



Figure similar

MLFB-Ordering data

1FK7062-3BF71-1CH1-Z  
J16

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data	
Rated speed (100 K)	3000 rpm
Number of poles	8
Rated torque (100 K)	6.0 Nm
Rated current	4.0 A
Static torque (60 K)	7.10 Nm
Static torque (100 K)	8.5 Nm
Stall current (60 K)	4.30 A
Stall current (100 K)	5.30 A
Moment of inertia	26.600 kgcm <sup>2</sup>

Physical constants	
Torque constant	1.60 Nm/A
Voltage constant at 20° C	102.5 V/1000*min <sup>-1</sup>
Winding resistance at 20° C	1.15 Ω
Rotating field inductance	14.6 mH
Electrical time constant	12.80 ms
Mechanical time constant	3.15 ms
Thermal time constant	35 min
Shaft torsional stiffness	25000 Nm/rad
Net weight of the motor	29.1 kg

Recommended Motor Module	
Rated inverter current	5 A
Maximum inverter current	15 A
Maximum torque	22.10 Nm

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Inertia
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 extension	Plain shaft
Encoder system	Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)



Figure similar

## MLFB-Ordering data

**1FK7062-3BF71-1CH1-Z**  
J16

### Gearbox data

Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	2.100 kgcm <sup>2</sup>
Designation	SP 140S-MF2	Radial output shaft loading, max.	9450 N
Gearbox shaft end	With feather key	Axial output shaft load, max.	9870 N
Gear ratio + steps	40 (2-step)	Efficiency of gearbox	0.94
Motor speed S3-60 %	4000 rpm	Torsional backlash	5 '
Motor speed S1	2900 rpm	Gearbox weight	17.00 kg
Output torque S1	360 Nm		
Rated output torque at duty type S3-60 %	600 Nm		

### Special design

J16 Mounting of SP+ planetary gearbox

### Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	5600 rpm
Maximum torque	26.0 Nm
Maximum current	19.2 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