	REVISIONS							
ECO#	CO # REV. DESCRIPTION		DATE	APPROVED				
7747	А	INITIAL RELEASE	12/20/17	J. KORDIK				
8705	В	END BELL THICKNESS FROM 5+/- 0.5 TO 4.8+/-0.3	8/23/21	L. LIU				
8787	С	REVISED MODEL & UPDATED SHEET FORMAT	5/20/22	L. LIU				

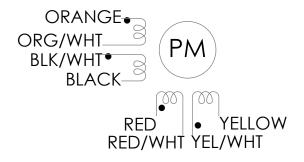
SPECIFICATIONS:							
NUMBER OF PHASES: 4		ROTOR INERTIA: 750 g-cm² (4.09 oz-in²) NOM					
STEPS PER REVOLUTION: 200		DETENT TORQUE: 120 mN-m (16.99 oz-in) MIN					
STEP ANGLE: 1.8°		INSULATION CLASS: B					
STEP TO STEP ACCURACY: 0.09° 1 , 2		BEARINGS: ABEC 3, DOUBLE SHIELDED					
POSITION ACCURACY: 0.09° 1, 3		TEMP. RISE: 80°C MAX.					
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	LO	WEIGHT: 1500 G (3.3 LB) 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	2.0	8.8	2.5	2.5	354	
BI-POLAR PARALLEL	0.5	2.2	5.0	2.5	354	
UNI-POLAR	1.0	2.2	3.5	1.86	264	

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.
- 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 970-1028 INSTALLED PER AMP ASSEMBLY PRACTICES. 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.

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	
Motion Products	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DRAWN
4 MOONS' COMPANY	TOLERANCES: - ANGULAR: ± 0.5	PRE.CHECK
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF	- ONE DECIMAL PLACE: ± 0.25	PRE.APPRO
	- TWO DECIMAL PLACES: ± 0.13	FIN.CHECK
APPLIED MOTION PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE	MATERIAL	SAP: 46111
WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS	FINISH	ALT DWG. N
PROHIBITED.	DO NOT SCALE DRAWING	ALT SAP:

1	THIRD ANGLE PROJECTION		NAME	DATE	TITLE:			
\$	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DRAWN	Y. LAPNET	5/20/22		STEPPER	MOTO	R
		PRE.CHECK				OTEL TER	7410101	•
		PRE.APPROVAL						
	- TWO DECIMAL PLACES: ± 0.13	FIN.CHECK	C. BREUNINGER	5/20/22	SIZE	DWC NO	1	חרי
	TVV (TERV) (E	SAP: 4611110060912				DWG. NO.		RE
	FINISH	ALT DWG. NO.:			В	HT23-603D-BAA		C
	DO NOT SCALE DRAWING	ALT SAP:			S	CALE: 1:1	SHEET 1 C)F 2

