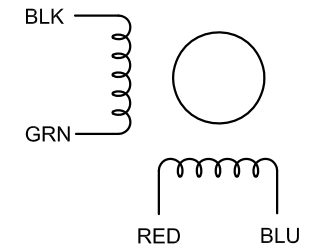


| SPECIFICATION | CONNECTION | BIPOLAR |
|--|------------|-----------------|
| VOTAGE(VOC) | | 3.20 |
| AMPS/PHASE | | 2.80 |
| RESISTANCE/PHASE(Ohms)@25°C | | 1.13±10% |
| INDUCTANCE/PHASE(mH)@1KHz | | 5.40±20% |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in] | | 1.89[16.73] |
| GEAR RATIO | | 4 $\frac{1}{4}$ |
| EFFICIENCY | | 90.00% |
| STEP ANGLE w/o GEARBOX(°) | | 1.80 |
| BACKLASH@NO-LOAD | | <=1.5° |
| MAX.PERMISSIBLE TORQUE(Nm) | | 20.00 |
| MOMENT PERMISSIBLE TORQUE(Nm) | | 30.00 |
| SHAFT MAXIMUM AXIAL LOAD(N) | | 100.00 |
| SHAFT MAXIMUM RADIAL LOAD(N) | | 200.00 |
| WEIGHT(Kg)[lb] | | 1.90[4.19] |
| TEMPERATURE RISE:MAX.80°C (MOTOR STANDSTILL;FOR 2PHASE ENERGIZED) | | |
| AMBIENT TEMPERATURE -10°C~50°C[14°F~122°F] | | |
| INSULATION CLASS B 130°C[266°F] | | |

| 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

23HS30-2804S-PG4