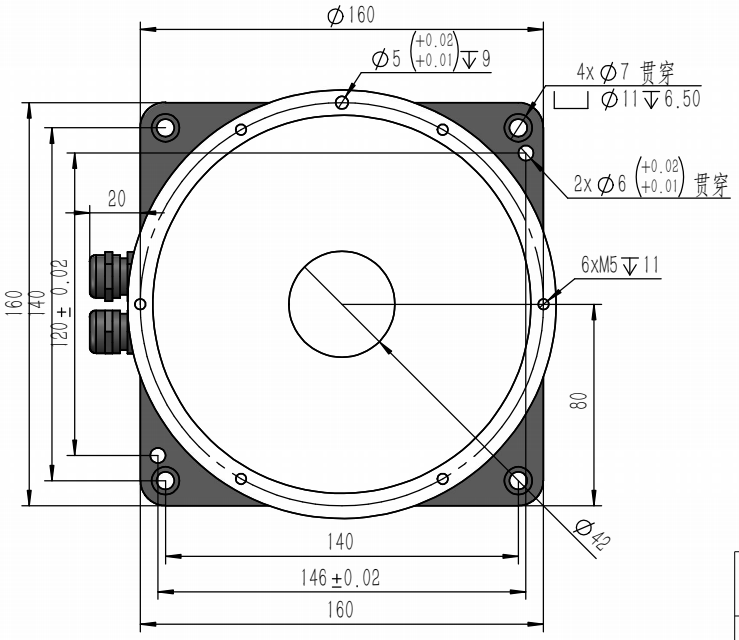
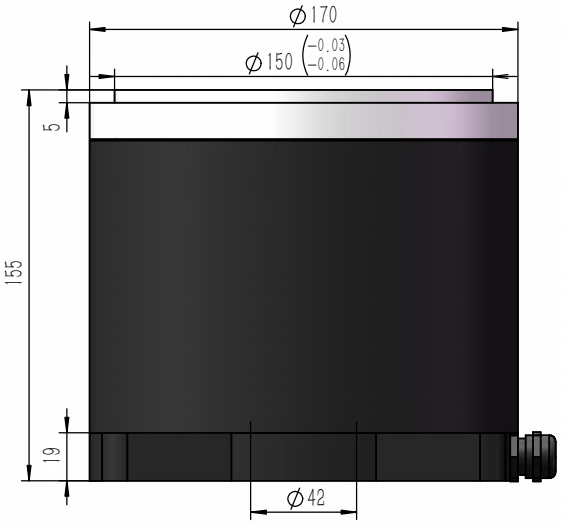
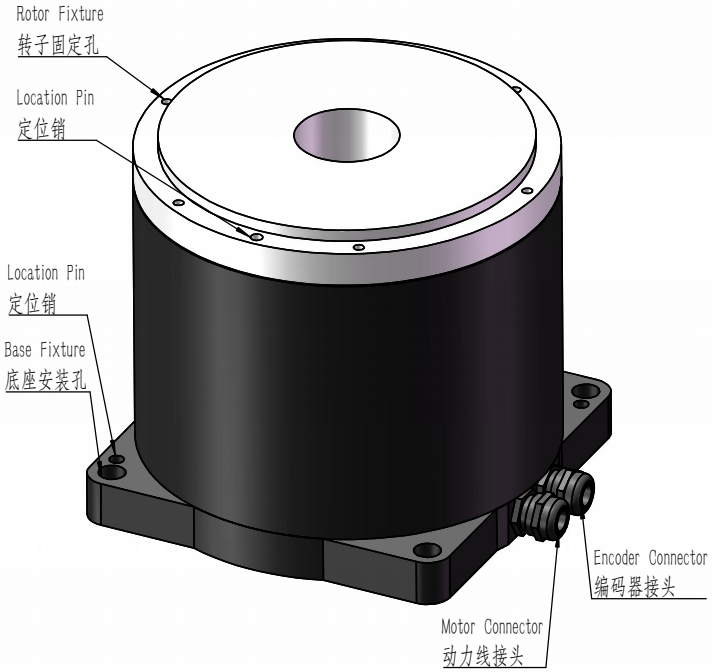



| ANALOG ENCODER WIRING DIAGRAM 编码器配线表 | | | |
|---|---|---|---|
| Function 功能 | Pin NO. 脚位 | Signal 信号 | Color 颜色 |
| Power 电源 | 11 | 5V | Yellow 黄色 |
| | 24 | 0V | Yellow & Black 黄黑色 |
| Communication Signal 通信信号 | 1 | D+ | White & Black 白黑色 |
| | 14 | D− | White 白色 |
| | 2 | C+ | Grey 灰色 |
| | 15 | C− | Grey & Black 灰黑色 |
| | Case 外壳 | Shield 屏蔽 | |

| MOTOR WIRING DIAGRAM 马达电源配线表 | |
|---|---|
| Signal 信号 | Color 颜色 |
| U | Blue 蓝色 |
| V | Brown 棕色 |
| W | Black 黑色 |
| PE | Yellow & Green 黄绿色 |

NOTE:
1.Please make sure the flatness of customer's surface when mounting the motor must be within 0.01/300 mm.
2.The mounting surface without black oxidation.
注释:
1.为确保精度，直驱电机的安装面的平面度需在0.01/300 mm。
2.安装面无黑色涂层。

| Wiring Definition 接线定义 | Installation Instructions 安装说明 | Maintenance Instructions 保养说明 |
|---|---|---|
| | | |

| No. 序号 | Performance Parameters 性能参数 | Numerical value 数值 |
|---|---|---|
| 1 | Axial Run Out 轴向偏摆 (μm) | 10 |
| 2 | Radial Run Out 径向偏摆 (μm) | 10 |
| 3 | Mass 电机重量 (kg) | 9.5 |
| 4 | Operating Ambient Temperature 环境温度 (℃) | 0–50 |
| 5 | IP level 防护等级 (IP) | 65 |
| 6 | Repeat Position Accuracy 重复精度 (Arc sec) | ±2 |
| 7 | Absolute Position Accuracy 绝对精度 (Arc sec) | ±20 |
| 8 | Axial Load 正轴向负载 (N) | 2000 |
| 9 | Motor constant 电机常数 (Nm/Sqrt (W)) | 5 |
| 10 | Maximum Output Power 电机最大功率 (W) | 1885 |
| 11 | Rated torque 额定扭矩 (Nm) | 45 |
| 12 | Peak torque 峰值扭矩 (Nm) | 117 |
| 13 | Rated current 额定电流 (A rms) | 3 |
| 14 | Peak current 峰值电流 (A rms) | 9 |
| 15 | Maximum Speed 峰值转速 (rpm) | 400 |
| 16 | Resistance 电阻(ptp) ±10% (Ω) | 18 |
| 17 | Inductance 电感(ptp) ±30% (mH)(25 °) | 24 |
| 18 | Torque Constant 转矩常数 ±10% (Nm/A rms) | 15 |
| 19 | Number of poles 极数 | 40 |
| 20 | Rotor Inertia 转动惯量 (kg · m2) | 0.015 |
| 21 | Back EMF Constant 反向电动势常数 (Vrms/(rad/s)) | 8.7 |
| 22 | Motor Color 马达颜色 | Black 黑色 |
| 23 | Encoder Type 编码器协议 | BISS–C |
| 24 | Resolution 编码器分辨率 (bit) | 26 |
| 25 | Max. DC BUS 最大工作电压 (V) | 220 |

* All the specifications in the table are in 10% of tolerance.
表内所有规格误差范围 10%

| ITEM | DATE | MODIFIED | DESCRIPTION | APPD |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

TPA 玖钧传动 Motion Control

| SCALE | UNIT | GENERAL TOLERANCE | | | | | |
|---|---|---|---|---|---|---|---|
| 1:X | mm | Up to 6 | 6 to 30 | 30 to 120 | 120 to 300 | 300 to 600 | |
| | | ±0.1 | ±0.2 | ±0.3 | ±0.4 | ±0.5 | |

| Model | TDI–170155–F–SE–K42–40 | | |
|---|---|---|---|
| Desc | Rotary Motor External Rotor | | |
| Surface | Black oxidation | DRN | Tang |
| DWG.NO | M170P004 | CHK | Zhou |
| Sheet | 1–1 | APPD | Le |

TPA Motion Control International Co., Limited DATE 17–Jul–25