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	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° 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						
В	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: 2060 G (4.6 LB) APPROXIMATE						
	CONNECTION PER PHASE 7 PER PHASE 8 CURRENT TOROUE 1 TOROUE 1							

REVISIONS					
ECO #	REV.	DESCRIPTION	DATE	APPROVED	
7462	А	INITIAL RELEASE	8/9/16	J. KORDIK	
7852	В	REVISED MOTOR WEIGHT	2/16/18	J. KORDIK	
8705	С	updated shaft runout and end bell thickness	8/23/21	L. LIU	
8787	D	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 (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

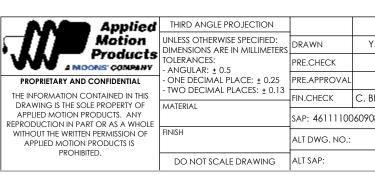
NOTES, UNLESS OTHER WISE SPECIFIED:

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

Α

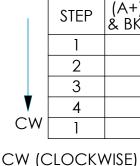
- HIPOT 500 VAC, 60Hz FOR ONE MINUTE. 4.
- 5 LEADS: 8, 22 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 AS MEASURED ACROSS EACH PHASE.
- 8 AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
- 9 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES: WITH MOTOR AT REST.
- 10 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.
- 13 MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.

10							
	BRAKE SPECIFICATIONS						
VOLTAGE	CURRENT	POWER	TORQUE	MAX. SPEED	ENGAGE DELAY	DISENGAGE DELAY	INSULAGION CLASS
24 VDC	167 mA	4 W	1.5 Nm	1000 RPM	50 ms	50 ms	В



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ORANGE-ORG/WHT



	I	+	-		+	-	
W (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE MOUNTING FACE END OF THE MOTOR							
CTION		NAME	DATE	TITLE:			
CIFIED: LIMETERS	DRAWN	Y. LAPNET	5/20/22	-	STEPPE	R MOTO	
	PRE.CHECK			1			
± 0.25	PRE.APPROVAL	-		1			
S: ± 0.13	FIN.CHECK	C. BREUNINGER	5/20/22	0175			
	SAP: 4611110	060908		SIZE	DWG. NO.		REV
	ALT DWG. NO.:	:		В НТ23-603В			D
WING	ALT SAP:	T SAP:			SCALE: 1:1	SHEET	1 OF 2
]		

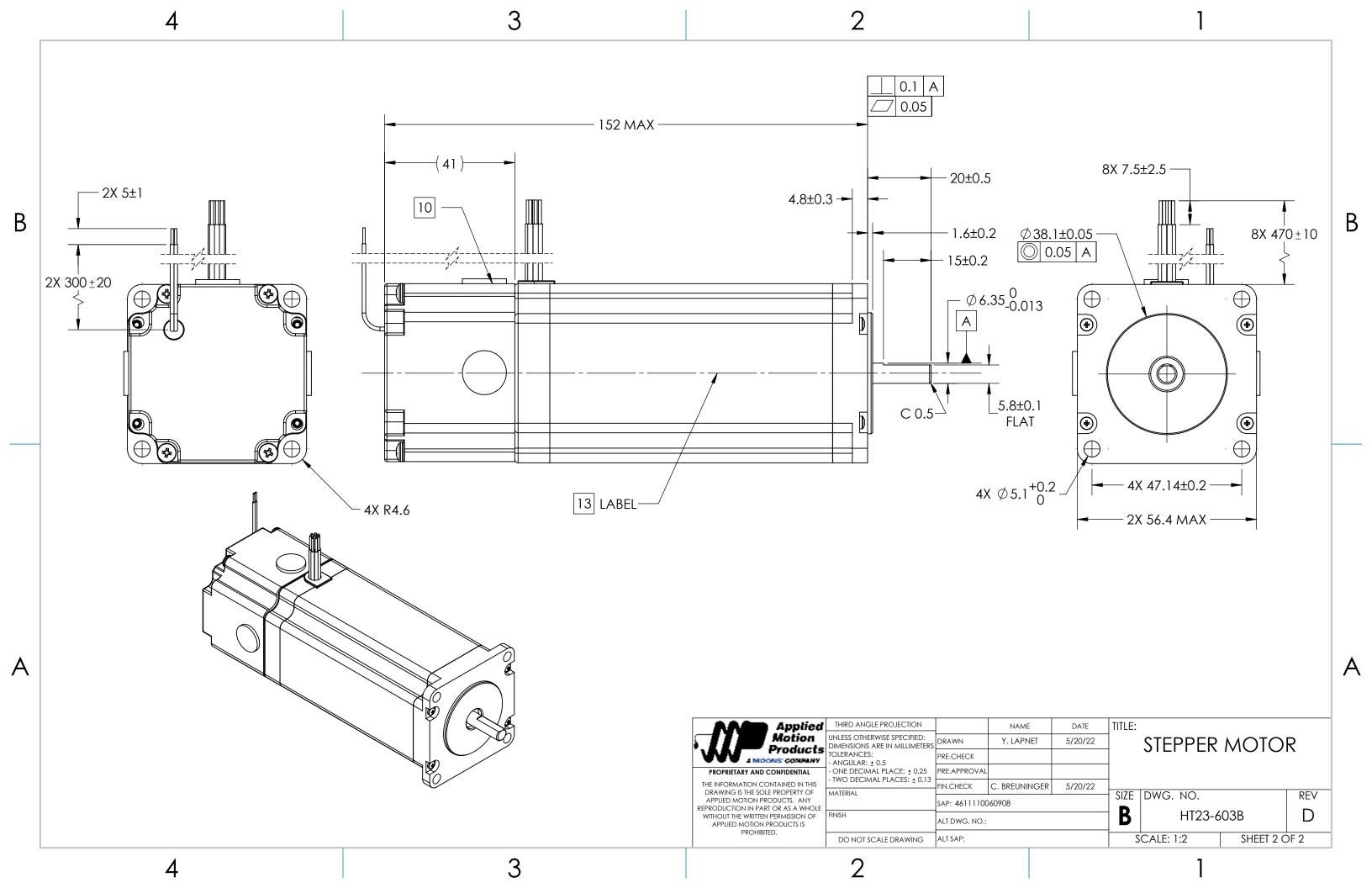
+) ORG SKL/WHT	(A-) BLK & ORG/WHT	(B+) RED & YEL/WHT	(B-) YEL & RED/WHT	CCW
+	-	+	-	Å
-	+	+	-	
-	+	-	+	
+	-	-	+	
+	-	+	-	
				•

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

ΡM BLK/WHT• g BLACK-• YELLOW RED **RED/WHT YEL/WHT**

WIRING DIAGRAM

В



Mouser Electronics

Authorized Distributor

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

Applied Motion: <u>HT23-603B</u>