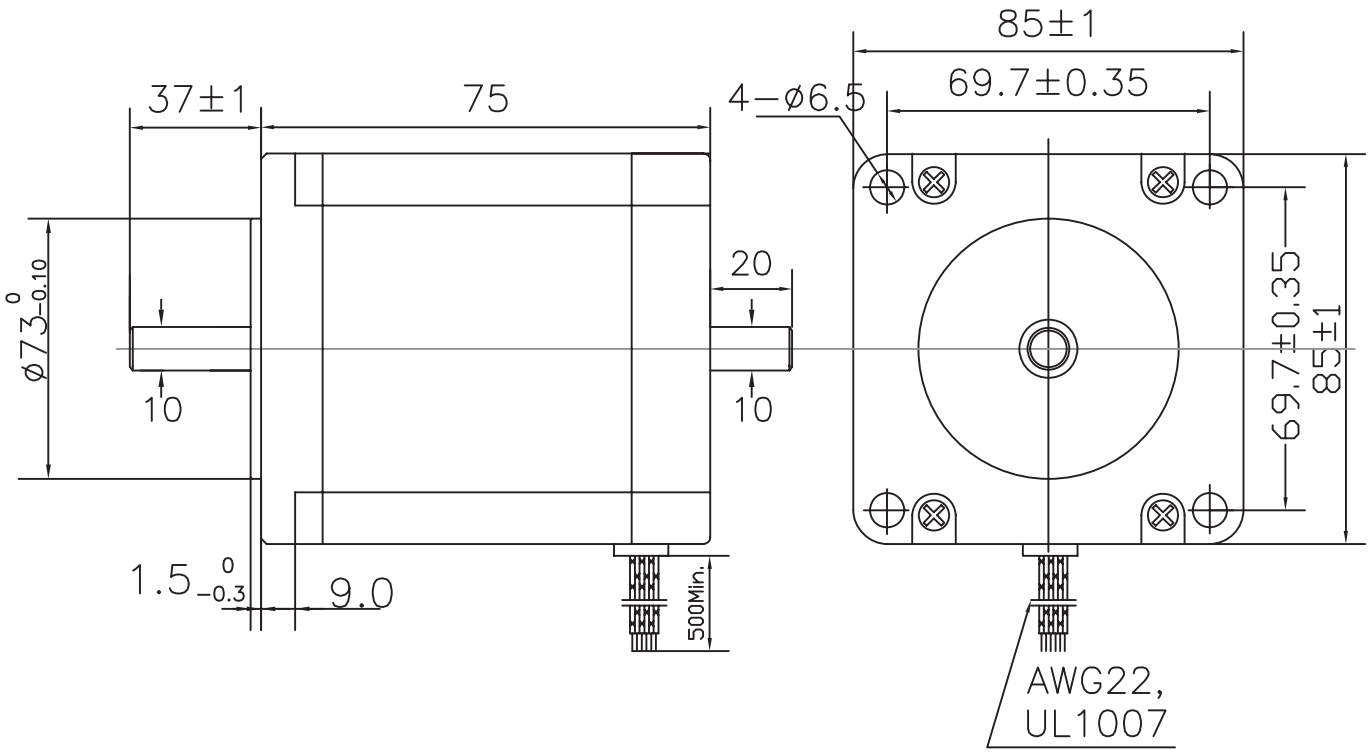
# HYBRID STEPPING MOTOR

# MODEL 160-010-00450

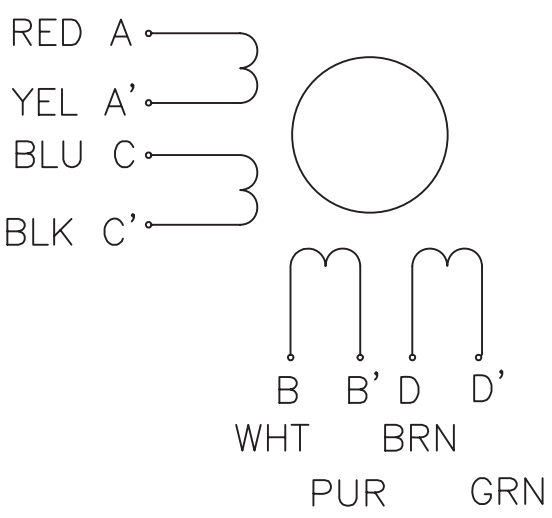



Unit: mm

## SPECIFICATION

| | | |
|---|---|---|
| STEP ANGLE | 1.8° / STEP | |
| VOLTAGE | 3.36V (Parallel) | 4.8V(serial) |
| CURRENT | 4.2 A/PHASE | 3A |
| RESISTANCE | 0.8 Ω /PHASE | 1.6Ω |
| INDUCTANCE | 3.5 mH/PHASE | 14mH |
| HOLDING TORQUE | 3.5Nm | 5Nm |
| MOTOR LENGTH | 75mm | |
| ROTOR INERTIA | | |
| MOTOR WEIGHT | | |

## WIRING DIAGRAM




Arc Euro Trade

# Motor connections for Arc Euro Trade Stepper Motors

**160-010-00450:** 350Ncm, 4.2A/Phase, 10mm Shaft

**For BIPOLAR SERIES:**

Join YELLOW A to BLUE C and insulate connection
Join PURPLE B to BROWN D and insulate connection
Winding One then equals RED and BLACK
Winding Two then equals WHITE and GREEN

**For BIPOLAR PARALLEL:**

Join RED to BLUE
Join YELLOW to BLACK. This is then Winding One.
Join WHITE to BROWN
Join PURPLE to GREEN. This is then Winding Two.

**For UNIPOLAR FOUR PHASE:**

Use RED, BLACK, WHITE and GREEN as the PHASE wires.
Join YELLOW to BLUE, and PURPLE to BROWN; these then become the POWER connections.
The phase sequence is RED, GREEN, BLACK WHITE (or WHITE, BLACK, GREEN, RED for reverse).

The Arc Euro Trade **160-020-00200 7.8A** controller will drive this motor at the rated power if set up correctly and connected to a **smoothed DC power supply rated at 2x the current setting used on the controller.**

We regret we are unable to advise you on the suitability of these motors for any application.