			_				
SPECIFICATION							
NUMBER OF PHASES: 4				ROTOR INERTIA: 38 g-cm ² (0.20 oz-in ²) NOM			
STEPS PER REVOLUTION: 200				DETENT TORQUE: 122.3 g-cm (1.69 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 LOAD)				RELATIVE HUMIDITY RANGE: 15 TO 85%			
END PLAY: 0.08 mm MAX (0.5 kg AXIAL LOAD)				WEIGHT: 210 g (7.3 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	8.4	10	0.67	0.22	31.15
В	I-POLAR PARALLEL	2.1	2.5	1.34	0.22	31.15
	UNI-POLAR	4.2	2.5	0.95	0.16	22.66

NOTES, UNLESS OTHER WISE SPECIFIED:

- MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
- HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- LEADS: 8, 26 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 AS MEASURED ACROSS EACH PHASE.
- 8 AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
- 9 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES: WITH MOTOR AT REST.
- 10 ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED. DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTION.
- 11. ROTOR AND STATOR LAMINATED CONSTRUCTION.
- 12. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU ROHS DIRECTIVE.
- MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.

revisions						
ECO # REV. DESCRIPTION		DATE	APPROVED			
5976	А	INITIAL RELEASE	8/28/09	JEFF. K		
5995	В	PERPENDICULARITY CORRECTED	9/28/09	JEFF. K		
6090	С	STANDARDIZE ENCODER HOLES	3/29/10	JEFF. K		
7247	D	ADD UL TO LABEL	1/26/16	JEFF. K		
7446	Е	revised note 10	6/6/16	JEFF. K		
8209	F	CLEAN-UP	4/29/19	JEFF. K		
8277	G	remove encoder holes	7/3/19	JEFF. K		
8675	Н	RE-DRAW IN SOLIDWORKS, ENCODER HOLE DEPTH CHANGED	6/15/21	LEO. L		

DRIVE SEQUENCE MODEL BI-POLAR PARALLEL FULL STEP

	STEP	ORG & BLK/WHT	BLK & ORG/WHT	RED & YEL/WHT	YEL & RED/WHT	CCW
	1	+	-	+	-	I
1	2	-	+	+	-	
V	3	-	+	-	+	
CW	4	+	-	1	+	
	1	+	-	+	-	'

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE FLANGE SIDE OF THE MÓTOR

WIRING DIAGRAM





