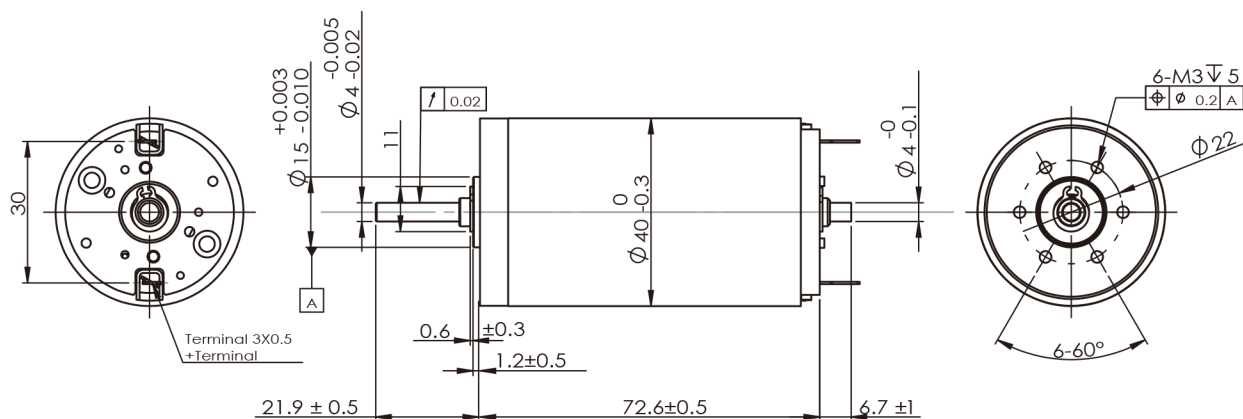




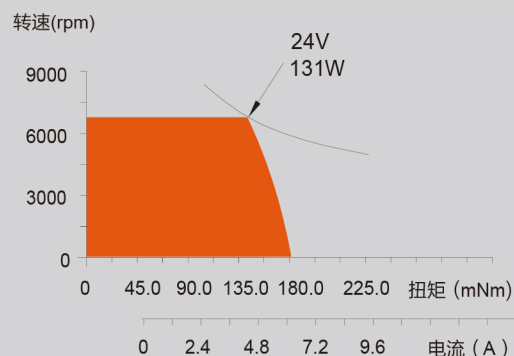
## 电机参数 Motor Data

| 电机型号      | Motor model           |                  |                       | DR407124GK | DR407148GK-01 | DR407148GK-02 |  |  |
|-----------|-----------------------|------------------|-----------------------|------------|---------------|---------------|--|--|
| 1 额定电压    | Nominal voltage       | V                | V                     | 24         | 48            | 48            |  |  |
| 2 空载转速    | No load speed         | rpm              | Wnl                   | 7600       | 7960          | 6500          |  |  |
| 3 空载电流    | No load current       | mA               | InI                   | 250        | 141           | 174           |  |  |
| 4 额定转速    | Nominal speed         | rpm              | Wc                    | 6200       | 7000          | 5400          |  |  |
| 5 额定转矩    | Nominal torque        | mNm              | Tc                    | 180        | 187           | 186           |  |  |
| 6 额定电流    | Nominal current       | A                | Ic                    | 6.06       | 3.26          | 2.67          |  |  |
| 7 输出功率    | Output power          | W                | Pc                    | 117        | 137           | 106           |  |  |
| 8 堵转扭矩    | Stall torque          | mNm              | Tmax                  | 957.4      | 1246          | 1087          |  |  |
| 9 堵转电流    | Stall current         | A                | Imax                  | 32         | 21.7          | 15.6          |  |  |
| 10 最大效率   | Max. efficiency       | %                | $\eta_{max}$          | 81         | 88            | 83            |  |  |
| 11 线间电阻   | Terminal resistance   | $\Omega$         | Rt                    | 0.35       | 1.7           | 3.08          |  |  |
| 12 力矩系数   | Torque constant       | mNm / A          | Kt                    | 29.9       | 57.4          | 69.73         |  |  |
| 13 速度常数   | Speed constant        | rpm / V          | Kn                    | 319.16     | 166           | 137           |  |  |
| 14 速度扭矩比  | Speed torque gradient | rpm / mNm        | $\Delta n / \Delta T$ | 7.7        | 5.1           | 5.7           |  |  |
| 15 线间电感   | Terminal inductance   | mH               | L                     | 0.18       | 0.496         | 0.84          |  |  |
| 16 转子转动惯量 | Rotor inertia         | gcm <sup>2</sup> | J                     | 142.6      | 137.8         | 129           |  |  |

## 特性参数 Specifications

|                                                           |            |              |
|-----------------------------------------------------------|------------|--------------|
| 1 环境温度<br>ambient temperature                             | Ta         | -30~+100 °C  |
| 2 最大允许线圈温度<br>max. winding temperature                    | Tcoilmax   | +155 °C      |
| 3 最大允许速度<br>max. speed                                    | Nmax       | 8800rpm      |
| 4 轴向窜动<br>axial play                                      | $\Delta t$ | 0.05-0.15 mm |
| 5 极对数<br>number of pole pairs                             | 2p         | 1            |
| 6 换向器片数<br>number of commutator segments                  |            | 13           |
| 7 马达重量<br>weight of motor                                 | Wt         | 480 g        |
| 8 最大轴向载荷 (动态)<br>Max. axial load (dynamic)                |            | 5.6N         |
| 9 最大允许安装力 (静态)<br>Max. force for press fits (static)      |            | 110N         |
| 10 最大径向载荷 (离法兰4mm处)<br>Max. radial load, 4 mm from flange |            | 28N          |

## 电机运行范围 Operating Range



## SMJ配件 SMJ Modular System

