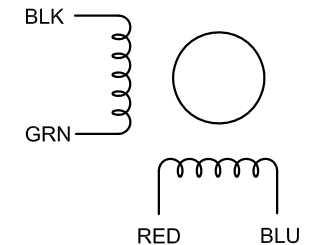


| SPECIFICATION  | CONNECTION | BIPOLAR         |
|--|------------|-----------------|
| VOTAGE(VOC)  |            | 3.20            |
| AMPS/PHASE   |            | 2.80            |
| RESISTANCE/PHASE(Ohms)@25°C  |            | 1.13±10%        |
| INDUCTANCE/PHASE(mH)@1KHz  |            | 5.40±20%        |
| 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