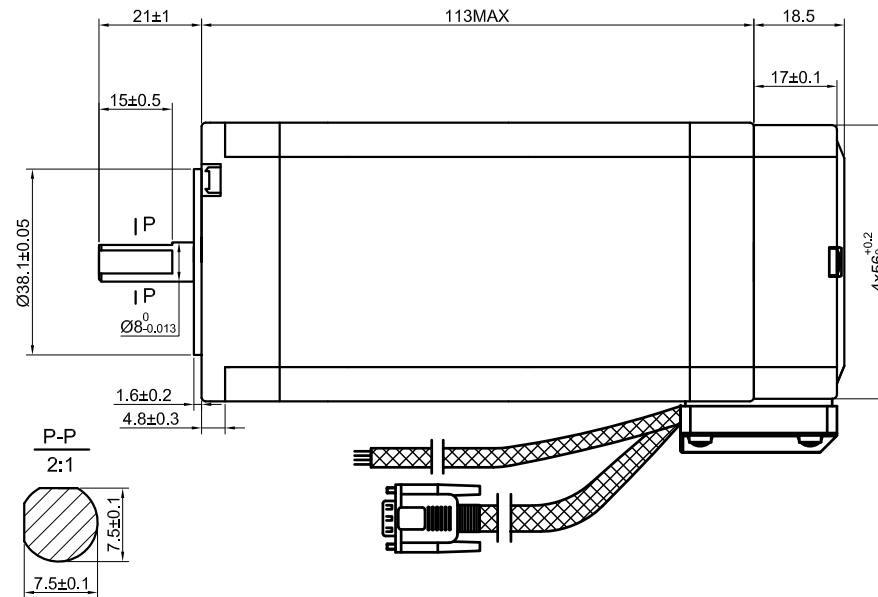
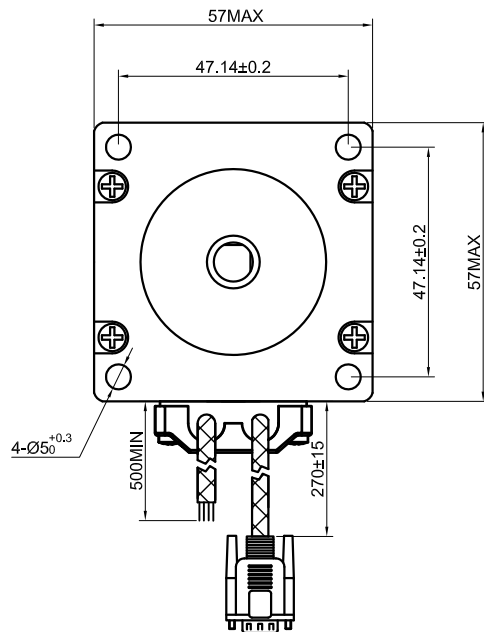
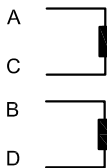




| SPECIFICATION                                                                     |  | CONNECTION |       | BIPOLAR            |      |               |
|-----------------------------------------------------------------------------------|--|------------|-------|--------------------|------|---------------|
| VOTAGE(VOC)                                                                       |  |            |       | 3.78               |      |               |
| AMPS/PHASE                                                                        |  |            |       | 4.20               |      |               |
| RESISTANCE/PHASE(Ohms)@25°C                                                       |  |            |       | 0.90±10%           |      |               |
| INDUCTANCE/PHASE(mH)@1KHz                                                         |  |            |       | 3.80±20%           |      |               |
| HOLDING TORQUE(Nm)[lb-in]                                                         |  |            |       | 2.80[24.78]        |      |               |
| STEP ANGLE(°)                                                                     |  |            |       | 1.80               |      |               |
| STEP ACCURACY(NON-ACCUM)                                                          |  |            |       | ±5.00%             |      |               |
| LEAD STYLE                                                                        |  |            |       | FVR 4X0.5mm² CABLE |      |               |
| LIFE(h)                                                                           |  |            |       | 6000               |      |               |
| TEMPERATURE RISE:MAX.80°C (MOTOR STANDSTILL;FOR 2PHASE ENERGIZED )                |  |            |       |                    |      |               |
| AMBIENT TEMPERATURE -10°C~50°C[14°F~122°F]                                        |  |            |       |                    |      |               |
| INSULATION RESISTANCE 100 Mohm (UNDER NORMAL TEMPERATURE AND HUMIDITY )           |  |            |       |                    |      |               |
| INSULATION CLASS B 130°C[266°F]                                                   |  |            |       |                    |      |               |
| DIELECTRIC STRENGTH 500VAC FOR 1MIN.(BETWEEN THE MOTOR COILS AND THE MOTOR CASE ) |  |            |       |                    |      |               |
| AMBIENT HUMIDITY MAX.85%(NO CONDENSATION)                                         |  |            |       |                    |      |               |
|                                                                                   |  |            |       | APVD               |      | STEPPER MOTOR |
|                                                                                   |  |            |       | CHKD               |      |               |
|                                                                                   |  |            | 1:1.5 | DRN                |      |               |
|                                                                                   |  |            | SCALE | SIGNATURE          | DATE |               |

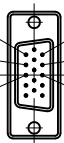
| TYPE OF CONNECTION (EXTERN) |         | MOTOR |                                                                                      |
|-----------------------------|---------|-------|--------------------------------------------------------------------------------------|
| PIN NO                      | BIPOLAR | LEADS | WINDING                                                                              |
| 1                           | A —     | RED   |  |
| 2                           | C —     | GRN   |                                                                                      |
| 3                           | B —     | YEL   |                                                                                      |
| 4                           | D —     | BLU   |                                                                                      |

DB MALE PLUG

PIN 11

PIN 12

PIN 13



PIN 1

PIN 2

PIN 3

|                     |     |     |     |     |     |     |
|---------------------|-----|-----|-----|-----|-----|-----|
| 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- |