



Ordering data

1FK7060-5AH71-1FH0

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

Item no. :
Consignment no. :
Project :

| Engineering data | | Physical constants | |
|--------------------------|---|-----------------------------|-------------------------------|
| Rated speed | 4500 rpm | Torque constant | 0.95 Nm/A |
| Number of poles | 8 | Voltage constant at 20° C | 60.5 V/1000*min ⁻¹ |
| Rated torque (100 K) | 3.7 Nm | Winding resistance at 20° C | 0.73 Ω |
| Rated motor current | 4.1 A | Rotating field inductance | 7.0 mH |
| Static torque (60 K) | 5.00 Nm | Electrical time constant | 9.60 ms |
| Static torque (100 K) | 6.0 Nm | Mechanical time constant | 1.93 ms |
| Stall current (60 K) | 5.1 A | Thermal time constant | 30 min |
| Stall current (100 K) | 6.2 A | Shaft torsional stiffness | 42000 Nm/rad |
| Rotor moment of inertia | 0.0010200 kgm ² | Net weight of the motor | 8.0 kg |
| Efficiency | 90.0 % | | |
| Mechanical data | | Optimum operating point | |
| Motor type | Compact | Optimum speed | 4500 rpm |
| Shaft height | 63 mm | Optimum power | 1.7 kW |
| Encoder system | Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions) | | |
| Cooling | Natural cooling | | |
| Holding brake | Permanent-magnet brake instead of spring-loaded brake (only for | | |
| Shaft extension | Plain shaft | | |
| Radial runout tolerance | N | | |
| Vibration severity grade | Grade A | | |
| Connector size | 1 | | |
| Degree of protection | IP64 | | |
| Design acc. to Code I | IM B5 (IM V1, IM V3) | | |
| Electrical connectors | Connectors for signals and power rotatable | | |
| Color of the housing | Unpainted | | |
| | | Recommended motor module | |
| | | Rated inverter current | 9 A |
| | | Maximum inverter current | 18 A |
| | | Maximum torque | 16.80 Nm |