

SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 2.7KG-CM <sup>2</sup> (0.0387 OZ-IN-SEC <sup>2</sup> )NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 0.8KG-CM (11.8 OZ-IN) MIN
STEP TO STEP ACCURACY:±.09 DEGREES [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY:±.09 DEGREES [1], [3]	WEIGHT: 3.8 KG (8.4 LBS)
SHAFT RUNOUT: 0.05mm T.I.R. MAX	TEMP. RISE: 80 °C MAX. [9]
RADIAL PLAY: 0.025mm MAX W/A .5KG RADIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
END PLAY: 0.075mm MAX W/A 1KG AXIAL LOAD	STORAGE TEMP. RANGE: -40 TO +70 °C
BEARINGS: ABEC 3, DOUBLE SHIELDED	RELATIVE HUMIDITY RANGE: 5 TO 99 %

CONNECTION	[7]	[8]	[1]	[1]	[1]	
	SPECIFICATION	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	HOLDING TORQUE Nm Min	HOLDING TORQUE oz-in Min.
BI-POLAR SERIES		4.8	43.2	2.03	7.5	1062
BI-POLAR PARALLEL		1.2	10.8	4.06	7.5	1062
UNI-POLAR		2.4	10.8	2.9	5.5	778

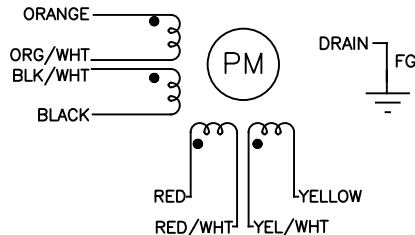
NOTES, UNLESS OTHERWISE SPECIFIED:

- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
4. HIPOT 1150 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 8, 22AWG, 7 STRAND MIN.,UL AND CSA APPROVED, 105°C. SHIELDED CABLE, 8 COND. W/DRAIN, P/N 666-2126.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [7] MEASUREMENTS MADE WITH CABLE.
- [8] MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz, WITH CABLE.
- [9] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
10. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION, INTENDED FOR USE WITH 120V DRIVES WHEN WINDINGS CONNECTED IN PARALLEL AND WITH 220V DRIVES WHEN WINDINGS CONNECTED IN SERIES.
11. ROTOR & STATOR LAMINATED CONSTRUCTION.
- [12] DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
13. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- [14] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, DATE CODE AND "MADE IN (COUNTRY OF ORIGIN)".
- [15] 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.
16. END BELLS TO BE PROTECTED WITH BLACK COATING.

BIPOLAR, FULL STEP, 2 PHASE ON PARALLEL CONNECTED

SWITCHING SEQUENCE FOR CW ROTATION FACING MOUNTING END

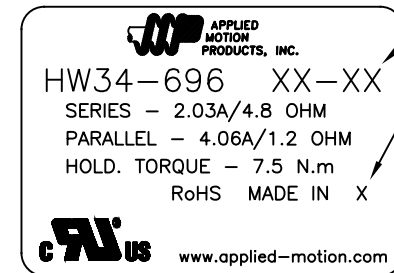
STEP	ORANGE & BLK/WHT	BLACK & ORN/WHT	RED & YEL/WHT	YELLOW & RED/WHT
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



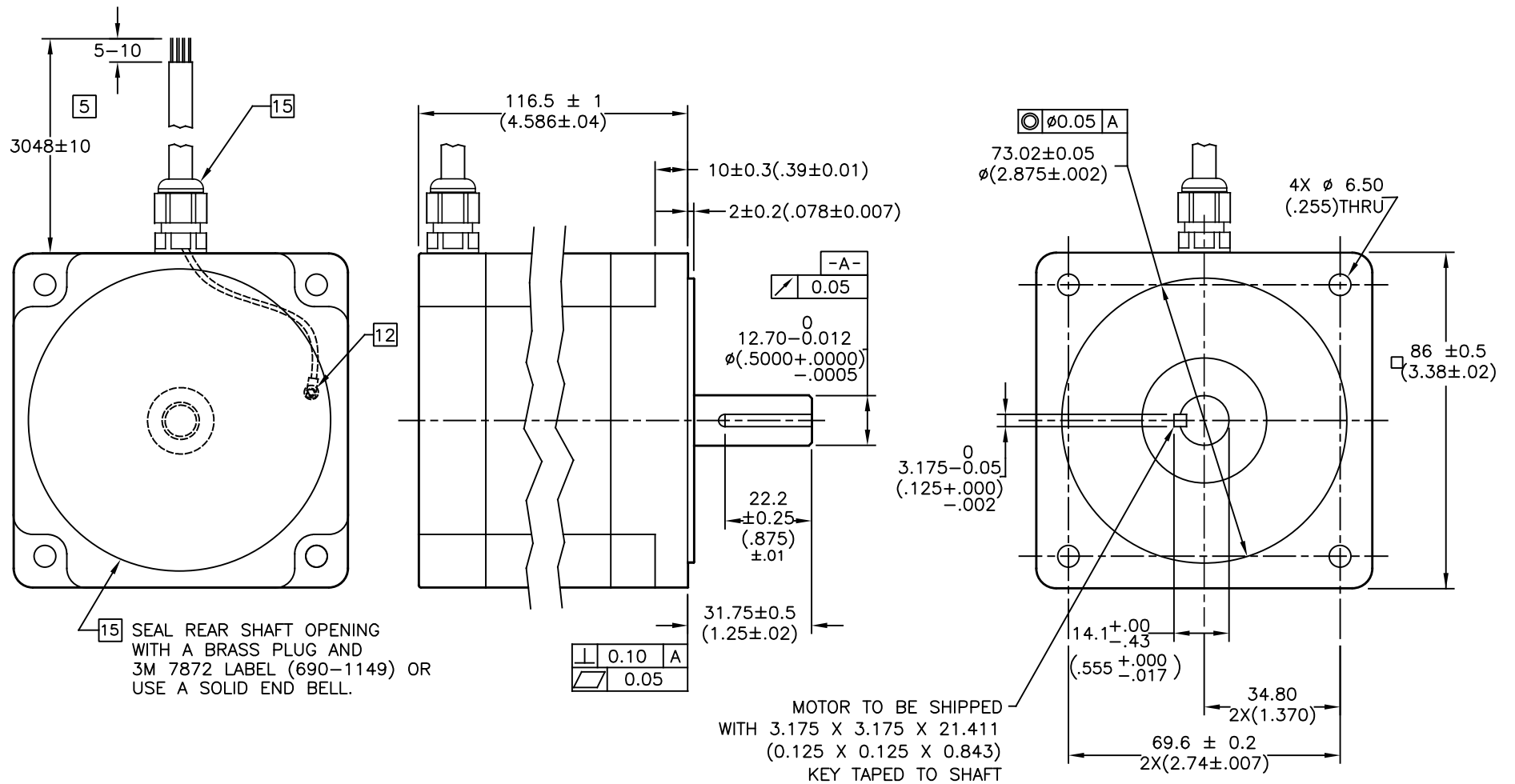
HW34-696

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6449	A	INITIAL RELEASE	3/7/12	J KORDIK
6470	B	REVISE MOTOR LENGTH, MTG HOLES	3/13/12	J KORDIK
6578	C	REVISE SPECS/CLEANUP	8/14/12	J KORDIK
6677	D	ADD P/N FOR LABEL SEAL	1/24/13	J KORDIK
6718	E	ADD BLACK COATING NOTE	3/15/13	J KORDIK
7373	F	END BELL SEALING OPTIONS	2/12/16	J KORDIK
7393	G	REVISED CALLOUT TYPO	3/3/16	J KORDIK
7447	H	REVISED NOTE 13	6/7/16	J KORDIK
7767	I	ADD UL TO LABEL	11/27/17	J KORDIK

LABEL DETAIL



CONTRACT NO. -		APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	<b>STEP MOTOR OUTLINE</b>			
DRAWN N.DEY	11/8/17				
CHECKED		<b>B</b>	COMPUTER DATA BASE DRAWING	DWG NO. <b>HW34-696</b>	REV I
APPROVED			SCALE: NONE	SHEET 1 OF 2	



TOLERANCES		THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.		
DECIMALS: MM (INCH)						
X.XXX = ±	(.005)					
X.XX = ±0.13	(.010)	APPROVALS		DATE		
X.X = ±0.25	(.020)	DRAWN <i>N.DEY</i>		11/8/17		
ANGLES: MACH. = ±.5° CHAM. = ±5°		CHECKED		B		
COMPUTER DATA BASE DRAWING		APPROVED		DWG NO. HW34-696		
				SCALE: NONE		
				SHEET 2 OF 2		

## STEP MOTOR OUTLINE

B DWG NO. HW34-696 REV 1