



Figure similar

Article No. : 1FK7062-2AC71-1QA2

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)  | 7.0 Nm                   |
| Rated current         | 2.6 A                    |
| Static torque (60 K)  | 7.10 Nm                  |
| Static torque (100 K) | 8.50 Nm                  |
| Stall current (60 K)  | 2.45 A                   |
| Stall current (100 K) | 3.00 A                   |
| Moment of inertia     | 11.200 kgcm <sup>2</sup> |
| Efficiency            | 90.0 %                   |

### Physical constants

|                             |                                |
|-----------------------------|--------------------------------|
| Torque constant             | 2.83 Nm/A                      |
| Voltage constant at 20° C   | 180.5 V/1000*min <sup>-1</sup> |
| Winding resistance at 20° C | 3.59 Ω                         |
| Rotating field inductance   | 45.5 mH                        |
| Electrical time constant    | 12.70 ms                       |
| Mechanical time constant    | 1.51 ms                        |
| Thermal time constant       | 35 min                         |
| Shaft torsional stiffness   | 37,000 Nm/rad                  |
| Net weight of the motor     | 9.1 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            | without holding brake                                 |
| Shaft end                | Feather key   |
| Encoder system           | Encoder AS20DQI: absolute encoder single-turn 20 bits |

### Optimum operating point

|               |           |
|---------------|-----------|
| Optimum speed | 2,000 rpm |
| Optimum power | 1.5 kW    |

### Limiting data

|                                   |           |
|-----------------------------------|-----------|
| Max. permissible speed (mech.)    | 7,200 rpm |
| Max. permissible speed (inverter) | 3,200 rpm |
| Maximum torque                    | 26.0 Nm   |
| Maximum current                   | 10.9 A    |

### Recommended Motor Module

|                          |          |
|--------------------------|----------|
| Rated inverter current   | 3 A      |
| Maximum inverter current | 9 A      |
| Maximum torque           | 22.90 Nm |