

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 <span>1</span> , <span>2</span>	INSULATION CLASS: B
POSITIONAL ACCURACY:±.09 DEGREES <span>1</span> , <span>3</span>	WEIGHT: 3.8 KG (8.4 LBS)
SHAFT RUNOUT: 0.05mm T.I.R. MAX	TEMP. RISE: 80 °C MAX. <span>9</span>
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 %

<span>7</span>		<span>8</span>		<span>1</span>		<span>1</span>	
SPECIFICATION		RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	HOLDING TORQUE Nm Min	HOLDING TORQUE oz-in Min.	
CONNECTION							
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.

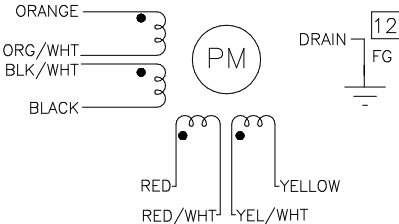
BIPOLAR, FULL STEP, 2 PHASE ON  
PARALLEL CONNECTED

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	+	-	+	-

CW  
↓

CCW  
↑

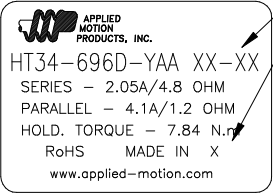



HT34-696D-YAA

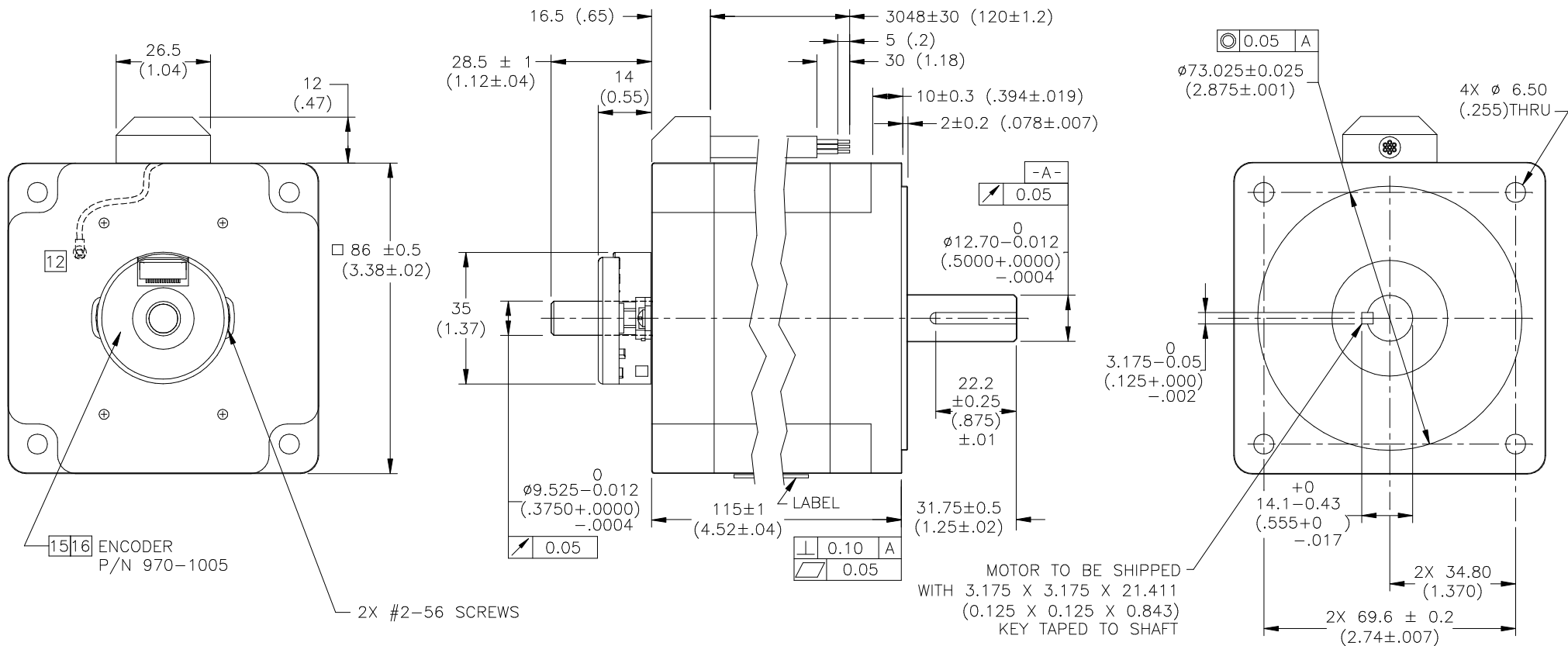
REVISIONS

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

LABEL DETAIL

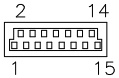




CONTRACT NO. —		 APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	STEP MOTOR OUTLINE			
DRAWN R.JONEZ	12/17/13				
CHECKED					
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT34-696D-YAA	REV A
APPROVED					
		SCALE: NONE		SHEET 1 OF 2	



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= ± (.005) X.XX = ±0.13 (.010) X.X = ±0.25 (.020) ANGLES: MACH. = ±.5° CHAM. = ±5°						
		APPROVALS	DATE	STEP MOTOR OUTLINE		
		DRAWN <i>R.JONEZ</i>	12/17/13			
		CHECKED		B	DWG NO. HT34-696D-YAA	REV A
COMPUTER DATA BASE DRAWING		APPROVED		SCALE: NONE		SHEET 2 OF 2