

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 82.0 G-CM ² (0.44 OZ-IN ²) REF
STEP ANGLE: 1.8°	DETENT TORQUE: 255 G-CM (3.54 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: 360 G (12.6 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 %

[7]

SPECIFICATION CONNECTION	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	18.0	31.2	0.57	10.2	0.51
BI-POLAR PARALLEL	2	4.5	7.8	1.13	5.1	0.51
UNI-POLAR	4	9.0	7.8	0.80	7.2	0.36

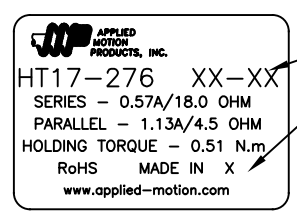
NOTES, UNLESS OTHERWISE SPECIFIED:

- [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.

REVISIONS

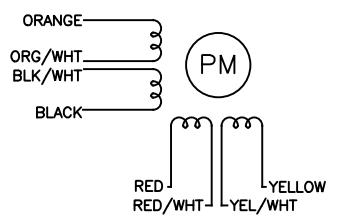
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5976	A	INITIAL RELEASE	8/28/09	J KORDIK
6027	B	HOLD TORQUE REVISED	12/11/09	J KORDIK
6090	C	STANDARDIZE ENCODER HOLES	3/29/10	J KORDIK
7446	D	REVISE NOTE 10	6/6/16	J KORDIK
8442	E	CHANGED INDUCTANCE #'s mH	3/25/20	J KORDIK

LABEL DETAIL



[11]

WIRING DIAGRAM



DRIVE SEQUENCE MODEL
 BI-POLAR FULL STEP

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

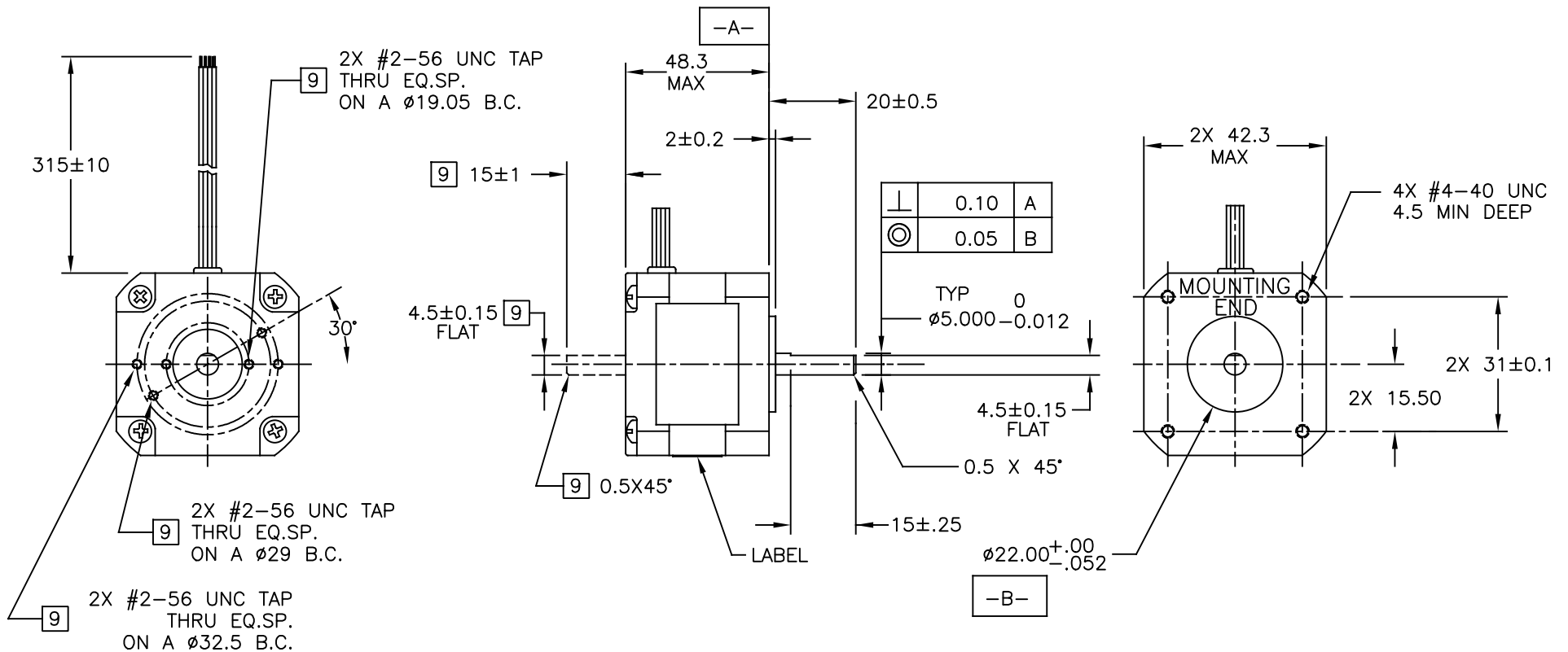
CW
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CCW
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CW(CLOCKWISE) AND CCW(COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

CONTRACT NO. -		APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	STEP MOTOR OUTLINE		
DRAWN R. JONEZ	8/24/09			
CHECKED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT17-276
APPROVED			REV E	
APPROVED		SCALE: NONE	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)				STEP MOTOR OUTLINE	
ANGLES: MACH. = ±5° CHAM. = ±5°		APPROVALS	DATE	B	REV E
		DRAWN		DWG NO.	
		CHECKED		HT17-276	
COMPUTER DATA BASE DRAWING		APPROVED		SCALE: NONE	SHEET 2 OF 2
			8/24/09		