	2

SPECIFICATIONS:							
NUMBER OF PHASES: 4		ROTOR INERTIA: 750 g-cm ² (4.09 oz-in ²) NOM					
STEPS PER REVOLUTION: 200		DETENT TORQUE: 120 mN-m (16.99 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°	CURACY: 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: 1500 G (3.3 LB) APPROXIMATE					

	REVISIONS						
ECO #	REV.	DESCRIPTION	DATE	APPROVED			
7710	A	INITIAL RELEASE	9/27/17	J. KORDIK			
8705	В	FRONT END BELL THICKNESS FROM 5+/-0.5 TO 4.8+/-0.3	8/23/21	L. LIU			
8787	С	REVISED MODEL & UPDATED SHEET FORMAT	5/20/22	L. LIU			

CONNECTION	RESISTANCE PER PHASE 7 (ohm ±10%)	INDUCTANCE PER PHASE 8 (mH ±20%)	RATED CURRENT (Amp)	HOLDING TORQUE 1 (Nm MIN)	HOLDING TORQUE 1 (oz-in)
BI-POLAR SERIES	2.0	8.8	2.5	2.5	354
BI-POLAR PARALLEL	0.5	2.2	5.0	2.5	354
UNI-POLAR	1.0	2.2	3.5	1.86	264

NOTES, UNLESS OTHER WISE SPECIFIED:

4

- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.

В

Α

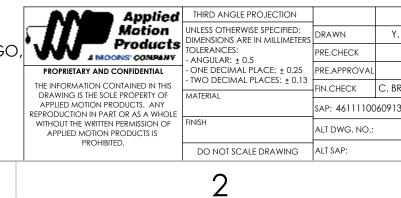
- 4. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 8, 22 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 AS MEASURED ACROSS EACH PHASE.
- 8 AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
- 9 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES: WITH MOTOR AT REST.
- 10 ENCODER 970-1028 INSTALLED PER AMP ASSEMBLY PRACTICES.
 - ENCODER CABLE SOLD SEPARATELY.

4

- 11. ROTOR AND STATOR LAMINATED CONSTRUCTION.
- 12. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU ROHS DIRECTIVE.
- 13 MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "ROHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.

3

14. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.



(A+ STEP & Β 2 3 4 CW

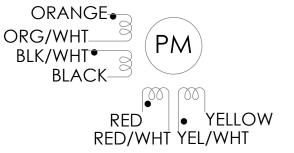
CW (CLOCKWISE

WHEN SEEN FRO

+	-		-		+		
+	-		+		-		
) AND CCW (COUNTER-CLOCKWISE) ROTATION OM THE MOUNTING FACE END OF THE MOTOR							
NAME	DATE	TITLE:	:				
'. LAPNET	5/20/22		STEPPE	-R	MOTO)R	
			012112				
		-					
BREUNINGER	5/20/22	SIZE	DWG. NO.				REV
3		D		005			\mathbf{C}
		B	HT23-6	03L	J-CAA		C
		SCALE: 1:1 SHEET 1 OF 2			2		
			-				

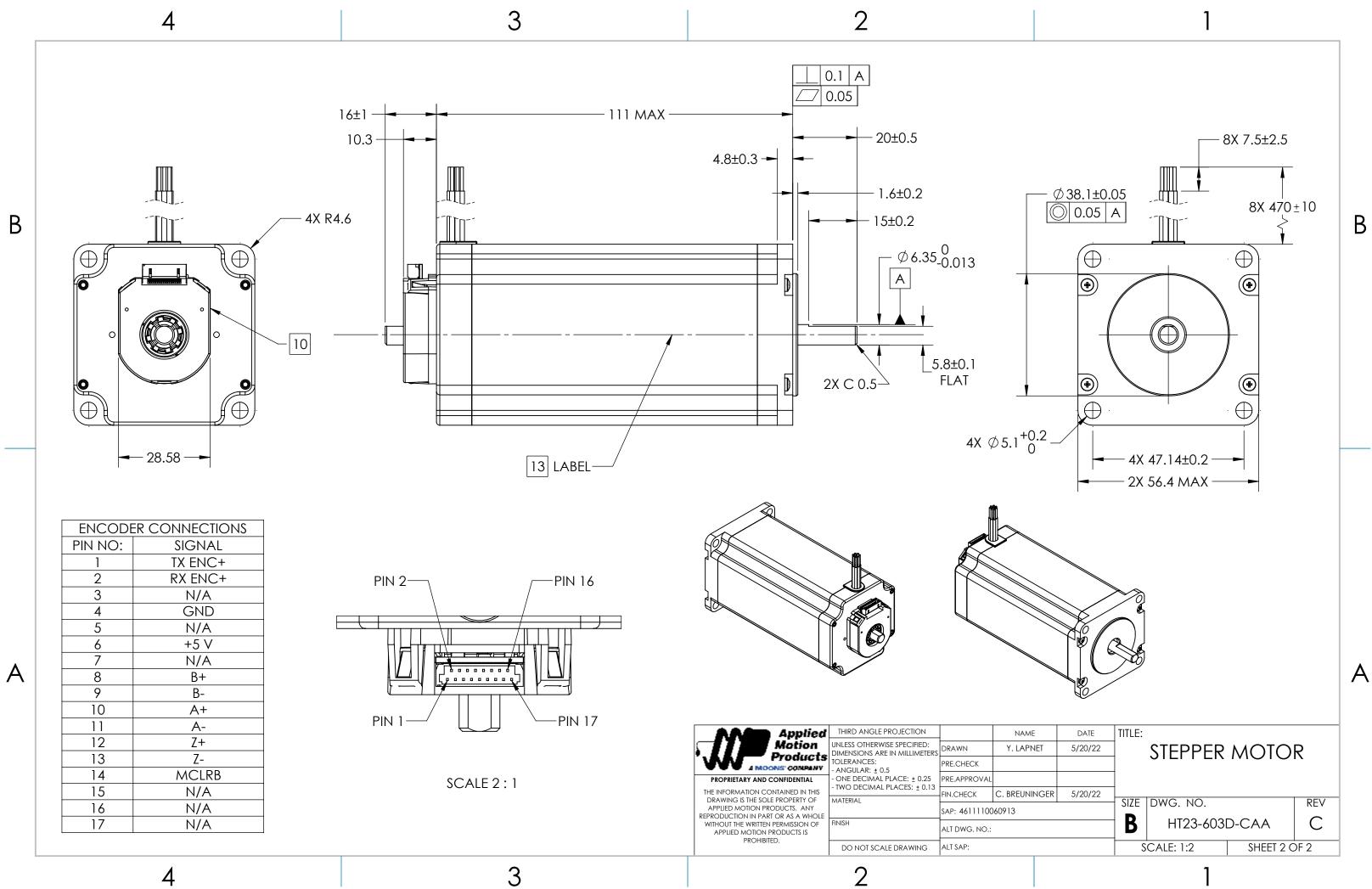
+) ORG SKL/WHT	(A-) BLK & ORG/WHT	(B+) RED & YEL/WHT	(B-) YEL & RED/WHT	CCW
+	-	+	-	Á
-	+	+	-	
-	+	-	+	
+	-	-	+	
+	-	+	-	

DRIVE SEQUENCE MODEL **BI-POLAR PARALLEL FULL STEP**



WIRING DIAGRAM

B



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Applied Motion: <u>HT23-603D-CAA</u>