

GBM2804H-100T Specifications Standard

Appearance requirements

| NO. | Project | Requirement |
|-----|------------------------------------|--|
| 1 | Motor diameter (mm) | $\Phi 35 \pm 0.05\text{mm}$ |
| 2 | Motor length (mm) | $15 \pm 0.2\text{mm}$ (without encoder) mm |
| 3 | Motor slot/pole number | 12N/14P |
| 4 | Axial outer diameter (mm) | $\Phi 7 - 0.008 / -0.012 \text{ mm}$ |
| 5 | Inner diameter of shaft (mm) | $5 + 0.05 / 0 \text{ mm}$ |
| 6 | wire length (mm) | $300 \pm 3 \text{ mm}$ |
| 7 | The color of the line | 28#black silicone terminal wire |
| 8 | weight (g) | $39 \pm 0.2\text{g}$ |
| 9 | plug | N/A |
| 10 | Axial clearance (virtual position) | 0 |
| | | |

Performance Requirement

| NO. | Project | | Requirement | |
|-----|--|----------------------------|---|---------------------------------|
| 1 | No-load | voltage (V) | 10V | |
| | | current (A) | $0.07 \pm 0.05 \text{ A}$ | |
| | | speed (RPM) | 1468~1622 RPM | |
| 2 | Load | voltage (V) | 10 | |
| | | current (A) | 0.8 | |
| | | torsion ($G \bullet cm$) | 250-350 | |
| 3 | Number of windings (T) | | 0.19*1-107T Y connection method | |
| 4 | Wired internal resistance of finished product (mΩ) | | 10Ω±5%(The resistance will change with the ambient temperature. If the resistance exceeds the standard range due to environmental changes, the standard should be signed again) | |
| 5 | high voltage test | | DC500V 1mA 2 Seconds | |
| 6 | The rotor housing jumps | | ≤0.1mm | |
| 7 | Translation (shaft extension view) | | Clockwise (unified test wiring) | |
| 8 | High temperature test | | 60°C Keep 100 hours, and the motor can work normally after 24 hours at room temperature | |
| 9 | Cold test | | -20°C Keep for 100 hours, and the motor can work normally after 24 hours at room temperature | |
| 10 | maximum power | | ≤25W | |
| 11 | Use voltage range | | 2-3S (calculated according to lithium battery 3.7-4.2V/S) | Constant power |
| 12 | service environment | | Temperature: -20~60°C, humidity: 10~90%RH | Normal temperature and humidity |