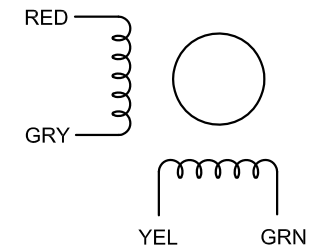


| SPECIFICATION   | CONNECTION | BIPOLAR    |
|---|------------|------------|
| VOTAGE(VOC)   |            | 12.00      |
| AMPS/PHASE  |            | 0.40       |
| RESISTANCE/PHASE(Ohms)@25°C   |            | 30.00±10%  |
| INDUCTANCE/PHASE(mH)@1KHz   |            | 37.00±20%  |
| HOLDING TORQUE(Nm)[lb-in]   |            | 0.26[2.30] |
| LINEAR TRAVEL/STEP(mm)  |            | 0.02       |
| STEP ANGLE(°)   |            | 1.80       |
| STEP ACCURACY(NON-ACCUM)  |            | ±5.00%     |
| ROTOR INERTIA(g-cm²)  |            | 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)   |            |            |

| 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 |  | CCW |
|------|---|---|---|---|--|-----|
| 1    | + | + | - | - |  |     |
| 2    | - | + | + | - |  |     |
| 3    | - | - | + | + |  |     |
| 4    | + | - | - | + |  |     |



|       |           |      |
|-------|-----------|------|
| APVD  |           |      |
| CHKD  |           |      |
| 1:1   | DRN       |      |
| SCALE | SIGNATURE | DATE |

**STEPPER MOTOR**

**17LS13-0404E-150H**