

ENCODER CONNECTION:1000PPR(4000CPR)

|             |     |      |     |     |     |     |     |     |
|-------------|-----|------|-----|-----|-----|-----|-----|-----|
| LEAD COLOR  | RED | BLK  | BRN | ORG | BLU | GRN | YEL | WHT |
| DESCRIPTION | VCC | EGND | EA+ | EA- | EB+ | EB- | EZ+ | EZ- |

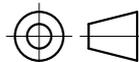
FULL STEP 2 PHASE-Ex.,WHEN FACING MOUNTING END (X)

| STEP | A+ | B+ | A- | B- |        | CW     |
|------|----|----|----|----|--------|--------|
| 1    | +  | +  | -  | -  | ↓<br>↑ | ↑<br>↓ |
| 2    | -  | +  | +  | -  |        |        |
| 3    | -  | -  | +  | +  |        |        |
| 4    | +  | -  | -  | +  |        |        |
|      |    |    |    |    | CCW    |        |

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

| WINDING |         |       | CONNECTION                  | BIPOLAR                |
|---------|---------|-------|-----------------------------|------------------------|
|         |         |       | SPECIFICATION               |                        |
|         |         |       | AMPS/PHASE                  | 2.80                   |
|         |         |       | RESISTANCE/PHASE(Ohms)@25°C | 0.90±10%               |
|         |         |       | INDUCTANCE/PHASE(mH)@1KHz   | 2.60±20%               |
|         |         |       | HOLDING TORQUE(Nm)[lb-in]   | 1.20[10.63]            |
|         |         |       | STEP ANGLE(°)               | 1.80                   |
|         |         |       | STEP ACCURACY(NON-ACCUM)    | ±5.00%                 |
| PIN NO  | BIPOLAR | LEADS | ROTOR INERTIA(g·cm²)        | 300.00                 |
| 1       | A+      | GRN   | WEIGHT(Kg)[lb]              | —                      |
| 2       | A-      | BLK   | AMBIENT TEMPERATURE         | -10°C~50°C[14°F~122°F] |
| 3       | B+      | RED   | INSULATION CLASS            | B 130°C[266°F]         |
| 4       | B-      | BLU   | TEMPERATURE RISE            | MAX.80°C               |

**OSMTEC**®  
Stepper Motor Specialists



mm

UNITS

2:3

SCALE

DRN

APVD

SIGNATURE

ZPJ

YSX

DATE

1.15.2026

1.15.2026

DATE

**STEPPER MOTOR**

**23HS22-2804-ME1K**