9

1 | , | 3 POSITION ACCURACY: 0.09° HYSTERESIS: N/A% SHAFT RUNOUT: 0.03 mm T.I.R. MAX

OPERATING TEMP. RANGE: -20 TO +50 °C STORAGE TEMP. RANGE: -30 TO +70°C **RELATIVE HUMIDITY RANGE 15 TO 85%**

RADIAL PLAY: 0.02 mm MAX (0.5 kg RADIAL LOAD) END PLAY: 0.08 mm MAX (0.5 kg AXIAL LOAD) WEIGHT: 600 G (21.16 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	1.7	5.7	2.12	1.12	158.6
BI-POLAR PARALLEL	0.4	1.4	4.24	1.12	158.6
UNI-POLAR	0.9	1.4	3.00	0.85	120.4

NOTES, UNLESS OTHER WISE SPECIFIED:

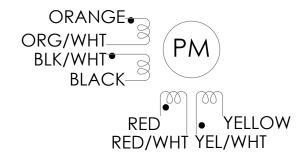
- MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
- HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- LEADS: 8, 22 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430 OR UL 3265
- INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- AS MEASURED ACROSS EACH PHASE.
- 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.
- 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.
- 13 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	J. KORDIK				
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				
7445	G	REVISED NOTE 10	6/6/16	J. KORDIK				
8209	Н	SPECS UPDATED	4/29/19	J. KORDIK				
8317	J	SPECS UPDATED	9/3/19	J. KORDIK				
8705	K	SHAFT TOLERANCE FROM +0/012 TO +0/-013	8/23/21	L. LIU				
8787	L	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	+	-	+	-	A
	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:			
Motion Products	DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13 MATERIAL	DRAWN	Y. LAPNET	5/20/22		STEPPER MOTOR		
4 MOONS' COMPANY		PRE.CHECK				OTEL TER	771010	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APPLIED MOTION PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS PROHIBITED.		PRE.APPROVAL						
		FIN.CHECK	C. BREUNINGER	5/20/22				
		SAP: 4611110029095			SIZE	DWG. NO.		REV
	FINISH	alt dwg. no.: HT23-598D] B	HT23-598		L
	DO NOT SCALE DRAWING	ALT SAP: 4611110028489			SCALE: 1:1 SHEET 1		SHEET 1 C)F 2

