SPECIFICATIONS:				
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 480 G-CM ² (2.62 OZ-IN ²) NOM			
STEP ANGLE: 1.8°	HOLDING TORQUE: 13.5KG-CM (187 OZ-IN)MIN 1			
STEP TO STEP ACCURACY: ± 5 % 1,2	DETENT TORQUE: 800 G-CM (11.11 OZ-IN) MIN			
POSITIONAL ACCURACY: ± 5 % 1,3				
HYSTERESIS: %	INSULATION CLASS: B			
WINDING RESISTANCE: 8.2 OHM ±10% AT 25° 7	BEARINGS: ABEC 3, DOUBLE SHIELDED			
WINDING INDUCTANCE: 14 mH ± 20%	WEIGHT: 1.0 KG (2.2 LB)			
PHASE VOLTAGE: 8.2 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.				

	REVISIONS					
ECO NO.	REV	DESCRIPTION	DATE	APPROVED N. Kordik		
3987	Α	INITIAL RELEASE	8/16/96			
5007	В	ADD"23HT39D"IF DBL SHFT				
5235	C	ADD EU COMPLIANCE NOTES	8/25/05	R. Hazelwood		
6006	D	ADD ENV DRAWING/ ENC HOLES	10/20/09	J KORDIK		
6090	Ε	STANDARDIZE ENCODER HOLES	J KORDIK			

DE //C/ONG

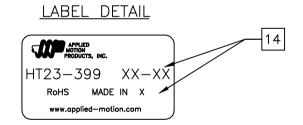
NOTES, UNLESS OTHERWISE SPECIFIED:

- 1 MEASURMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 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.
- 3 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 SREIES.

HT23-3

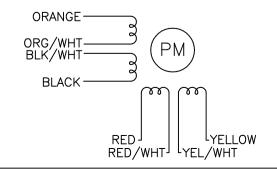
- AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- 10. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION.
- 11. ROTOR & STATOR LAMINATION MATERIAL: 0.5mm thk, SEE AMP STD SPEC #1500-062.
- SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END 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".
- 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	_	+	1	+
3	+		1	+
4	+	_	+	_



CAT TS3653N3E7	•				APPLIED MOTION PRODUCTS.	INC.	
APPROVALS	DATE						
DRAWN R. BARRICK	8/15/96	STEP MOTOR OUTLINE			,		
CHECKED B. Corser	8/16/96						
	0/10/30	_	COMPU	COMPUTER DATA DW			REV
	8/16/96			DRAWING	DWG NO. HT23-399		E
APPROVED		SCALE: 1=1				SHEET 1 OF 2	

