В

	•					
SPECIFICATIONS:						
	NUMBER OF PHASES: 4	ROTOR INERTIA: 135 g-cm <sup>2</sup> (0.738 oz-in <sup>2</sup> ) 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.	7			
	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: 420 G (14.8 oz ) APPROXIMATE				

CONNECTION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE (mH ±20%)	RATED CURRENT (Amp)	HOLDING TORQUE (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:

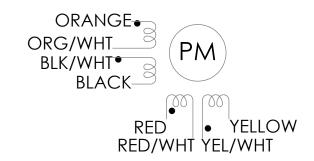
- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
- 4. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 8, 22 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 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.
- 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	Α	INITIAL RELEASE	8/28/09	JEFF. K			
6090	В	STANDARDIZE ENODER HOLES	3/29/10	J. KORDIK			
6345	С	DRAWING CLEANUP	9/20/11	E. RICE			
6394	D	REVISED NOTE 5	11/7/11	J. KORDIK			
6807	Е	REVISED FLANGE THICKNESS	9/9/13	J. KORDIK			
7247	F	ADDED UL TO LABEL	1/26/16	J. KORDIK			
		REVISED NOTE 10	6/6/16	J. KORDIK			
		MOUNTING TAB THICKNESS	8/14/19	J. KORDIK			
8705	8705 I REDRAWN IN SOLIDWORKS		8/23/21	L. LIU			
8787	J	REVISED MODEL & UPDATED SHEET FORMAT	5/20/22	L. LIU			

## 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	+	-	+	-	<b>A</b>
	2	-	+	+	-	
	3	-	+	-	+	
V	4	+	-	-	+	
CW	1	+	-	+	-	

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

Applied	THIRD ANGLE PROJECTION		NAME	DATE	TITLE:			
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DRAWN	Y. LAPNET	5/20/22		STEPPER MOTOR		
4 MOONS' COMPANY	TOLERANCES: - ANGULAR: ± 0.5	PRE.CHECK				OTEL TER	7710101	
PROPRIETARY AND CONFIDENTIAL	- ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	PRE.APPROVAL						
THE INFORMATION CONTAINED IN THIS		FIN.CHECK	C. BREUNINGER	5/20/22				
DRAWING IS THE SOLE PROPERTY OF APPLIED MOTION PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE	MATERIAL	SAP: 4611110029093		SIZE	DWG. NO.		REV	
WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS	FINISH	alt dwg. no.: HT23-594D		B	HT23-594		J	
PROHIBITED.	DO NOT SCALE DRAWING	ALT SAP: 4611110029094			SCALE: 1:1 SHEET 1		)F 2	

4

3

2

1

