

SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 460 G-CM ² (6.51E-03 oz-in-sec ²)NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 0.070 N-m (9.91 oz-in) MIN
STEP TO STEP ACCURACY: ±.09 DEGREES [1], [2]	INSULATION CLASS: B
RADIAL PLAY: 0.02 mm MAX W/5KG RADIAL LOAD	WEIGHT: 1.0 KG (2.2 LB)
END PLAY: 0.08 MAX W/1.0 KG AXIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
SHAFT RUNOUT: 0.05 T.I.R.	STORAGE TEMP. RANGE: -30 TO +70 °C
TEMP. RISE: 80 °C MAX. [8]	RELATIVE HUMIDITY RANGE: 15 TO 99 %

SPECIFICATION	[3]	[7]	[1]	[1]
	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	HOLDING TORQUE N-m Min
BI-POLAR SERIES	2.8	6.8	2.12	1.90
BI-POLAR PARALLEL	0.7	1.7	4.24	1.90
UNI-POLAR	1.4	1.7	3.00	1.35

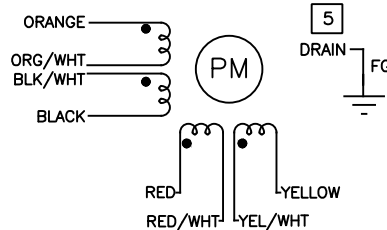
NOTES, UNLESS OTHERWISE SPECIFIED:

- [1] MEASUREMENTS MADE AT RATED CURRENT IN BOTH PHASES.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- [3] MEASUREMENTS MADE AT LEAD ENDS.
4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 8, 22 AWG, 7 STRAND MIN., UL AND CSA APPROVED, 105°C RATED SHIELDED CABLE 666-2126, 8 COND W/DRAIN. DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
6. INSULATION RESISTANCE: 100 MEGAOHMS MIN AT 500 VDC.
- [7] MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz AT LEAD ENDS.
- [8] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
9. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION, INTENDED FOR USE WITH 80VDC DRIVES WHEN WINDINGS CONNECTED IN PARALLEL AND WITH 160VDC DRIVES WHEN WINDINGS CONNECTED IN SERIES.
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.
- [12] CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.
- [13] ENCODER 970-1024 INSTALLED PER AMP ASSEMBLY PRACTICES. ENCODER CABLE SOLD SEPARATELY.
14. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.

BIPOLAR, FULL STEP, 2 PHASE ON PARALLEL CONNECTED

SWITCHING SEQUENCE FOR CW ROTATION FACING MOUNTING END

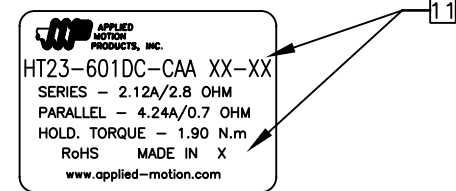
STEP	ORANGE & BLK/WHT	BLACK & ORN/WHT	RED & YEL/WHT	YELLOW & RED/WHT
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



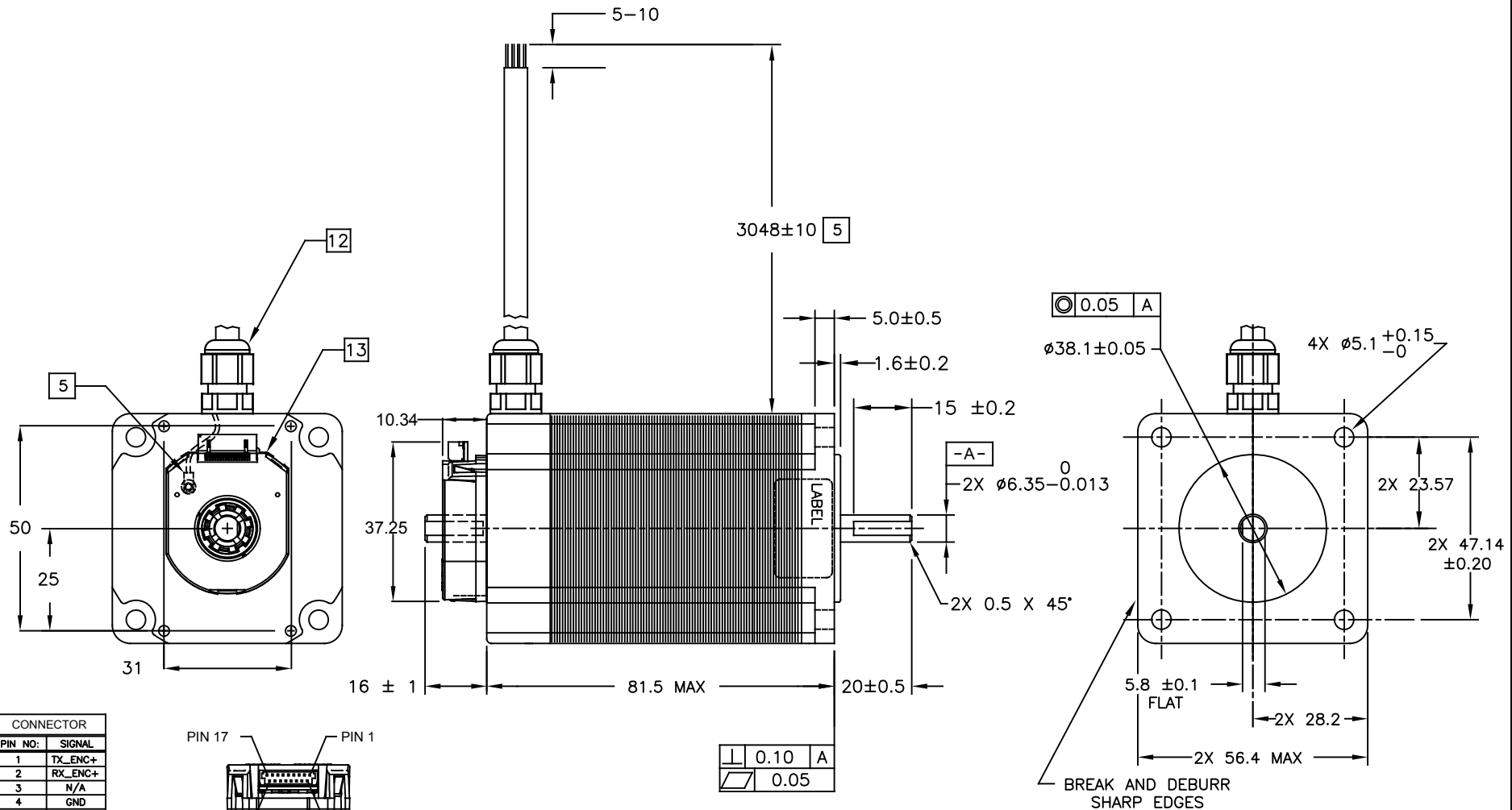
HT23-601DC-CAA

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7710	A	INITIAL RELEASE	9/27/17	J.KORDIK
7750	B	CORRECTED TYPO	10/26/17	J.KORDIK

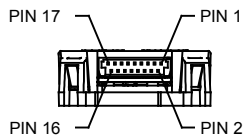
LABEL DETAIL



CONTRACT NO.					
APPROVALS	DATE				
DRAWN <i>N.DEY</i>	10/26/17	<h2>STEP MOTOR OUTLINE</h2>			
CHECKED <i>K.KESLER</i>	10/26/17				
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT23-601DC-CAA	REV B
APPROVED		SCALE: 7:10		SHEET 1 OF 2	



CONNECTOR	
PIN NO.	SIGNAL
1	TX_ENC+
2	RX_ENC+
3	N/A
4	GND
5	N/A
6	+5 V
7	N/A
8	B+
9	B-
10	A+
11	A-
12	Z+
13	Z-
14	MCLR B
15	N/A
16	N/A
17	N/A



0.10	A
0.05	

TOLERANCES	THIRD ANGLE PROJECTION	APPLIED MOTION PRODUCTS, INC.											
DECIMALS: MM X.XXX = ± X.XX = ±0.13 X.X = ±0.25 ANGLES: MACH. = ±5° CHAM. = ±5°		STEP MOTOR OUTLINE											
COMPUTER DATA BASE DRAWING	<table border="1"> <tr> <th>APPROVALS</th> <th>DATE</th> </tr> <tr> <td>DRAWN <i>N.DEY</i></td> <td>10/26/17</td> </tr> <tr> <td>CHECKED <i>K.KESLER</i></td> <td>10/26/17</td> </tr> <tr> <td>APPROVED</td> <td></td> </tr> </table>			APPROVALS	DATE	DRAWN <i>N.DEY</i>	10/26/17	CHECKED <i>K.KESLER</i>	10/26/17	APPROVED		<table border="1"> <tr> <td>B</td> <td>DWG NO. HT23-601DC-CAA</td> <td>REV B</td> </tr> </table>	B
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