

BO3828N2B | 外转子无传感器 Outer Rotor, Sensorless

应用领域：医疗器械、工业设备等精密驱动领域。  
Applications: precision drives in medical equipment, industrial automation fields.

主要技术指标 | Characteristics

|    |                 |                                        |                  | 01-145-12.0 | 02-145-24.0             | 03-145-36.0 |
|----|-----------------|----------------------------------------|------------------|-------------|-------------------------|-------------|
| 1  | 电压              | Voltage                                | V                | 12.0        | 24.0                    | 36.0        |
| 2  | 端电阻             | Terminal resistance                    | Ω                | 0.38        | 1.55                    | 3.41        |
| 3  | 空载转速            | No-load speed                          | rpm              | 14500       | 14500                   | 14500       |
| 4  | 空载电流            | No-load current                        | A                | 0.33        | 0.17                    | 0.11        |
| 5  | 堵转转矩            | Stall torque                           | mNm              | 241         | 239                     | 245         |
| 6  | 堵转电流            | Stall current                          | A                | 31.3        | 15.5                    | 10.5        |
| 7  | 额定转矩            | Nominal torque                         | mNm              | 31.4        | 37.9                    | 38.9        |
| 8  | 额定转速            | Nominal speed                          | rpm              | 9730        | 10430                   | 9910        |
| 9  | 额定电流            | Nominal current                        | A                | 4.6         | 2.6                     | 1.9         |
| 10 | 最大输出功率          | Max. output power                      | W                | 92          | 91                      | 93          |
| 11 | 最大效率            | Max. efficiency                        | %                | 80.4        | 80.0                    | 81.0        |
| 12 | 反电势常数           | Back-EMF constant                      | mV/rpm           | 0.8         | 1.6                     | 2.5         |
| 13 | 转矩常数            | Torque constant                        | mNm/A            | 7.8         | 15.6                    | 23.4        |
| 14 | KV 值            | KV Value                               | rpm/V            | 1213        | 606                     | 403         |
| 15 | 转速 / 转矩斜率       | Speed/torque gradient                  | rpm/mNm          | 60.5        | 60.9                    | 59.3        |
| 16 | 转子惯量            | Rotor inertia                          | gcm <sup>2</sup> | 96          | 96                      | 96          |
| 17 | 重量              | Weight                                 | g                | 105         | 105                     | 105         |
| 18 | 热阻 (机壳 - 环境)    | Thermal resistance housing-ambient     | K/W              |             | 2.3                     |             |
| 19 | 热阻 (线圈 - 机壳)    | Thermal resistance winding-housing     | K/W              |             | 1.8                     |             |
| 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                |             | 35                      |             |
| 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               |             | 0.012                   |             |
| 25 | 径向间隙            | Radial play                            | mm               |             | 0.008                   |             |
| 26 | 动态轴向载荷          | Axial load dynamic                     | N                |             | 10                      |             |
| 27 | 静态轴向载荷          | Axial load static                      | N                |             | 110                     |             |
| 28 | 径向载荷 (距安装面 3mm) | Radial load at 3 mm from mounting face | N                |             | 42                      |             |
| 29 | 极对数             | No. of pole pairs                      |                  |             | 2                       |             |
| 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

