

SPECIFICATIONS:

NUMBER OF PHASES: 4	ROTOR INERTIA: 260 g-cm^2 (1.42 oz-in 2) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 0.040 N-m (5.66 oz-in) MIN
STEP ANGLE: 1.8°	INSULATION CLASS: B
STEP TO STEP ACCURACY: 0.09°	TEMP. RISE: 80°C MAX.
	1, 2, 8
HYSERESIS: N/A%	OPERATING TEMP. RANGE: -20 TO +50°C
SHAFT RUNOUT: 0.05 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 99%
END PLAY: 0.2 mm MAX (15 kgf AXIAL LOAD)	WEIGHT: 0.6 kg (1.32 lb) APPROXIMATE

REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
6604	A	INITIAL RELEASE	10/29/12	J.KORDIK
6728	B	ADD CABLE GLAND	04/03/13	S.LOVEJOY
8250	C	ADD UL TO LABEL, MTG TAB THK	06/05/19	J.KORDIK
9032	D	UPDATED IN SW, CABLE DIMENSIONS CORRECTED	05/17/24	K.KESLER

B

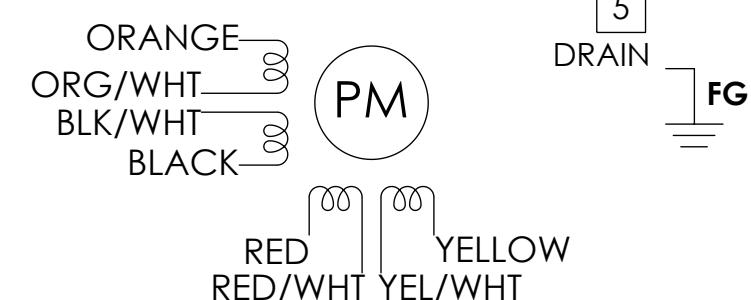
B

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	2.2	5.6	2.12	1.12	158
BI-POLAR PARALLEL	0.55	1.4	4.24	1.12	158
UNI-POLAR	1.1	1.4	3.00	0.85	120

NOTES, UNLESS OTHERWISE SPECIFIED:

- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MEASUREMENTS MADE AT LEADS ENDS.
4. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 8, 22 AWG, 7 STRAND MIN., UL2517 AND CSA APPROVED, 105°C RATED SHIELDED CABLE 666-2126, 8 COND W/DRAIN. DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR END BELL.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
7. MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1 KHz AT LEAD ENDS.
- 8 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
9. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU RoHS DIRECTIVE.
10. MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.
11. CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.

WIRING DIAGRAM

DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP

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

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



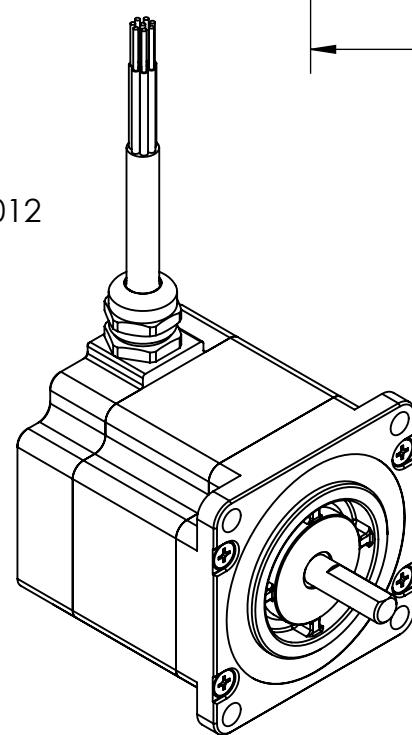
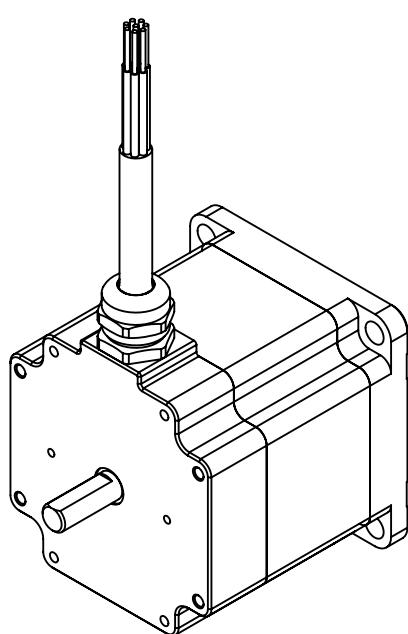
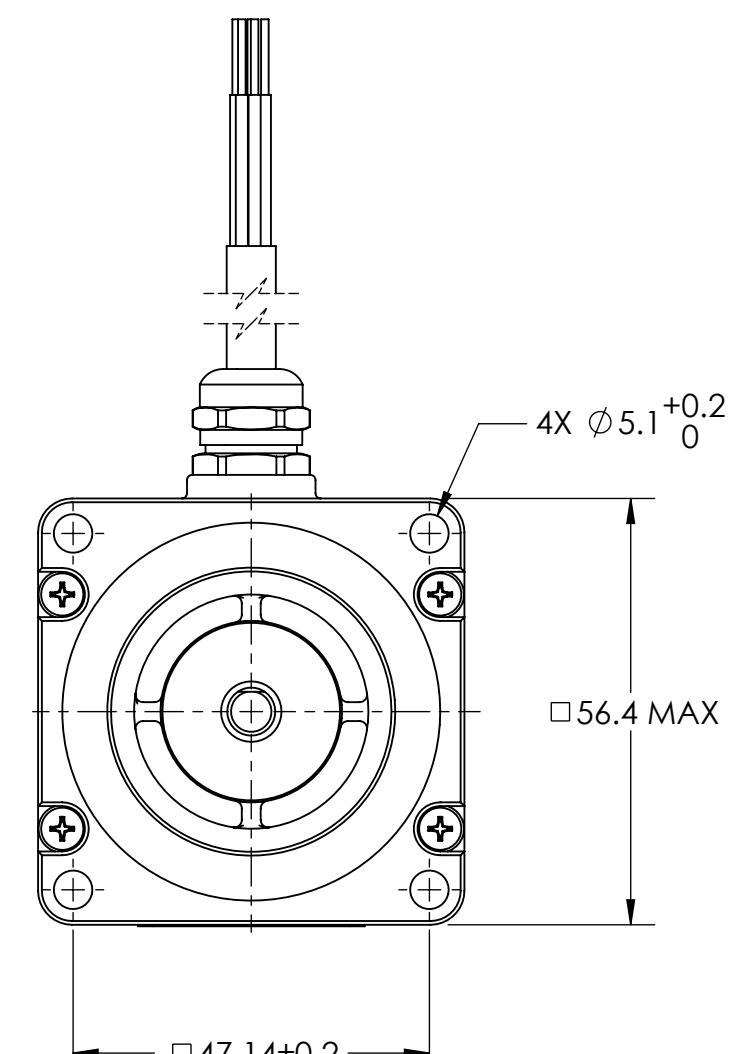
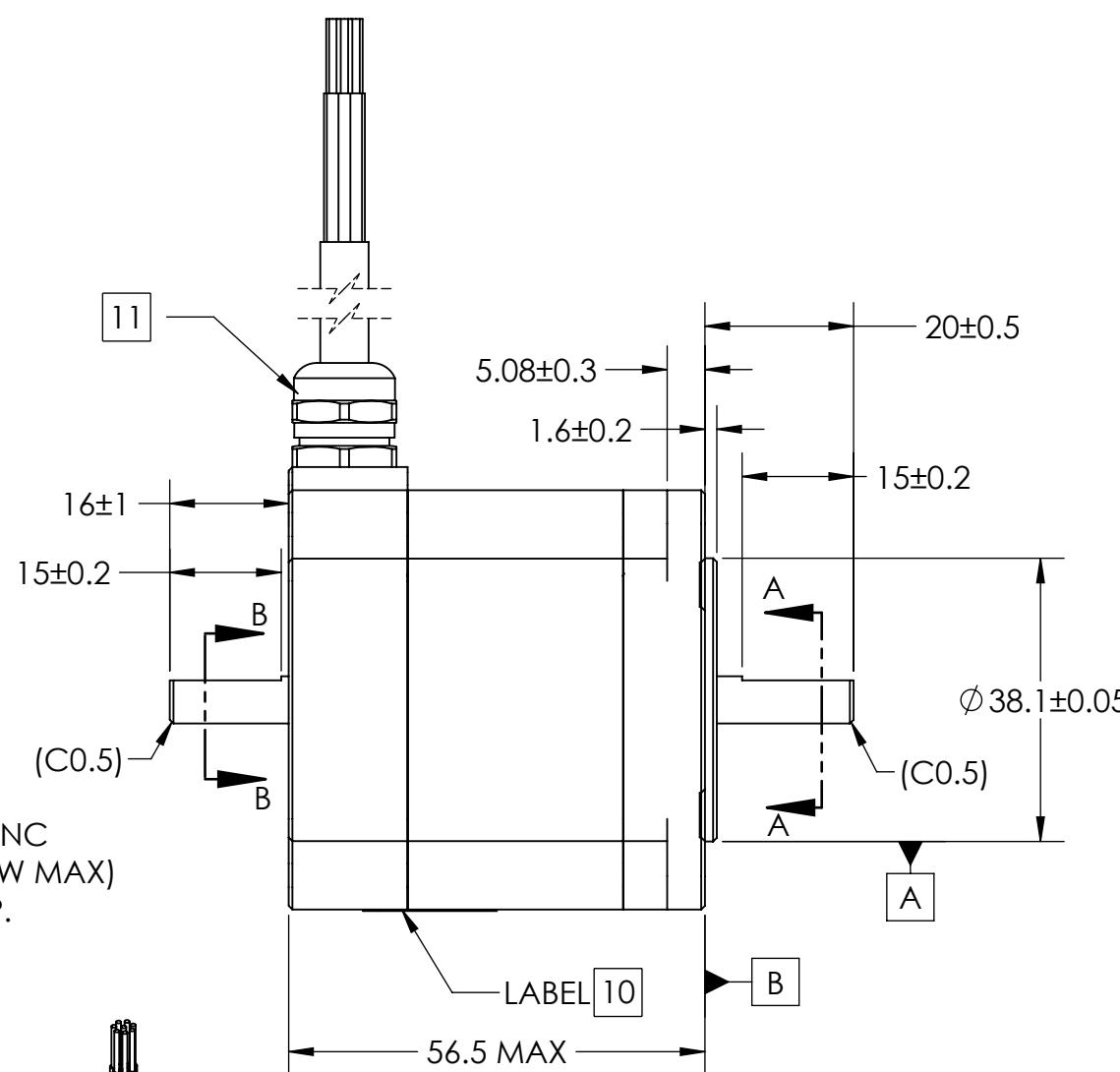
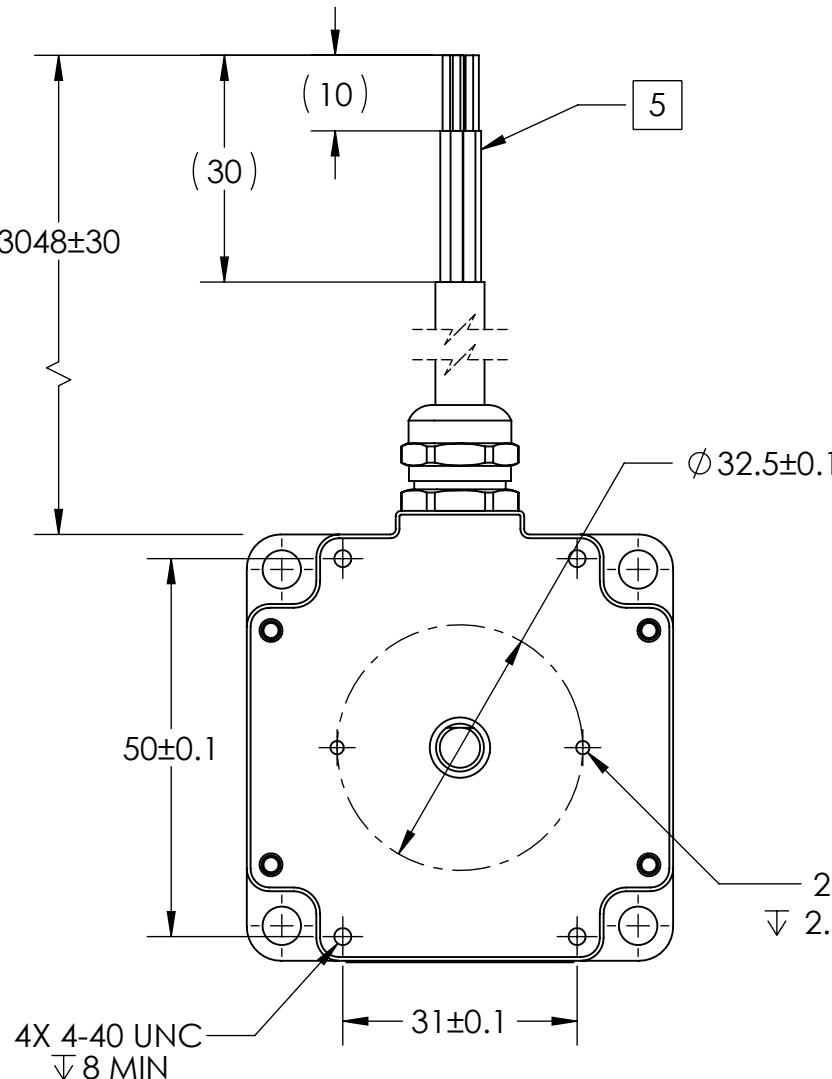
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THIRD ANGLE PROJECTION	NAME	DATE
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DRAWN	C.BREUNINGER 05/16/24
TOLERANCES: - ANGULAR: ± 0.5	PRE.CHECK	-
- ONE DECIMAL PLACE: ± 0.25	PRE.APPROVAL	-
- TWO DECIMAL PLACES: ± 0.13	FIN.CHECK	E.MERINO 05/16/24
MATERIAL	SAP: 4611110032583	
FINISH	ALT DWG. NO.: -	
DO NOT SCALE DRAWING	ALT SAP: -	

TITLE:	STEP MOTOR		
	SIZE	DWG. NO.	REV
B	HT23-598DC		D
SCALE: 1:1	SHEET 1 OF 2		

B

B



A MOONS' COMPANY

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UNLESS OTHERWISE SPECIFIED:		C.BREUNINGER	05/16/24	
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- TWO DECIMAL PLACES: ± 0.13		FINISH	-	
		ALT DWG. NO.:	-	
		DO NOT SCALE DRAWING	ALT SAP: -	
SIZE		DWG. NO.	REV	
B	HT23-598DC		D	
SCALE: 1:1		SHEET 2 OF 2		