

3825ZWW

Outer Rotor Without Sensor

Applications: UAV, Aeromodelling, etc.

Characteristics

| | | | | |
|----|--|------------------|-----------------|--|
| | | | -1-14.8 | |
| 1 | Voltage | V | 14.8 | |
| 2 | Terminal resistance | Ω | 0.1 | |
| 3 | No-load speed | rpm | 10400 | |
| 4 | No-load current | A | 0.56 | |
| 5 | Nominal torque | mNm | 230 | |
| 6 | Nominal speed | rpm | 9200 | |
| 7 | Nominal current | A | 17.5 | |
| 8 | Max. output power | W | 221 | |
| 9 | Max. efficiency | % | 88 | |
| 10 | Back-EMF constant | mV/rpm | 1.42 | |
| 11 | Torque constant | mNm/A | 13.5 | |
| 12 | KV Value | rpm/V | 700 | |
| 13 | Speed/torque gradient | rpm/mNm | 5.2 | |
| 14 | Rotor inertia | gcm ² | 38 | |
| 15 | Weight | g | 72 | |
| 16 | Thermal resistance housing-ambient | K/W | 2.3 | |
| 17 | Thermal resistance winding-housing | K/W | 2.6 | |
| 18 | Thermal time constant motor | s | 280 | |
| 19 | Thermal time constant winding | s | 40 | |
| 20 | Operating temperature range | °C | -40~+100 | |
| 21 | Max. winding temperature | °C | 130 | |
| 22 | Axial play | mm | 0.012 | |
| 23 | Radial play | mm | 0.008 | |
| 24 | Axial load dynamic | N | 8 | |
| 25 | Axial load static | N | 110 | |
| 26 | Radial load at 3 mm from mounting face | N | 31 | |
| 27 | No. of pole pairs | | 7 | |
| 28 | Bearings | | 2 ball bearings | |
| 29 | Commutation | | Sensorless | |
| 30 | Protection class | | IP 20 | |

Options

- Lead wires length
- Shaft length
- Special coils
- Gearheads
- Bearing type
- Encoder
- Driver

Outline Drawing

