

MLFB-Ordering data

1FK7032-5AK71-1UU5-Z  
E05+G67+H63



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	6000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	6	Motor type	Compact		
Rated torque (100 K)	0.8 Nm	Shaft height	36		
Rated current	1.4 A	Cooling	Natural cooling		
Static torque (60 K)	0.85 Nm	Radial runout tolerance	0.035 mm		
Static torque (100 K)	1.10 Nm	Concentricity tolerance	0.08 mm		
Stall current (60 K)	1.40 A	Axial runout tolerance	0.08 mm		
Stall current (100 K)	1.70 A	Vibration severity grade	Grade A		
Moment of inertia	0.610 kgcm <sup>2</sup>	Connector size	1		
<b>Physical constants</b>		Degree of protection	IP65 and DE flange IP67		
		Torque constant	0.67 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Voltage constant at 20° C	45.0 V/1000*min <sup>-1</sup>	Temperature monitoring	KTY84 temperature sensor in the stator winding
		Winding resistance at 20° C	5.20 Ω	Electrical connectors	Connectors for signals and power rotatable
		Rotating field inductance	18.5 mH	Color of the housing	Standard (Anthracite RAL 7016)
		Electrical time constant	3.60 ms	Holding brake	without holding brake
		Mechanical time constant	2.20 ms	Shaft end	Fitted key and keyway
		Thermal time constant	25 min	Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)
		Shaft torsional stiffness	6500 Nm/rad		
		Net weight of the motor	9.3 kg		
<b>Recommended Motor Module</b>					
		Rated inverter current	3 A		
		Maximum inverter current	6 A		
Maximum torque	3.90 Nm				

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## Gearbox data

Gearbox type	Worm gear	Overload factor	3.30
Designation	S002	Type of construction	no value
Gearbox ratio	23	Mounting position	EL 6
Output speed at the gearbox shaft	128 rpm	Connector position	Connector position on gearbox side 1, below
Rated output torque at duty type S3-60 %	20 Nm	Type	Foot-mounted and tapped hole group
Acceleration torque max.	82 Nm	Gearbox shaft end	Hollow shaft with keyway
Power at duty type S3-60%	0.27 kW	Gearbox output arrangement	Insertion side 3
Radial output shaft loading, max.	2271 N	Arrangement of shrink disk	no value
Precise ratio	117/5		

## Limiting data

Max. permissible speed (mech.)	10000 rpm
Max. permissible speed (inverter)	12800 rpm
Maximum torque	4.5 Nm
Maximum current	7.0 A

## Special design

E05	Worm geared motors
G67	Foot-mounted and tapped hole group, Hollow shaft with keyway (Plug-in gearbox side 3)
H63	Connector position on gearbox side 1, below