



Figure similar

MLFB-Ordering data 1FK7042-2AF71-1RG1-Z
J29

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)	2.6 Nm	Shaft height	48
Rated current	2.0 A	Cooling	Natural cooling
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.00 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.20 A	Vibration severity grade	Grade A
Moment of inertia	3.440 kgcm ²	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	90.0 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	4.67 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	35.0 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	7.50 ms	Holding brake	without holding brake
Mechanical time constant	2.15 ms	Shaft end	Plain shaft
Thermal time constant	30 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	15500 Nm/rad		
Net weight of the motor	8.5 kg		
Recommended Motor Module			
Rated inverter current	3 A		
Maximum inverter current	9 A		
Maximum torque	10.50 Nm		



Figure similar

MLFB-Ordering data 1FK7042-2AF71-1RG1-Z
J29

Gearbox data			
Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	0.540 kgcm²
Designation	SP 075S-MF1	Radial output shaft loading, max.	4200 N
Gearbox shaft end	Without feather key	Axial output shaft load, max.	3350 N
Gear ratio + steps	10 (1-step)	Efficiency of gearbox	0.97
Motor speed S3-60 %	7500 rpm	Torsional backlash	4 '
Motor speed S1	3100 rpm	Gearbox weight	3.90 kg
Output torque S1	81 Nm		

Rated output torque at duty type S3-60 % 114 Nm

Special design

J29 Mounting of SP+ planetary gearbox

Limiting data	
Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	6400 rpm
Maximum torque	10.5 Nm
Maximum current	7.6 A