8787

С

5/20/22

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	revisions							
ECO#	# REV. DESCRIPTION		DATE	APPROVED				
7747	Α	INITIAL RELEASE	12/20/17	J. KORDIK				
8705	R	FND BELL THK FROM 5+/- 0.5 TO 4.8+/-0.3	8/23/21	1 1111				

REVISED MODEL & UPDATED SHEET FORMAT

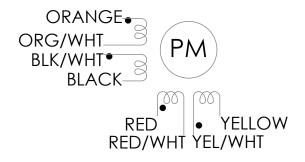
SPECIFICATIONS: ROTOR INERTIA: 460 g-cm² (2.515 oz-in²) NOM NUMBER OF PHASES: 4 STEPS PER REVOLUTION: 200 DETENT TORQUE: 713.8 g-cm (9.91 oz-in) MIN STEP ANGLE: 1.8° INSULATION CLASS: B STEP TO STEP ACCURACY: 0.09° BEARINGS: ABEC 3, DOUBLE SHIELDED 3 POSITION ACCURACY: 0.09° TEMP. RISE: 80°C MAX. HYSTERESIS: 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: 1000 G (35.2 oz) APPROXIMATE

CONNECTION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE (mH ±20%)	RATED CURRENT (Amp)	HOLDING TORQUE (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°.
- 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.
- 13 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.

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	+	-	+	-	

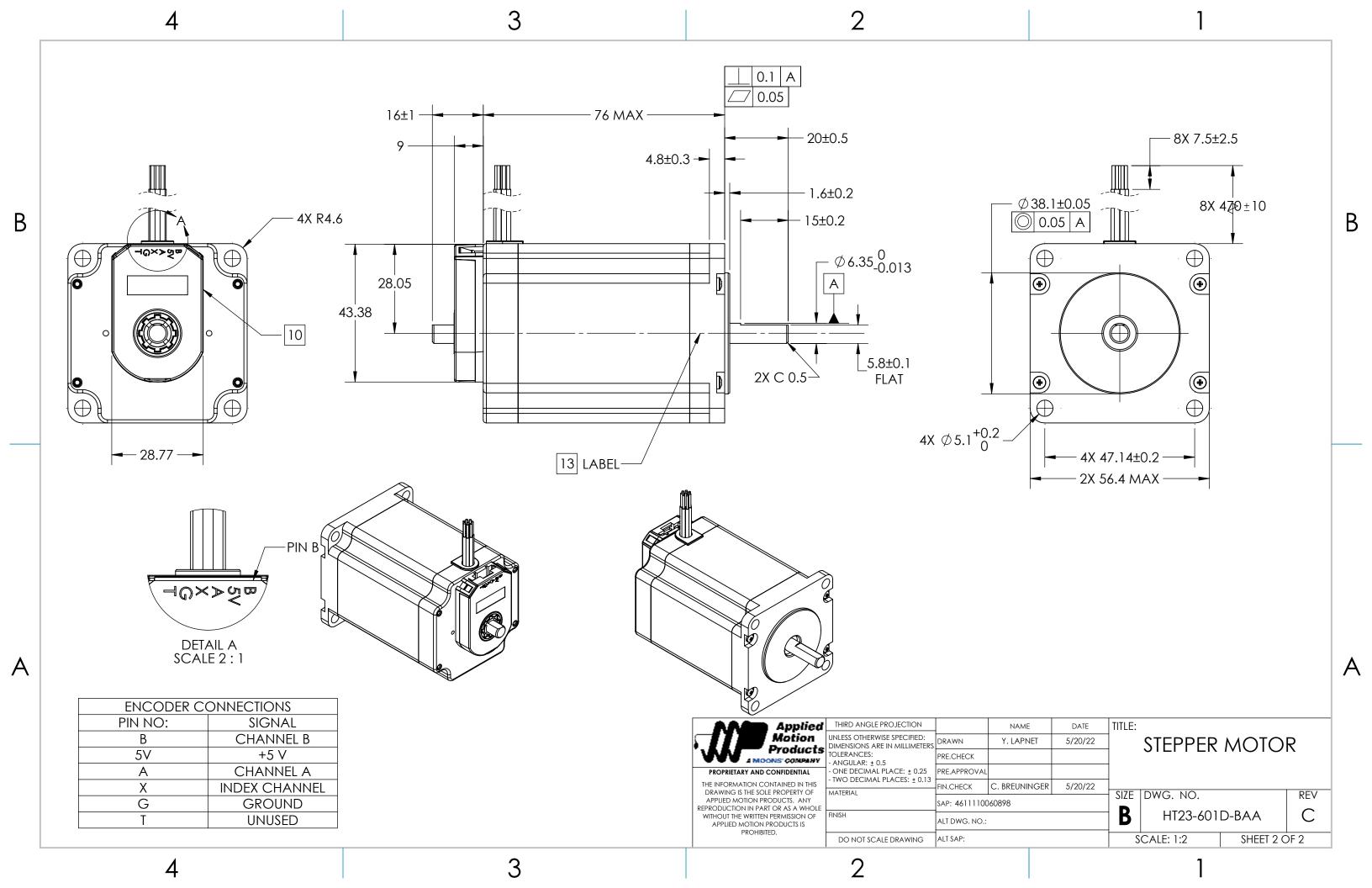
CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE MOUNTING FACE END OF THE MOTOR

Applied	THIRD ANGLE PROJECTION		NAME	DATE	TITLE:			
Motion Products	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACES: ± 0.13 MATERIAL	DRAWN	Y. LAPNET	5/20/22		STEPPER	R	
4 MOONS' COMPANY		PRE.CHECK				OTEL TER	771010	
PROPRIETARY AND CONFIDENTIAL		PRE.APPROVAL						
THE INFORMATION CONTAINED IN THIS		FIN.CHECK	C. BREUNINGER	5/20/22				
DRAWING IS THE SOLE PROPERTY OF APPLIED MOTION PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE		SAP: 4611110060898			SIZE	DWG. NO.		REV
	FINISH	ALT DWG. NO.:] B	HT23-601D-BAA		С
FRONIBITED.	DO NOT SCALE DRAWING	AWING ALT SAP:			SCALE: 1:1		SHEET 1 C)F 2

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Applied Motion: HT23-601D-BAA