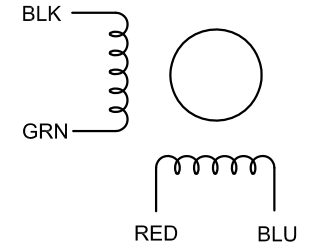


| SPECIFICATION   | CONNECTION | BIPOLAR                           |
|---|------------|-----------------------------------|
| AMPS/PHASE  |            | 0.90                              |
| RESISTANCE/PHASE(Ohms)@25°C                                       |            | 7.00±10%                          |
| INDUCTANCE/PHASE(mH)@1KHz   |            | 6.00±20%                          |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]                             |            | 0.17[1.50]                        |
| GEAR RATIO  |            | 19 <sup>38</sup> / <sub>187</sub> |
| EFFICIENCY  |            | 80.00%                            |
| STEP ANGLE w/o GEARBOX(°)   |            | 1.80                              |
| BACKLASH@NO-LOAD  |            | <=3°                              |
| 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]  |            | —                                 |
| 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- |  |     |
|------|----|----|----|----|--|-----|
| 1    | +  | +  | -  | -  |  | CCW |
| 2    | -  | +  | +  | -  |  | CW  |
| 3    | -  | -  | +  | +  |  |     |
| 4    | +  | -  | -  | +  |  |     |



|       |           |          |
|-------|-----------|----------|
| APVD  |           | 1.9.2023 |
| CHKD  |           |          |
| 1.5:1 | DRN       |          |
| SCALE | SIGNATURE | DATE     |

STEPPER MOTOR

11HS22-0904S-PG19