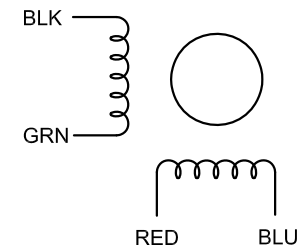


| SPECIFICATION  | CONNECTION | BIPOLAR                              |
|--|------------|--------------------------------------|
| VOTAGE(VOC)  |            | 6.20                                 |
| AMPS/PHASE   |            | 0.67                                 |
| RESISTANCE/PHASE(Ohms)@25°C  |            | 9.20±10%                             |
| INDUCTANCE/PHASE(mH)@1KHz  |            | 7.20±20%                             |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]                              |            | 0.12[1.06]                           |
| GEAR RATIO   |            | 51 <sup>4397</sup> / <sub>4913</sub> |
| EFFICIENCY   |            | 73.00%                               |
| STEP ANGLE w/o GEARBOX(°)  |            | 1.80                                 |
| BACKLASH@NO-LOAD   |            | <=1°                                 |
| MAX.PERMISSIBLE TORQUE(Nm)   |            | 4.00                                 |
| MOMENT PERMISSIBLE TORQUE(Nm)                                      |            | 6.00                                 |
| SHAFT MAXIMUM AXIAL LOAD(N)  |            | 5.00                                 |
| SHAFT MAXIMUM RADIAL LOAD(N)                                       |            | 25.00                                |
| WEIGHT(Kg)[lb]   |            | 0.45[0.99]                           |
| 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\ |   |     |
|------|---|---|----|----|---|-----|
| 1    | + | + | -  | -  | ↓ | CCW |
| 2    | - | + | +  | -  |   | ↑   |
| 3    | - | - | +  | +  | ↓ | CW  |
| 4    | + | - | -  | +  |   | ↑   |



|       |           |      |
|-------|-----------|------|
| APVD  |           |      |
| CHKD  |           |      |
| 1.5:1 | DRN       |      |
| SCALE | SIGNATURE | DATE |

**STEPPER MOTOR**

**11HS20-0674S-PG51**