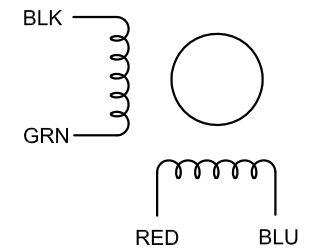


| SPECIFICATION   | CONNECTION | BIPOLAR                      |
|---|------------|------------------------------|
| AMPS/PHASE  |            | 1.50                         |
| RESISTANCE/PHASE(Ohms)@25°C   |            | 2.80±10%                     |
| INDUCTANCE/PHASE(mH)@1KHz   |            | 3.80±20%                     |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]                               |            | 0.40[3.54]                   |
| GEAR RATIO  |            | 5 <sub>11</sub> <sup>2</sup> |
| EFFICIENCY  |            | 90.00%                       |
| STEP ANGLE w/o GEARBOX(°)   |            | 1.80                         |
| BACKLASH@NO-LOAD  |            | <=1°                         |
| MAX.PERMISSIBLE TORQUE(Nm)  |            | 2.00                         |
| MOMENT PERMISSIBLE TORQUE(Nm)                                       |            | 4.00                         |
| SHAFT MAXIMUM AXIAL LOAD(N)   |            | 50.00                        |
| SHAFT MAXIMUM RADIAL LOAD(N)  |            | 100.00                       |
| WEIGHT(Kg)[lb]  |            | 0.40[0.88]                   |
| 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   | A       |
| 2                           | A\ —    | GRN   | A\      |
| 3                           | B —     | RED   | B       |
| 4                           | B\ —    | BLU   | B\      |

FULL STEP 2 PHASE-Ex.,  
WHEN FACING MOUNTING END (X)

| STEP | A | B | A\ | B\ |   | CCW |
|------|---|---|----|----|---|-----|
| 1    | + | + | -  | -  | ↓ | ↑   |
| 2    | - | + | +  | -  |   |     |
| 3    | - | - | +  | +  |   |     |
| 4    | + | - | -  | +  |   |     |
|      |   |   |    |    |   | CW  |



|       |           |           |
|-------|-----------|-----------|
| APVD  |           | 8.18.2018 |
| CHKD  |           |           |
| 1:1   | DRN       |           |
| SCALE | SIGNATURE | DATE      |

STEPPER MOTOR

14HS20-1504S-PG5