	REVISIONS								
ECO # REV. DESCRIP		DESCRIPTION	DATE	APPROVED					
7747	А	INITIAL RELEASE	12/20/17	JEFF. K					
8675	В	re-draw in solidworks, match 3d model	6/15/21	LEO. L					
	•			•					

SPECIFICATION							
NUMBER OF PHASES: 4				ROTOR INERTIA: 57 g-cm <sup>2</sup> (0.31 oz-in <sup>2</sup> ) NOM			
STEPS PER REVOLUTION: 200					DETENT TORQUE: 152.9 g-cm (2.12 oz-in) MIN		
STEP ANGLE: 1.8°					INSULATION CLASS: B		
STEP TO STEP ACCURACY: 0.09° 1 , 2			BEARINGS: ABEC 3, DOUBLE SHIELDED				
POSITION ACCURACY: 0.09°	1	,	3		TEMP. RISE: 80°C MAX.	9	
HYSTERESIS: N/A%					OPERATING TEMP. RANGE: -20 TO +50 °C		
SHAFT RUNOUT: 0.03 mm T.I.R. MAX				STORAGE TEMP. RANGE: -30 TO +70°C			
RADIAL PLAY: 0.02 mm MAX (0.5 kg RADIAL LOAD)				RELATIVE HUMIDITY RANGE: 15 TO 85%			
END PLAY: 0.08 mm MAX (0.5 kg AXIAL LOAD)				WEIGHT: 280 g (9.8 oz ) APPROXIMATE			

CONNECTION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE (mH ±20%)	RATED CURRENT (Amp)	HOLDING TORQUE 1 (Nm MIN)	HOLDING TORQUE 1 (oz-in)
BI-POLAR SERIES	7.0	12	0.85	0.37	52.40
BI-POLAR PARALLEL	1.7	3	1.70	0.37	52.40
UNI-POLAR	3.5	3	1.20	0.29	41.07

## NOTES, UNLESS OTHER WISE SPECIFIED:

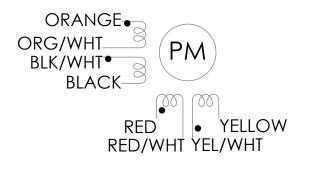
- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
- 4. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 8, 26 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 AS MEASURED ACROSS EACH PHASE.
- 8 AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
- 9 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES: WITH MOTOR AT REST.
- 10 ENCODER INSTALLED PER AMP ASSEMBLY PRACTICES. ENCODER CABLE SOLD SEPARATELY.
- 11. ROTOR AND STATOR LAMINATED CONSTRUCTION.
- 12. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU ROHS DIRECTIVE.
- MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.

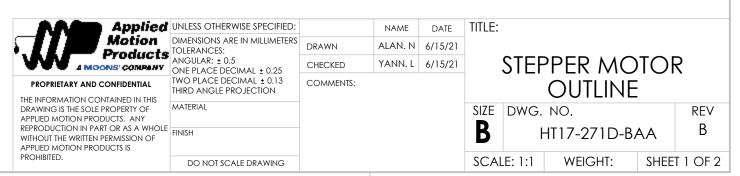
## DRIVE SEQUENCE MODEL BI-POLAR PARALLEL FULL STEP

	STEP	ORG & BLK/WHT	BLK & ORG/WHT	RED & YEL/WHT	YEL & RED/WHT	CCW
	1	+	-	+	-	I
	2	-	+	+	-	
V	3	-	+	-	+	
CW	4	+	-	-	+	
	1	+	-	+	-	'

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

## **WIRING DIAGRAM**





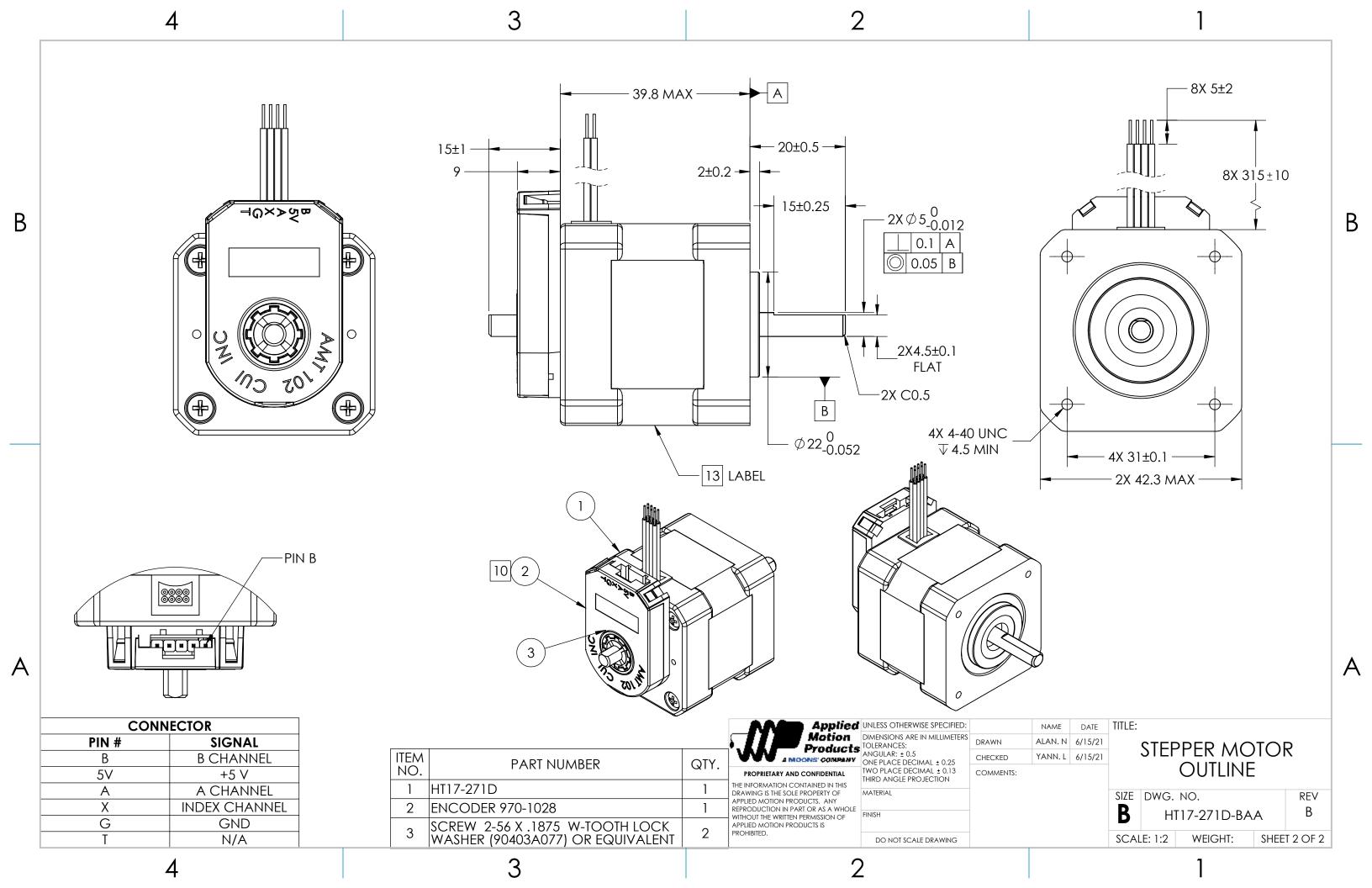
A

4

3

2

1



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Applied Motion: HT17-271D-BAA