

MLFB-Ordering data

1FK7101-5AF71-1EV5-Z
B88+G63+H11



Figure similar

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	92.300 kgcm ²	Connector size	1.5
Physical constants		Degree of protection	IP65 and DE flange IP67
Torque constant	1.41 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	KTY84 temperature sensor in the stator winding
Winding resistance at 20° C	0.15 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	3.0 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	20.00 ms	Holding brake	with holding brake
Mechanical time constant	1.80 ms	Shaft end	Fitted key and keyway
Thermal time constant	60 min	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Shaft torsional stiffness	165000 Nm/rad		
Net weight of the motor	192.5 kg		
Recommended Motor Module			
Rated inverter current	18 A		
Maximum inverter current	36 A		
Maximum torque	51.00 Nm		



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Gearbox data			
Gearbox type	Bevel geared	Overload factor	2.80
Designation	K813	Type of construction	no value
Gearbox ratio	65	Mounting position	EL 1
Output speed at the gearbox shaft	46 rpm	Connector position	Connector position on gearbox side 2, top
Rated output torque at duty type S3-60 %	969 Nm	Type	Foot-mounted and tapped hole group
Acceleration torque max.	4650 Nm	Gearbox shaft end	Hollow shaft with keyway
Power at duty type S3-60%	4.67 kW	Gearbox output arrangement	Insertion side 4
Radial output shaft loading, max.	21991 N	Arrangement of shrink disk	no value
Precise ratio	188387/2880		

Limiting data	
Max. permissible speed (mech.)	5000 rpm

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

Holding brake	
Holding brake version	Permanent-magnet brake
Holding torque	41.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	1.0 A
Opening time	300 ms
Closing time	70 ms
Highest braking work	3000 J

Special design	
B88	Bevel geared motors
G63	Foot-mounted and tapped hole group, Hollow shaft with keyway (Plug-in gearbox side 4)
H11	Connector position on gearbox side 2, top