2

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SPECIFICATIONS:						
NUMBER OF PHASES: 4	ROTOR INERTIA: 460 g-cm ² (2.515 oz-in ²) NOM					
STEPS PER REVOLUTION: 200	DETENT TORQUE: 713.8 g-cm (9.91 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 LOA	RELATIVE HUMIDITY RANGE 15 TO 85%					
END PLAY: 0.08 mm MAX (0.5 kg AXIAL LOAD)	WEIGHT: 1000 G (35.2 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	2.0	6.8	2.12	1.90	269
BI-POLAR PARALLEL	0.5	1.75	4.24	1.90	269
UNI-POLAR	1.0	1.75	3.00	1.35	191

NOTES, UNLESS OTHER WISE SPECIFIED:

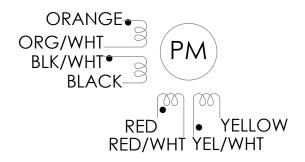
- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.

В

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

REVISIONS					
ECO#	ECO # REV. DESCRIPTION		DATE	APPROVED	
7747	Α	INITIAL RELEASE	12/20/17	JEFF. K	
8705	В	REDRAWN IN SOLIDWORKS BY ALAN. N, END BELL THK FROM 5+/- 0.5 TO 4.8+/-0.3	8/23/21 ALAN. N	LEO. L	

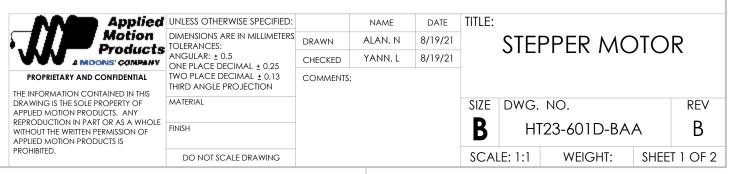
WIRING DIAGRAM



DRIVE SEQUENCE MODEL BI-POLAR PARALLEL FULL STEP

	STEP	(A+) ORG & BKL/WHT	(A-) BLK & ORG/WHT	(B+) RED & YEL/WHT	(B-) YEL & RED/WHT	CCW
	1	+	1	+	-	A
	2	-	+	+	-	
	3	-	+	-	+	
V	4	+	-	-	+	
CW	1	+	-	+	-	

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE MOUNTING FACE END OF THE MOTOR



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