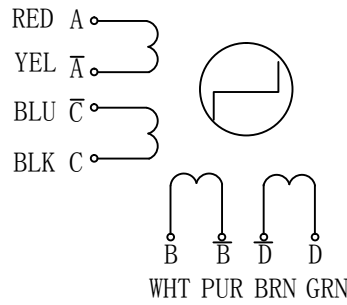


# HYBRID STEPPING MOTOR

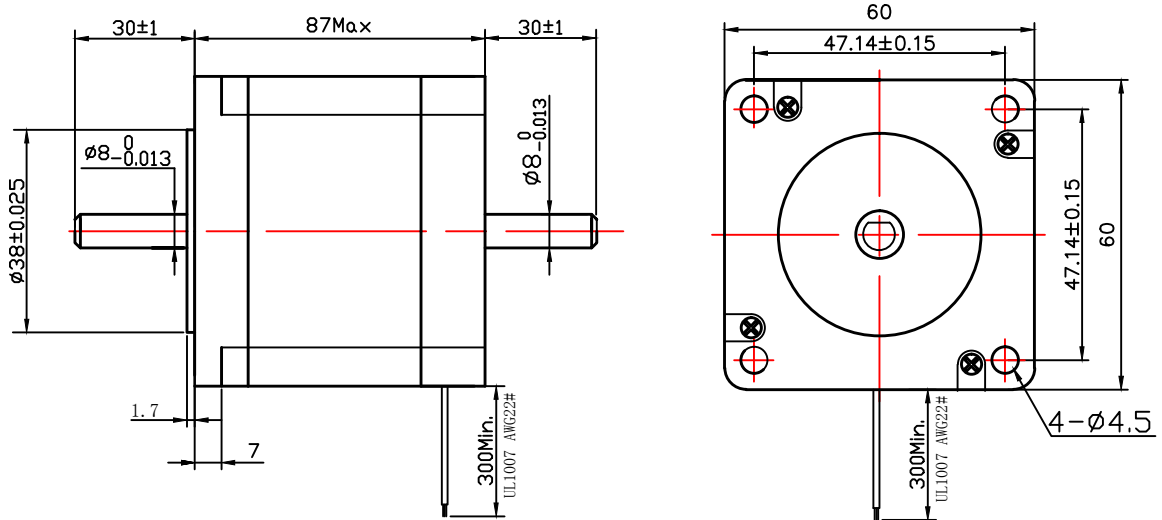
Wiring Diagram:



ARC CODE:160-010-00430

Dimensions:

(unit=mm)



Electrical Specifications:

STEP ANGLE	1.8	° /STEP	COMMENT
RATED VOLTAGE	3.9 (UNI.)	V	BI-POLAR(S): 2.1A, 3Nm  BI-POLAR(P): 4.2A, 3Nm
CURRENT	3.0 (UNI.)	A/PHASE	
RESISTANCE	1.3 (UNI.)	Ω /PHASE	
INDUCTANCE	3.2 (UNI.)	mH/PHASE	
HOLDING TORQUE	2 (UNI.)	Nm	
INSULATION CLASS	B		

**Arc Euro Trade**

## Motor connections for Arc Euro Trade Stepper Motors

<b>160-010-00100:</b>	36Ncm, 1A/Phase, 6mm Shaft
<b>160-010-00200:</b>	180Ncm, 2.5A/Phase, 6mm Shaft
<b>160-010-00300:</b>	180Ncm, 2.5A/Phase, ¼" Shaft
<b>160-010-00400:</b>	220Ncm, 2.5A/Phase, 10mm Shaft
<b>160-010-00430:</b>	300Ncm, 4.2A/Phase, 8mm 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 **160-020-00101 4.2A** controller will drive our **160-010-00100, 160-010-00200, 160-010-00300, 160-010-00400 and 160-010-00430** motors at their 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.

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## Additional information for the Arc Euro Trade 4" and 6" Rotary Tables fitted with our 160-010-00300 Stepper Motor

The motor is wired in Bi-Polar Parallel mode to a 4 pin XLR plug

Pin 1: Red and Blue  
Pin 2: Yellow and Black  
Pin 3: Purple and Green  
Pin 4: White and Brown

We also supply a suitable XLR chassis socket, Code 160-030-00225

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