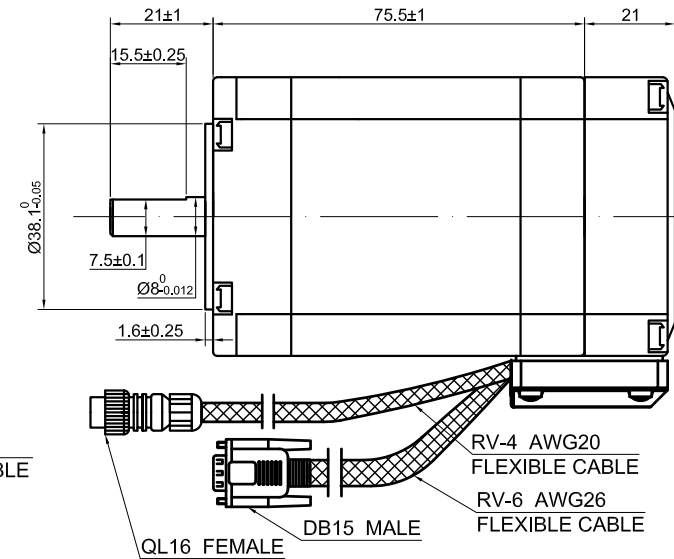
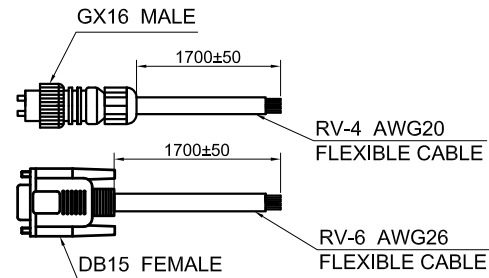
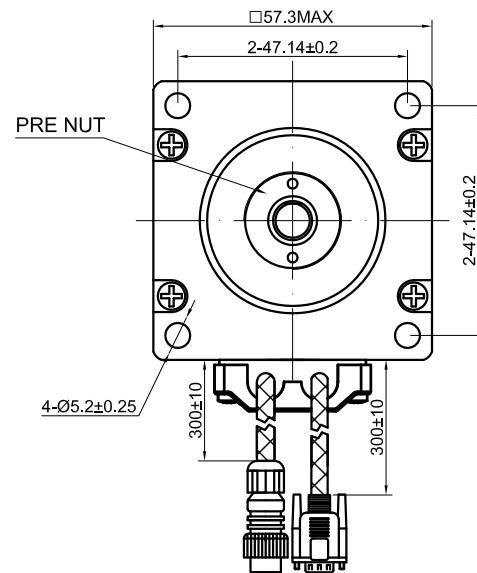




| SPECIFICATION                                                                    | CONNECTION | BIPOLAR     |
|----------------------------------------------------------------------------------|------------|-------------|
| AMPS/PHASE                                                                       |            | 4.00        |
| RESISTANCE/PHASE(Ohms)@20°C                                                      |            | 0.5±0.1     |
| INDUCTANCE/PHASE(mH)@1KHz                                                        |            | 2.1±20%     |
| HOLDING TORQUE(Nm)[lb-in]                                                        |            | 1.85[16.39] |
| STEP ANGLE(°)                                                                    |            | 1.80±5.00%  |
| DYNAMIC AXIAL LOAD(N)                                                            |            | 15.00       |
| DYNAMIC RADIAL LOAD(N)@SHAFT LENGTH 20mm                                         |            | 75.00       |
| ROTOR INERTIA(g-cm²)                                                             |            | 480.00      |
| WEIGHT(Kg)[lb]                                                                   |            | 1.19[2.63]  |
| RELIABILITY:MTBF 6000 HOURS OR MORE.@24V/300RPM                                  |            |             |
| TEMPERATURE RISE:MAX.80°C (MOTOR STANDSTILL;FOR 2PHASE ENERGIZED)                |            |             |
| AMBIENT TEMPERATURE -20°C~50°C[ -4°F~122°F]                                      |            |             |
| INSULATION CLASS B 130°C[266°F]                                                  |            |             |
| DIELECTRIC STRENGTH 500VAC FOR 1MIN.(BETWEEN THE MOTOR COILS AND THE MOTOR CASE) |            |             |

| TYPE OF CONNECTION (EXTERN) |         | MOTOR |             |
|-----------------------------|---------|-------|-------------|
| PIN NO                      | BIPOLAR | LEADS | WINDING     |
| 1                           | A —     | WHT   | A —<br>A\ — |
| 2                           | A\ —    | GRN   |             |
| 3                           | B —     | BLU   | B —<br>B\ — |
| 4                           | B\ —    | BLK   |             |

|                      |     |     |     |     |
|----------------------|-----|-----|-----|-----|
| 4-PIN QL16 MALE PLUG | 1   | 2   | 3   | 4   |
| LEAD COLOR           | WHT | GRN | BLU | BLK |

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

**STEPPERONLINE®**

|       |           |      |           |
|-------|-----------|------|-----------|
|       | APVD      |      | 3.30.2019 |
|       | CHKD      |      |           |
| 1:1.5 | DRN       |      |           |
| SCALE | SIGNATURE | DATE |           |

**STEPPER MOTOR**

**23HS30-4004D-E1000**