

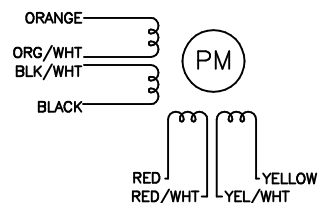
SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 460 G-CM <sup>2</sup> (2.51 OZ-IN <sup>2</sup> )NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 714 G-CM ( 9.91 OZ-IN) MIN
STEP TO STEP ACCURACY: ± 5 %	INSULATION CLASS: B
POSITIONAL ACCURACY: ± 5 %	BEARINGS: ABEC 3 , DOUBLE SHIELDED
HYSTERESIS: - %	WEIGHT: 1.0 KG (2.2 LB)
SHAFT RUNOUT: 0.05 T.I.R.	TEMP. RISE: 80 °C MAX. <span style="float: right;">[8]</span>
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 %

[7]						
SPECIFICATION CONNECTION	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] 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.

WIRING DIAGRAM



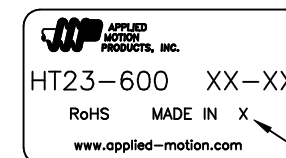
DRIVE SEQUENCE MODEL  
BI-POLAR FULL STEP

STEP	ORANGE & BLK/WHT	BLACK & ORG/WHT	RED & YEL/WHT	YELLOW & RED/WHT	
1	+	-	+	-	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <div style="height: 100px; border-left: 1px solid black; position: relative;"> <div style="position: absolute; top: 0; left: -5px;">↓</div> <div style="position: absolute; bottom: 0; left: -5px;">↓</div> </div> <div style="text-align: center;">CW</div> </div> <div style="margin-left: 10px;"> <div style="height: 100px; border-left: 1px solid black; position: relative;"> <div style="position: absolute; top: 0; left: -5px;">↑</div> <div style="position: absolute; bottom: 0; left: -5px;">↑</div> </div> <div style="text-align: center;">CCW</div> </div> </div>
2	-	+	+	-	
3	-	+	-	+	
4	+	-	-	+	

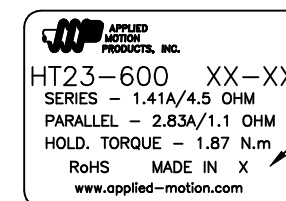
CW(CLOCKWISE) AND CCW(COUNTER-CLOCKWISE) ROTATION  
WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

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

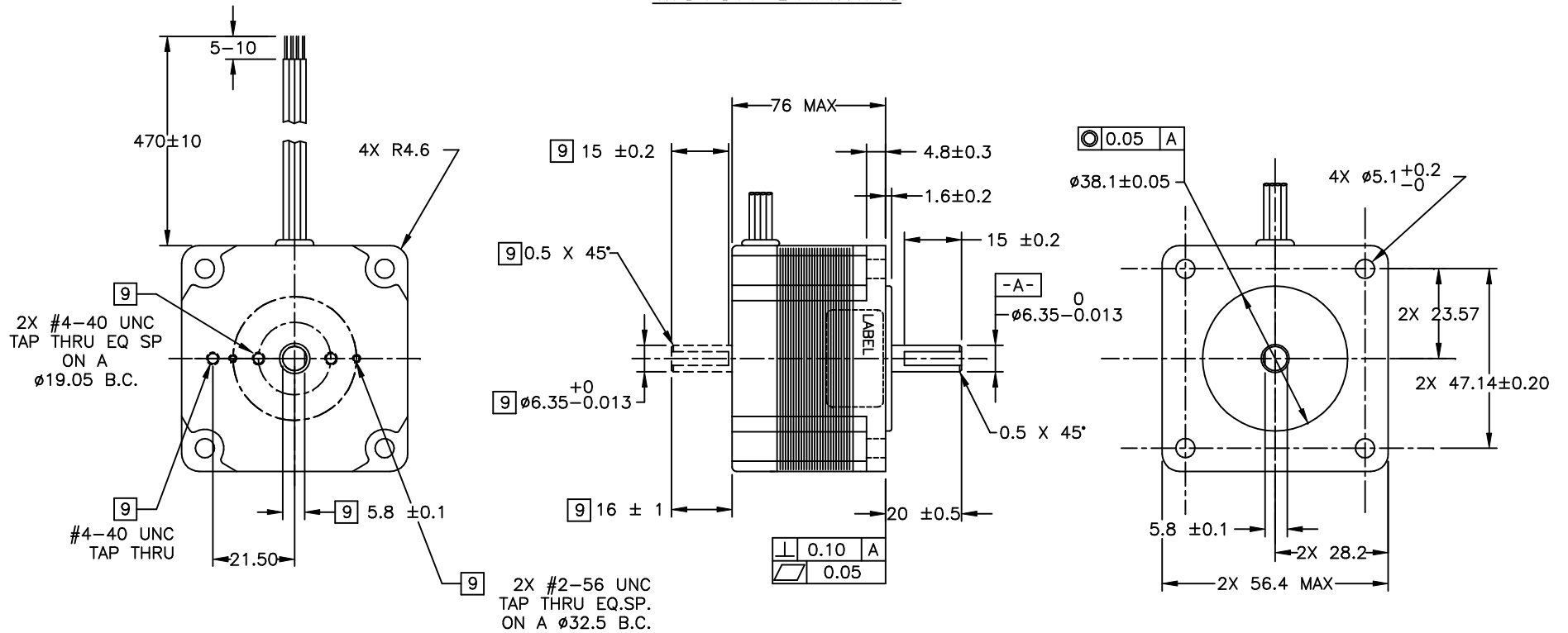



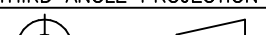
LABEL DETAIL  
BOTH OPTIONS ACCEPTABLE



CONTRACT NO. -				
APPROVALS	DATE			
DRAWN <i>R.JONEZ</i>	1/27/09	<h2 style="text-align: center;">STEP MOTOR OUTLINE</h2>		
CHECKED				
APPROVED				
APPROVED				
SCALE: NONE		B	COMPUTER DATA BASE DRAWING	DWG NO. HT23-600
				REV B
				SHEET 1 OF 2

# MOTOR DRAWING



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°				STEP MOTOR OUTLINE		
COMPUTER DATA BASE DRAWING		APPROVALS	DATE			
		DRAWN R. JONEZ	8/17/09	B	DWG NO. HT23-600	REV B
		CHECKED				
		APPROVED		SCALE: NONE		SHEET 2 OF 2