

**SPECIFICATIONS:**

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 1350 G-CM <sup>2</sup> (0.019 oz-in-sec <sup>2</sup> ) NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 0.049 N-m ( 6.9 OZ-IN) MIN
STEP TO STEP ACCURACY: ±0.09 DEGREES [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY: ±0.09 degrees [1], [3]	BEARINGS: ABEC 3, DOUBLE SHIELDED
HYSTERESIS: N/A %	TEMP. RISE: 80 °C MAX. [9]
SHAFT RUNOUT: 0.05 mm T.I.R.	OPERATING TEMP. RANGE: -20 TO +50 °C
RADIAL PLAY: 0.025mm MAX W/A .5KG RADIAL LOAD	STORAGE TEMP. RANGE: -40 TO +70 °C
END PLAY: 0.075mm MAX W/A 1KG AXIAL LOAD	RELATIVE HUMIDITY RANGE: 5 TO 95 %
	WEIGHT: 1.9 KG (4.2 LBS)

CONNECTION	[7] RESISTANCE PER PHASE OHM ±10%	[8] INDUCTANCE PER PHASE mH ±20%	[1] RATED CURRENT Amp	HOLDING TORQUE Nm Min
BI-POLAR SERIES	4.0	34.4	2.15	5.8
BI-POLAR PARALLEL	1.0	8.6	4.3	5.8
UNI-POLAR	2.0	8.6	2.98	4.0

NOTES, UNLESS OTHERWISE SPECIFIED:

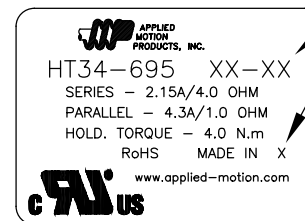
- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
- 4. HIPOT 1150 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 8, 22AWG, 7 STRAND MIN., UL AND CSA APPROVED, UL 1430 OR UL 2517. CABLE, 8 COND. W/DRAIN.
- 6. INSULATION RESISTANCE: 100 MEGAOHMS 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] GROUND LEAD: AWG 22, UL 2517. 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] SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER. DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTION.

HT34-695

REVISIONS

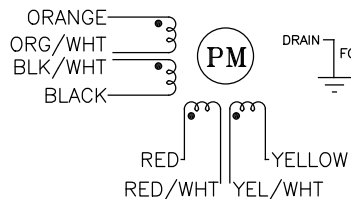
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7764	A	INITIAL RELEASE	11/27/17	J.KORDIK
7784	B	REVISED DRAWING, MFGR	2/8/18	J.KORDIK
8062	C	REVISED NOTE 5	10/8/18	J Georgiano
8083	D	REVISED LABEL	11/6/18	J.KORDIK

LABEL DETAIL



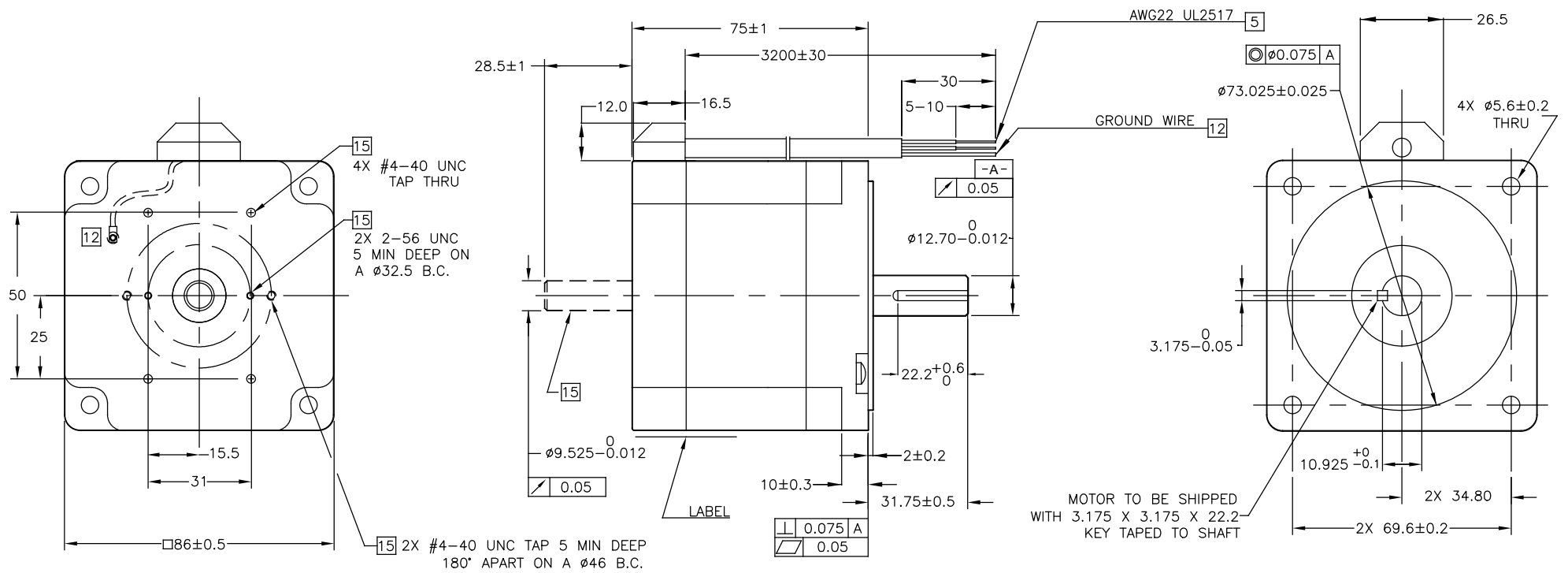
FULL STEP SWITCHING SEQUENCE  
PARALLEL CONNECTION, FACING MOUNTING END

STEP	ORG & BLK/WHT	BLK & ORG/WHT	RED & YEL/WHT	YEL & RED/WHT	CCW
0	+	-	+	-	
1	-	+	+	-	
2	-	+	-	+	
3	+	-	-	+	
4	+	-	+	-	



CONTRACT NO. -		<b>APPLIED MOTION PRODUCTS, INC.</b>	
APPROVALS	DATE	<b>STEP MOTOR OUTLINE</b>	
DRAWN <i>N.DEY</i>	12/4/17		
CHECKED <i>R.JONEZ</i>	1/11/18		
APPROVED			
APPROVED			
SCALE: NONE		B COMPUTER DATA BASE DRAWING	DWG NO. HT34-695 REV D
		SHEET 1 OF 2	

SEE SHEET 1 FOR REVISIONS



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. = $\pm 5^\circ$ CHAM. = $\pm 5^\circ$					
		APPROVALS	DATE	<b>STEP MOTOR OUTLINE</b>	
		DRAWN <i>N. DEY</i>	12/4/17		
		CHECKED <i>R. JONEZ</i>	1/11/18	B	DWG NO. HT34-695
COMPUTER DATA BASE DRAWING		APPROVED		SCALE: 1:2	REV D SHEET 2 OF 2