

## SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 38.0 G-CM <sup>2</sup> (0.200Z-IN <sup>2</sup> ) REF
STEP ANGLE: 1.8°	DETENT TORQUE: 122.3G-CM (1.69 OZ-IN) MIN
STEP TO STEP ACCURACY: ± 5 %	INSULATION CLASS: B
POSITIONAL ACCURACY: ± 5 %	BEARINGS: ABEC 3, DOUBLE SHIELDED
HYSERESIS: X %	WEIGHT: 210 G (7.3 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 0.5KG AXIAL LOAD	STORAGE TEMP. RANGE: -30 TO +70 °C
	RELATIVE HUMIDITY RANGE: 15 TO 85 %

HT17-268

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5976	A	INITIAL RELEASE	8/28/09	J.KORDIK
5995	B	PERPENDICULARITY CORRECTED	9/28/09	J.KORDIK
6090	C	STANDARDIZE ENCODER HOLES	3/29/10	J.KORDIK

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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	1
BI-POLAR SERIES	2	8.4	10.0	0.67	5.6	0.22	
BI-POLAR PARALLEL	2	2.1	2.5	1.34	2.8	0.22	
UNI-POLAR	4	4.2	2.5	0.95	4.0	0.16	

### 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 1430 OR UL 3265.
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 OPTION.
10. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- [11] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.

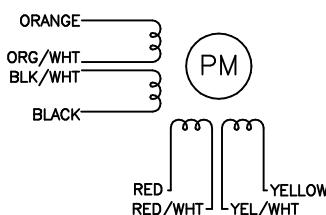
### DRIVE SEQUENCE MODEL BI-POLAR FULL STEP

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

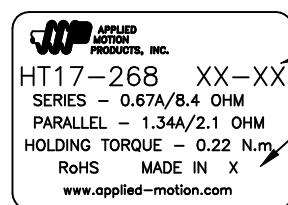
CW(CLOCKWISE) AND CCW(COUNTER-CLOCKWISE) ROTATION  
WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

CW  
CCW

### WIRING DIAGRAM



### LABEL DETAIL



CONTRACT NO.

APPROVALS

DATE

DRAWN

R.JONEZ

CHECKED

APPROVED

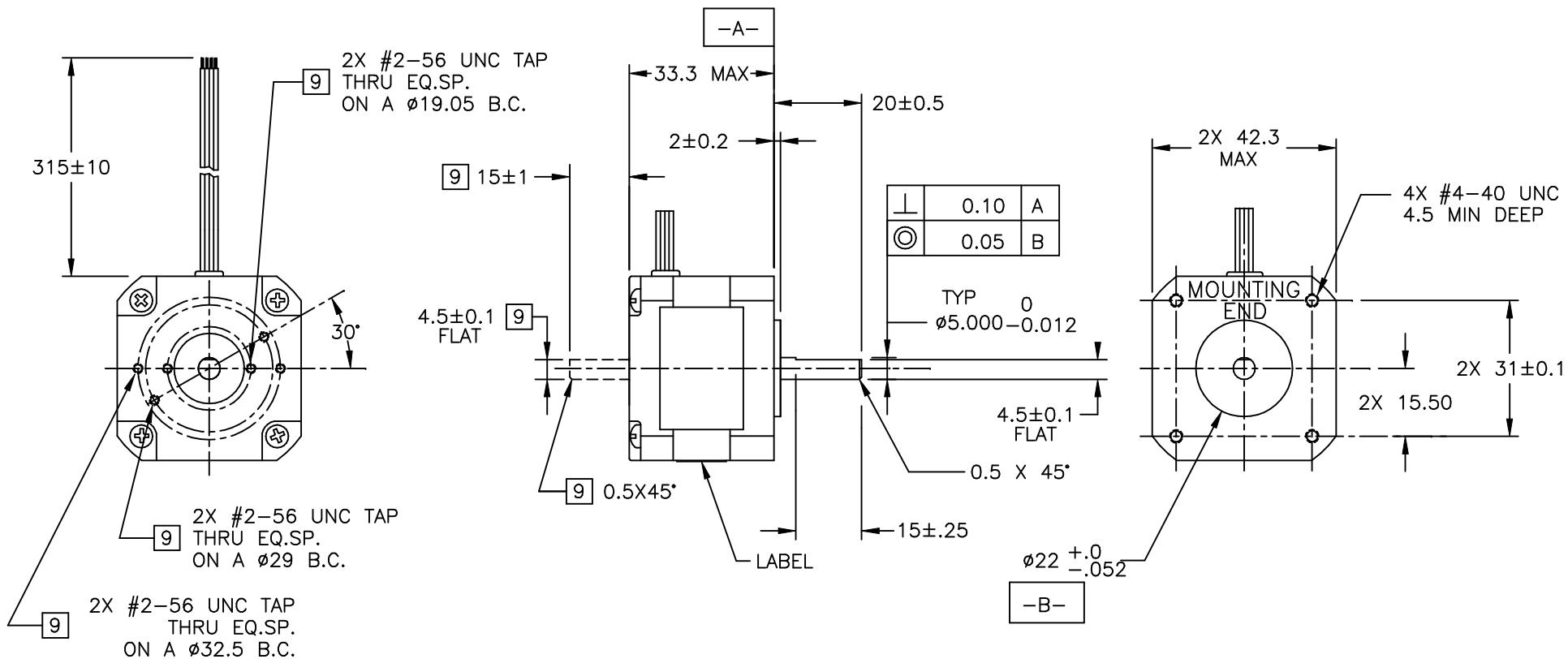
APPROVED



### STEP MOTOR OUTLINE

B	COMPUTER DATA BASE DRAWING	DWG NO. HT17-268	REV C
SCALE: NONE			SHEET 1 OF 2

## MOTOR DRAWING



TOLERANCES		THIRD ANGLE PROJECTION		 <b>APPLIED MOTION PRODUCTS, INC.</b>		
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°				<b>STEP MOTOR OUTLINE</b> APPROVALS      DATE DRAWN <i>R.JONEZ</i> 8/19/09 CHECKED		
COMPUTER DATA BASE DRAWING		APPROVED		SCALE: NONE	HT17-268	
					SHEET 2 OF 2	

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