

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: 0.08 mm MAX (.5 KGF AXIAL LOAD)	MAX. DYNAMIC AXIAL LOAD: 15N
WEIGHT: 1400 g (3.1 LBS) APPROXIMATE	MAX. DYNAMIC RADIAL LOAD: 75N
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. HIPOT 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. REAR END BELL OPTIONS INCLUDE A SOLID END BELL OR A BRASS PLUG COVERING THE SHAFT BEARING, A 3M LABEL MUST COVER THE BRASS PLUG. 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.

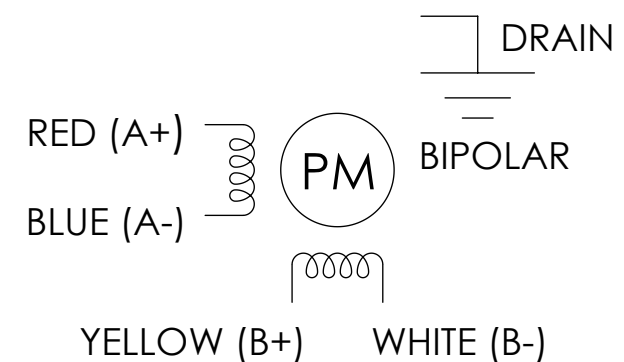
REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
6544	A	INITIAL RELEASE	6/19/12	J.KORDIK
6565	B	MFGR SPEC CHANGES	07/19/12	J.KORDIK
6578	C	SPEC CHANGE	09/19/12	J.KORDIK
6723	D	ADD NOTES	03/22/13	J.KORDIK
7373	E	END BELL SEALING OPTIONS	02/12/16	J.KORDIK
7447	F	REVISE NOTES	06/07/16	J.KORDIK
8366	G	REVISE SPEC	10/30/19	J.KORDIK
9113	H	REVISE SPECS	1/30/25	K.KESLER
9226	J	SPEC CHANGE	2/20/25	K.KESLER


**SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END**

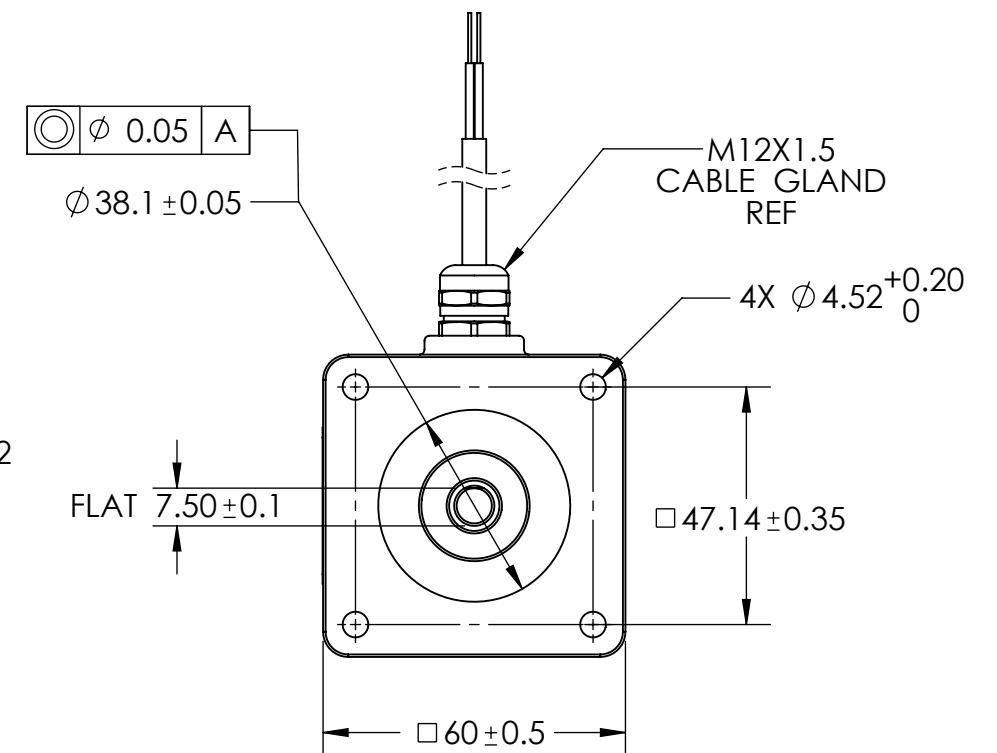
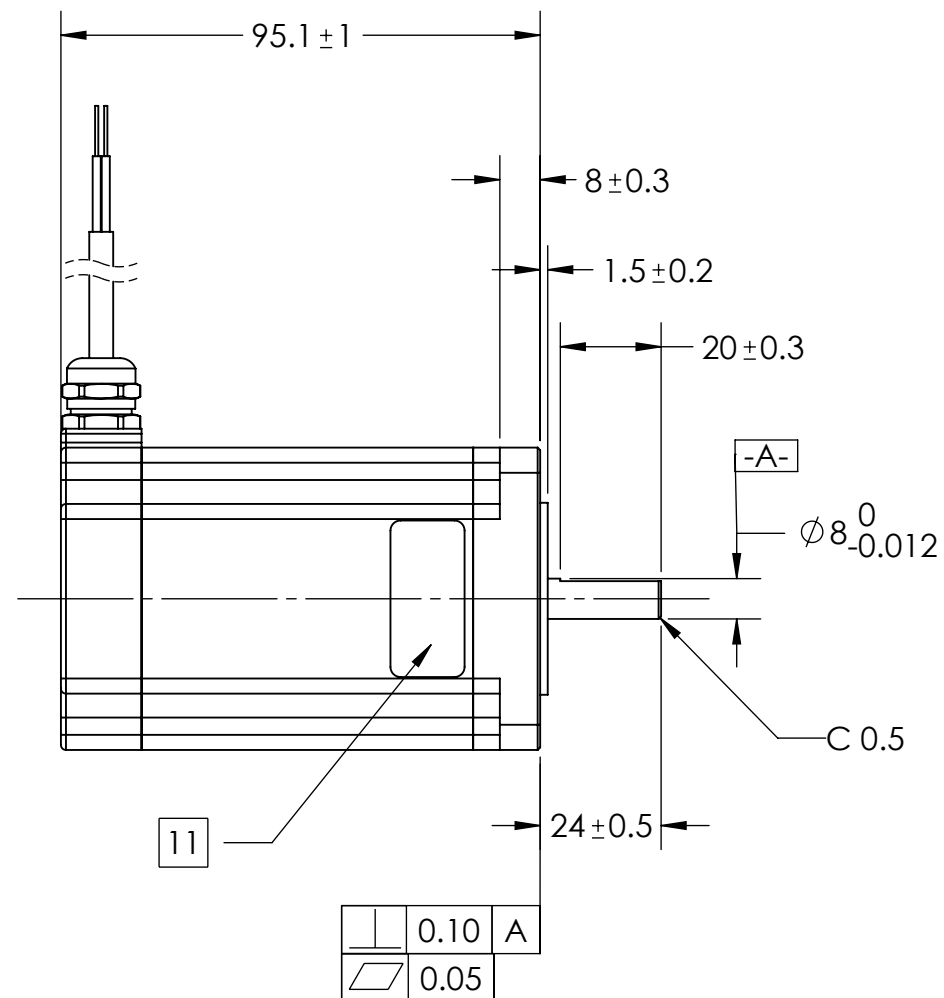
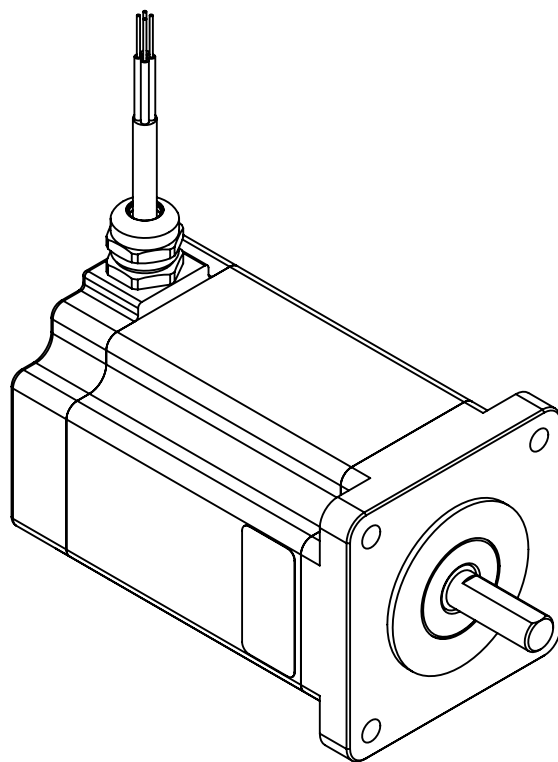
STEP	(A+) RED	(A-) BLU	(B+) YEL	(B-) WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+
1	+	-	+	-



CW


CCW



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	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	SIZE B	DWG. NO. HW24-108		REV J
	MATERIAL		SAP: 4611110033980						
	FINISH		ALT DWG. NO.:						
	DO NOT SCALE DRAWING		ALT SAP:			SCALE: 1:1		SHEET 1 OF 2	



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	FINISH	ALT DWG. NO.:					
	DO NOT SCALE DRAWING	ALT SAP:			SCALE: 2:3		SHEET 2 OF 2