

SPECIFICATION

NUMBER OF PHASES: 4	ROTOR INERTIA: 82 g-cm ² (0.44 oz-in ²) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 244 g-cm (3.39 oz-in) NOM
STEP ANGLE: 1.8°	INSULATION CLASS: B
STEP TO STEP ACCURACY: 0.09°	BEARINGS: ABEC 3, DOUBLE SHIELDED
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 kgf RADIAL LOAD)	RELATIVE HUMIDITY RANGE: 15 TO 85%
END PLAY: 0.2 mm MAX (15 kgf AXIAL LOAD)	WEIGHT: 340 g (12 oz) APPROXIMATE

CONNECTION	RESISTANCE PER PHASE (ohm $\pm 10\%$)	INDUCTANCE PER PHASE (mH $\pm 20\%$)	RATED CURRENT (Amp)	HOLDING TORQUE (Nm MIN)	HOLDING TORQUE (oz-in MIN)
BI-POLAR SERIES	6.6	12.6	0.85	0.50	70.8
BI-POLAR PARALLEL	1.7	3.15	1.70	0.50	70.8
UNI-POLAR	3.3	3.15	1.20	0.35	49.5

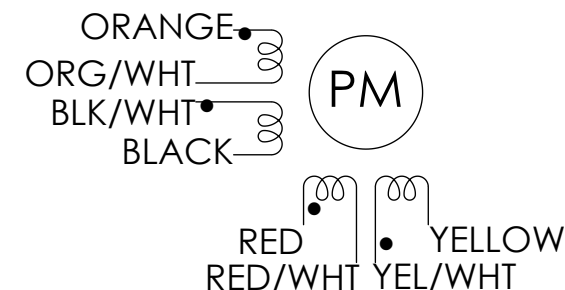
NOTES, UNLESS OTHER WISE SPECIFIED:

- 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, 26 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430
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. ROTOR AND STATOR LAMINATED CONSTRUCTION.
11. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU RoHS DIRECTIVE.
- 12 MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.

REVISIONS

ECO #	REV.	DESCRIPTION	DATE	APPROVED
9023	A	INITIAL RELEASE OF SEPARATE DUAL SHAFT DRAWING	01/18/24	K.KESLER

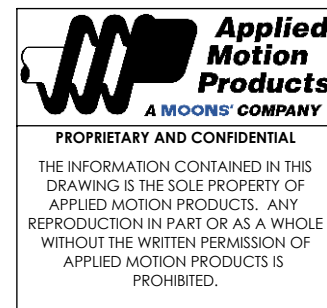
WIRING DIAGRAM



DRIVE SEQUENCE MODEL BI-POLAR PARALLEL FULL STEP

STEP	ORG & BLK/WHT	BLK & ORG/WHT	RED & YEL/WHT	YEL & RED/WHT	CCW
1	+	-	+	-	
2	-	+	+	-	
3	-	+	-	+	
4	+	-	-	+	
1	+	-	+	-	

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION
WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR



THIRD ANGLE PROJECTION		NAME	DATE	TITLE: STEPPER MOTOR		
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	DRAWN	C.BREUNINGER	01/17/23			
	PRE.CHECK					
	PRE.APPROVAL					
	FIN.CHECK	E.MERINO	01/18/23	SIZE	DWG. NO.	REV
MATERIAL	SAP: 4611110029090			B	HT17-275D	A
FINISH	ALT DWG. NO.:					
DO NOT SCALE DRAWING	ALT SAP:			SCALE: 1:1		SHEET 1 OF 2

4

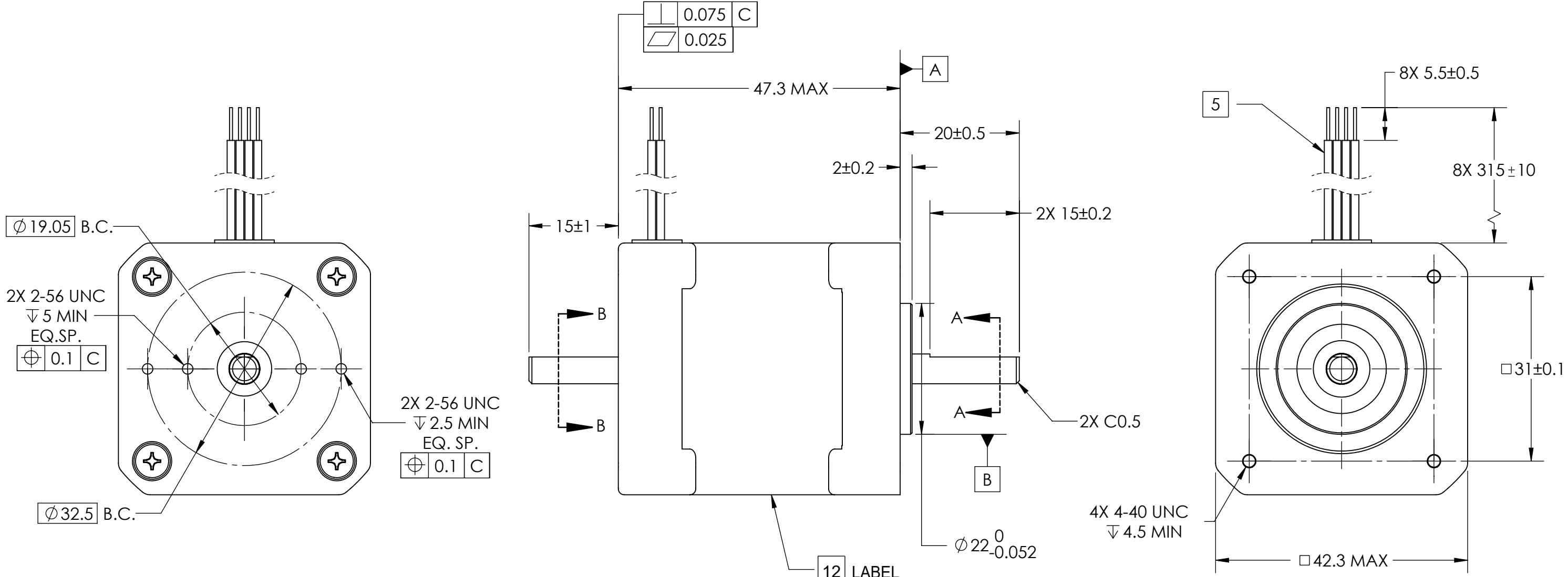
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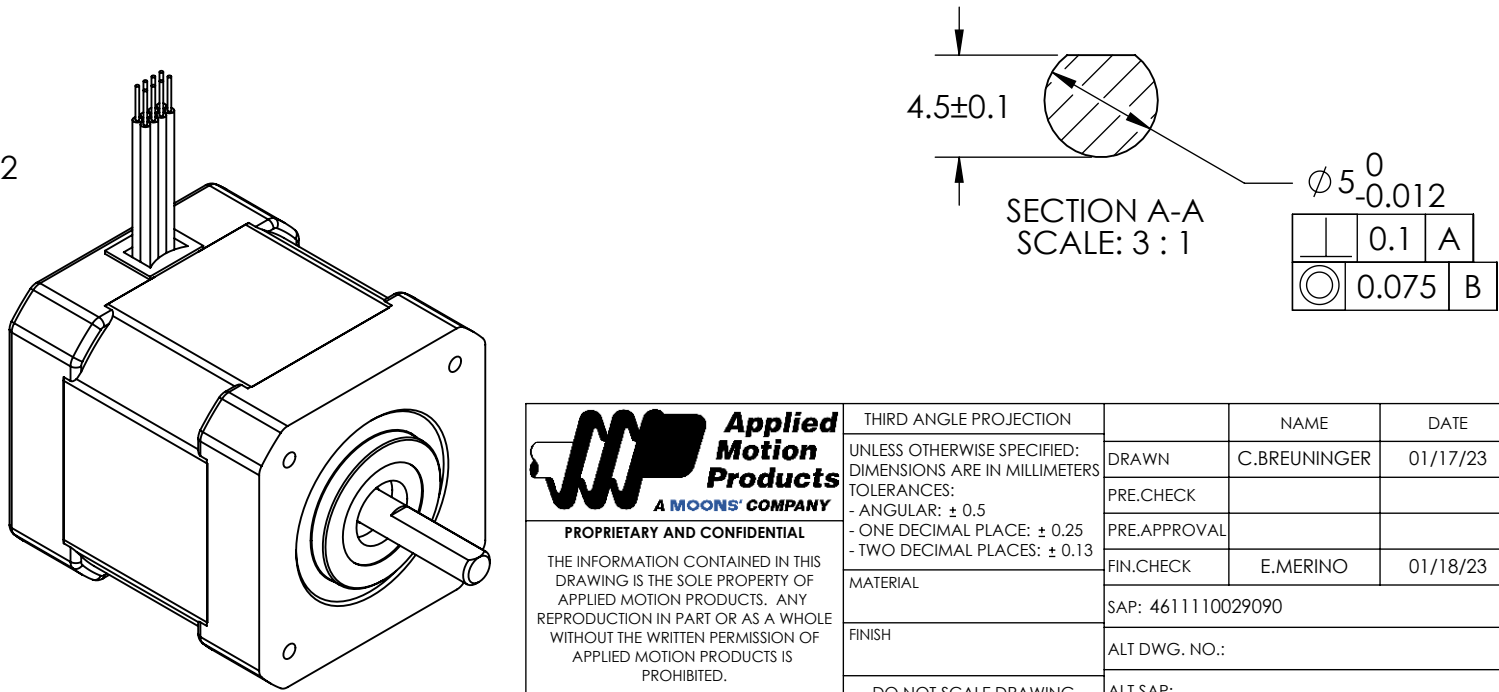
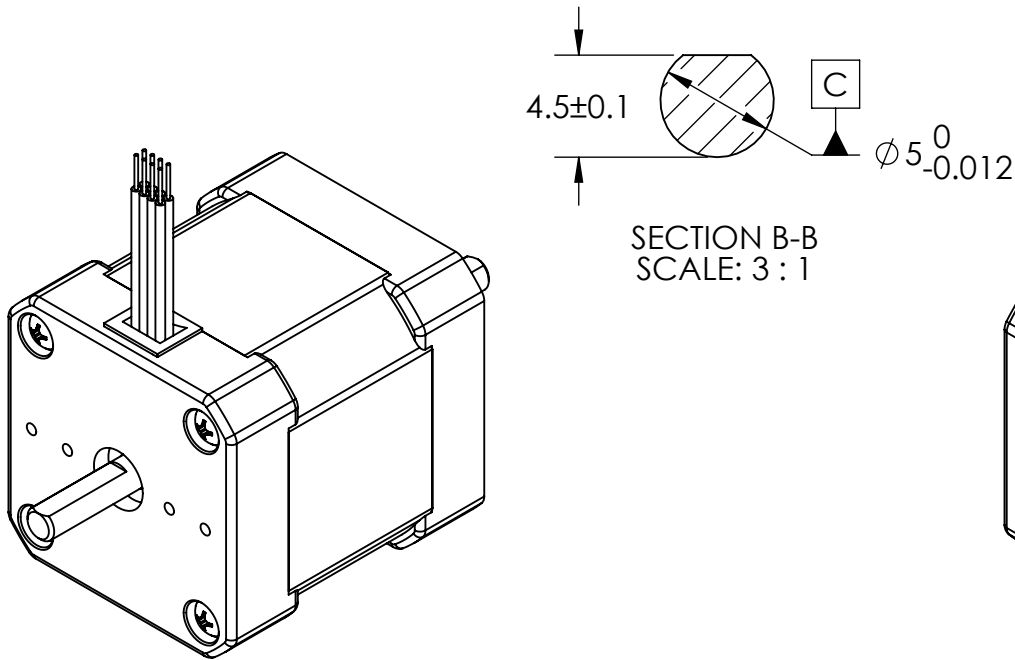
B

B



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	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DRAWN	C.BREUNINGER	01/17/23			
	TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	PRE.CHECK					
	MATERIAL	FINISH	FIN.CHECK	E.MERINO	01/18/23	SIZE B	DWG. NO. HT17-275D
	DO NOT SCALE DRAWING	ALT DWG. NO.:	ALT SAP:			REV A	
					SCALE: 1:2	SHEET 2 OF 2	