

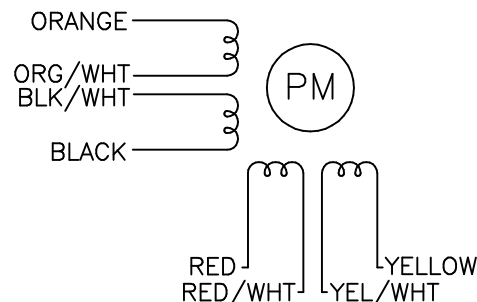
SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 300 G-CM ² (1.64 OZ-IN ²)NOM
STEP ANGLE: 1.8°	HOLDING TORQUE: 9.0 KG-CM (125 OZ-IN)MIN ¹
STEP TO STEP ACCURACY: ± 5 %	DETENT TORQUE: 500 G-CM (6.94 OZ-IN)MIN
POSITIONAL ACCURACY: ± 5 %	
HYSTERESIS: %	INSULATION CLASS: B
WINDING RESISTANCE: 7.2 OHM ±10% AT 25°	BEARINGS: ABEC 3 , DOUBLE SHIELDED
WINDING INDUCTANCE: 11 mH ± 20%	WEIGHT: 0.7 KG (1.54 LB)
PHASE VOLTAGE: 7.2 VDC	TEMP. RISE: 80 °C MAX.
PHASE CURRENT: 1.0 AMP [(RATED) UNIPOLAR]	OPERATING TEMP. RANGE: -20 TO +50 °C
	STORAGE TEMP. RANGE: -40 TO 70 °C
SHAFT RUNOUT: 0.05 T.I.R.	RELATIVE HUMIDITY RANGE: 5 TO 95 %
RADIAL PLAY: 0.025 MAX W/A .5KG RADIAL LOAD.	
END PLAY: 0.075 MAX W/A 1KG AXIAL LOAD.	

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 ,AWG 22,7 STRAND MIN.,UL AND CSA APPROVED, UL 3265.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- ⁷ AS MEASURED ACROSS ANY WINDING. RESISTANCE IS DOUBLED WITH BOTH WINDINGS IN SERIES.
- ⁸ AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz. INDUCTANCE IS FOUR TIMES VALUE WITH WINDINGS IN SERIES.
- ⁹ AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
10. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION.
11. ROTOR & STATOR LAMINATION MATERIAL: 0.5mm thk, SEE AMP STD SPEC #1500-062.
- ¹² SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER.
DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTIONS.
13. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- ¹⁴ MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

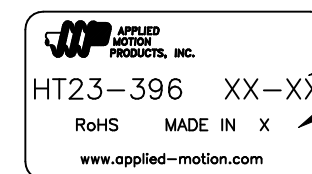
STEP	ORANGE	BLACK	RED	YELLOW
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



HT23-396

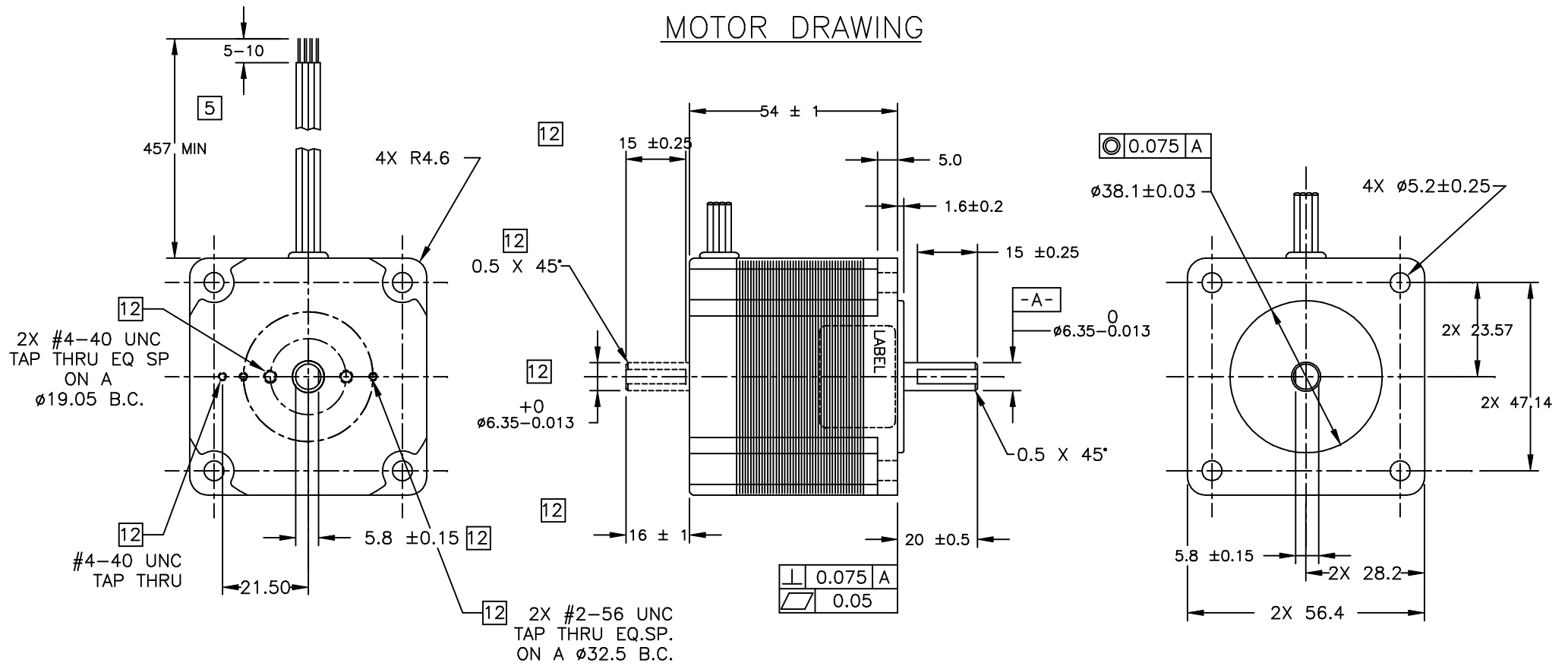
REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
3987	A	INITIAL RELEASE	8/13/96	<i>K. Kordik</i>
5006	B	ADD "23HT54D" DBL SFT REQD		
5235	C	ADD EU COMPLIANCE NOTES	8/25/05	<i>R. Hazelwood</i>
6006	D	ADD ENV DRAWING/ ENC HOLES	10/20/09	J KORDIK
6082	E	ADD #4 HOLES	3/3/10	J KORDIK

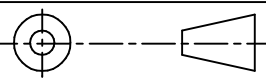
LABEL DETAIL



CONTRACT NO. CAT TS3653N2E4		APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	STEP MOTOR OUTLINE		
DRAWN <i>R. BARRICK</i>	8/13/96			
CHECKED				
APPROVED				
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT23-396 REV E
SCALE: 1=1		SHEET 1 OF 2		

MOTOR DRAWING



TOLERANCES		THIRD ANGLE PROJECTION		 APPLIED MOTION PRODUCTS, INC.		STEP MOTOR OUTLINE	
DECIMALS: MM (INCH) X.XXX= ± (.005) X.XX = ±0.13 (.010) X.X = ±0.25 (.020) ANGLES: MACH. = ±.5° CHAM. = ±5°							
COMPUTER DATA BASE DRAWING		APPROVALS	DATE	B	DWG NO. HT23-396		REV E
		DRAWN R. BARRICK	12/12/02				
		CHECKED		SCALE: NONE			SHEET 2 OF 2
		APPROVED					