SPECIFICATIONS:

NUMBER OF PHASES: 4	ROTOR INERTIA: 4400 g–cm^2 (24.06 oz–in^2) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: N/A mNm (N/A oz–in) MIN
STEP ANGLE: 1.8°	INSULATION CLASS: B
STEP TO STEP ACCURACY: ±0.09° [1] , [2]	BEARINGS: ABEC 3, DOUBLE SHIELDED
POSITIONAL ACCURACY: ±0.09° [1] , [3]	TEMP. RISE: 80 °C MAX. [9]
HYSTERESIS: N/A%	OPERATING TEMP. RANGE: –20 TO +50 °C
SHAFT RUNOUT: 0.05 mm T.I.R. MAX	STORAGE TEMP. RANGE: –30 TO +70 °C
RADIAL PLAY: 0.02 mm MAX (.5KG RADIAL LOAD)	RELATIVE HUMIDITY RANGE: 15 TO 85 %
END PLAY: 0.08 mm MAX (.5KG AXIAL LOAD)	WEIGHT: 5.2kg (11.464 lb)

SPECIFICATION / CONNECTION	RESISTANCE PER PHASE (ohm ±10%) [7]	INDUCTANCE PER PHASE (mH ±20%) [8]	RATED CURRENT (amp)	HOLDING TORQUE (Nm MIN) [1]	HOLDING TORQUE (oz–in Min) [1]
UNI–POLAR	2.4	11.2	3.6	10	1416
BI–POLAR SERIES	4.8	44.8	2.55	13	1841
BI–POLAR PARALLEL	1.2	11.2	5.1	13	1841

HT34–697

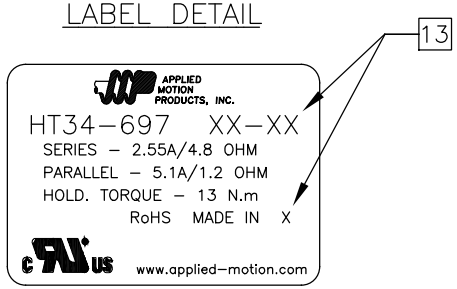
REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7345	A	INITIAL RELEASE	1/5/16	J.KORDIK
7376	B	MANU. SPEC. CHANGES	1/29/16	J.KORDIK
7490	C	NOTE FIX	9/15/16	J.KORDIK
7606	D	ADD HOLES FOR COVER	3/30/17	J.KORDIK
7767	E	ADD UL TO LABEL	11/27/17	J.KORDIK
8158	F	RESISTANCE VALUES	2/21/19	J.KORDIK
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–

NOTES, UNLESS OTHERWISE SPECIFIED:

[1] MEASURMENTS 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 , AWG 22 , 7 STRAND MIN., UL AND CSA APPROVED, UL 2517.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
[7] AS MEASURED ACROSS EACH PHASE.
[8] AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1 KHz.
[9] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
[10] ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED. DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTIONS.
11. ROTOR & STATOR LAMINATED CONSTRUCTION.
12. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
[13] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, AMP P/N, 'MADE IN (COUNTRY OF ORIGIN)', AND DATE CODE.
14. HI 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.
[15] GROUND LEAD: AWG 22, UL 2517. DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
[16] ADDED #4–40 TAPPED HOLES TO BE INTERNALLY SEALED WITH TAPE TO PREVENT DUST AND DEBRIS.

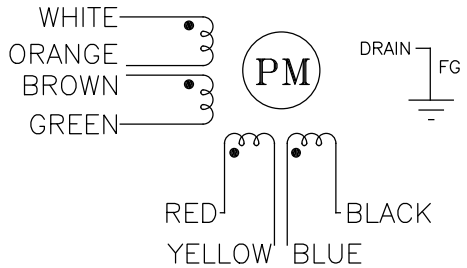
LABEL DETAIL



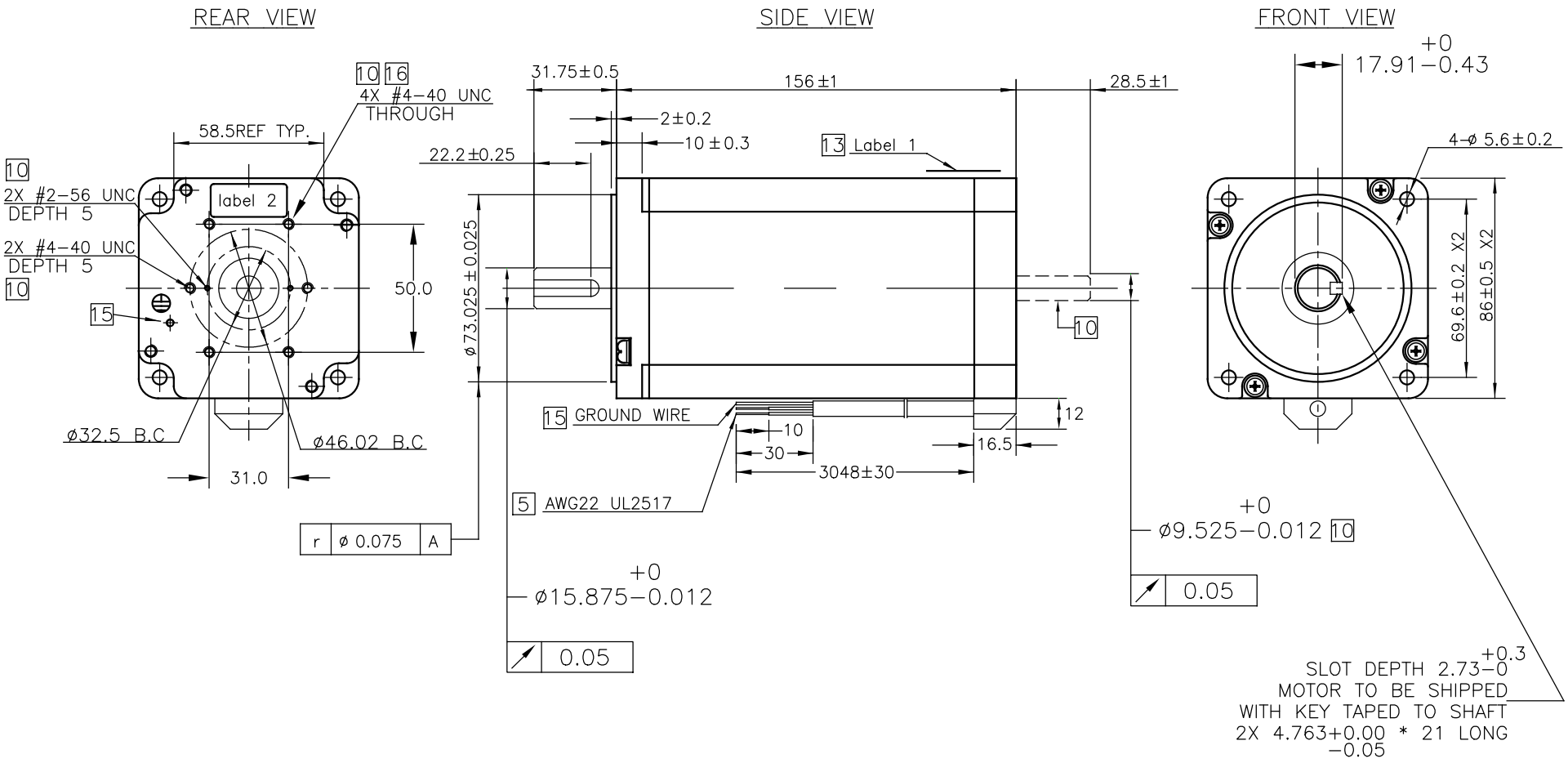
FULL STEP SWITCHING SEQUENCE
PARALLEL CONNECTION, FACING MOUNTING END

STEP	WHITE	GREEN	RED	BLACK
0	+	–	+	–
1	–	+	+	–
2	–	+	–	+
3	+	–	–	+
4	+	–	+	–

CW ↓ (STEP 0 → 4) ↑ CCW



CONTRACT NO. –	APPLIED MOTION PRODUCTS, INC.
APPROVALS / DATE	STEP MOTOR OUTLINE
DRAWN N.DEY 11/8/17	
CHECKED – –	B — COMPUTER DATA BASE DRAWING — DWG NO. HT34–697 — REV F
APPROVED – –	
APPROVED – –	SCALE: NONE — SHEET 1 OF 2



SINGLE/DOUBLE SHAFT VERSION

*ALL DIMENSIONS IN MM

TOLERANCES	FIRST ANGLE PROJECTION		
DECIMALS: MM X.XX = ±0.13 X.X = ±0.25 X = ±0.5 ANGLES: MACH. = ±0.5° CHAM. = ±5°		APPROVALS	DATE
		DRAWN N.DEY	11/8/17
		CHECKED –	_
COMPUTER DATA BASE DRAWING		APPROVED –	_

APPLIED MOTION PRODUCTS, INC.

STEP MOTOR OUTLINE

B	DWG NO. HT34-697	REV F
SCALE: NONE		SHEET 2 OF 2