

SPECIFICATION

NUMBER OF PHASES: 4	ROTOR INERTIA: 38 g-cm ² (0.21 oz-in ²) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 122 g-cm (1.70 oz-in) MIN
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 kg RADIAL LOAD)	RELATIVE HUMIDITY RANGE: 15 TO 85%
END PLAY: 0.2 mm MAX (15 kgf AXIAL LOAD)	WEIGHT: 200 g (7.1 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	8.4	10	0.67	0.22	31.1
BI-POLAR PARALLEL	2.1	2.5	1.34	0.22	31.1
UNI-POLAR	4.2	2.5	0.95	0.16	22.6

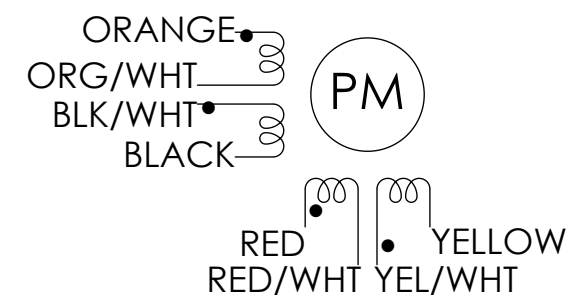
NOTES, UNLESS OTHERWISE SPECIFIED:

- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
4. HIPOUT 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
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+
1	+	-	+	-

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



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
APPLIED MOTION PRODUCTS. ANY
REPRODUCTION IN PART OR AS A WHOLE
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APPLIED MOTION PRODUCTS IS
PROHIBITED.

1 S E	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	01/16/24			
		PRE.CHECK					
		PRE.APPROVAL					
			FIN.CHECK	E.MERINO	01/17/24		
	MATERIAL	SAP: 4611110029086			SIZE B	DWG. NO. HT17-268D	REV A
	FINISH	ALT DWG. NO.:					
	DO NOT SCALE DRAWING	ALT SAP:					
					SCALE: 1:1		SHEET 1 OF 2

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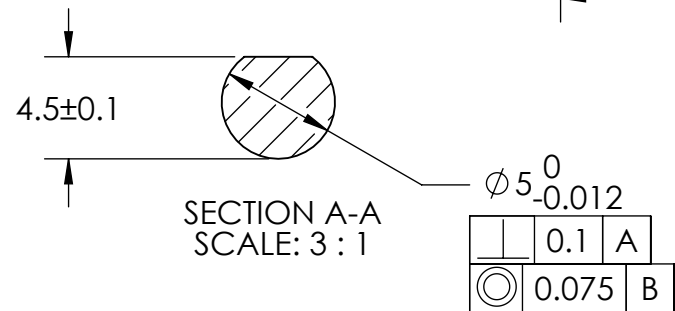
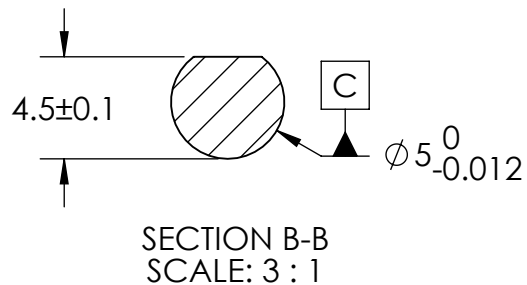
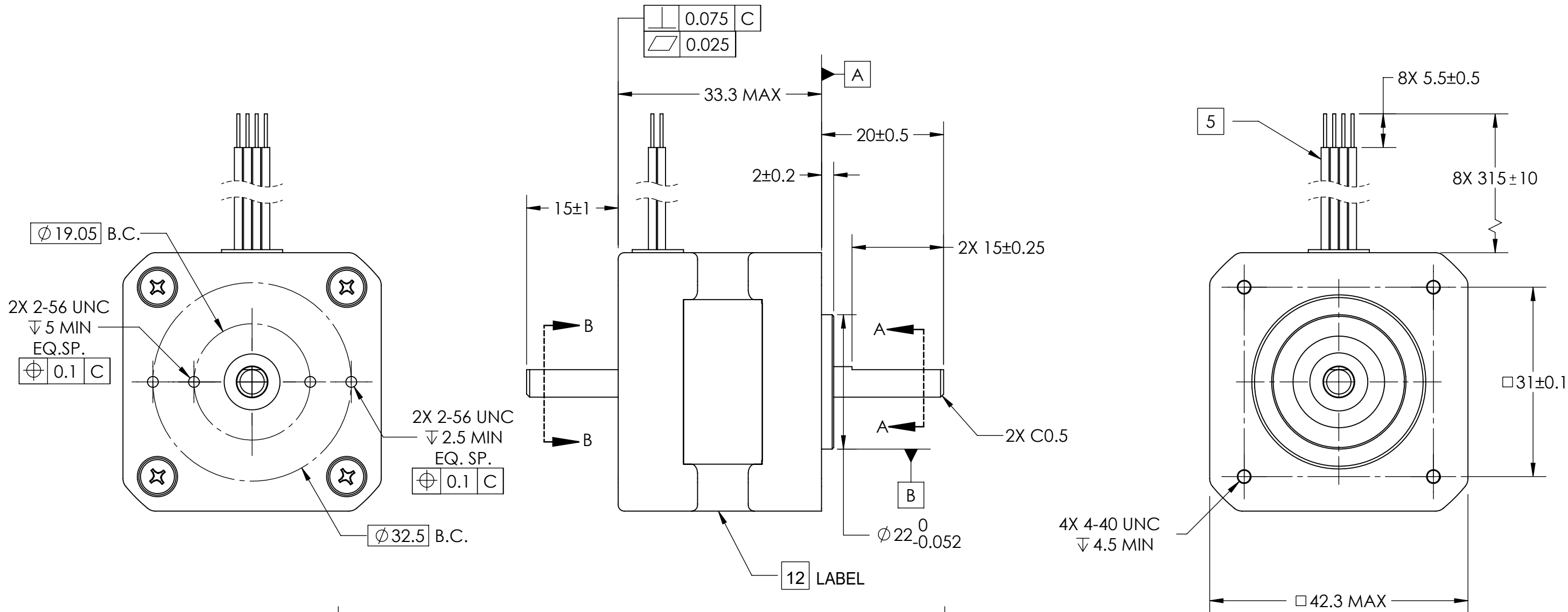
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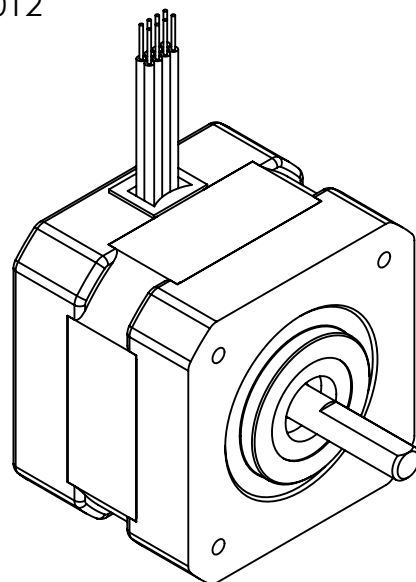
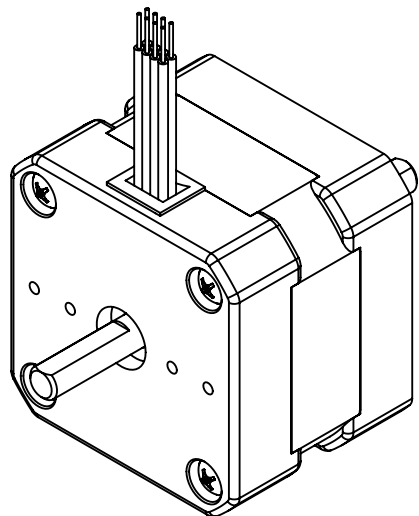
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	- TWO DECIMAL PLACES: ± 0.13	SAP: 4611110029086			SIZE	DWG. NO.	REV
MATERIAL					B	HT17-268D	A
FINISH		ALT DWG. NO.:					
DO NOT SCALE DRAWING		ALT SAP:			SCALE: 1:2		SHEET 2 OF 2

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