

MLFB-Ordering data

1FK7100-5AF71-1EU5-Z
D67+G11+H12



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)	12.0 Nm	Shaft height	100
Rated current	8.0 A	Cooling	Natural cooling
Static torque (60 K)	15.00 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	18.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	9.20 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	11.20 A	Vibration severity grade	Grade A
Moment of inertia	55.300 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP65 and DE flange IP67
Torque constant	1.59 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	101.0 V/1000*min ⁻¹	Temperature monitoring	KTY84 temperature sensor in the stator winding
Winding resistance at 20° C	0.34 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	7.0 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	20.50 ms	Holding brake	without holding brake
Mechanical time constant	2.23 ms	Shaft end	Fitted key and keyway
Thermal time constant	55 min	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Shaft torsional stiffness	184000 Nm/rad		
Net weight of the motor	94.3 kg		
Recommended Motor Module			
Rated inverter current	18 A		
Maximum inverter current	36 A		
Maximum torque	53.80 Nm		



Figure similar

MLFB-Ordering data 1FK7100-5AF71-1EU5-Z
D67+G11+H12

Gearbox data			
Gearbox type	Helical geared	Overload factor	1.70
Designation	C612	Type of construction	IM B3 / IM B5 / IM B14 / IM B34 / IM B35
Gearbox ratio	45	Mounting position	no value
Output speed at the gearbox shaft	66 rpm	Connector position	Connector position on gearbox side 4, right
Rated output torque at duty type S3-60 %	528 Nm	Type	Foot-mounted
Acceleration torque max.	1380 Nm	Gearbox shaft end	Solid shaft with fitted key
Power at duty type S3-60%	3.65 kW	Gearbox output arrangement	no value
Radial output shaft loading, max.	1852 N	Arrangement of shrink disk	no value
Precise ratio	136/3		

Limiting data	
Max. permissible speed (mech.)	5000 rpm
Max. permissible speed (inverter)	5700 rpm
Maximum torque	55.0 Nm
Maximum current	37.0 A

Special design	
D67	Helical geared motors
G11	Foot-mounted, Solid shaft with fitted key (Gearbox side 4)
H12	Connector position on gearbox side 4, right