



Figure similar

Article No. : 1FK7063-2AC71-1UH2

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

Item no. :  
Consignment no. :  
Project :

### Engineering data

|                       |                          |
|-----------------------|--------------------------|
| Rated speed (100 K)   | 2,000 rpm                |
| Number of poles       | 8                        |
| Rated torque (100 K)  | 8.9 Nm                   |
| Rated current         | 4.4 A                    |
| Static torque (60 K)  | 9.10 Nm                  |
| Static torque (100 K) | 11.00 Nm                 |
| Stall current (60 K)  | 4.30 A                   |
| Stall current (100 K) | 5.30 A                   |
| Moment of inertia     | 15.700 kgcm <sup>2</sup> |
| Efficiency            | 91.0 %                   |

### Physical constants

|                             |                                |
|-----------------------------|--------------------------------|
| Torque constant             | 2.08 Nm/A                      |
| Voltage constant at 20° C   | 136.5 V/1000*min <sup>-1</sup> |
| Winding resistance at 20° C | 1.45 Ω                         |
| Rotating field inductance   | 19.4 mH                        |
| Electrical time constant    | 13.40 ms                       |
| Mechanical time constant    | 1.47 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                | Plain shaft  |
| Encoder system           | Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole) |

### Optimum operating point

|               |           |
|---------------|-----------|
| Optimum speed | 2,000 rpm |
| Optimum power | 1.9 kW    |

### Limiting data

|                                   |           |
|-----------------------------------|-----------|
| Max. permissible speed (mech.)    | 7,200 rpm |
| Max. permissible speed (inverter) | 4,200 rpm |
| Maximum torque                    | 35.0 Nm   |
| Maximum current                   | 18.5 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   | 5 A      |
| Maximum inverter current | 15 A     |
| Maximum torque           | 29.50 Nm |