

Article No. : 1FK7060-2AC71-1EA0

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

Item no. :  
Consignment no. :  
Project :

Figure similar

| Engineering data      |             |
|-----------------------|-------------|
| Rated speed (100 K)   | 2,000 rpm   |
| Number of poles       | 8           |
| Rated torque (100 K)  | 5.3 Nm      |
| Rated current         | 3.0 A       |
| Static torque (60 K)  | 5.00 Nm     |
| Static torque (100 K) | 6.00 Nm     |
| Stall current (60 K)  | 2.55 A      |
| Stall current (100 K) | 3.15 A      |
| Moment of inertia     | 7.700 kgcm² |
| Efficiency            | 90.0 %      |

| Physical constants          |                                |
|-----------------------------|--------------------------------|
| Torque constant             | 1.91 Nm/A                      |
| Voltage constant at 20° C   | 121.0 V/1000*min <sup>-1</sup> |
| Winding resistance at 20° C | 2.75 Ω                         |
| Rotating field inductance   | 30.5 mH                        |
| Electrical time constant    | 11.10 ms                       |
| Mechanical time constant    | 1.75 ms                        |
| Thermal time constant       | 30 min                         |
| Shaft torsional stiffness   | 40,500 Nm/rad                  |
| Net weight of the motor     | 7.1 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     | IP64                                                                                            |
| Design acc. to Code I    | IM B5 (IM V1, IM V3)                                                                            |
| Temperature monitoring   | KTY84 temperature sensor in the stator winding                                                  |
| 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 AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface |

| Optimum operating point |           |
|-------------------------|-----------|
| Optimum speed           | 2,000 rpm |
| Optimum power           | 1.1 kW    |

| Limiting data                     |           |
|-----------------------------------|-----------|
| Max. permissible speed (mech.)    | 7,200 rpm |
| Max. permissible speed (inverter) | 4,750 rpm |
| Maximum torque                    | 18.0 Nm   |
| Maximum current                   | 10.7 A    |

| Recommended Motor Module |          |
|--------------------------|----------|
| Rated inverter current   | 3 A      |
| Maximum inverter current | 9 A      |
| Maximum torque           | 15.90 Nm |