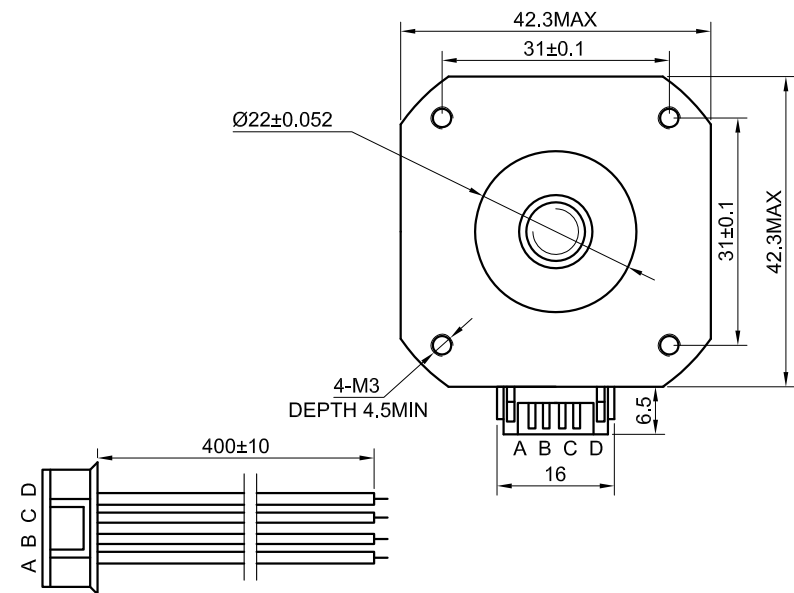
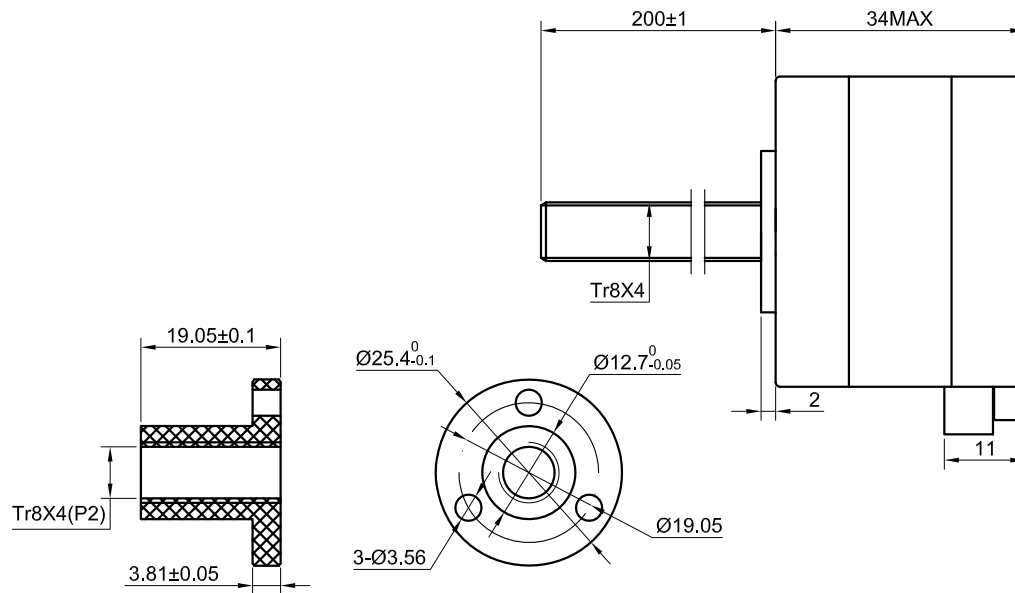


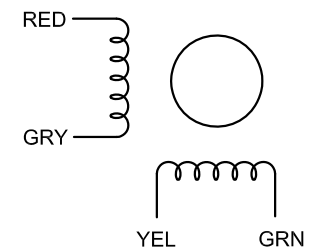


| SPECIFICATION                                                                     | CONNECTION | BIPOLAR    |
|-----------------------------------------------------------------------------------|------------|------------|
| VOTAGE(VOC)                                                                       |            | 12.00      |
| AMPS/PHASE                                                                        |            | 0.40       |
| RESISTANCE/PHASE(Ohms)@25°C                                                       |            | 30.00±10%  |
| INDUCTANCE/PHASE(mH)@1KHz                                                         |            | 37.00±20%  |
| HOLDING TORQUE(Nm)[lb-in]                                                         |            | 0.26[2.30] |
| LINEAR TRAVEL/STEP(mm)                                                            |            | 0.02       |
| STEP ANGLE(°)                                                                     |            | 1.80       |
| STEP ACCURACY(NON-ACCUM)                                                          |            | ±5.00%     |
| ROTOR INERTIA(g-cm <sup>2</sup> )                                                 |            | 35.00      |
| WEIGHT(Kg)[lb]                                                                    |            | 0.22[0.49] |
| TEMPERATURE RISE:MAX.80°C (MOTOR STANDSTILL;FOR 2PHASE ENERGIZED )                |            |            |
| AMBIENT TEMPERATURE -10°C~50°C[14°F~122°F]                                        |            |            |
| INSULATION RESISTANCE 100 Mohm (UNDER NORMAL TEMPERATURE AND HUMIDITY )           |            |            |
| INSULATION CLASS B 130°C[266°F]                                                   |            |            |
| DIELECTRIC STRENGTH 500VAC FOR 1MIN.(BETWEEN THE MOTOR COILS AND THE MOTOR CASE ) |            |            |
| AMBIENT HUMIDITY MAX.85%(NO CONDENSATION)                                         |            |            |
|                                                                                   |            | APVD       |
|                                                                                   |            | CHKD       |
| 1:1                                                                               |            | DRN        |
| SCALE                                                                             |            | SIGNATURE  |
|                                                                                   |            | DATE       |

| TYPE OF CONNECTION (EXTERN) |         | MOTOR |         |
|-----------------------------|---------|-------|---------|
| PIN NO                      | BIPOLAR | LEADS | WINDING |
| 1                           | A —     | RED   |         |
| 2                           | C —     | GRY   |         |
| 3                           | B —     | YEL   |         |
| 4                           | D —     | GRN   |         |

FULL STEP 2 PHASE-Ex. ,  
WHEN FACING MOUNTING END (X)

| STEP | A | B | C | D |  |     |
|------|---|---|---|---|--|-----|
| 1    | + | + | - | - |  | CCW |
| 2    | - | + | + | - |  |     |
| 3    | - | - | + | + |  |     |
| 4    | + | - | - | + |  | CW  |



STEPPER MOTOR

17LS13-0404E-200H