

MLFB-Ordering data

1FK7060-5AF71-1UU5-Z
D15+G11+H21



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)	4.7 Nm	Shaft height	63
Rated current	3.7 A	Cooling	Natural cooling
Static torque (60 K)	5.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	6.0 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	3.70 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	4.50 A	Vibration severity grade	Grade A
Moment of inertia	7.950 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP65 and DE flange IP67
Torque constant	1.33 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	84.5 V/1000*min ⁻¹	Temperature monitoring	KTY84 temperature sensor in the stator winding
Winding resistance at 20° C	1.44 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	14.7 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	10.20 ms	Holding brake	without holding brake
Mechanical time constant	1.94 ms	Shaft end	Fitted key and keyway
Thermal time constant	30 min	Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)
Shaft torsional stiffness	42000 Nm/rad		
Net weight of the motor	25.3 kg		
Recommended Motor Module			
Rated inverter current	5 A		
Maximum inverter current	10 A		
Maximum torque	13.20 Nm		



Figure similar

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Gearbox data			
Gearbox type	Helical geared	Overload factor	1.00
Designation	C102	Type of construction	IM B7
Gearbox ratio	25	Mounting position	no value
Output speed at the gearbox shaft	128 rpm	Connector position	Connector position on gearbox side 2, top
Rated output torque at duty type S3-60 %	107 Nm	Type	Foot-mounted
Acceleration torque max.	138 Nm	Gearbox shaft end	Solid shaft with fitted key
Power at duty type S3-60%	1.43 kW	Gearbox output arrangement	no value
Radial output shaft loading, max.	1456 N	Arrangement of shrink disk	no value
Precise ratio	1035/44		

Limiting data	
Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	6800 rpm
Maximum torque	18.0 Nm
Maximum current	15.0 A

Special design	
D15	Helical geared motors
G11	Foot-mounted, Solid shaft with fitted key (Gearbox side 4)
H21	Connector position on gearbox side 2, top