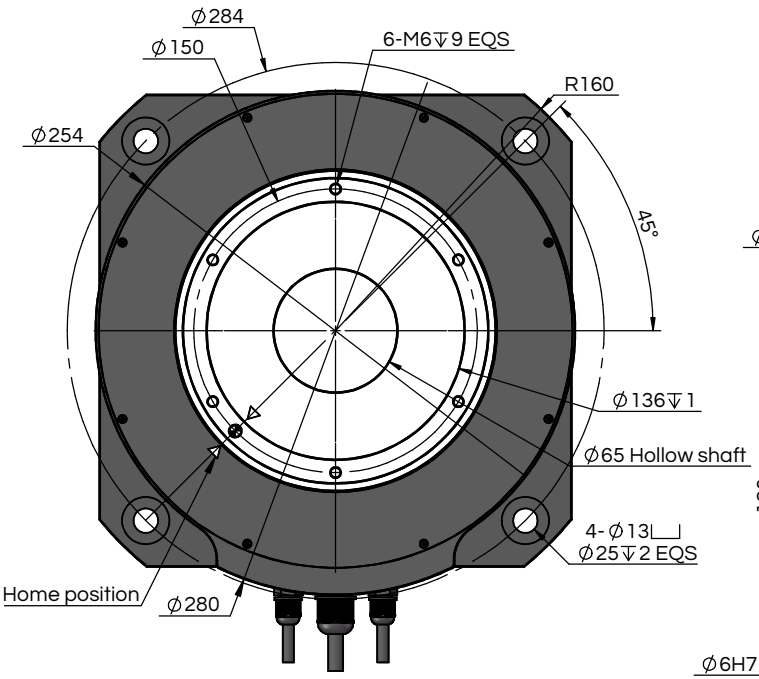
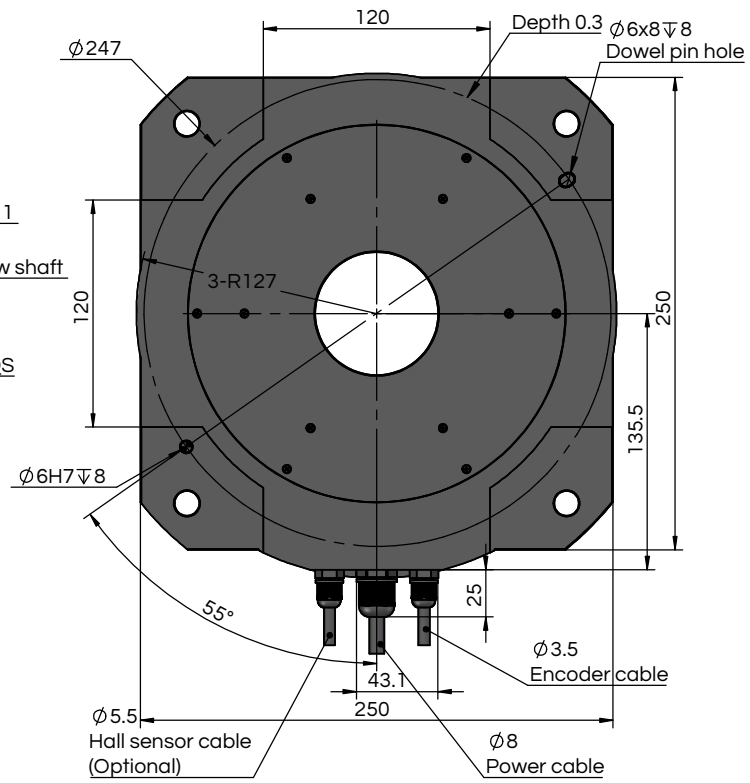
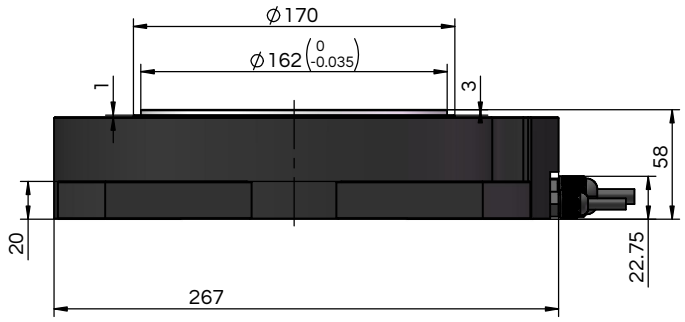



| No. | Specification | Unit | Value |
|---|---|---|---|
| 1 | Flange-type | - | √ |
| 2 | Continuous Torque | Nm | 29.5 |
| 3 | Peak Torque | Nm | 88 |
| 4 | Rated Speed | Rpm | 150 |
| 5 | Maximum Speed | Rpm | 250 |
| 6 | Continuous Current | Arms | 7.6 |
| 7 | Peak Current | Arms | 22.8 |
| 8 | Torque Constant | Nm/Arms | 3.9 |
| 9 | Back EMF Constant* | Vrms/rad/s | 2.85 |
| 10 | Resistance Phase to Phase at 25°C | Ω | 1.6 |
| 11 | Inductance Phase to Phase at 25°C | mH | 4.8 |
| 12 | Number of poles | - | 40 |
| 13 | Rotor Inertia | $kg{\cdot}m^2$ | 0.021 |
| 14 | Incremental encoder resolution | ppr | 4350000 |
| 15 | Absolute encoder resolution | ppr | 24 bit (16777216) |
| 16 | Absolute Position Accuracy | arcsec | ±15 |
| 17 | Repeat Position Accuracy | arcsec | ±2 |
| 18 | Axial Load | N | 16000 |
| 19 | Radial Load | Nm | 130 |
| 20 | Axial Run Out*2 | um | 20/5/3 |
| 21 | Radial Run Out*3 | um | 20/5/3 |
| 22 | Mass | kg | 11 |
| 23 | IP level | - | 40 |
| 24 | Motor Color | - | black |
| 25 | Max. DC BUS | V | 220 |

*1 The back electromotive force (back EMF) is the value measured between any two conductors when the motor is running at a constant speed.
*2 *3 Please contact sales.

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.

| Wiring Definition | Installation Instructions | Maintenance Instructions |
|---|---|---|
| | | |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TKOOLLE MOTION CONTROL | SCALE | 1:X | UNIT | mm | | Model | TDI-250055 | | |
| | | | | | | Desc | Rotary Motor | | |
| | GENERAL TOLERANCE | | | | | Surface | Black oxidation | DRN | Tang |
| | Up to 6 | 6 to 30 | 30 to 120 | 120 to 300 | 300 to 600 | DWG.NO | M250A074 | CHK | Zhou |
| | ±0.1 | ±0.2 | ±0.3 | ±0.4 | ±0.5 | Sheet | 1-1 | APPD | Le |
| TKOOLLE MOTION CONTROL INTERNATIONAL CO.,LIMITED | | | | | | DATE | 17-Jul-25 | | |