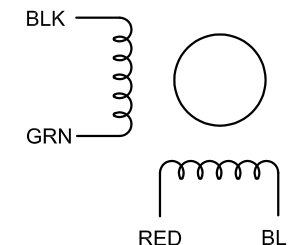


| SPECIFICATION | CONNECTION | BIPOLAR |
|---|------------|-------------|
| AMPS/PHASE | | 0.20 |
| RESISTANCE/PHASE(Ohms)@25°C | | 24±10% |
| INDUCTANCE/PHASE(mH)@1KHz | | 8±20% |
| HOLDING TORQUE w/o GEARBOX(Nm)[lb-in] | | 0.014[0.12] |
| GEAR RATIO | | 90.25 |
| EFFICIENCY | | 73.00% |
| STEP ANGLE w/o GEARBOX(°) | | 1.80 |
| BACKLASH@NO-LOAD | | <=1° |
| MAX.PERMISSIBLE TORQUE(Nm) | | 0.90 |
| MOMENT PERMISSIBLE TORQUE(Nm) | | 2.00 |
| SHAFT MAXIMUM AXIAL LOAD(N) | | 5.00 |
| SHAFT MAXIMUM RADIAL LOAD(N) | | 25.00 |
| WEIGHT(Kg)[lb] | | 0.086[0.19] |
| 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 | | 12.13.2019 |
| | CHKD | | |
| 1.5:1 | DRN | | |
| SCALE | SIGNATURE | | DATE |

STEPPER MOTOR

8HS11-0204S-PG90