SPECIFICATIONS:					
STEPS PER REVOLUTION: 200	ROTOR INERTIA:260 G-CM <sup>2</sup> (3.68E-03 oz-in-sec <sup>2</sup> )NOM				
STEP ANGLE: 1.8°	DETENT TORQUE: 0.040 N-m (5.66 oz-in) MIN				
STEP TO STEP ACCURACY: ±.09 DEGREE 1, 2	INSULATION CLASS: B				
RADIAL PLAY: 0.02 mm MAX W/.5KG RADIAL LOAD	WEIGHT: 0.6 KG (1.32 LB)				
END PLAY: 0.08 MAX W/1.0 KG AXIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C				
SHAFT RUNOUT: 0.05 T.I.R.	STORAGE TEMP. RANGE: -30 TO +70 °C				
TEMP. RISE: 80 °C MAX.	RELATIVE HUMIDITY RANGE: 15 TO 99 %				
	<u> </u>				

	3	7		1	1
SPECIFICATION	RESISTANCE	INDUCTANCE	RATED	HOLDING	HOLDING
	PER PHASE	PER PHASE	CURRENT	TORQUE	TORQUE
CONNECTION	OHM ±10%	mH ±20%	Amp	N-m Min	oz-in Min
BI-POLAR SERIES	2.0	5.6	2.12	1.12	158
BI-POLAR PARALLEL	0.5	1.4	4.24	1.12	158
UNI-POLAR	1.0	1.4	3.00	0.85	120

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6449	Α	INITIAL RELEASE	2/8/12	J KORDIK
6564	В	WAS -ZAA, DRAWING CLEANUP	7/25/12	J KORDIK
6578	С	105°C CABLE/DOC CLEANUP	8/22/12	J KORDIK

ZAC

598D

HW23-

NOTES, UNLESS OTHERWISE SPECIFIED:

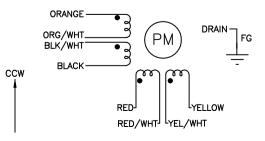
- 1 MEASUREMENTS MADE AT RATED CURRENT IN BOTH PHASES.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MEASUREMENTS MADE AT LEAD ENDS.
- 4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- 5. LEADS: 8, 22 AWG, 7 STRAND MIN., UL AND CSA APPROVED, 105°C RATED CABLE 666-2126, 8 COND W/DRAIN.
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE, AT 1 kHz. MEASUREMENTS MADE AT LEAD ENDS.
- 8 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- 9 MOTOR TO MEET IP65 STANDARDS. CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.
- 10. 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.
- 2 ENCODER CABLE 3004-195-10 TO BE INCLUDED WITH MOTOR. PLEASE REFER TO CABLE DRAWING, AVAILABLE ON WEBSITE, FOR FULL DETAILS. ENCODER VOLTAGE: +5V ±5%, ENCODER CURRENT: 160mg.
- 13. ASSEMBLE PER AMP SPEC 960-0082.

CW

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

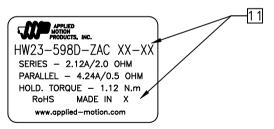
SWITCHING SEQUENCE FOR CW ROTATION FACING MOUNTING END

STEP	ORANGE & BLK/WHT	BLACK & ORN/WHT	RED & YEL/WHT	YELLOW & RED/WHT
0	+	_	+	_
1	_	+	+	_
2	_	+	-	+
3	+	-	1	+
4	+	_	+	_



14. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION, INTENDED FOR USE WITH 80VDC DRIVES WHEN WINDINGS CONNECTED IN PARALLEL AND WITH 160VDC DRIVES WHEN WINDINGS CONNECTED IN SERIES.





CONTRACT NO.	APPLIED MOTION PRODUCTS, INC.						
APPROVALS	DATE						_
DRAWN R.JONEZ	2/8/12	STEP MOTOR OUTLINE					
CHECKED							
		_	COMPL	ITER DATA	DWG NO.		REV
APPROVED		I H I				-598D-ZAC	C
APPROVED		SCALE:	NONE			SHEET 1 OF 2	

