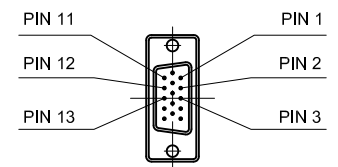


| SPECIFICATION  | CONNECTION | BIPOLAR                        |
|--|------------|--------------------------------|
| VOTAGE(VOC)  |            | 2.60                           |
| AMPS/PHASE   |            | 2.80                           |
| RESISTANCE/PHASE(Ohms)@25°C  |            | 0.90±10%                       |
| INDUCTANCE/PHASE(mH)@1KHz  |            | 2.50±20%                       |
| HOLDING TORQUE(Nm) w/o GEARBOX(Nm)[lb-in]                          |            | 1.25[11.06]                    |
| GEAR RATIO   |            | 4 $\frac{1}{4}$                |
| EFFICIENCY   |            | 90.00%                         |
| STEP ANGLE w/o GEARBOX(°)  |            | 1.80                           |
| BACKLASH@NO-LOAD   |            | <=1.5°                         |
| MAX.PERMISSIBLE TORQUE(Nm)   |            | 20.00                          |
| MOMENT PERMISSIBLE TORQUE(Nm)                                      |            | 30.00                          |
| SHAFT MAXIMUM AXIAL LOAD(N)  |            | 100.00                         |
| SHAFT MAXIMUM RADIAL LOAD(N)                                       |            | 200.00                         |
| LEAD STYLE   |            | FVR 4X0.5mm <sup>2</sup> CABLE |
| 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 —     | RED   | A       |
| 2                           | C —     | GRN   | C       |
| 3                           | B —     | YEL   | B       |
| 4                           | D —     | BLU   | D       |

DB MALE PLUG



| 15-PIN DB MALE PLUG | 1   | 2   | 3   | 11  | 12  | 13  |
|---------------------|-----|-----|-----|-----|-----|-----|
| LEAD COLOR          | BLK | RED | WHT | YEL | GRN | BLU |
| DESCRIPTION         | EA+ | VCC | GND | EB+ | EB- | EA- |

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

**STEPPER MOTOR**

**23HS22-2804D-PG4-E1000**