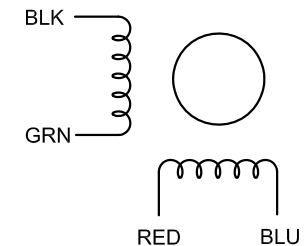


| SPECIFICATION   | CONNECTION | BIPOLAR     |
|---|------------|-------------|
| VOTAGE(VOC)   |            | 4.20        |
| AMPS/PHASE  |            | 3.50        |
| RESISTANCE/PHASE(Ohms)@25°C   |            | 1.20±10%    |
| INDUCTANCE/PHASE(mH)@1KHz   |            | 5.00±20%    |
| HOLDING TORQUE(Nm)[lb-in]   |            | 3.00[26.55] |
| STEP ANGLE(°)   |            | 1.80        |
| STEP ACCURACY(NON-ACCUM)  |            | ±5.00%      |
| ROTOR INERTIA(g-cm <sup>2</sup> )   |            | 800.00      |
| WEIGHT(Kg)[lb]  |            | 1.60[3.53]  |
| 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 —     | BLK   |         |
| 2                           | A\ —    | GRN   |         |
| 3                           | B —     | RED   |         |
| 4                           | B\ —    | BLU   |         |

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

| STEP | A | B | A\ | B\ |   | CCW |
|------|---|---|----|----|---|-----|
| 1    | + | + | -  | -  | ↓ | ↑   |
| 2    | - | + | +  | -  |   |     |
| 3    | - | - | +  | +  | ↑ | ↓   |
| 4    | + | - | -  | +  |   |     |



|       |           |  |      |  |
|-------|-----------|--|------|--|
|       | APVD      |  |      |  |
|       | CHKD      |  |      |  |
| 1:1.5 | DRN       |  |      |  |
| SCALE | SIGNATURE |  | DATE |  |

## STEPPER MOTOR

23HS45-3504S