

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 57.0 G-CM ² (.311 OZ-IN ²) REF
STEP ANGLE: 1.8°	DETENT TORQUE: 153 G-CM (2.1 OZ-IN) MIN
STEP TO STEP ACCURACY: ±5 % [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY: ±5 % [1], [3]	BEARINGS: ABEC 3, DOUBLE SHIELDED
HYSTERESIS: - %	WEIGHT: 240 G (8.5 OZ) APPROXIMATE
SHAFT RUNOUT: 0.03 T.I.R.	TEMP. RISE: 80 °C MAX. [8]
RADIAL PLAY: 0.02 MAX W/A .5KG RADIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
END PLAY: 0.08 MAX W/A .5KG AXIAL LOAD	STORAGE TEMP. RANGE: -30 TO +70 °C
	RELATIVE HUMIDITY RANGE: 15 TO 85 %

HT17-274

REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5976	A	INITIAL RELEASE	8/28/09	J KORDIK
5998	B	ADD MISSING DIMENSION	10/1/09	J KORDIK
6090	C	STANDARDIZE ENCODER HOLES	3/29/10	J KORDIK
7446	D	REVISE NOTE 10	6/6/16	J KORDIK
8250	E	ADD UL MARK, REMOVE HOLES	6/5/19	J KORDIK

[7]

CONNECTION	SPECIFICATION	NUMBER OF PHASE	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	RATED VOLTAGE V	HOLDING TORQUE N.m Min
BI-POLAR SERIES		2	240.0	424.0	0.14	33.6	0.36
BI-POLAR PARALLEL		2	60.0	106.0	0.28	16.8	0.36
UNI-POLAR		4	120.0	106.0	0.20	24.0	0.26

[1]

NOTES, UNLESS OTHERWISE SPECIFIED:

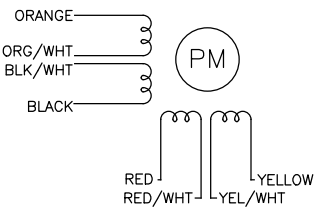
- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
- 4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- 5. LEADS: 8, 26 AWG, 7 STRAND MIN., UL AND CSA APPROVED, UL 3265, UL 1430.
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [7] AS MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz.
- [8] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- [9] SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER, DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTIONS.
- 10. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- [11] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.

**DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP**

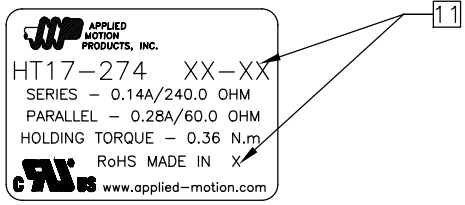
STEP	ORANGE & BLK/WHT	BLACK & ORG/WHT	RED & YEL/WHT	YELLOW & RED/WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+

CW(CLOCKWISE) AND CCW(COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

WIRING DIAGRAM

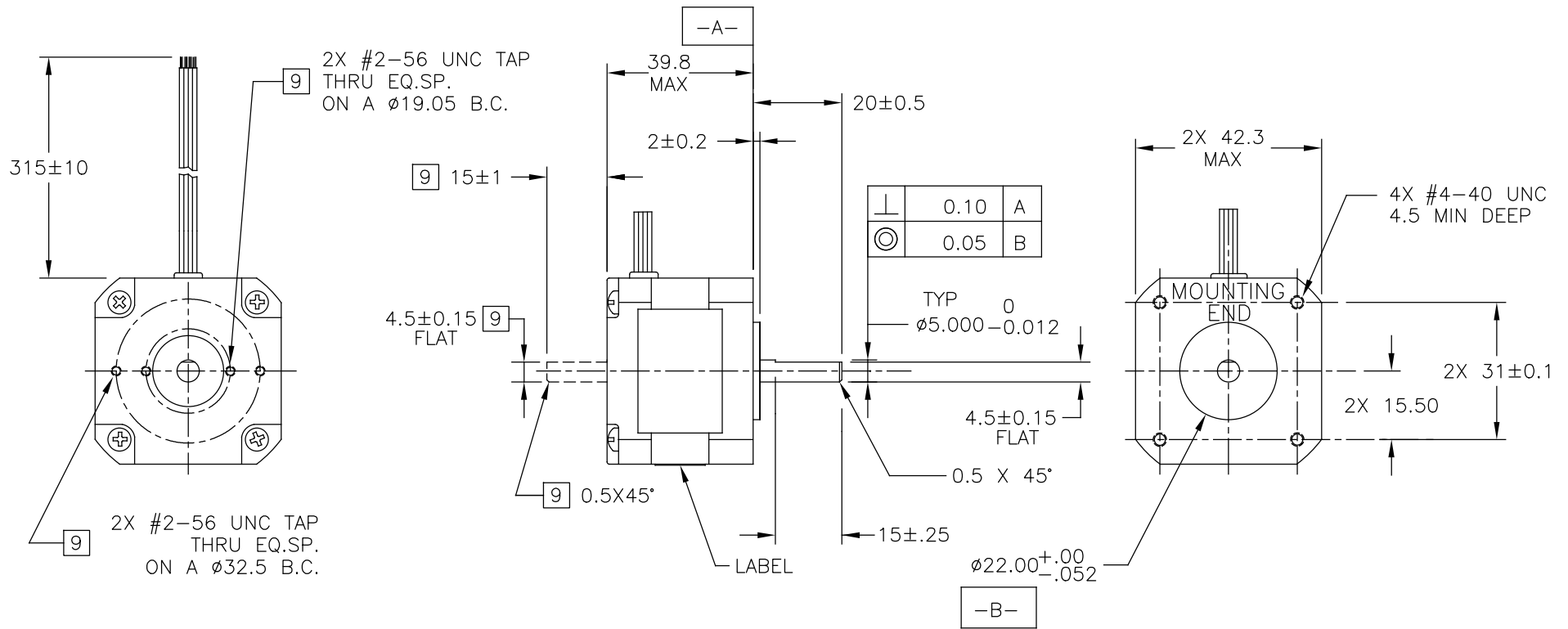


LABEL DETAIL



CONTRACT NO. -					
APPROVALS	DATE	STEP MOTOR OUTLINE			
DRAWN <i>R.JONEZ</i>	8/24/09				
CHECKED					
APPROVED					
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT17-274	REV E
SCALE: NONE		SHEET 1 OF 2			

MOTOR DRAWING



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° CHAM. = \pm 5°						
COMPUTER DATA BASE DRAWING		APPROVALS DRAWN <i>R. JONEZ</i> CHECKED	DATE 8/24/09			STEP MOTOR OUTLINE
		APPROVED		B DWG NO.	HT17-274	
				SCALE: NONE	SHEET 2 OF 2	