

## C8020 电机技术参数

### 基础参数 Specification I

|                                                       |                                                                                                                       |                                      |                                |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|
| 产品型号<br>Model                                         | C8020-180KV                                                                                                           | 防尘防水等级<br>Protection level           | IPX5                           |
| 电机尺寸<br>Motor size                                    | Φ89.1*H59.5 mm                                                                                                        | 槽极数<br>Slot & Pole                   | 24槽28极<br>24N28P               |
| 定子尺寸<br>Stator size                                   | Φ80*H20 mm                                                                                                            | 电机整体动平衡标准<br>Dynamic balance         | ≤20 mg                         |
| 定子工艺<br>Stator process                                | 高品质硅钢片，防锈处理，耐180°C高温涂覆<br>High standard silicon steel sheet, rust proof, 180°C high temperature resistance paint-coat | 轴承型号<br>Bearing                      | 高品质防水轴承<br>Water proof bearing |
| 漆包线等级<br>Enamelled wire                               | 240 °C                                                                                                                | 出轴轴径<br>Motor axle diameter          | Φ10 mm                         |
| 磁铁等级<br>Magnet                                        | 180 °C                                                                                                                | 桨叶安装孔尺寸<br>Props mounting dimensions | 4×M3@D20 mm, 8×M5@D30 mm       |
| 线圈绝缘测试<br>Isolation test                              | 500V交流耐压测试<br>500V AC high voltage resistance test                                                                    | 电机安装孔尺寸<br>Motor mounting dimensions | 4×M5@D45 mm                    |
| 额定输出功率（最大持续功率）<br>Rated output power (Max continuous) | 1060 W                                                                                                                |                                      |                                |

### 技术参数 Specification II

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
| KV值<br>KV                                                                           | 180 KV                                 |
| 额定电压<br>Battery (LiPo)                                                              | LiPo-12S (48V)                         |
| 空载电流<br>No-load current                                                             | 5 A                                    |
| 最大电流/A（非密闭环境温度 ≤25 °C）<br>Maximum current (non-hermetic ambient temperature ≤ 25°C) | 189 A                                  |
| 额定拉力<br>Rated thrust                                                                | 7.5 kg (48V@25x10)                     |
| 最大拉力<br>Max thrust                                                                  | 22.6 kg (48V@25x10)                    |
| 相间内阻<br>Resistance                                                                  | 11.2 mΩ                                |
| 出线规格<br>Wire size                                                                   | 漆包线直出<br>Enameled wire direct lead-out |
| 三相线出线长度<br>Three-phase wires length                                                 | 100 mm                                 |
| 磁编出线长度<br>Magnetic encoder cable length                                             | 130 mm                                 |
| 电机重量（含线）<br>Weight (With cable)                                                     | 834 g                                  |