SPECIFICATIONS:			
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 280 G-CM <sup>2</sup> (1.53 OZ-IN <sup>2</sup> ) NOM		
STEP ANGLE: 1.8°	HOLDING TORQUE: 8.5 KG-CM ( 118 OZ-IN)MIN 1		
STEP TO STEP ACCURACY: ± 5 % 1,2	DETENT TORQUE: N/A G-CM (N/A OZ-IN)		
POSITIONAL ACCURACY: ± 5 % 1,3			
HYSTERESIS: %	INSULATION CLASS: B		
WINDING RESISTANCE: 1.8 OHM ±10% AT 25° 7	BEARINGS: ABEC 3 , DOUBLE SHIELDED		
WINDING INDUCTANCE: 3.2 mH ± 20%	WEIGHT: 0.7 KG (1.54 LB)		
PHASE VOLTAGE: 3.6 VDC	TEMP. RISE: 80 °C MAX.		
PHASE CURRENT: 2.0 AMP [(RATED)UNIPOLAR] 15	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: 0.02 MAX W/0.45 KG RADIAL LOAD			
END PLAY: 0.08 MAX W/0.45 KG AXIAL LOAD			

	REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED	
5197	Α	INITIAL RELEASE	3/14/05	r. Hazelwoos	
5219	В	SPEC CHANGES	6-9-05	R. HAZELWOOD	
5235	С	ADD EU COMPLIANCE NOTES	8/25/05	R. Hazelwood	
5273	D	REMOVE CABLE CALLOUT	2/6/06	R. Hazelwood R. Hazelwood	
5587	E	REMOVE 'D' IN BASE P/N	8/20/07	J. Xordik	
6203	F	REVISE SPECS	12/21/10	J.Amos	
6515	G	REVISE NOTE 5	6/11/12	f Georgiana J.Xordik	
7445	Н	REVISE NOTE 16	6/6/16	J. Xordik	

NOTES, UNLESS OTHERWISE SPECIFIED:

- MEASURMENTS 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 24,7 STRAND MIN., UL AND CSA APPROVED, UL 1430 OR UL 3265, CABLE, 8 COND. W/DRAIN, P/N 666-2107.
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 3 AS MEASURED ACROSS ANY WINDING. RESISTANCE IS DOUBLED WITH BOTH WINDINGS IN SERIES. MEASUREMENTS MADE WITHOUT CABLE.
- 8 AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz. INDUCTANCE IS FOUR TIMES VALUE WITH WINDINGS IN SERIES. MEASUREMENTS MADE WITHOUT CABLE.

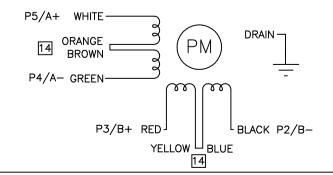
HT23-549

- 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 LAMINATED CONSTRUCTION.
- 12 LABEL TO INCLUDE AMPS/PHASE, MOTOR RESISTANCE, VOLTAGE, DATE CODE AND MADE IN TAIWAN.
- 13 DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
- 14 SOLDER CENTER TAP WIRES TOGETHER, WRAP IN SHRINK TUBING AND CONCEAL WITHIN BOOT.
- 15 CURRENT SETTING WHEN USED WITH STAC-6 = 1.5 A
- 16. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- 17. MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT.
- [18] SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER.

## BIPOLAR, FULL STEP, 2 PHASE ON SERIES CONNECTED

SWITCHING SEQUENCE FOR CW ROTATION FACING MOUNTING END

STEP	WHITE/A+	GREEN/A-	RED/B+	BLACK/B-
0	+	_	+	_
1		+	+	_
2	I	+	-	+
3	+	_	-	+
4	+	_	+	_



CONTRACT NO.					APPLIED MOTION PRODUCTS,	INC.	
APPROVALS	DATE						_
	3/5/2005	STEP MOTOR OUTLINE					S
CHECKED. Barrick	3/9/05	_	COMPUTER DATA DWG NO.				REV
U. UMAGE CAD IT C CAD	3/14/05	В		DRAWING	DWG NO. HT23-549		H
APPROVED		SCALE: 1=1				SHEET 1 OF 2	-

