

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 460 G-CM ² (2.51 OZ-IN ²) NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 714 G-CM (9.91 OZ-IN) MIN
STEP TO STEP ACCURACY: ±5 %	INSULATION CLASS: B
POSITIONAL ACCURACY: ±5 %	BEARINGS: ABEC 3, DOUBLE SHIELDED
HYSTERESIS: - %	WEIGHT: 1.0 KG (2.2 LB)
SHAFT RUNOUT: 0.05 T.I.R.	TEMP. RISE: 80 °C MAX.
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 %

HT23-600D-ZAA

REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6941	A	INITIAL RELEASE	6/16/14	6/16/14

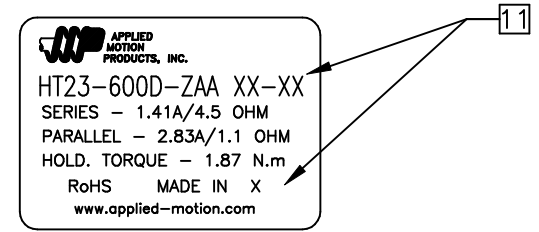
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SPECIFICATION	NUMBER OF PHASE	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	RATED VOLTAGE V	HOLDING TORQUE N.m Min
BI-POLAR SERIES	2	4.5	15.6	1.41	6.4	1.87
BI-POLAR PARALLEL	2	1.1	3.9	2.83	3.2	1.87
UNI-POLAR	4	2.3	3.9	2.00	4.6	1.32

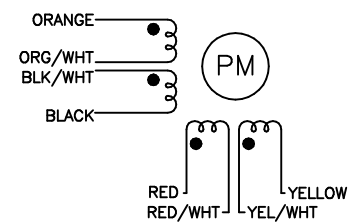
NOTES, UNLESS OTHERWISE SPECIFIED:

- 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, 22AWG, 7 STRAND MIN.,UL AND CSA APPROVED, UL 3265, UL1430.
- 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 ENCODER 970-1001 INSTALLED PER AMP ASSEMBLY PRACTICES. ENCODER CABLE SOLD SEPARATELY..
- 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.

LABEL DETAIL

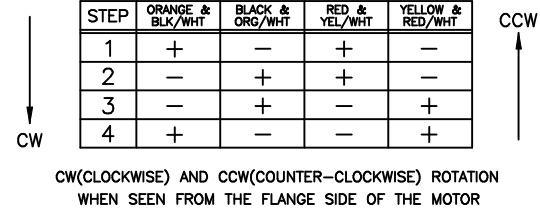


WIRING DIAGRAM



DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP

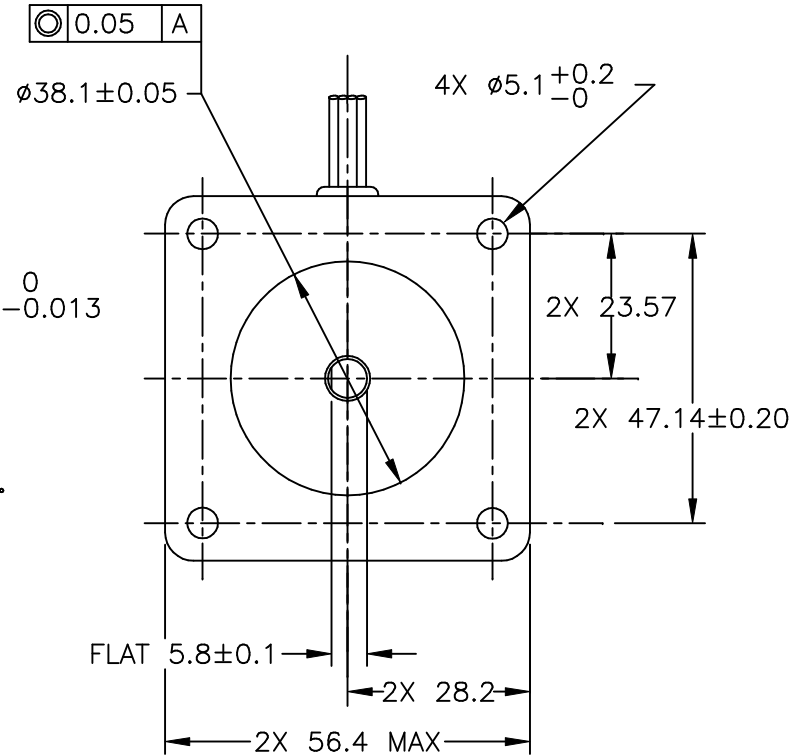
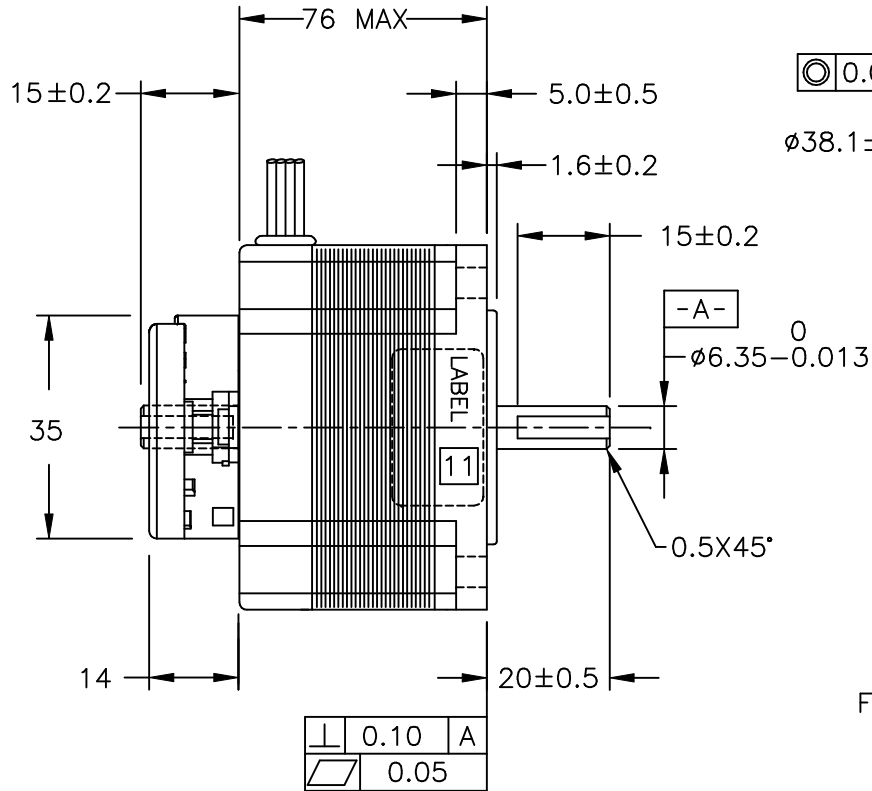
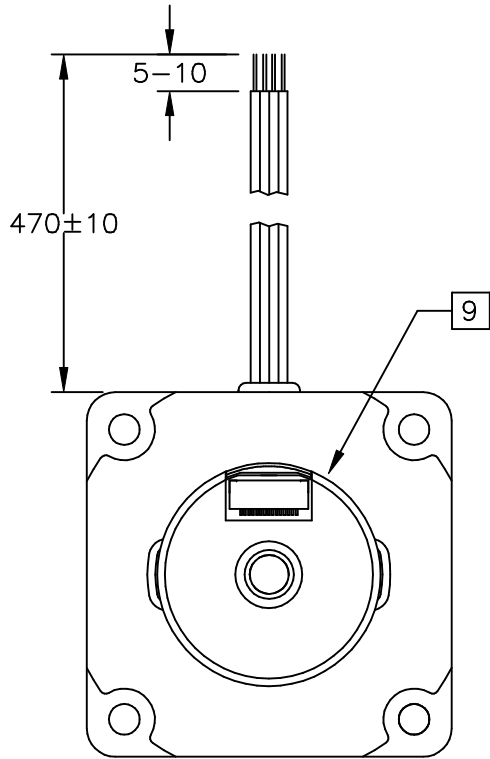
STEP	ORANGE & BLK/WHT	BLACK & ORG/WHT	RED & YEL/WHT	YELLOW & RED/WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+



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

CONTRACT NO. -		APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	STEP MOTOR OUTLINE		
DRAWN <i>R.JONEZ</i>	<i>3/18/14</i>			
CHECKED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT23-600D-ZAA
APPROVED			REV A	
APPROVED		SCALE: NONE	SHEET 1 OF 2	

MOTOR DRAWING

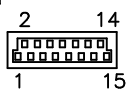


ENCODER RESOLUTION: 2000 cpr
WITH MARKER PULSE.

ENCODER PINOUTS

PIN	SIGNAL
1	CH A
2	CH A-
3	CH B
4	CH B-
5	INDEX
6	INDEX-
7	N/C
8	N/C
9	N/C
10	N/C
11	N/C
12	N/C
13	+Vcc
14	GND
15	N/C

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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°		APPROVALS DRAWN <i>R. JONEZ</i> CHECKED	DATE 3/18/13	STEP MOTOR OUTLINE	
COMPUTER DATA BASE DRAWING		APPROVED		B DWG. NO. HT23-600D-ZAA	REV A
		SCALE: NONE		SHEET 2 OF 2	