

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 % [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY: ±5 % [1], [3]	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. [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 .5KG AXIAL LOAD	STORAGE TEMP. RANGE: -30 TO +70 °C
	RELATIVE HUMIDITY RANGE: 15 TO 85 %

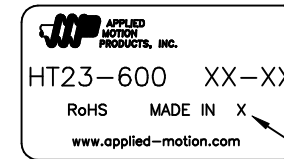
HT23-600

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5976	A	INITIAL RELEASE	8/28/09	J KORDIK
6090	B	STANDARDIZE ENCODER HOLES	3/11/10	J KORDIK

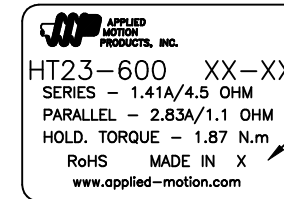
[7]						
SPECIFICATION	NUMBER OF PHASE	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	RATED VOLTAGE V	HOLDING TORQUE N.m Min
CONNECTION						[1]
BI-POLAR SERIES	2	4.5	15.6	1.41	6.4	1.87
BI-POLAR PARALLEL	2	1.1	3.9	2.83	3.2	1.87
UNI-POLAR	4	2.3	3.9	2.00	4.6	1.32

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] SHAFT OPTION: ADD "D" TO END OF PART NUMBER ONLY IF DOUBLE SHAFT REQUIRED. DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTIONS.
- 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.

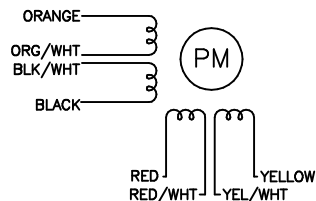


LABEL DETAIL
BOTH OPTIONS ACCEPTABLE



[11]

WIRING DIAGRAM



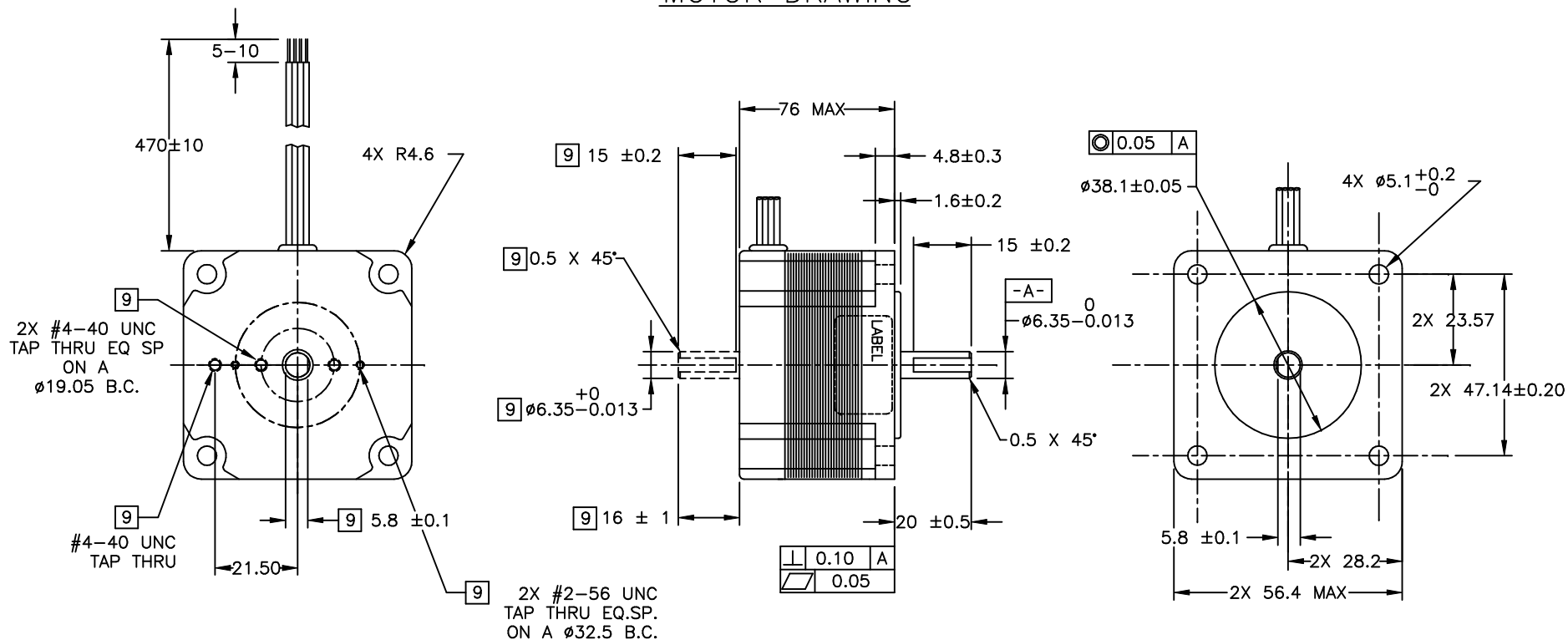
DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP

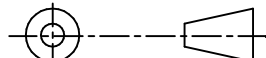

STEP	ORANGE & BLK/WHT	BLACK & ORG/WHT	RED & YEL/WHT	YELLOW & RED/WHT	
1	+	-	+	-	CW ↑
2	-	+	+	-	
3	-	+	-	+	
4	+	-	-	+	

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

CONTRACT NO. -		APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	<h1>STEP MOTOR OUTLINE</h1>			
DRAWN <i>R.JONEZ</i>	<i>1/27/09</i>				
CHECKED		<h2>B</h2>	COMPUTER DATA BASE DRAWING	DWG NO. HT23-600	REV B
APPROVED			SCALE: NONE	SHEET 1 OF 2	

MOTOR DRAWING



<p>TOLERANCES</p> <p>DECIMALS: MM (INCH)</p> <p>X.XXX = \pm (.005)</p> <p>X.XX = ± 0.13 (.010)</p> <p>X.X = ± 0.25 (.020)</p> <p>ANGLES:</p> <p>MACH. = $\pm 5^\circ$</p> <p>CHAM. = $\pm 5^\circ$</p> <p>COMPUTER DATA BASE DRAWING</p>	<p>THIRD ANGLE PROJECTION</p>  <table border="1"> <tr> <td>APPROVALS</td> <td>DATE</td> </tr> <tr> <td>DRAWN <i>R. JONEZ</i></td> <td><i>8/17/09</i></td> </tr> <tr> <td>CHECKED</td> <td></td> </tr> <tr> <td>APPROVED</td> <td></td> </tr> </table>	APPROVALS	DATE	DRAWN <i>R. JONEZ</i>	<i>8/17/09</i>	CHECKED		APPROVED		<p> APPLIED MOTION PRODUCTS, INC.</p> <p>STEP MOTOR OUTLINE</p> <table border="1"> <tr> <td>B</td> <td>DWG NO.</td> <td>HT23-600</td> <td>REV</td> <td>B</td> </tr> <tr> <td colspan="2">SCALE: NONE</td> <td colspan="3">SHEET 2 OF 2</td> </tr> </table>	B	DWG NO.	HT23-600	REV	B	SCALE: NONE		SHEET 2 OF 2		
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