SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 35.0 G–CM ^{2} (0.19 OZ–IN^2) REF
STEP ANGLE: 1.8°	HOLDING TORQUE: 1.6KG–CM (22.2 OZ–IN)MIN [1]
STEP TO STEP ACCURACY: ±5 % [1] , [2]	DETENT TORQUE: 36 G–CM (0.5 OZ–IN) MIN
POSITIONAL ACCURACY: ±5 % [1] , [3]	
HYSTERESIS: – %	INSULATION CLASS: B
WINDING RESISTANCE: 4.2 OHM ±10% AT 25° [7]	BEARINGS: ABEC 3 , DOUBLE SHIELDED
WINDING INDUCTANCE: 2.8 mH ± 20% [8]	WIEGHT: 200 G (7.0 OZ) APPROXIMATE
PHASE VOLTAGE: 4.0 VDC	TEMP. RISE: 80°C MAX. [9]
PHASE CURRENT: .95 AMP (RATED)	OPERATING TEMP. RANGE: –10 TO 40 °C
	STORAGE TEMP. RANGE: –40 TO 70 °C
SHAFT RUNOUT: 0.013 T.I.R.	RELATIVE HUMIDITY RANGE: 5 TO 95 %
RADIAL PLAY: 0.025 MAX WITH .5KG RADIAL LOAD.	
END PLAY: 0.075 MAX WITH 1.0KG AXIAL LOAD.	

HT17–068

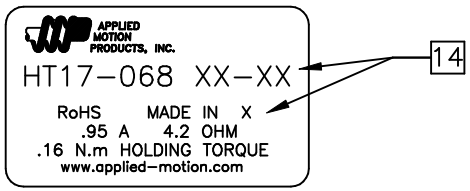
REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
3847	A	INITIAL RELEASE	2–16–94	K. Kordik
3930	B	ADD HT17–068P NOTE	5–25–95	K. Kordik
5000	C	ADD "17HT33D" NOTATION		
5235	D	ADD EU COMPLIANCE NOTES	8/25/05	R. Hazelwood
5251	E	Chg HT17–068P to 17HT33P	22/11/05	R. Hazelwood
6018	F	ADD MECH DATA	10/29/09	J Kordik
6042	G	REVISE ENCODER HOLES	12/23/09	J Kordik
6082	H	ADD ENCODER HOLES	3/3/10	J Kordik
7446	J	REVISE NOTE 13	6/6/16	J Kordik

NOTES, UNLESS OTHERWISE SPECIFIED:

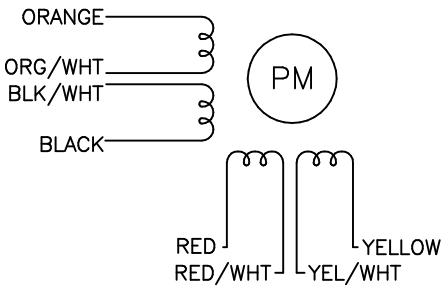
[1] MEASURMENTS MADE AT RATED CURRENT IN EACH PHASE.
[2] BETWEEN ANY TWO ADJACENT STEP POSITIONS.
[3] MAXIMUM ERROR IN 360°.
4. HIPOT 500 VAC FOR ONE MINUTE.
[5] LEADS: 8 ,AWG 26,7 STRAND MIN.,UL AND CSA APPROVED, UL 3265.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
[7] AS MEASURED ACROSS ANY WINDING.
[8] AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE (1 KHz).
[9] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
10. HIGH TORQUE MOTOR DESIGN.
11. ROTOR & STATOR LAMINATION MATERIAL: 0.5mm thk, SEE AMP STD SPEC #1500–062.
[12] IF DOUBLE SHAFT IS REQUIRED, ADD "D" TO END OF PART NUMBER.
13. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
[14] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.

LABEL DETAIL



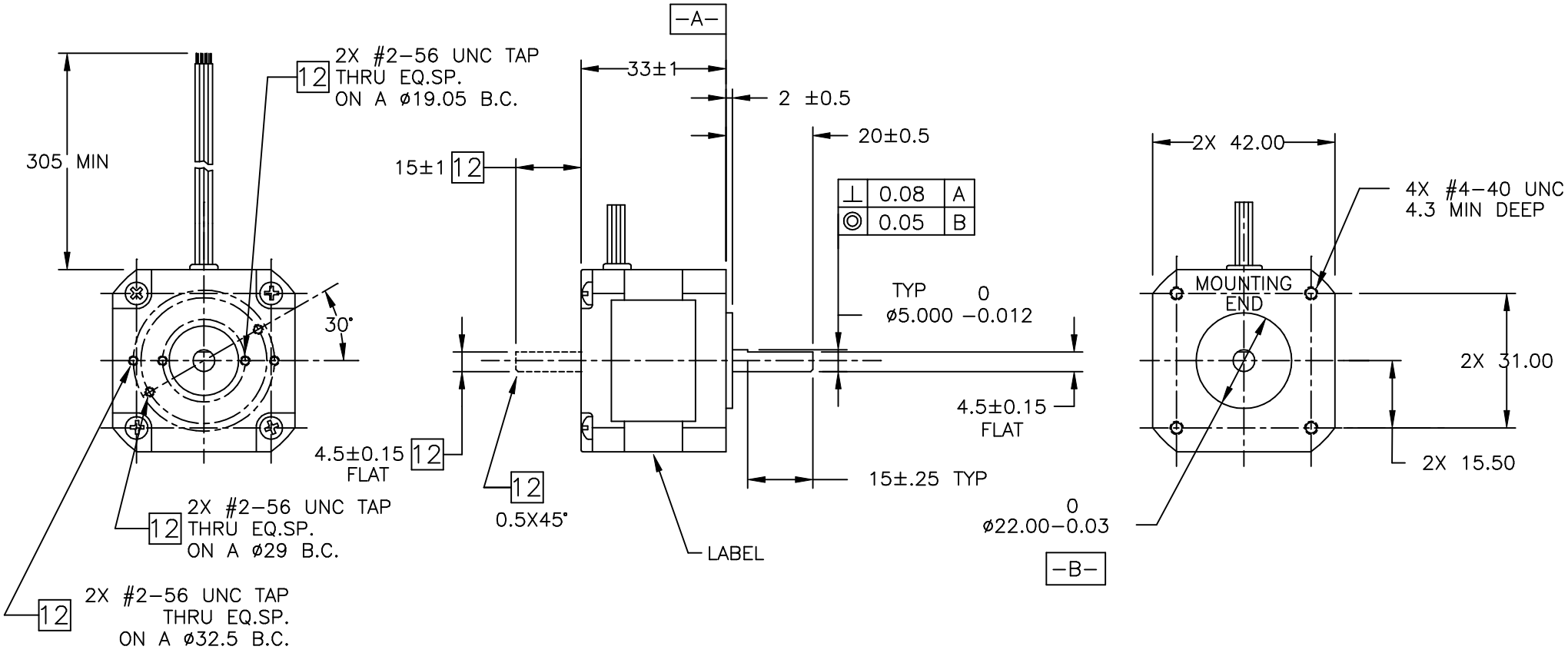
SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

STEP	ORANGE	BLACK	RED	YELLOW
0	+	–	+	–
1	–	+	+	–
2	–	+	–	+
3	+	–	–	+
4	+	–	+	–



CONTRACT NO. CAT		APPLIED MOTION PRODUCTS, INC.	
APPROVALS	DATE	STEP MOTOR OUTLINE	
DRAWN R. BARRICK	1/10/94		
CHECKED B. Corser	2/16/94		
APPROVED K. Kordik	2/16/94	B COMPUTER DATA BASE DRAWING	DWG NO. HT17–068 REV J
APPROVED		SCALE: FULL	SHEET 1 OF 2

MOTOR DRAWING



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°			STEP MOTOR OUTLINE
COMPUTER DATA BASE DRAWING	APPROVALS	DATE	B / DWG NO. HT17-068 / REV J
	DRAWN R.JONEZ	10/22/09	
	CHECKED		SCALE: NONE / SHEET 2 OF 2
	APPROVED		

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