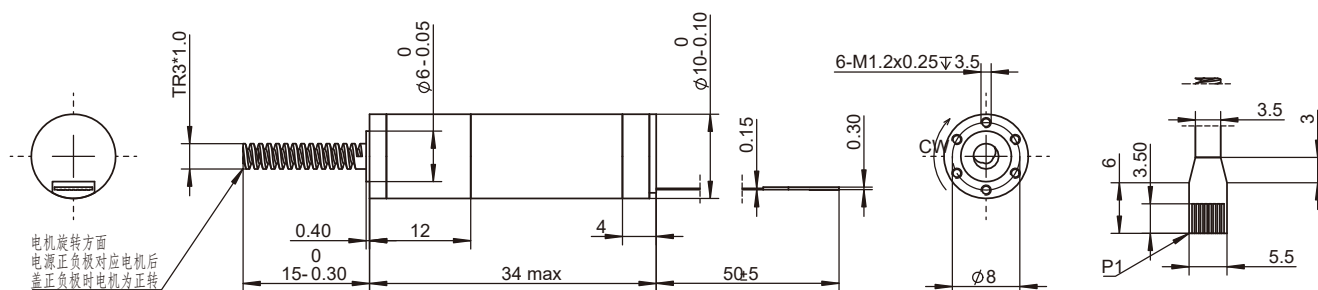


## 空心杯电枢绕组

### Φ10\*L18mm 有刷电机 Brush DC motor



DC MOTOR



#### 电机型号 Motor Model

GM10-DC1018M-BX

#### 电机参数 Motor Data

|                                |      |       |
|--------------------------------|------|-------|
| 1 额定电压 Nominal voltage         | V/DC | 12    |
| 2 额定转速 Nominal speed           | rpm  | 17050 |
| 3 额定电流 Nominal current         | A    | 0.63  |
| 4 额定转矩 Nominal torque          | mNm  | 2.41  |
| 5 空载转速 No-load speed           | rpm  | 27500 |
| 6 空载电流 No-load current         | mA   | 38    |
| 7 最大效率 Max. efficiency         | %    | 71.6  |
| 8 最大连续转矩 Max continuous torque | mNm  | 1.59  |
| 9 堵转电流 Stall current           | A    | 1.6   |
| 10 堵转转矩 Stall torque           | mNm  | 6.35  |

#### 电机常数 Motor Constants

|                                    |                  |        |
|------------------------------------|------------------|--------|
| 11 电机阻抗 Terminal resistance        | Ω                | 7.5    |
| 12 电机感抗 Terminal inductance        | mH               | 0.16   |
| 13 转矩常数 Torque constant            | mNm/A            | 4.07   |
| 14 转速常数 Speed constant             | rpm/V            | 2292   |
| 15 转数/转矩常数 Speed/torque constant   | rpm/mNm          | 4327.8 |
| 16 机械时间常数 Mechanical time constant | ms               | 20.4   |
| 17 转子惯量 Rotor inertia              | gcm <sup>2</sup> | 0.45   |

#### 其它 Others

|        |                      |    |     |
|--------|----------------------|----|-----|
| 18 极对数 | Number of pole pairs |    | 1   |
| 19 相数  | Number of phase      |    | 7   |
| 20 重量  | Weight of motor      | g  | 18  |
| 21 噪音  | Typical noise level  | dB | ≤50 |

#### 电机端子定义 Motor terminal definition

|    |             |     |
|----|-------------|-----|
| P1 | Motor +     | FPC |
| P2 | VCC 3.3V~5V | FPC |
| P3 | GND         | FPC |
| P4 | CS SSI      | FPC |
| P5 | CLK SSI     | FPC |
| P6 | DAT SSI     | FPC |
| P7 | NTC 10K     | FPC |
| P8 | Motor -     | FPC |

#### 电机特性曲线 (Motor Characteristics Curve)

