

SPECIFICATIONS	
NUMBER OF PHASES: 2	ROTOR INERTIA: 900 G-CM ² (4.91 OZ-IN ²) REF
STEPS PER REVOLUTION: 200	DETENT TORQUE: 100 mN·m (14.1 OZ-IN) NOM.
STEP ANGLE: 1.8°	BEARINGS: ABEC 3, DOUBLE SHIELDED
STEP TO STEP ACCURACY: ±5% 1 , 2	TEMP. RISE: 80°C MAX 8
POSITION ACCURACY: ±5% 1 , 3	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 (.5 KGF RADIAL LOAD)	RELATIVE HUMIDITY RANGE: 15 TO 99%
END PLAY: 0.2 mm MAX (15 KGF AXIAL LOAD)	WEIGHT: 1882 g (4.15 LBS) APPROXIMATE
INSULATION CLASS: B	

CONNECTION	RESISTANCE PER PHASE (ohm $\pm 15\%$)	INDUCTANCE PER PHASE (mH $\pm 20\%$)	RATED CURRENT (Amp)	HOLDING TORQUE (Nm $\pm 10\%$)	HOLDING TORQUE (oz-in $\pm 10\%$)
BIPOLAR	0.95	1.9	4	3.1	439


NOTES, UNLESS OTHERWISE SPECIFIED:

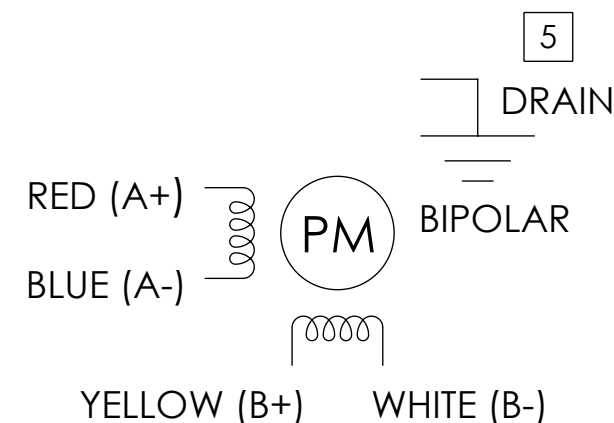
- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
4. HIPO 500 VAC, 60 Hz FOR ONE MINUTE.
- 5 CABLE, SHIELDED, 3048MM (10 FEET MIN), 4 CONDUCTORS AND DRAIN, AWG 22 UL2517, 7 STRAND MINIMUM, 105°C INSULATION. DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 AS MEASURED USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
- 8 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- 9 MOTOR TO MEET IP65 STANDARDS. CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.
10. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- 11 MOTOR LABEL TO INCLUDE "RoHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.
- 12 ENCODER CABLE 3004-195-10 TO BE INCLUDED WITH MOTOR.
- PLEASE REFER TO CABLE DRAWING, AVAILABLE ON WEBSITE, FOR FULL DETAILS
13. ASSEMBLY PER AMP SPEC 960-0082


REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
6455	A	INITIAL RELEASE	4/12/12	J.KORDIK
6565	B	WAS -ZAA, DRAWING CLEANUP	7/20/12	J.KORDIK
6578	C	SPEC CHANGE	9/19/12	J.KORDIK
8106	D	CABLE CHANGE	11/14/18	J.KORDIK
9226	E	REVISE SPECS	2/20/25	K.KESLER

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

STEP	(A+) RED	(A-) BLU	(B+) YEL	(B-) WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+
1	+	-	+	-





<div><div><div>Applied Motion Products</div><div>A MOONS' COMPANY</div></div></div>	THIRD ANGLE PROJECTION		NAME	DATE	TITLE: STEPPER MOTOR OUTLINE		
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	DRAWN	F. NG	2/20/25			
		PRE.CHECK					
		PRE.APPROVAL					
			FIN.CHECK	C. BREUNINGER	2/20/25		
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 WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS PROHIBITED.	MATERIAL	SAP: 4611110061202			SIZE	DWG. NO.	REV
	FINISH	ALT DWG. NO.:			B	HW24-108D-ZAC	E
	DO NOT SCALE DRAWING	ALT SAP:			SCALE: 1:1		SHEET 1 OF 2

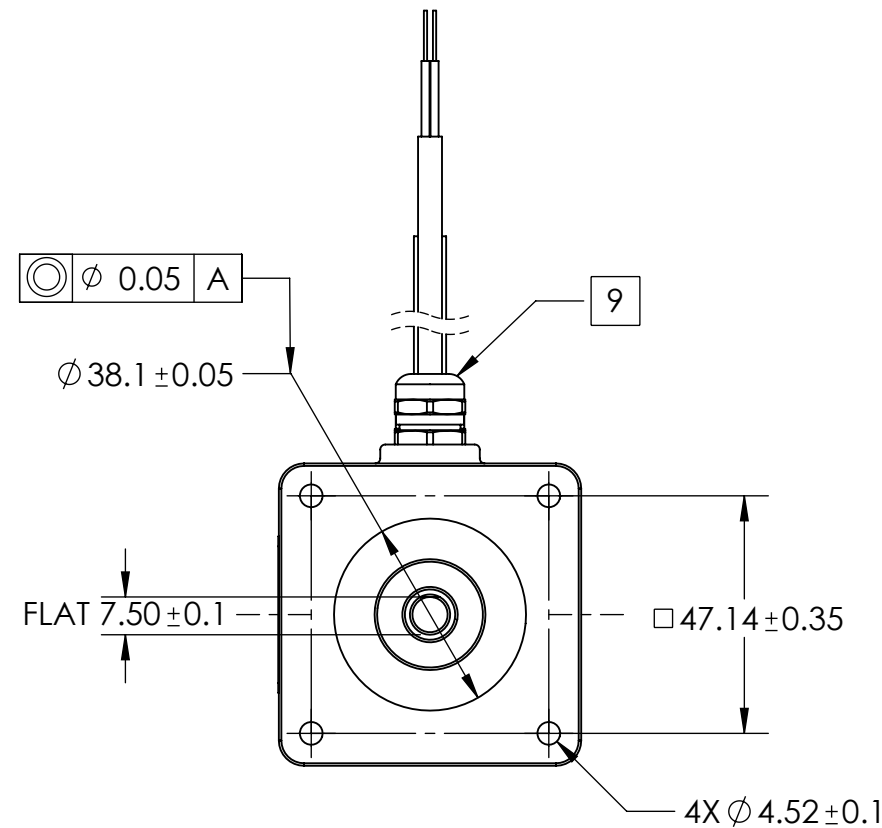
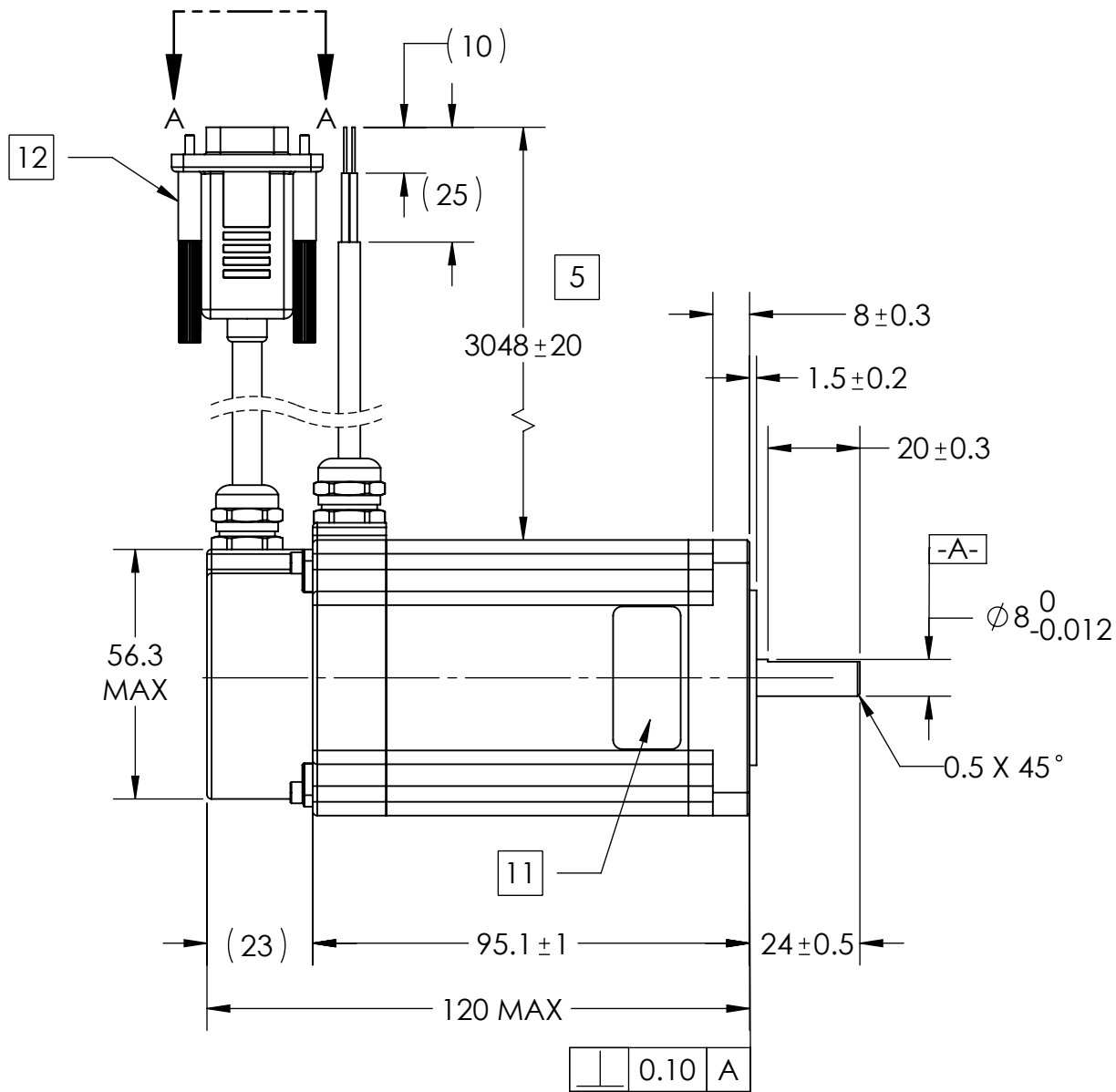
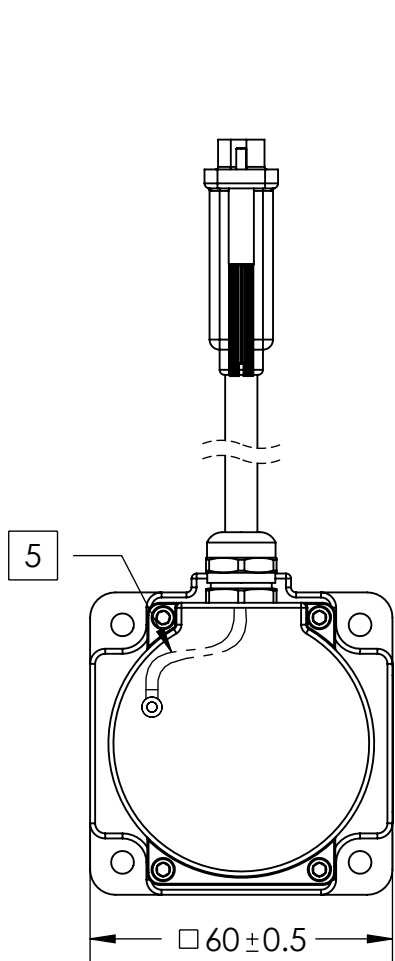
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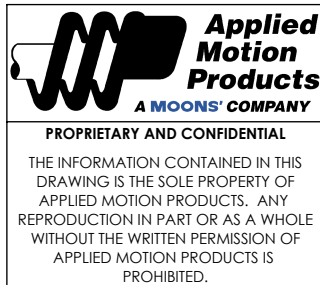
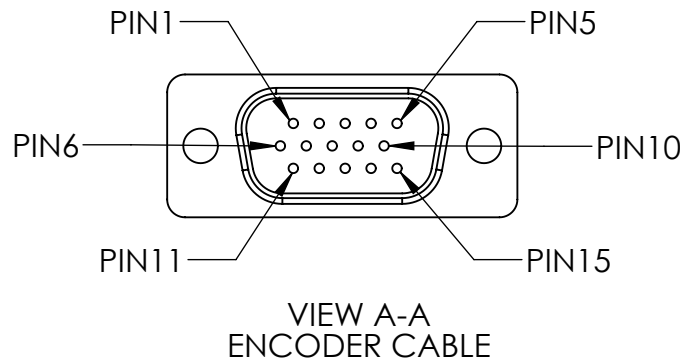
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B



A

ENCODER CONNECTIONS		
PIN #	SIGNAL	COLOR
1	CH A	BLUE
2	CH A-	BLUE/WHITE
3	CH B	YELLOW
4	CH B-	YELLOW/WHITE
5	INDEX	ORANGE
6	INDEX-	ORANGE/WHITE
7	+VCC	RED
8	GND	BLACK
9	-	N/A
10	-	N/A
11	-	N/A
12	-	N/A
13	-	N/A
14	-	N/A
15	SHIELD	DRAIN



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	PRE.CHECK					
	PRE.APPROVAL					
	FIN.CHECK	C. BREUNINGER	2/3/25			
MATERIAL	SAP: 4611110061202			SIZE	DWG. NO.	REV
FINISH	ALT DWG. NO.:			B	HW24-108D-ZAC	E
DO NOT SCALE DRAWING	ALT SAP:			SCALE: 2:3		SHEET 2 OF 2

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A