

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:±0.09 DEGREES [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 %

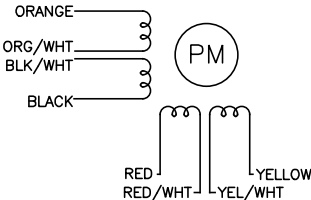
[7]							[1]
SPECIFICATION	NUMBER OF PHASE	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	RATED VOLTAGE V	HOLDING TORQUE N.m Min	
CONNECTION							
BI-POLAR SERIES	2	60.0	128	0.28	17.0	0.54	
BI-POLAR PARALLEL	2	15.0	32	0.57	8.5	0.54	
UNI-POLAR	4	30.0	32	0.40	12.0	0.38	

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.

LABEL DETAIL

WIRING DIAGRAM



APPLIED MOTION PRODUCTS, INC.

HT17-277 XX-XX
 SERIES - 0.28A/60.0 OHM
 PARALLEL - 0.57A/15.0 OHM
 HOLDING TORQUE - 0.54 N.m

RoHS MADE IN X

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[11]

HT17-277

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5976	A	INITIAL RELEASE	8/28/09	J KORDIK
6090	B	STANDARDIZE ENCODER HOLES	3/29/10	J KORDIK
7446	C	REVISE NOTE 10	6/6/16	J KORDIK
8166	D	REVISE HOLDING TORQUE	3/4/19	J KORDIK
8179	E	ADD UL TO LABEL, REMOVE HOLES	7/31/19	J KORDIK

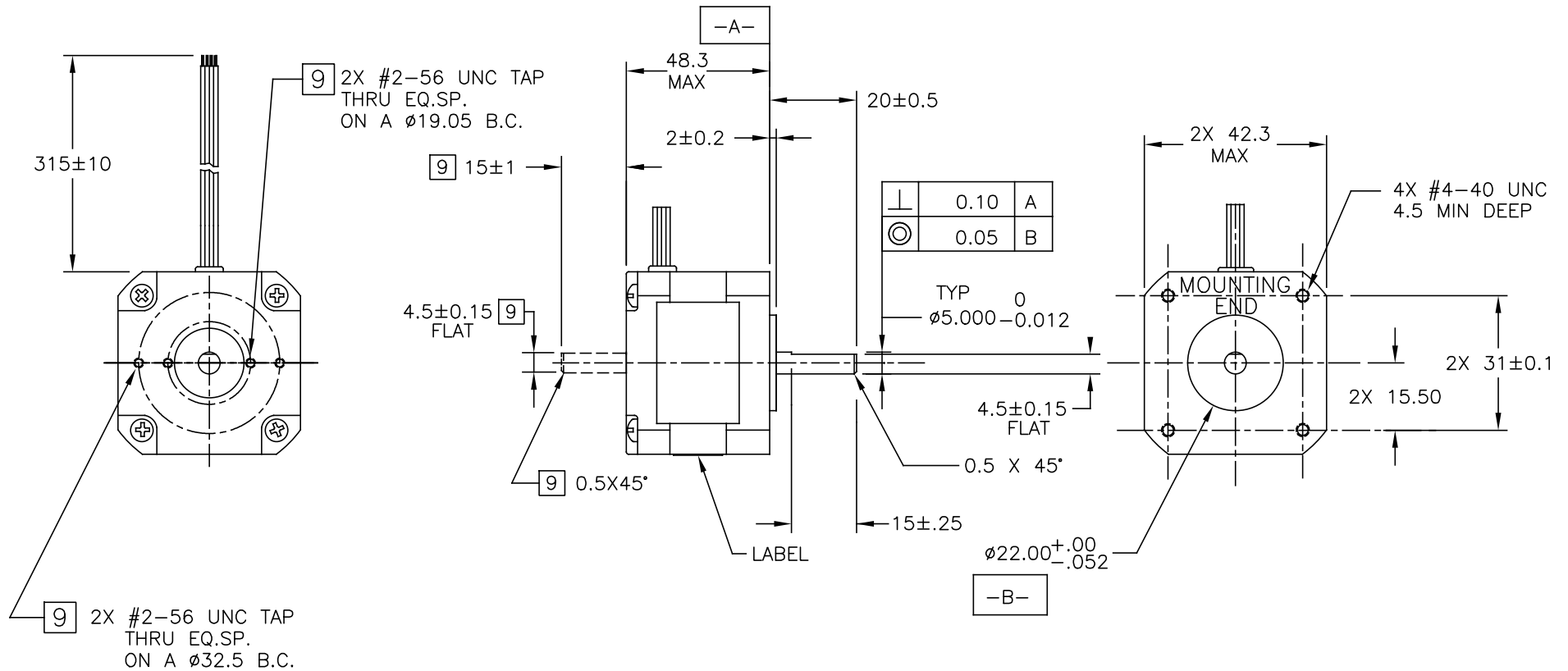
DRIVE SEQUENCE MODEL
 BI-POLAR FULL STEP

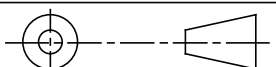
STEP	ORANGE & BLK/WHT	BLACK & ORG/WHT	RED & YEL/WHT	YELLOW & RED/WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+

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

CONTRACT NO. —		 APPLIED MOTION PRODUCTS, INC.				
APPROVALS		DATE		STEP MOTOR OUTLINE		
DRAWN <i>R.JONEZ</i>		<i>8/24/09</i>				
CHECKED						
APPROVED						
APPROVED		B		COMPUTER DATA BASE DRAWING	DWG NO. HT17-277	REV E
		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) ANGLES: MACH. = ±5° CHAM. = ±5°				STEP MOTOR OUTLINE		
		APPROVALS	DATE			
		DRAWN R. JONEZ	8/24/09	B	DWG NO.	REV
		CHECKED			HT17-277	E
COMPUTER DATA BASE DRAWING		APPROVED		SCALE: NONE		SHEET 2 OF 2