000 rpm
Max. permissible speed (inverter)	6400 rpm
Maximum torque	80.0 Nm
Maximum current	63.0 A

Special design	
J12	Mounting of SP+ planetary gearbox