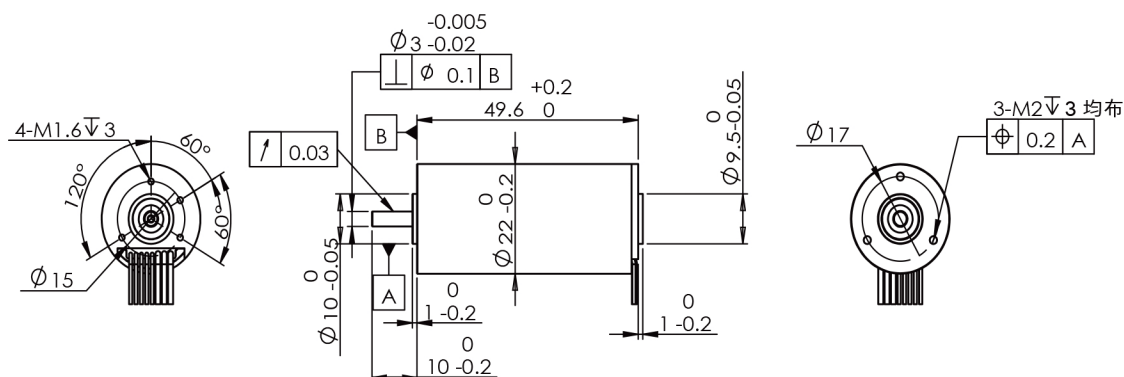




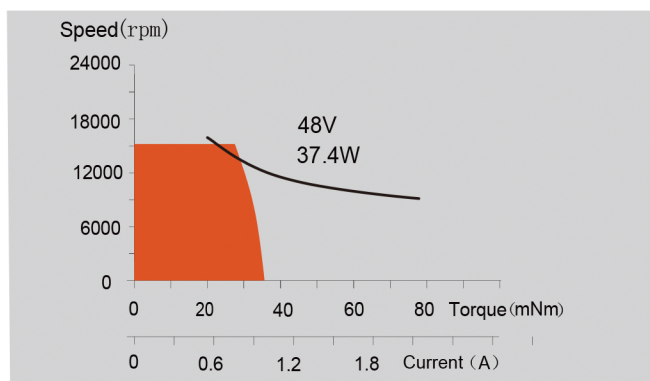
## Motor Data

|    | 电机型号  | Motor model           |           |                       | BR225012B | BR225018B | BR225024B | BR225036B | BR225048B |
|----|-------|-----------------------|-----------|-----------------------|-----------|-----------|-----------|-----------|-----------|
| 1  | 额定电压  | Nominal voltage       | V         | V                     | 12        | 18        | 24        | 36        | 48        |
| 2  | 空载转速  | No load speed         | rpm       | WnI                   | 14000     | 9770      | 14000     | 10000     | 13700     |
| 3  | 空载电流  | No load current       | mA        | InI                   | <300      | <300      | <300      | <300      | <300      |
| 4  | 额定转速  | Nominal speed         | rpm       | Wc                    | 11000     | 8240      | 12240     | 8700      | 12500     |
| 5  | 额定转矩  | Nominal torque        | mNm       | Tc                    | 20        | 26        | 26        | 27        | 25        |
| 6  | 额定电流  | Nominal current       | A         | Ic                    | 2.5       | 1.53      | 1.63      | 0.84      | 0.79      |
| 7  | 输出功率  | Output power          | W         | Pc                    | 23        | 22.4      | 33.3      | 24.7      | 32.8      |
| 8  | 堵转扭矩  | Stall torque          | mNm       | Tmax                  | 87.4      | 138.67    | 173.67    | 145.75    | 192.48    |
| 9  | 堵转电流  | Stall current         | A         | Imax                  | 10.9      | 8.18      | 10.91     | 4.54      | 6.05      |
| 10 | 最大效率  | Max. efficiency       | %         | $\eta_{\max}$         | 77        | 81        | 85        | 81        | 87        |
| 11 | 线间电阻  | Terminal resistance   | $\Omega$  | Rt                    | 1.1       | 2.2       | 2.2       | 7.93      | 7.93      |
| 12 | 线圈电感  | Terminal inductance   | L         | mH                    | 0.25      | 0.5       | 0.5       | 1         | 1         |
| 13 | 力矩系数  | Torque constant       | mNm / A   | Kt                    | 8         | 16.7      | 15.92     | 32.11     | 31.8      |
| 14 | 速度常数  | Speed constant        | rpm / V   | Kn                    | 1192.17   | 563.4     | 599.8     | 297.4     | 300.3     |
| 15 | 速度扭矩比 | Speed torque gradient | rpm / mNm | $\Delta n / \Delta T$ | 142.8     | 58.8      | 67.7      | 47.3      | 46.3      |

## Specifications

|    |                                  |            |             |
|----|----------------------------------|------------|-------------|
| 1  | ambient temperature              | Ta         | -20~+65°C   |
| 2  | Max.winding temperature          | Tcoilmax   | +85°C       |
| 3  | Max.speed                        | Nmax       | 13700rpm    |
| 4  | axial play                       | $\Delta t$ | 0.05~0.15mm |
| 5  | number of pole pairs             | p          | 1           |
| 6  | number of commutator segments    |            | 3           |
| 7  | weight of motor                  | Wt         | 120g        |
| 8  | Max.axial load(dynamic)          |            | 3.5N        |
| 9  | Max.force for press fits(static) |            | 60N         |
| 10 | Max.radial load,4mm from flange  |            | 16N         |

## Operating Range



## Terminal definitions

