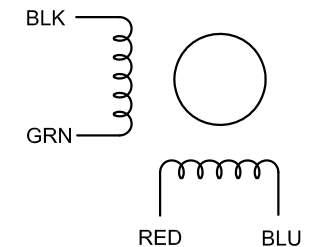


| SPECIFICATION   | CONNECTION | BIPOLAR                            |
|---|------------|------------------------------------|
| AMPS/PHASE  |            | 0.67                               |
| RESISTANCE/PHASE(Ohms)@25°C   |            | 12.00±10%                          |
| INDUCTANCE/PHASE(mH)@1KHz   |            | 6.50±20%                           |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]                               |            | 0.14[1.24]                         |
| GEAR RATIO  |            | 13 <sup>212</sup> / <sub>288</sub> |
| EFFICIENCY  |            | 81.00%                             |
| STEP ANGLE w/o GEARBOX(°)   |            | 1.80                               |
| BACKLASH@NO-LOAD  |            | <=1°                               |
| MAX.PERMISSIBLE TORQUE(Nm)  |            | 3.00                               |
| MOMENT PERMISSIBLE TORQUE(Nm)                                       |            | 5.00                               |
| SHAFT MAXIMUM AXIAL LOAD(N)   |            | 5.00                               |
| SHAFT MAXIMUM RADIAL LOAD(N)  |            | 25.00                              |
| 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    | + | - | -  | +  |   |     |



|       |           |           |
|-------|-----------|-----------|
| APVD  |           | 8.18.2018 |
| CHKD  |           |           |
| 1.5:1 | DRN       |           |
| SCALE | SIGNATURE | DATE      |

STEPPER MOTOR

11HS20-0674D-PG14