

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 450 G-CM ² (2.45 OZ-IN ²) REF
STEP ANGLE: 1.8°	HOLDING TORQUE: 1.25N-m (177 OZ-IN) MIN 1
STEP TO STEP ACCURACY: ±5 % 1 , 2	DETENT TORQUE: 90 mN-m (12.7 OZ-IN) MIN
POSITIONAL ACCURACY: ±5 % 1 , 3	
HYSTERESIS: - %	INSULATION CLASS: B
WINDING RESISTANCE: 0.43 OHM ±10% AT 20° 12	BEARINGS: ABEC 3, DOUBLE SHIELDED
WINDING INDUCTANCE: 1.1 mH ± 20% 7	WEIGHT: 830 G (29 OZ) APPROXIMATE
PHASE VOLTAGE: 1.72VDC	TEMP. RISE: 80°C MAX. 8
PHASE CURRENT: 4.0 AMP (RATED)	OPERATING TEMP. RANGE: -20 TO +50 °C
NUMBER OF PHASES: 2	STORAGE TEMP. RANGE: -30 TO +70 °C
SHAFT RUNOUT: 0.03 T.I.R.	RELATIVE HUMIDITY RANGE: 15 TO 85 %
RADIAL PLAY: 0.02mm MAX WITH .5KG RADIAL LOAD.	
END PLAY: 0.08mm MAX WITH .5KG AXIAL LOAD.	

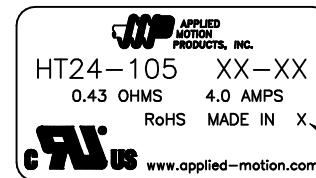
HT24-105

REVISIONS

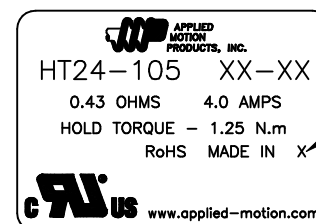
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5896	A	INITIAL RELEASE	2/17/09	J KORDIK
5961	B	REV'D SPECS, HOLES, WIRE COLORS	9/4/09	J KORDIK
6022	C	CONN CHG, TOLERANCE CHG	11/4/09	J KORDIK
6303	D	CONN ORIENTATION CHG	5/12/11	J AMOS
7172	E	SPEC CLEANUP	4/15/15	J KORDIK
7238	F	WIRING DETAIL REVISED	6/22/15	J KORDIK
7247	G	ADD UL TO LABEL	1/26/16	J KORDIK
7447	H	REVISE NOTE 10	6/7/16	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, 60 Hz FOR ONE MINUTE.
- 5 LEADS: 4, 22 AWG, 7 STRAND MIN., UL AND CSA APPROVED, UL 1430 OR UL 1007.
- 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.
- 12 AS MEASURED ACROSS ANY WINDING.



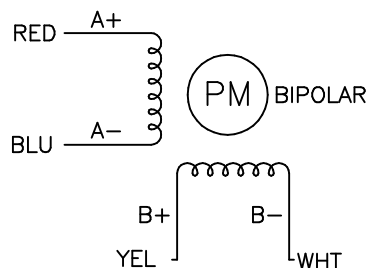
LABEL DETAIL
BOTH OPTIONS ACCEPTABLE



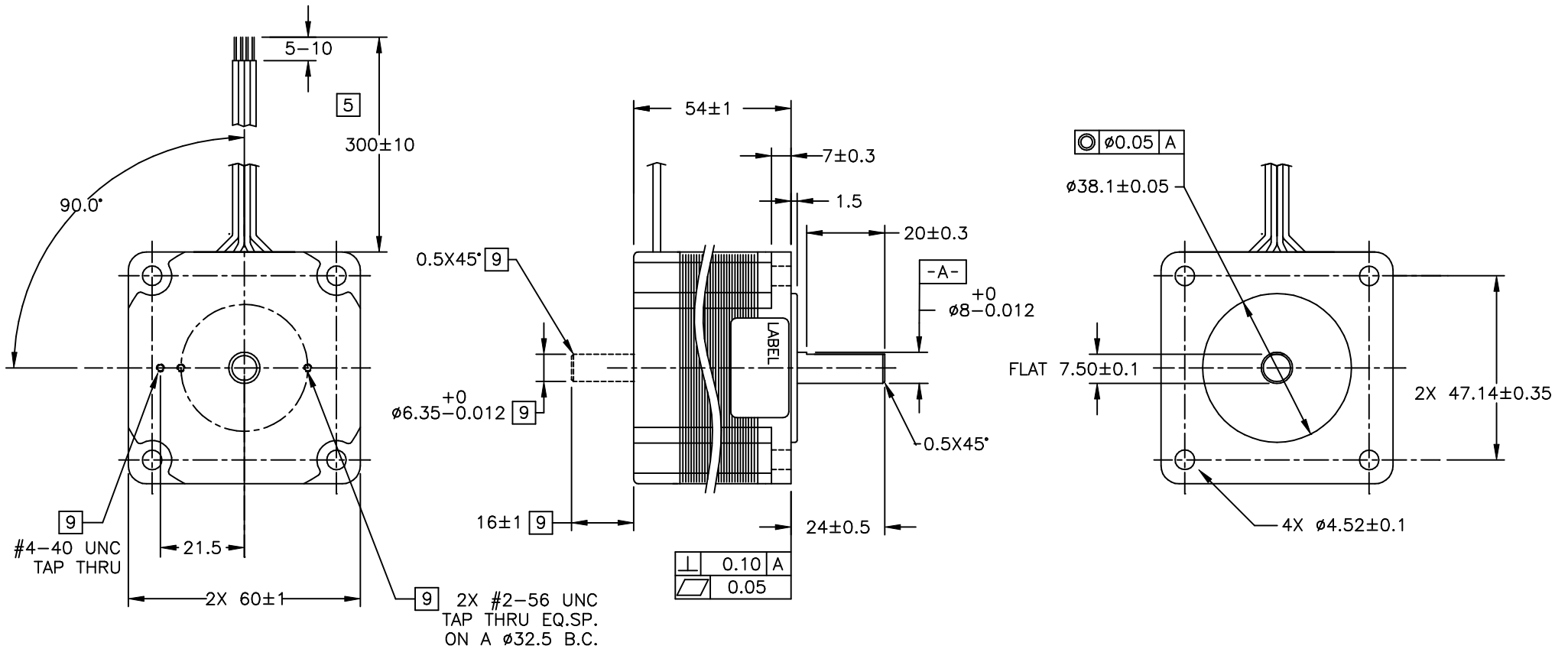
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**SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END**

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+



CONTRACT NO. -		APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	STEP MOTOR OUTLINE		
DRAWN <i>R.JONEZ</i>	<i>2/6/09</i>			
CHECKED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT24-105
APPROVED			REV H	
APPROVED		SCALE: NONE	SHEET 1 OF 2	



TOLERANCES		THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.	
DECIMALS: MM (INCH) X.XXX = ±0.013 (.005) X.XX = ±0.25 (.01) X.X = ±2.5 (0.1)				STEP MOTOR OUTLINE	
ANGLES: MACH. = ±.5° CHAM. = ±5°					
APPROVALS DRAWN <i>R. JONEZ</i> CHECKED		DATE <i>2/6/09</i>		B DWG NO. HT24-105 REV H	
COMPUTER DATA BASE DRAWING		APPROVED		SCALE: NONE SHEET 2 OF 2	