

BO3216NB2B | 外转子无传感器 Outer Rotor, Sensorless

应用领域：无人机云台、手持云台。

Applications: UAV gimbals and handheld gimbals.

主要技术指标 | Characteristics

| | | | 02-66-24.0 | 06-100-12.0 |
|----|-----------------|--|------------------|-------------------------|
| 1 | 电压 | Voltage | V | 24.0 |
| 2 | 端电阻 | Terminal resistance | Ω | 4.2 |
| 3 | 电感 | Terminal Inductance | mH | 1.34 |
| 4 | 空载转速 | No-load speed | rpm | 6600 |
| 5 | 空载电流 | No-load current | A | 0.1 |
| 6 | 堵转转矩 | Stall torque | mNm | 189.5 |
| 7 | 堵转电流 | Stall current | A | 5.7 |
| 8 | 额定转矩 | Nominal torque | mNm | 41.6 |
| 9 | 额定转速 | Nominal speed | rpm | 4520 |
| 10 | 额定电流 | Nominal current | A | 1.4 |
| 11 | 最大输出功率 | Max. output power | W | 32.7 |
| 12 | 最大效率 | Max. efficiency | % | 73 |
| 13 | 反电势常数 | Back-EMF constant | mV/rpm | 3.55 |
| 14 | 转矩常数 | Torque constant | mNm/A | 34 |
| 15 | 转速 / 转矩斜率 | Speed/torque gradient | rpm/mNm | 35 |
| 16 | 转子惯量 | Rotor inertia | gcm ² | 32 |
| 17 | 重量 | Weight | g | 56 |
| 18 | 热阻 (机壳 - 环境) | Thermal resistance housing-ambient | K/W | 3.8 |
| 19 | 热阻 (线圈 - 机壳) | Thermal resistance winding-housing | K/W | 4 |
| 20 | 热时常数 (电机) | Thermal time constant motor | s | 110 |
| 21 | 热时常数 (线圈) | Thermal time constant winding | s | 6.9 |
| 22 | 工作温度范围 | Operating temperature range | °C | -40~+120 |
| 23 | 绕组耐温等级 | Thermal class of winding | °C | 155 |
| 24 | 轴向间隙 | Axial play | mm | 0.08 |
| 25 | 径向间隙 | Radial play | mm | 0.006 |
| 26 | 动态轴向载荷 | Axial load dynamic | N | 5 |
| 27 | 静态轴向载荷 | Axial load static | N | 80 |
| 28 | 径向载荷 (距安装面 3mm) | Radial load at 3 mm from mounting face | N | 29 |
| 29 | 极对数 | No. of pole pairs | | 7 |
| 30 | 轴承 | Bearings | | 2 枚滚动轴承/2 ball bearings |
| 31 | 换向结构 | Commutation | | 无传感器/Sensorless |
| 32 | 防护等级 | Protection class | | IP 20 |

★可选参数 Options: 导线长度 Lead wires length 轴长 Shaft length 性能 Special coils 齿轮箱 Gearheads 轴承类型 Bearing type 霍尔传感器 Hall sensor

编码器 Encoder 驱动器 Driver

外观图 | Outline Drawing

