

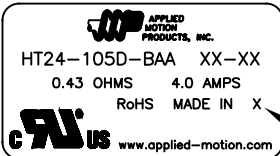
SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 450 G-CM ² (2.45 OZ-IN ²) REF
STEP ANGLE: 1.8°	HOLDING TORQUE: 1.25N-m (177 OZ-IN) MIN 1
STEP TO STEP ACCURACY: ±5 % 1 , 2	DETENT TORQUE: 90 mN-m (12.7 OZ-IN) MIN
POSITIONAL ACCURACY: ±5 % 1 , 3	
HYSTERESIS: - %	INSULATION CLASS: B
WINDING RESISTANCE: 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.	

HT24-105D-BAA

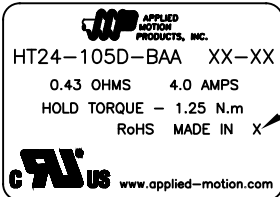
REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7747	A	INITIAL RELEASE	12/20/17	J.KORDIK

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 MEGAOHMS 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 ENCODER 970-1028 INSTALLED PER AMP ASSEMBLY PRACTICES. ENCODER CABLE SOLD SEPARATELY.
- 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.
- 13. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.



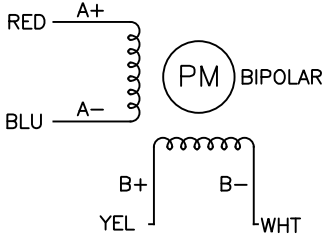
LABEL DETAIL
BOTH OPTIONS ACCEPTABLE



11

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		
DRAWN	<i>N.DEY</i>	10/26/17		
CHECKED	<i>K.KESLER</i>	12/20/17		
APPROVED	<i>J.KORDIK</i>	12/20/17		
APPROVED		SCALE: NONE	SHEET 1 OF 2	

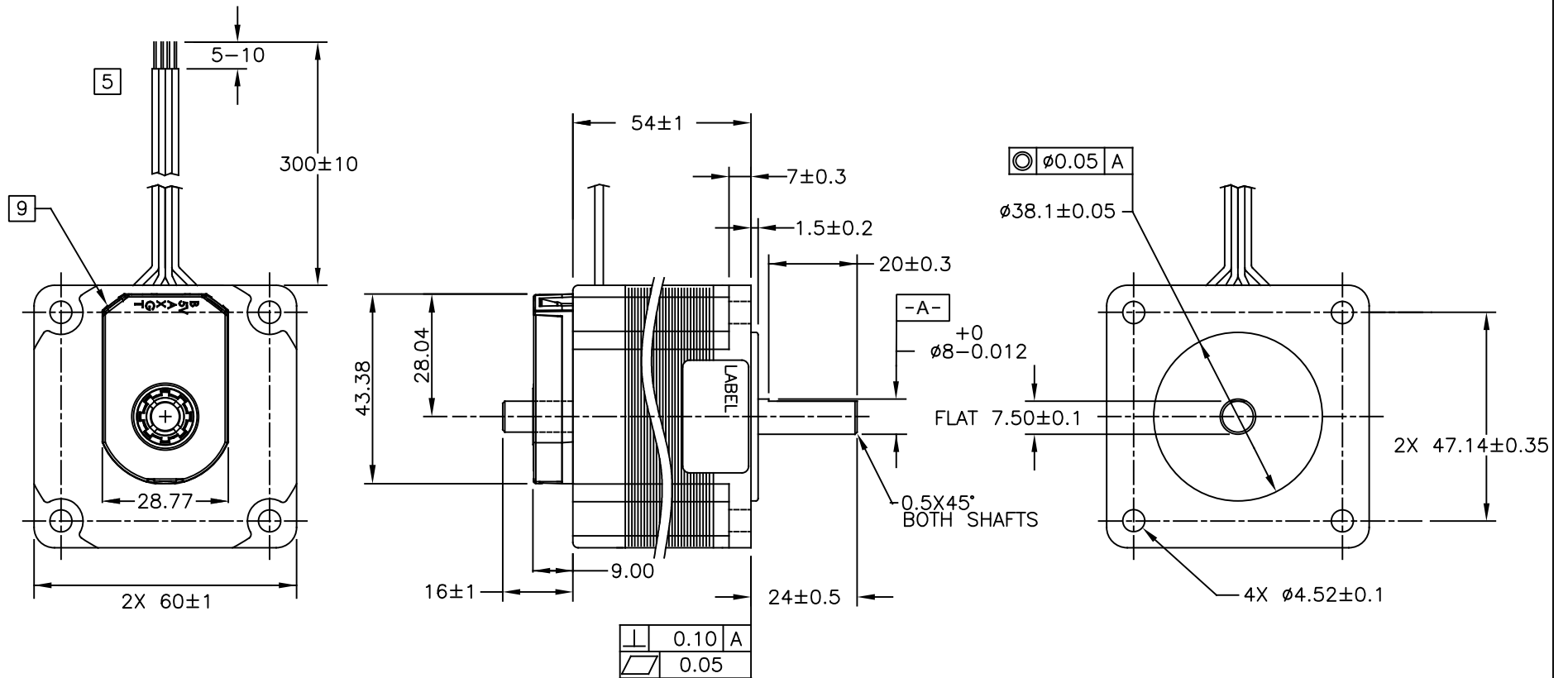
STEP MOTOR OUTLINE

B

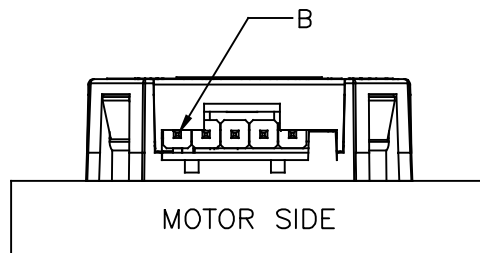
COMPUTER DATA
BASE DRAWING

DWG NO.
HT24-105D-BAA

REV
A



CONNECTOR	
PIN NO:	SIGNAL
B	B CHANNEL
5V	+5 V
A	A CHANNEL
X	INDEX CHANNEL
G	GND
T	UNUSED



TOLERANCES		THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.	
DECIMALS: MM X.XXX = ±0.013 X.XX = ±0.25 X.X = ±2.5 ANGLES: MACH. = ±5° CHAM. = ±5°				STEP MOTOR OUTLINE	
COMPUTER DATA BASE DRAWING		APPROVALS DRAWN N. DEY CHECKED K. KESLER APPROVED J. KORDIK	DATE 10/26/17 12/20/17 12/20/17		
B				DWG NO. HT24-105D-BAA	SHEET 2 OF 2