

4

3

2

1

SPECIFICATIONS:

NUMBER OF PHASES: 4	ROTOR INERTIA: 135 g-cm ² (0.738 oz-in ²) NOM				
STEPS PER REVOLUTION: 200	DETENT TORQUE: 224.3 g-cm (3.11 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 LOAD)	RELATIVE HUMIDITY RANGE 15 TO 85%				
END PLAY: 0.08 mm MAX (0.5 kg AXIAL LOAD)	WEIGHT: 880 G (31.04 oz) APPROXIMATE				

CONNECTION	RESISTANCE PER PHASE (ohm ±10%) 7	INDUCTANCE PER PHASE (mH ±20%) 8	RATED CURRENT (Amp)	HOLDING TORQUE (Nm MIN) 1	HOLDING TORQUE (oz-in) 1
BI-POLAR SERIES	2.8	5.6	1.41	0.54	76.5
BI-POLAR PARALLEL	0.7	1.4	2.83	0.54	76.5
UNI-POLAR	1.4	1.4	2.00	0.39	55.2

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

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	B

APPLIED MOTION PRODUCTS

1 MOONS' COMPANY

PROPRIETARY AND CONFIDENTIAL

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THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:
- ANGULAR: ± 0.5
- ONE DECIMAL PLACE: ± 0.25
- TWO DECIMAL PLACES: ± 0.13

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME

Y. LAPNET

DATE

5/20/22

FIN.CHECK

C. BREUNINGER

5/20/22

SAP: 4611110060809

ALT DWG. NO.:

ALT SAP:

TITLE:

STEPPER MOTOR

SIZE

B

DWG. NO.

HT23-594B

REV

D

SCALE: 1:1

SHEET 1 OF 2

WIRING DIAGRAM

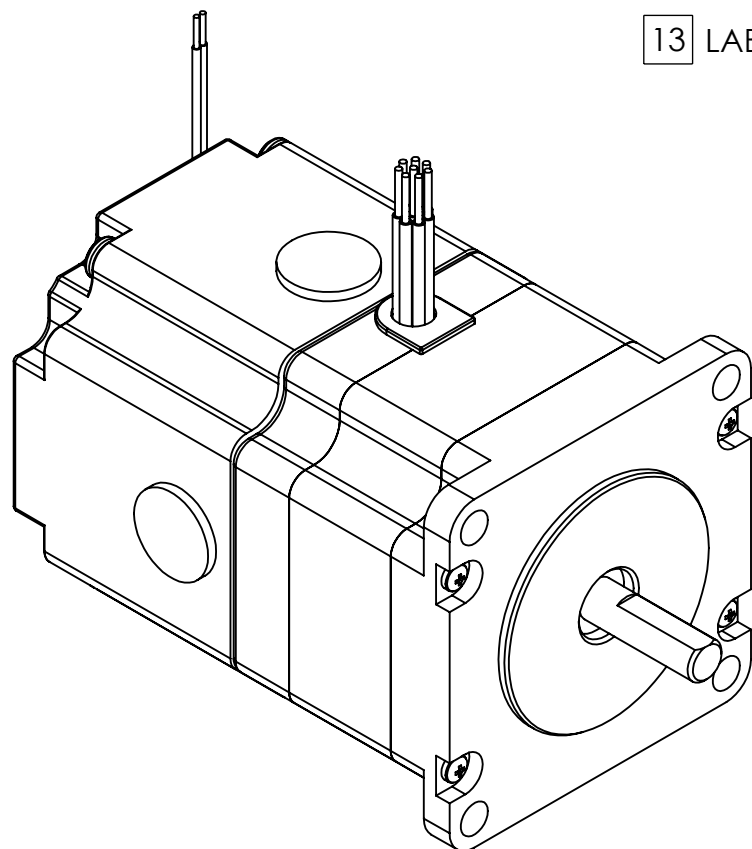
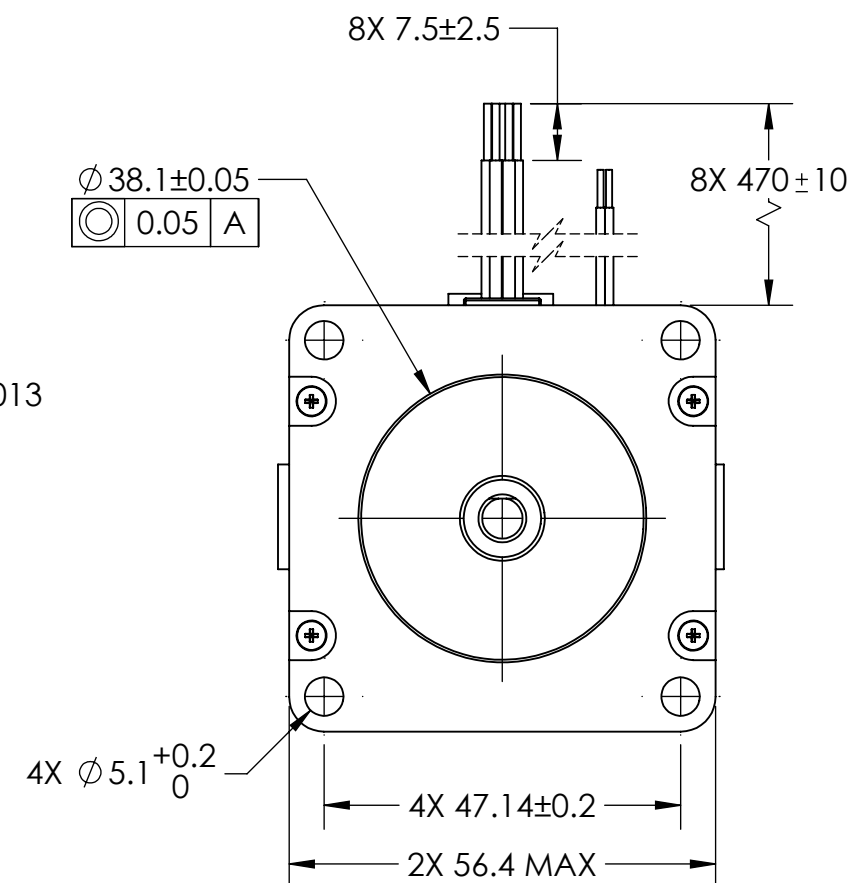
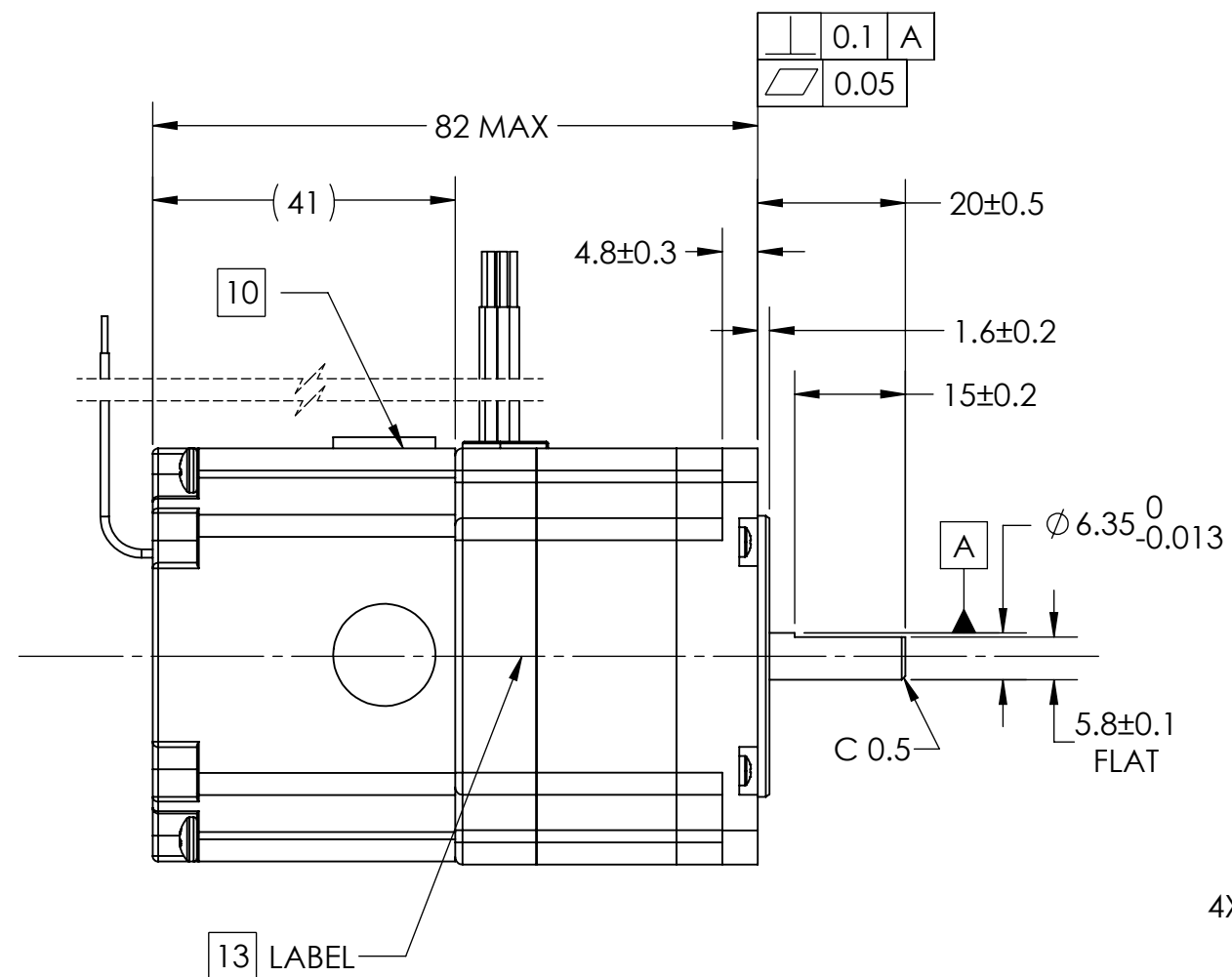
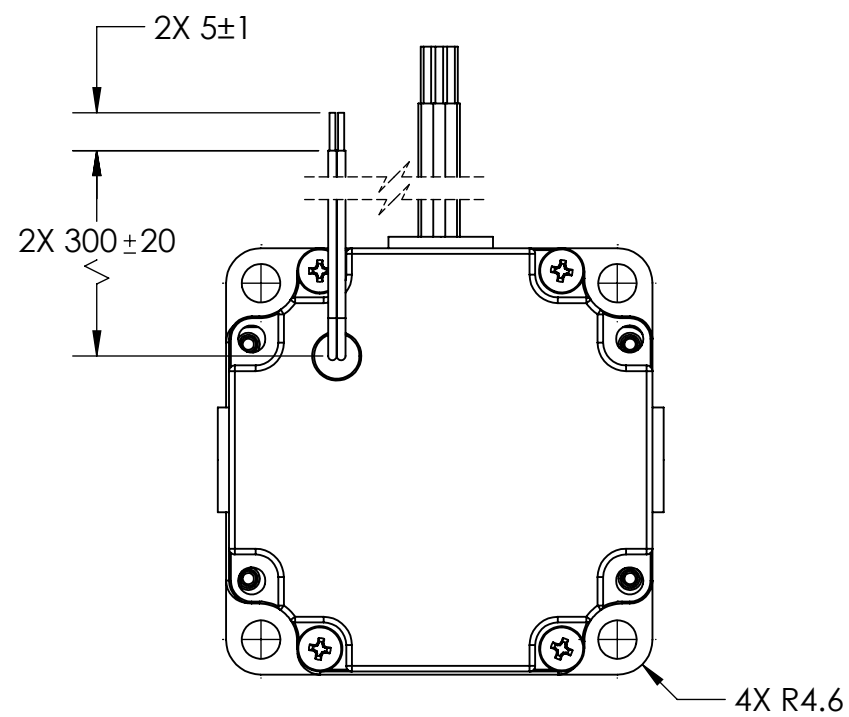
DRIVE SEQUENCE MODEL
BI-POLAR PARALLEL FULL STEP


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

CW

CCW

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



 <p>Applied Motion Products A MOONS COMPANY</p>	THIRD ANGLE PROJECTION		NAME	DATE	TITLE: <div>STEPPER MOTOR</div>		
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	DRAWN	Y. LAPNET	5/20/22			
<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APPLIED MOTION PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS PROHIBITED.</p>		PRE.CHECK			SIZE B	DWG. NO. HT23-594B	REV D
		PRE.APPROVAL					
	MATERIAL	FIN.CHECK	C. BREUNINGER	5/20/22			
	FINISH	SAP: 4611110060809					
		ALT DWG. NO.:					
	DO NOT SCALE DRAWING	ALT SAP:			SCALE: 1:2		SHEET 2 OF 2