8787

5/20/22

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	REVISIONS							
ECO#	CO # REV. DESCRIPTION		DATE	APPROVED				
7462	А	INITIAL RELEASE	8/9/16	J. KORDIK				
7852	В	REVISED MOTOR WEIGHT	3/1/18	J. KORDIK				
8705		LIPDATED SHAFT RUNOUT, WIRE GALIGE & END BELL THK	8/23/21	1 1111				

REVISED MODEL & UPDATED SHEET FORMAT

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.						
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: 1470 G (51.85 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

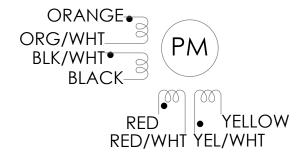
NOTES, UNLESS OTHER WISE SPECIFIED:

- MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- MAXIMUM ERROR IN 360°.
- HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- LEADS: 8, 22 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- AS MEASURED ACROSS EACH PHASE.
- AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
- AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES: WITH MOTOR AT REST.
- BRAKE ATTACHED TO REAR END OF MOTOR. TWO BREAK LEADS ARE 24 AWG, UL1332, RED="+".
- 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.

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BRAKE SPECIFICATIONS								
VOLTAGE	CURRENT	POWER	TORQUE	MAX.	ENGAGE	DISENGAGE	INSULAGION	
				SPEED	DELAY	DELAY	CLASS	
24 VDC	167 mA	4 W	1.5 Nm	1000 RPM	50 ms	50 ms	В	

WIRING DIAGRAM

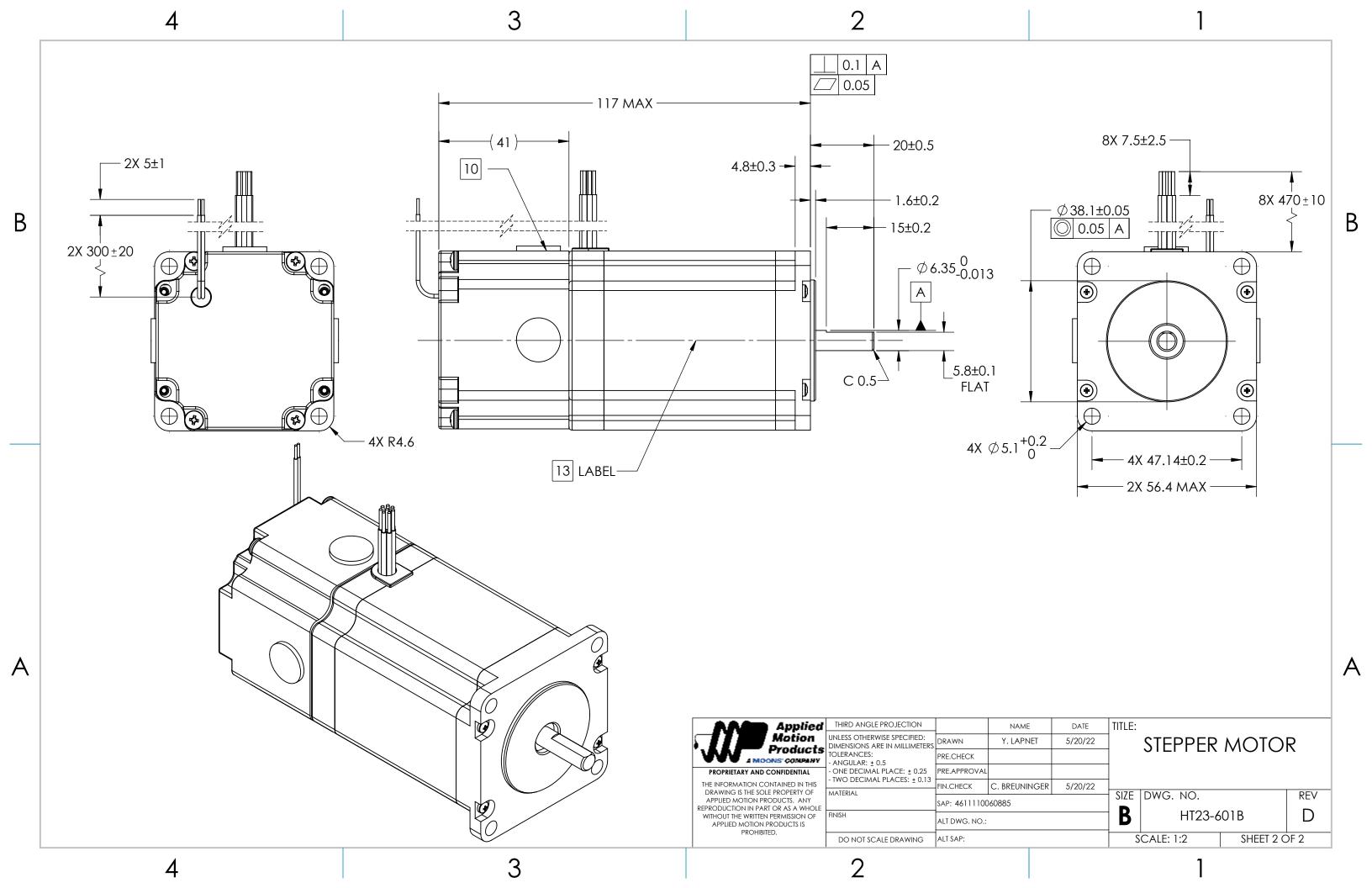


DRIVE SEQUENCE MODEL BI-POLAR PARALLEL FULL STEP

	STEP	(A+) ORG & BKL/WHT	(A-) BLK & ORG/WHT	(B+) RED & YEL/WHT	(B-) YEL & RED/WHT	CCW
	1	+	ı	+	-	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	IDMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13 MATERIAL	DRAWN	Y. LAPNET	5/20/22		STEPPER	MOTO	R
4 MOONS' COMPANY		PRE.CHECK				OTEL TER	7710101	'`
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: 4611110060885			SIZE	DWG. NO.		REV
WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS	FINISH	ALT DWG. NO.:			В	HT23-601B		D
PROHIBITED.	DO NOT SCALE DRAWING	ALT SAP:			S	CALE: 1:1	SHEET 1 OF 2	



Mouser Electronics

Authorized Distributor

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

Applied Motion: HT23-601B