

## SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 2.7KG-CM <sup>2</sup> (0.038 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: 0.05 mm 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 %

[7] [8] [1] [1]

SPECIFICATION CONNECTION	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

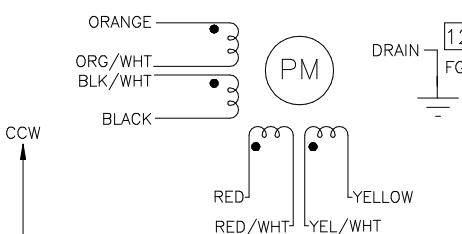
NOTES, UNLESS OTHERWISE SPECIFIED:

- [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. CABLE, 8 COND. W/DRAIN, P/N 666-2126. DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
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 TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- [14] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, DATE CODE AND "MADE IN (COUNTRY OF ORIGIN)".
- [15] ENCODER CABLE SOLD SEPARATELY.
- [16] ENCODER P/N 970-1005.

### 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	+	-	+	-

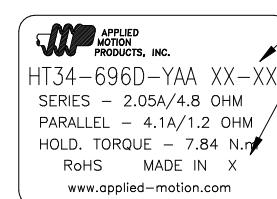


HT34-696D-YAA

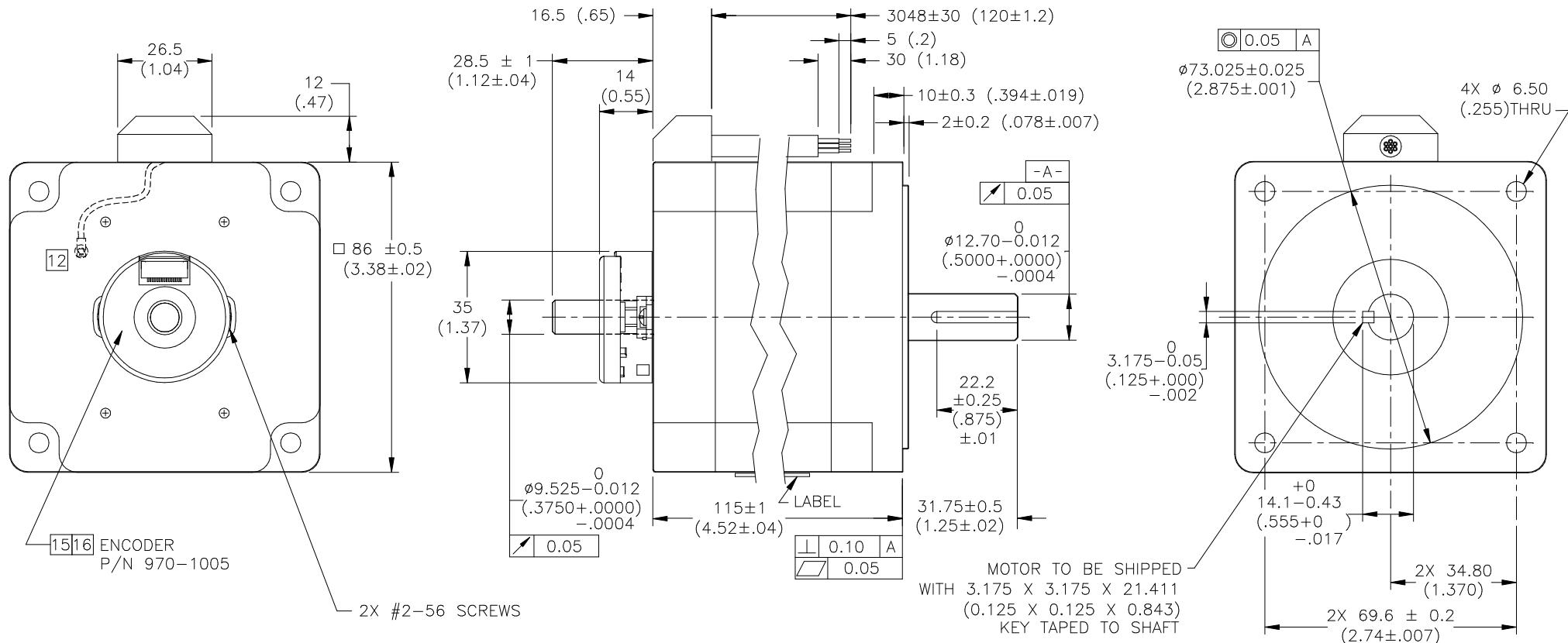
## REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6887	A	INITIAL RELEASE	1/6/14	J Kordik

## LABEL DETAIL

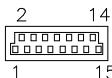


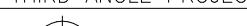
CONTRACT NO.		APPLIED MOTION PRODUCTS, INC.		
—		STEP MOTOR OUTLINE		
APPROVALS	DATE			
DRAWN R.JONEZ	12/17/13			
CHECKED				
APPROVED				
APPROVED				
		COMPUTER DATA BASE DRAWING	DWG NO.	REV
			HT34-696D-YAA	A
SCALE: NONE				SHEET 1 OF 2



ENCODER RESOLUTION: 2000 cpr  
WITH MARKER PULSE.

ENCODER PINOUTS	
PIN	SIGNAL
1	CH A
2	CH A-
3	CH B
4	CH B-
5	INDEX
6	INDEX-
7	N/C
8	N/C
9	N/C
10	N/C
11	N/C
12	N/C
13	+Vcc
14	GND
15	N/C



TOLERANCES		THIRD ANGLE PROJECTION		 APPLIED MOTION PRODUCTS, INC.		
DECIMALS: MM (INCH) X.XXX = $\pm$ (.005) X.XX = $\pm$ 0.13 (.010) X.X = $\pm$ 0.25 (.020) ANGLES: MACH. = $\pm$ 5° CHAM. = $\pm$ 5°						
	APPROVALS		DATE			
	DRAWN	R.JONEZ				
	CHECKED	12/17/13				
	COMPUTER DATA BASE DRAWING	APPROVED				
				SCALE: NONE	SHEET 2 OF 2	
STEP MOTOR OUTLINE						
				B	DWG NO. HT34-696D-YAA	REV A