

0615N5M | 贵金属电刷 Precious Metal Commutation

应用领域：医疗、保健、汽车、机器人、工业自动化等精密驱动领域。  
Applications: precision drives in medical equipment and devices, healthcare products, automotive, robotics, and industrial automation.

主要技术指标 | Characteristics

|                    |                                        |                  | 01-122-3.0 | 02-185-3.0                | 03-295-6.0 |
|--------------------|----------------------------------------|------------------|------------|---------------------------|------------|
| 1 电压               | Voltage                                | V                | 3.0        | 3.0                       | 6.0        |
| 2 端电阻              | Terminal resistance                    | Ω                | 19.0       | 18.5                      | 10.1       |
| 3 空载转速             | No-load speed                          | rpm              | 12200      | 18500                     | 29500      |
| 4 空载电流             | No-load current                        | mA               | 10         | 18                        | 20         |
| 5 堵转转矩             | Stall torque                           | mNm              | 0.33       | 0.20                      | 1.07       |
| 6 堵转电流             | Stall current                          | mA               | 160        | 160                       | 590        |
| 7 额定转矩             | Nominal torque                         | mNm              | 0.10       | 0.05                      | 0.30       |
| 8 额定转速             | Nominal speed                          | rpm              | 8500       | 13770                     | 21230      |
| 9 额定电流             | Nominal current                        | mA               | 60         | 50                        | 180        |
| 10 最大输出功率          | Max. output power                      | W                | 0.11       | 0.09                      | 0.83       |
| 11 最大效率            | Max. efficiency                        | %                | 56         | 44                        | 67         |
| 12 反电势常数           | Back-EMF constant                      | mV/rpm           | 0.2        | 0.1                       | 0.2        |
| 13 转矩常数            | Torque constant                        | mNm/A            | 2.2        | 1.4                       | 1.9        |
| 14 转速 / 转矩斜率       | Speed/torque gradient                  | rpm/mNm          | 37000      | 94600                     | 27600      |
| 15 转子惯量            | Rotor inertia                          | gcm <sup>2</sup> | 0.015      | 0.015                     | 0.015      |
| 16 重量              | Weight                                 | g                | 2.5        | 2.5                       | 2.5        |
| 17 热阻 (机壳 - 环境)    | Thermal resistance housing-ambient     | K/W              |            | 75.83                     |            |
| 18 热阻 (线圈 - 机壳)    | Thermal resistance winding-housing     | K/W              |            | 42.08                     |            |
| 19 热时常数 (电机)       | Thermal time constant motor            | s                |            | 78                        |            |
| 20 热时常数 (线圈)       | Thermal time constant winding          | s                |            | 15                        |            |
| 21 工作温度范围          | Operating temperature range            | °C               |            | -20~+85                   |            |
| 22 绕组耐温等级          | Thermal class of winding               | °C               |            | 130                       |            |
| 23 轴向间隙            | Axial play                             | mm               |            | ≤0.3                      |            |
| 24 径向间隙            | Radial play                            | mm               |            | 0.012                     |            |
| 25 动态轴向载荷          | Axial load dynamic                     | N                |            | 0.15                      |            |
| 26 静态轴向载荷          | Axial load static                      | N                |            | 10                        |            |
| 27 径向载荷 (距安装面 3mm) | Radial load at 3 mm from mounting face | N                |            | 0.7                       |            |
| 28 极对数             | No. of pole pairs                      |                  |            | 1                         |            |
| 29 轴承              | Bearings                               |                  |            | 2 枚含油轴承/2 sleeve bearings |            |
| 30 换向结构            | Commutator                             |                  |            | 贵金属 5 相/metal 5 segments  |            |
| 31 防护等级            | Protection class                       |                  |            | IP 40                     |            |

★可选参数 Options: 导线长度 Lead wires length 轴长 Shaft length 性能 Special coils  
齿轮箱 Gearheads

外观图 | Outline Drawing

