

| SPECIFICATION                         | VALUE                  |
|---------------------------------------|------------------------|
| 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                            | 70.00%                 |
| STEP ANGLE w/o GEARBOX(°)             | 1.80                   |
| BACKLASH@NO-LOAD                      | <=3°                   |
| MAX.PERMISSIBLE TORQUE(Nm)            | 0.50                   |
| MOMENT PERMISSIBLE TORQUE(Nm)         | 1.00                   |
| SHAFT MAXIMUM AXIAL LOAD(N)           | 5.00                   |
| SHAFT MAXIMUM RADIAL LOAD(N)          | 25.00                  |
| AMBIENT TEMPERATURE                   | -10°C~50°C[14°F~122°F] |
| INSULATION CLASS                      | B 130°C[266°F]         |
| TEMPERATURE RISE                      | MAX.80°C               |

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

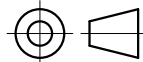
| STEP | A+ | B+ | A- | B- |  | CCW |
|------|----|----|----|----|--|-----|
| 1    | +  | +  | -  | -  |  |     |
| 2    | -  | +  | +  | -  |  |     |
| 3    | -  | -  | +  | +  |  |     |
| 4    | +  | -  | -  | +  |  |     |

UNIT mm  
 GB/T 1804-M  
 EQV.ISO 2768-1  
 CLASS M:  
 <=6 ±0.1  
 >6~30 ±0.2  
 >30~120 ±0.3  
 >120~400 ±0.5

MOTOR CONNECTION

| PIN NO | BIPOLAR | LEADS |  |
|--------|---------|-------|--|
| 1      | A+      | BLK   |  |
| 2      | A-      | GRN   |  |
| 3      | B+      | RED   |  |
| 4      | B-      | BLU   |  |

**OSMTEC**®  
 Stepper Motor Specialists



| mm    |           |      |          |
|-------|-----------|------|----------|
| UNITS | DRN       | ZPJ  | 1.9.2026 |
| 3:2   | APVD      | YSX  | 1.9.2026 |
| SCALE | SIGNATURE | DATE |          |

**GEARBOX MOTOR**  
 8HS11-0204S-PG90