SPECIFICATION							
NUMBER OF PHASES: 4				ROTOR INERTIA: 82 g-cm ² (0.44 oz-in ²) NOM			
STEPS PER REVOLUTION: 200				DETENT TORQUE: 244.7 g-cm (3.39 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: 360 g (12.6 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	6.6	12.8	0.85	0.55	77.89
BI-POLAR PARALLEL	1.7	3.2	1.70	0.55	77.89
UNI-POLAR	3.3	3.2	1.20	0.39	55.23

NOTES, UNLESS OTHER WISE SPECIFIED:

- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
- 4. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 8, 26 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- 6. 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.
- 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.

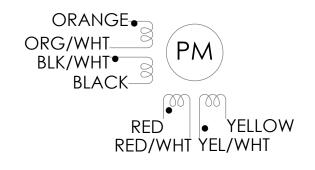
REVISIONS						
ECO#	CO # REV. DESCRIPTION		DATE	APPROVED		
5976	Α	INITIAL RELEASE	8/28/09	JEFF. K		
6036	В	REVISE SPECS	12/10/09	JEFF. K		
6090	С	STANDARDIZE ENCODER HOLES	3/10/10	JEFF. K		
7247	D	ADDED UL TO LABEL	1/26/16	JEFF. K		
7446	E	REVISED NOTE 10	6/6/16	JEFF. K		
8209	F	DOCUMENT CLEAN UP	4/22/19	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		

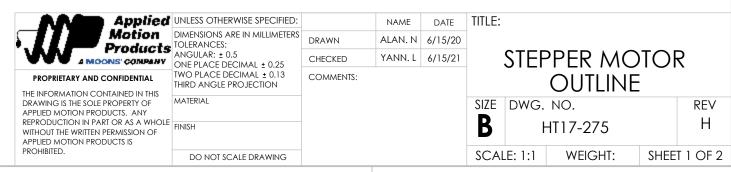
DRIVE SEQUENCE MODEL BI-POLAR PARALLEL FULL STEP

	STEP	ORG & BLK/WHT	BLK & ORG/WHT	RED & YEL/WHT	YEL & RED/WHT	CCW
	1	+	-	+	-	T
	2	-	+	+	-	
	3	-	+	-	+	
CW	4	+	-	-	+	
	1	+	-	+	-	'

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

WIRING DIAGRAM





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