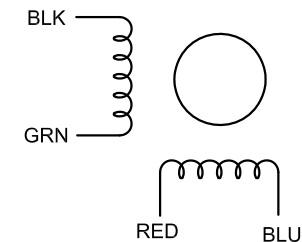


| SPECIFICATION  | CONNECTION | BIPOLAR     |
|--|------------|-------------|
| AMPS/PHASE   |            | 2.80        |
| RESISTANCE/PHASE(Ohms)@25°C  |            | 1.13±10%    |
| INDUCTANCE/PHASE(mH)@1KHz  |            | 5.40±20%    |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]  |            | 1.89[16.73] |
| GEAR RATIO   |            | 5.00        |
| EFFICIENCY   |            | 80.00%      |
| STEP ANGLE w/o GEARBOX(°)  |            | 1.80        |
| BACKLASH@NO-LOAD   |            | <=3°        |
| MAX.PERMISSIBLE TORQUE(Nm)   |            | 5.00        |
| WEIGHT(Kg)[lb]   |            | 1.50[3.31]  |
| ROTOR INERTIA w/o GEARBOX(g-cm <sup>2</sup> )                                    |            | 480.00      |
| INSULATION RESISTANCE 100 Mohm (UNDER NORMAL TEMPERATURE AND HUMIDITY )          |            |             |
| DIELECTRIC STRENGTH 500VAC FOR 1MIN.(BETWEEN THE MOTOR COILS AND THE MOTOR CASE) |            |             |
| 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 | A\ | B | B\ |   | CCW |
|------|---|----|---|----|---|-----|
| 1    | + | +  | - | -  | ↓ | ↑   |
| 2    | - | +  | + | -  |   |     |
| 3    | - | -  | + | +  | ↑ | ↓   |
| 4    | + | -  | - | +  |   |     |



**STEPPERONLINE**®

1:1.5  
SCALE

APVD  
CHKD

DRN

SIGNATURE

8.20.2018

DATE

**STEPPER MOTOR**

**23HS30-2804S-SG5**