

Article No. : 1FK7063-2AF71-1CB2



Figure similar

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

| Engineering data      |                          |
|-----------------------|--------------------------|
| Rated speed (100 K)   | 3,000 rpm                |
| Number of poles       | 8                        |
| Rated torque (100 K)  | 7.3 Nm                   |
| Rated current         | 5.6 A                    |
| Static torque (60 K)  | 9.10 Nm                  |
| Static torque (100 K) | 11.00 Nm                 |
| Stall current (60 K)  | 6.50 A                   |
| Stall current (100 K) | 8.00 A                   |
| Moment of inertia     | 15.700 kgcm <sup>2</sup> |
| Efficiency            | 91.0 %                   |

| Physical constants          |                               |
|-----------------------------|-------------------------------|
| Torque constant             | 1.37 Nm/A                     |
| Voltage constant at 20° C   | 90.5 V/1000*min <sup>-1</sup> |
| Winding resistance at 20° C | 0.64 Ω                        |
| Rotating field inductance   | 8.5 mH                        |
| Electrical time constant    | 13.40 ms                      |
| Mechanical time constant    | 1.48 ms                       |
| Thermal time constant       | 40 min                        |
| Shaft torsional stiffness   | 25,000 Nm/rad                 |
| Net weight of the motor     | 12.5 kg                       |

| Mechanical data          |   |
|--------------------------|---|
| Motor type               | Permanent-magnet synchronous motor  |
| Motor type               | Compact   |
| Shaft height             | 63  |
| Cooling                  | Natural cooling   |
| Radial runout tolerance  | 0.040 mm  |
| Concentricity tolerance  | 0.10 mm   |
| Axial runout tolerance   | 0.10 mm   |
| Vibration severity grade | Grade A   |
| Connector size           | 1   |
| Degree of protection     | IP65 and DE flange IP67   |
| Design acc. to Code I    | IM B5 (IM V1, IM V3)  |
| Temperature monitoring   | Pt1000 temperature sensor   |
| Electrical connectors    | Connectors for signals and power rotatable  |
| Color of the housing     | Standard (Anthracite RAL 7016)  |
| Holding brake            | with holding brake  |
| Shaft end                | Feather key   |
| Encoder system           | Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions) |

| Optimum operating point |           |
|-------------------------|-----------|
| Optimum speed           | 3,000 rpm |
| Optimum power           | 2.3 kW    |

| Limiting data                     |           |
|-----------------------------------|-----------|
| Max. permissible speed (mech.)    | 7,200 rpm |
| Max. permissible speed (inverter) | 6,400 rpm |
| Maximum torque                    | 35.0 Nm   |
| Maximum current                   | 28.0 A    |

| Holding brake         |                        |
|-----------------------|------------------------|
| Holding brake version | Permanent-magnet brake |
| Holding torque        | 13.0 Nm                |
| Power supply voltage  | DC 24 V ± 10 %         |
| Coil current          | 0.8 A                  |
| Opening time          | 100 ms                 |
| Closing time          | 50 ms                  |
| Highest braking work  | 380 J                  |

| Recommended Motor Module |          |
|--------------------------|----------|
| Rated inverter current   | 9 A      |
| Maximum inverter current | 27 A     |
| Maximum torque           | 34.00 Nm |