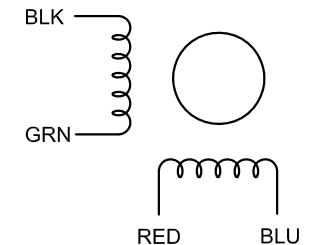


| SPECIFICATION | CONNECTION | BIPOLAR |
|---------------------------------------|------------|------------|
| VOTAGE(VOC) | | 2.50 |
| AMPS/PHASE | | 2.80 |
| RESISTANCE/PHASE(Ohms)@25°C | | 0.90±10% |
| INDUCTANCE/PHASE(mH)@1KHz | | 2.80±20% |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in] | | 1.03[9.12] |
| GEAR RATIO | | 10 |
| EFFICIENCY | | 95.00% |
| STEP ANGLE w/o GEARBOX(°) | | 1.80 |
| BACKLASH@NO-LOAD(arcmin) | | <=15 |
| MAX.PERMISSIBLE TORQUE(Nm) | | 6.00 |
| MOMENT PERMISSIBLE TORQUE(Nm) | | 12.00 |
| WEIGHT(kg) | | 1.50 |
| LIFE(h) | | 20000.00 |
| AMBIENT TEMPERATURE(°C) | | -10 - 90 |
| INSULATION CLASS | | B |
| NOISE(bB) | | <=50 |
| MAX. RADIAL LOAD(N) | | 400 |

| 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

23HS22-2804S-HG10