

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

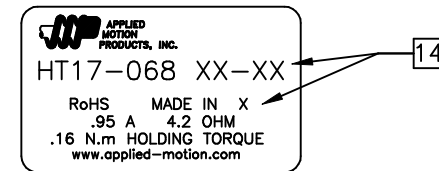
REVISIONS

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

NOTES, UNLESS OTHERWISE SPECIFIED:

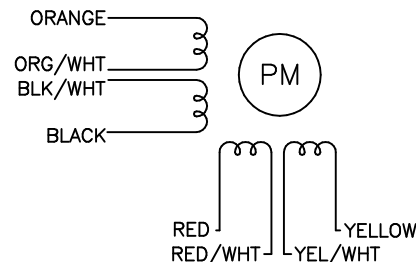
- ¹ MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- ² BETWEEN ANY TWO ADJACENT STEP POSITIONS.
- ³ MAXIMUM ERROR IN 360°.
4. HIPOT 500 VAC FOR ONE MINUTE.
- ⁵ LEADS: 8 ,AWG 26,7 STRAND MIN.,UL AND CSA APPROVED, UL 3265.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- ⁷ AS MEASURED ACROSS 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 TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- ¹⁴ MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.

LABEL DETAIL



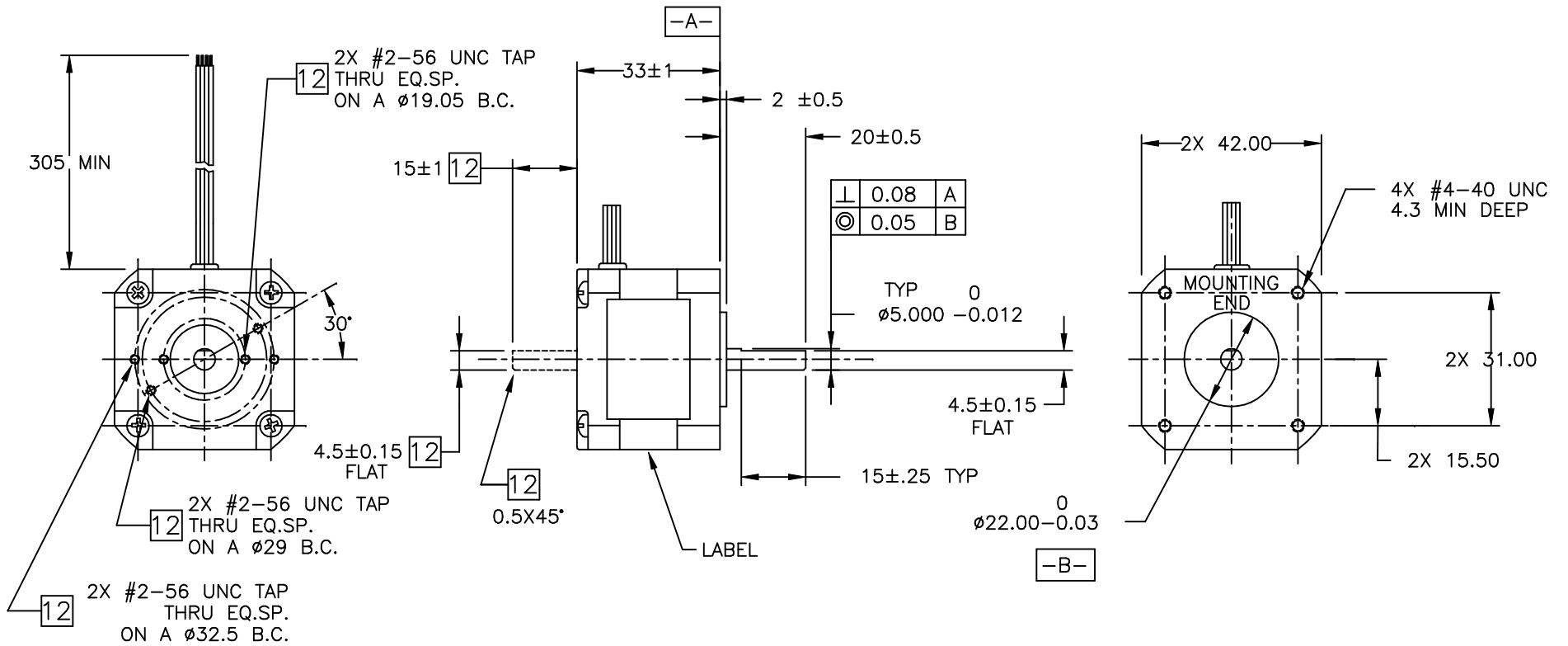
SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

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



CONTRACT NO. CAT		APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	STEP MOTOR OUTLINE			
DRAWN					
CHECKED					
APPROVED					
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT17-068	REV H
SCALE: FULL		SHEET 1 OF 2			

MOTOR DRAWING



TOLERANCES DECIMALS: MM (INCH) X.XXX = \pm (.005) X.XX = \pm 0.13 (.010) X.X = \pm 0.25 (.020) ANGLES: MACH. = \pm 5° CHAM. = \pm 5°		THIRD ANGLE PROJECTION 			
APPROVALS DRAWN <i>R. JONEZ</i> CHECKED APPROVED		DATE 10/22/09		STEP MOTOR OUTLINE	
COMPUTER DATA BASE DRAWING		SCALE: NONE		B DWG NO. HT17-068	REV H
				SHEET 2 OF 2	