

## **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: 3.56 G-CM (49.5 OZ-IN) MIN
STEP TO STEP ACCURACY:±.09 DEGREES	INSULATION CLASS: B
POSITIONAL ACCURACY:±.09 DEGREES	WEIGHT: 3.8 KG (8.4 LBS)
SHAFT RUNOUT: 0.05 mm T.I.R. MAX	TEMP. RISE: 80 °C MAX.
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 $\pm 10\%$	INDUCTANCE PER PHASE mH $\pm 20\%$	RATED CURRENT Amp	HOLDING TORQUE Nm Min	HOLDING TORQUE oz-in Min.
BI-POLAR SERIES	2.6	21.6	2.8	8.9	1260
BI-POLAR PARALLEL	0.63	5.4	5.6	8.9	1260
UNI-POLAR	1.29	5.4	4.0	6.4	906

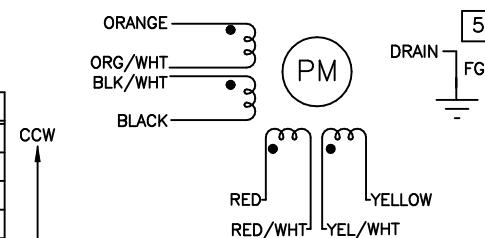
NOTES. UNLESS OTHERWISE SPECIFIED:

- 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 CONDUCTOR W/DRAIN. CABLE 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. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- 11. MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.
- 12. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION, INTENDED FOR USE WITH 80VDC DRIVES WHEN WINDINGS CONNECTED IN PARALLEL AND WITH 160VDC DRIVES WHEN WINDINGS CONNECTED IN SERIES.

BIPOLAR, FULL STEP, 2 PHASE ON  
PARALLEL CONNECTED

SWITCHING SEQUENCE FOR CW ROTATION  
FACING MOUNTING END

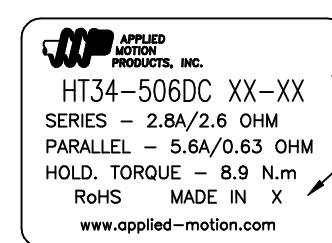
STEP	ORANGE & BLK/WHT	BLACK & ORN/WHT	RED & YEL/WHT	YELLOW & RED/WHT
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



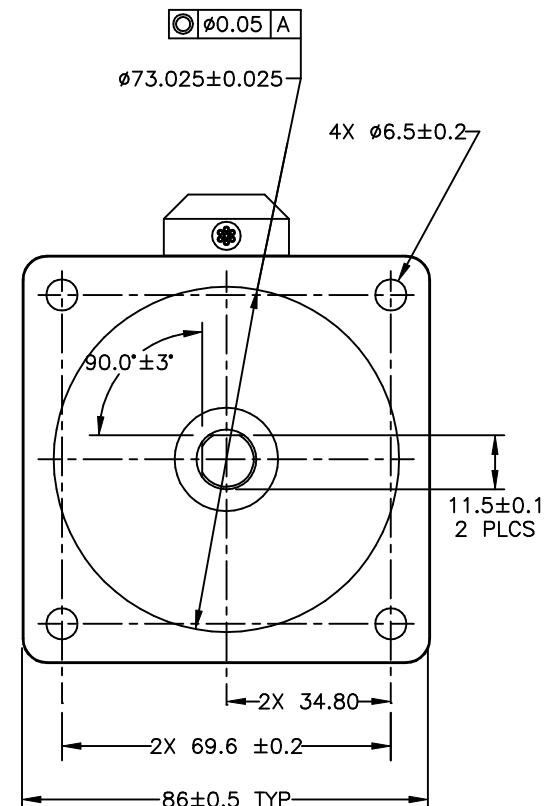
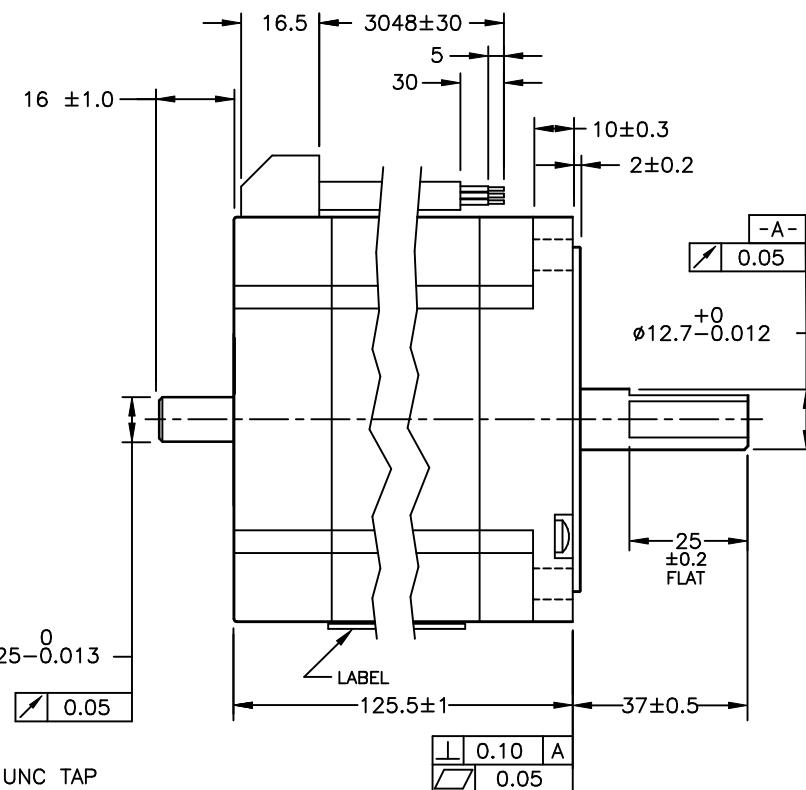
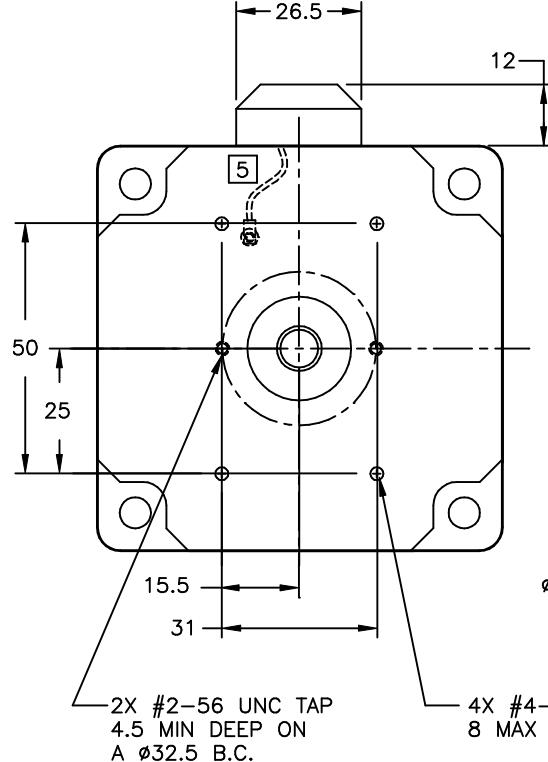
HUMAN 500NC

## REVISIONS

## LABEL DETAIL



CONTRACT NO. —		 <b>APPLIED MOTION PRODUCTS, INC.</b>		
APPROVALS	DATE	<b>STEP MOTOR OUTLINE</b>		
DRAWN <i>R.JONEZ</i>	10/5/12			
CHECKED		<b>B</b> COMPUTER DATA BASE DRAWING		DWG NO. <b>HT34-506DC</b>
APPROVED		SCALE: NONE		SHEET 1 OF 2
APPROVED				



TOLERANCES		THIRD ANGLE PROJECTION		APPROVALS		DATE	
DECIMALS: MM (INCH)							
X.XXX = ± (.005)							
X.XX = ± 0.13 (.010)							
X.X = ± 0.25 (.020)							
ANGLES:							
MACH. = ± .5°							
CHAM. = ± 5°							
COMPUTER DATA BASE DRAWING		APPROVED		10/5/12			
		SCALE: NONE		DWG NO.		HT34-506DC	
		REV D					
		SHEET 2 OF 2					

 APPLIED  
MOTION  
PRODUCTS, INC.

## STEP MOTOR OUTLINE

B DWG NO. HT34-506DC REV D  
SCALE: NONE SHEET 2 OF 2