

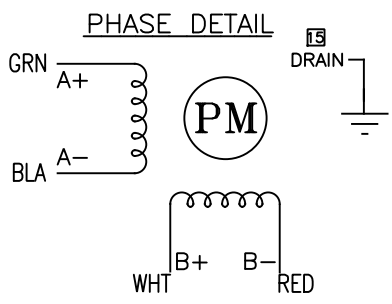
SPECIFICATIONS:	
NUMBER OF PHASES: 2	ROTOR INERTIA: 5500 g-cm <sup>2</sup> (30.07 oz-in <sup>2</sup> ) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 450 mNm (63.7 oz-in) ±15%
STEP ANGLE: 1.8°	BEARINGS: ABEC 1, DOUBLE SHIELDED
STEP TO STEP ACCURACY: ±0.09° [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY: ±0.09° [1], [3]	DUTY RATING: CONTINUOUS
SHAFT RUNOUT: 0.05 mm T.I.R. MAX	RATED VOLTAGE: 120VDC (170VDC Peak) [9]
RADIAL PLAY: 0.02 mm MAX (.5KG RADIAL LOAD)	OPERATING TEMP. RANGE: -40 TO +60 °C
END PLAY: 0.08 mm MAX (.5KG AXIAL LOAD)	STORAGE TEMP. RANGE: -40 TO +70 °C
MAXIMUM RADIAL LOAD: 370N (83.18 lb)	RELATIVE HUMIDITY RANGE: 15 TO 85 %
MAXIMUM AXIAL LOAD: 250N (56.20 lb)	WEIGHT: 8.3 kg (18.35lb)

	[7]	[8]	[1]	[1]	
CONNECTION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE (mH ±10%)	RATED CURRENT A rms(Peak)	HOLDING TORQUE (Nm ±10%)	HOLDING TORQUE (oz-in ±10%)
BI-POLAR	1.05	16	3.39(4.8)	13	1841

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. HIPOT 1000 VAC, 60 Hz FOR 60 SECONDS OR 1200 VAC FOR 1 SECOND.
- 5. LEADS: 4, AWG 18, 7 STRAND MIN., UL AND CSA APPROVED, UL 3266.
- 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 1 KHz.
- [9] AS MEASURED ACROSS PHASE A WITH OSCILLOSCOPE WHILE RUNNING AT 1RPS WITH NO LOAD.
- [10] 5-CONNECTION TERMINAL BLOCK TO BE CONNECTED TO DRAIN AND LEAD WIRES AND MOUNTED INSIDE OF REAR ENCLOSURE. LEAD THRU HOLE TO BE POTTED WITH "LOCTITE EA E-40 EXP" EPOXY.
- 11. ROTOR & STATOR LAMINATED CONSTRUCTION.
- 12. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- [13] LABEL #2 TO INCLUDE BARCODE, SERIAL #, AND 'MADE IN (COUNTRY OF ORIGIN)'
- 14. ENDBELLS, CAP, AND SHELL ARE E-COATED WITH EPOXY PAINT FOR CORROSION PROTECTION.
- [15] DRAIN TO BE GROUNDED TO END BELL INSIDE OF REAR ENCLOSURE. DRAIN WIRE IS SAME SPEC AS LEAD WIRES.
- [16] SHAFT IS 304 STAINLESS STEEL.
- [17] IP66 SHAFT SEAL.
- 18. LOW TEMPERATURE GREASE.
- [19] ENCLOSURE O-RING MATERIAL: NEOPRENE.
- [20] CONDUIT ENTRY MEETS L1 TOLERANCE. THREADS TO BE BARE (NO COATING).
- [21] LABEL #1 TO BE STAINLESS STEEL. ATTACH WITH HEX SCREWS. INCLUDES AMP P/N, MOTOR SPECS., & CERTIFICATION SPECS. DATE CODE TO BE ENGRAVED OR ETCHED: YYYY-MM-DD. REFER TO DRAWING 690-1245 FOR SPECIFIC CONTENT.
- 22. ASSEMBLED MOTOR MAY BE ADDITIONALLY PAINTED. TOTAL THICKNESS OF E-COAT AND PAINT NOT TO EXCEED 2mm.

\*EX Haz. Loc. Product: No Changes/Revisions to this drawing without approval of AMP CTO.



HX56-100

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7912	A	PRODUCT RELEASE	4/2/18	J.KORDIK
7953	B	SPEC UPDATE	5/7/18	J.KORDIK
7960	C	NOTE 22 ADDED	5/10/18	J.KORDIK

CERTIFICATIONS:

- 1. cULus Class I, Div 1, Groups C & D
- 2. cULus Class I, Zone 1, AEx db IIB; T4A
- 3. ATEX and IECEx Ex db IIB T5 Gb
- 4. MINIMUM IP66/NEMA TYPE 4X

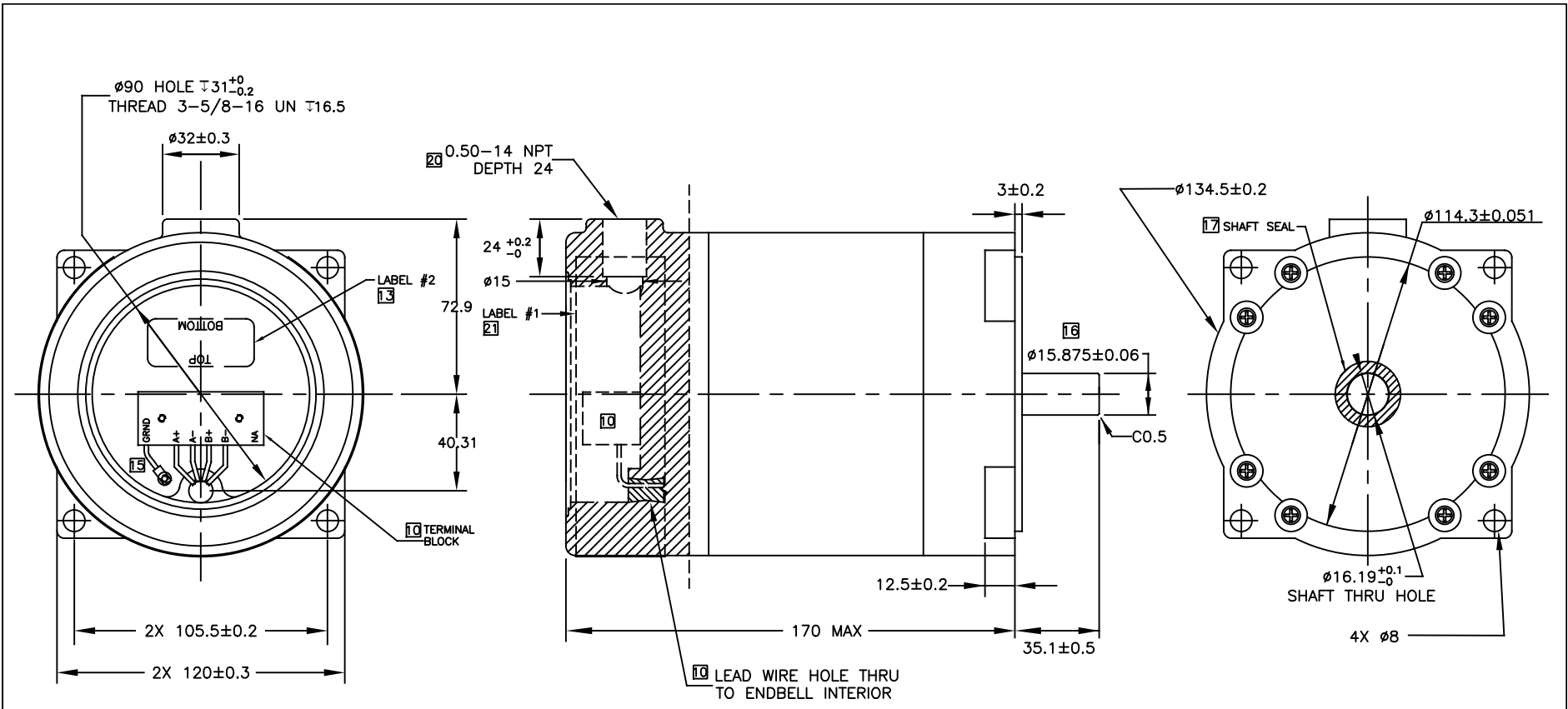
LABEL #2 DETAIL




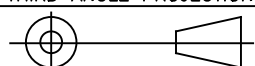
FULL STEP SWITCHING SEQUENCE BI-POLAR, FACING MOUNTING END

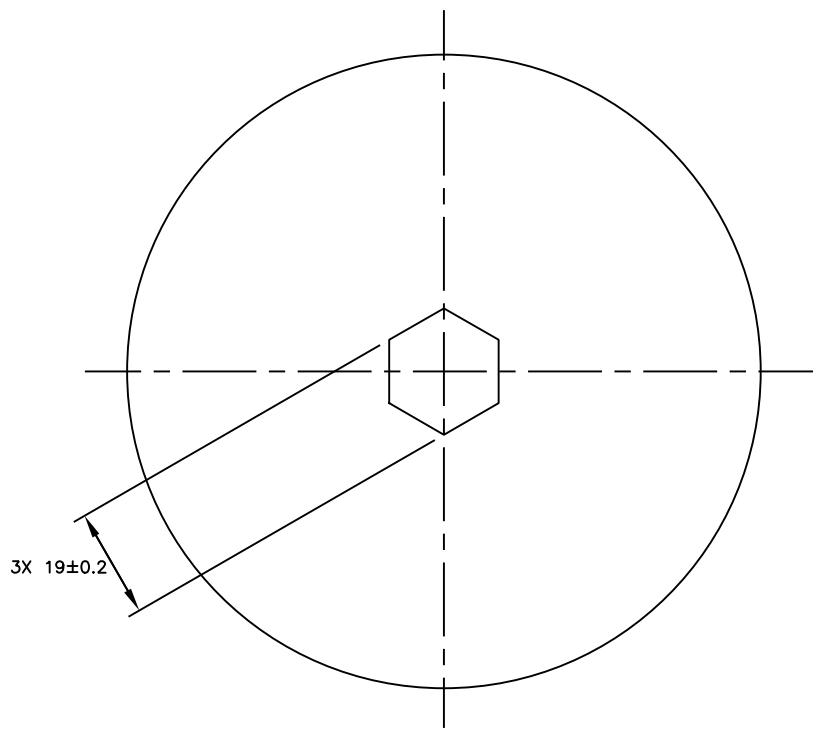
STEP	A+	A-	B+	B-	CCW
0	+	-	+	-	↑
1	-	+	+	-	
2	-	+	-	+	
3	+	-	-	+	
4	+	-	+	-	

CONTRACT NO. -								
APPROVALS	DATE							
DRAWN K.KESLER	5/10/18	<h2>HX MOTOR OUTLINE</h2>						
CHECKED R.JONEZ	5/10/18							
APPROVED J.KORDIK	5/10/18				B	COMPUTER DATA BASE DRAWING	DWG NO. HX56-100	REV C
APPROVED -	-				SCALE: NONE	SHEET 1 OF 4		

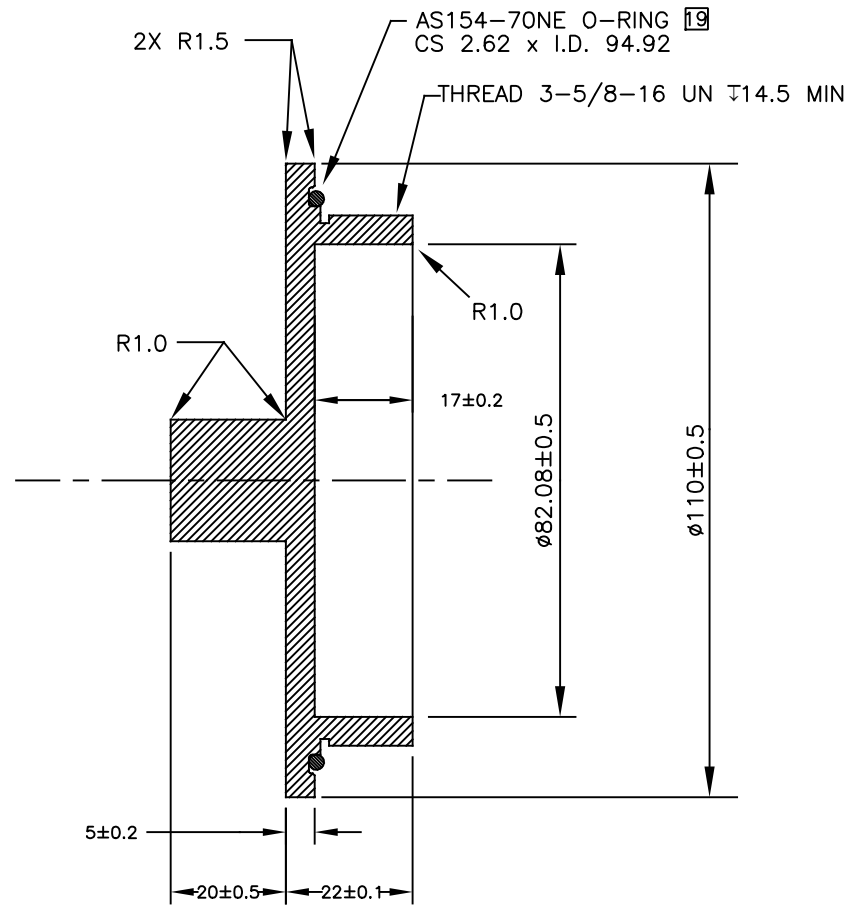


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
TOLERANCES		THIRD ANGLE PROJECTION		 APPLIED MOTION PRODUCTS, INC.			
*ALL DIMENSIONS IN MM DECIMALS: MM X.XX = $\pm 0.13$ X.X = $\pm 0.25$ ANGLES: MACH. = $\pm 0.5^\circ$ CHAM. = $\pm 5^\circ$							
		APPROVALS	DATE	<b>HX MOTOR OUTLINE</b>			
		DRAWN K.KESLER	5/10/18			B DWG NO. HX56-100	REV C
		CHECKED R.JONEZ	5/10/18				SCALE: NONE
COMPUTER DATA BASE DRAWING		APPROVED J.KORDIK	5/10/18				



3X 19±0.2



2X R1.5

AS154-70NE O-RING   
CS 2.62 x I.D. 94.92

THREAD 3-5/8-16 UN  $\nabla$ 14.5 MIN

R1.0

R1.0

17±0.2

Ø82.08±0.5


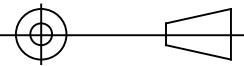
Ø110±0.5

5±0.2

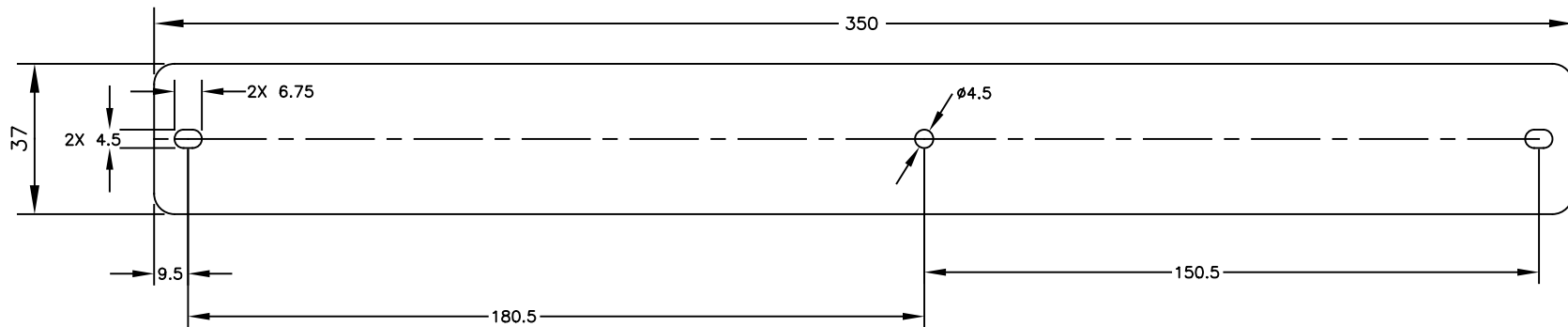
20±0.5

22±0.1

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COMPUTER DATA		APPROVALS	DATE	B	DWG NO. HX56-100	
BASE DRAWING		DRAWN				C
		CHECKED				SCALE: NONE

LABEL #1 DETAIL



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COMPUTER DATA		APPROVALS	DATE	B	DWG NO. HX56-100	
BASE DRAWING		DRAWN				C
		CHECKED				