



| SPECIFICATION | CONNECTION | BIPOLAR |
|---|------------|------------|
| VOTAGE(VOC) | | 1.80 |
| AMPS/PHASE | | 2.80 |
| RESISTANCE/PHASE(Ohms)@25°C | | 0.65±10% |
| INDUCTANCE/PHASE(mH)@1KHz | | 1.60±20% |
| HOLDING TORQUE(Nm)[lb-in] | | 0.70[6.20] |
| STEP ANGLE(°) | | 1.80 |
| STEP ACCURACY(NON-ACCUM) | | ±5.00% |
| ROTOR INERTIA(g-cm ²) | | 110.00 |
| WEIGHT(Kg)[lb] | | 0.60[1.32] |
| 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\ | | |
|------|---|---|----|----|---|---|
| 1 | + | + | - | - | ↓ | ↑ |
| 2 | - | + | + | - | | |
| 3 | - | - | + | + | ↑ | ↓ |
| 4 | + | - | - | + | | |



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

STEPPER MOTOR

23HR20-2804S