SPECIFICATIONS:						
NUMBER OF PHASES: 4	ROTOR INERTIA: 135 g-cm ² (0.738 oz-in ²) NOM					
STEPS PER REVOLUTION: 200	DETENT TORQUE: 224.3 g-cm (3.11 oz-in) MIN					
STEP ANGLE: 1.8°	INSULATION CLASS: B					
STEP TO STEP ACCURACY: 0.09° 1 , 2 BEARINGS: ABEC 3, DOUBLE SHIELDED						
POSITION ACCURACY: 0.09° 1,	3	TEMP. RISE: 80°C MAX.	9			
HYSTERESIS: N/A%		OPERATING TEMP. RANGE: -20 TO +50 °C				
SHAFT RUNOUT: 0.03 mm T.I.R. MAX		STORAGE TEMP. RANGE: -30 TO +70°C				
RADIAL PLAY: 0.02 mm MAX (0.5 kg RADIAL LO	RELATIVE HUMIDITY RANGE 15 TO 85%					
END PLAY: 0.08 mm MAX (0.5 kg AXIAL LOAD)		WEIGHT: 420 G (14.8 oz) APPROXIMATE				

CONNECTION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE 8 (mH ±20%)	RATED CURRENT (Amp)	HOLDING TORQUE 1 (Nm MIN)	HOLDING TORQUE 1 (oz-in)
BI-POLAR SERIES	2.8	5.6	1.41	0.54	76.5
BI-POLAR PARALLEL	0.7	1.4	2.83	0.54	76.5
UNI-POLAR	1.4	1.4	2.00	0.39	55.2

NOTES, UNLESS OTHER WISE SPECIFIED:

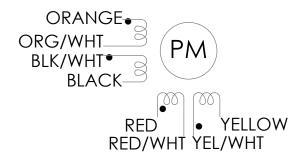
- MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.

В

- HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 8, 22 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- AS MEASURED ACROSS EACH PHASE.
- 8 AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
- AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES: WITH MOTOR AT REST.
- 10 ENCODER 970-1001 INSTALLED PER AMP ASSEMBLY PRACTICES. RESOLUTION: 2000 CPR WITH MARKER PULSE. ENCODER CABLE SOLD SEPARATELY.
- 11. ROTOR AND STATOR LAMINATED CONSTRUCTION.
- 12. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU ROHS DIRECTIVE.
- 13 MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "ROHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.
- 14. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.

	REVISIONS						
ECO#	REV.	DESCRIPTION	DATE	APPROVED			
6941	Α	INITIAL RELEASE	1/16/14	JEFF. K			
8034	В	CHG REAR SHAFT LENGTH/TYPO	8/25/18	JEFF. K			
8705	С	REDRAWN IN SOLIDWORKS BY ALAN. N, FRONT END BELL THK FROM 5+/-0.5 TO 4.8+/-0.3, SHAFT L 16 +/-0.2	8/23/21 ALAN. N	LEO. L			

WIRING DIAGRAM



DRIVE SEQUENCE MODEL **BI-POLAR PARALLEL FULL STEP**

	STEP	(A+) ORG & BKL/WHT	(A-) BLK & ORG/WHT	(B+) RED & YEL/WHT	(B-) YEL & RED/WHT	CCW
	1	+	-	+	-	A
	2	-	+	+	-	
	3	-	+	-	+	
V	4	+	-	-	+	
CW	1	+	-	+	-	

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE MOUNTING FACE END OF THE MOTOR

