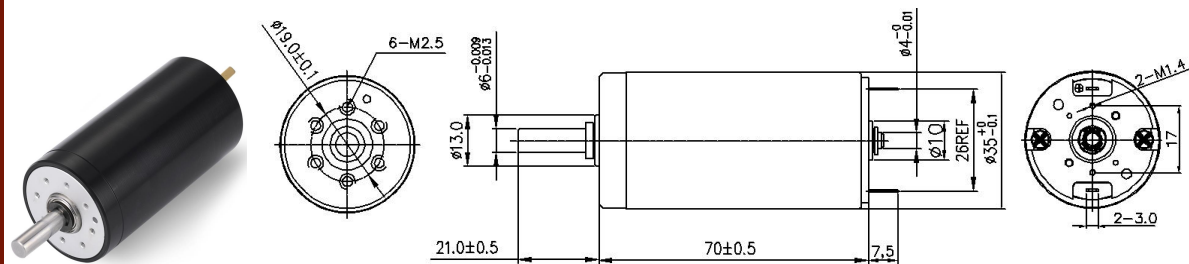


## 3570RC Coreless Graphite Brush Motor



典型应用Typical Applications:舵机、智能小机器人

| 电机参数 (Motor data)                   |       | 13A   | 12A    | 05A   | 08A   | 01A   | 03A   |
|-------------------------------------|-------|-------|--------|-------|-------|-------|-------|
| 额定电压下数值 (Values at nominal voltage) |       |       |        |       |       |       |       |
| 1 额定电压 (Nominal voltage)            | V     | 12    | 15     | 18    | 24    | 24    | 24    |
| 2 空载转速 (No load speed)              | rpm   | 4500  | 7850   | 4100  | 5920  | 4300  | 5600  |
| 3 空载电流 (No load current)            | mA    | 140   | 210    | 110   | 120   | 60    | 110   |
| 4 额定转速 (Nominal speed)              | rpm   | 4270  | 7570   | 3874  | 5620  | 4082  | 5310  |
| 5 额定转矩 (最大连续转矩) (Nominal torque)    | mNm   | 34.7  | 35.5   | 35.7  | 43.8  | 36.5  | 37.7  |
| 6 额定电流 (最大连续电流) (Nominal current)   | A     | 1.5   | 2.15   | 0.95  | 1.25  | 0.74  | 1     |
| 7 堵转转矩 (Stall torque)               | mNm   | 690.9 | 1009.9 | 647.7 | 871.9 | 720   | 728   |
| 8 堵转电流 (Stall current)              | A     | 27.3  | 55.56  | 15.5  | 22.6  | 13.7  | 18.46 |
| 9 最大效率 (Max efficiency)             | %     | 87    | 88     | 85    | 86    | 88    | 86    |
| 电机常数 (Motor constant)               |       |       |        |       |       |       |       |
| 10 相间电阻 (Terminal resistance)       | Ω     | 0.44  | 0.27   | 1.16  | 1.06  | 1.75  | 1.3   |
| 11 转矩常数 (Torque constant)           | mNm/A | 24.96 | 17.88  | 41.09 | 37.94 | 52.24 | 40.11 |
| 12 速度常数 (Speed constant)            | rpm/V | 375   | 523    | 228   | 247   | 179   | 233   |

## 其他特性参数Other characteristic parameters

|                                                      |         |
|------------------------------------------------------|---------|
| 13 环境温度范围<br>(Ambient temperature)                   | -10~40℃ |
| 14 绕组最高允许温度<br>(Max permissible winding temperature) | 80℃     |
| 15 最高允许转速<br>(Max permissible speed)                 | 8000rpm |
| 16 电极磁极对数<br>(Number of the pole pairs)              | 1       |
| 17 换向器片数<br>(Number of the commutator segments)      | 13      |
| 18 电机质量<br>(Weight)                                  | 319g    |

## 13A电机曲线图 motor curve

