

SPECIFICATIONS:

NUMBER OF PHASES: 4	ROTOR INERTIA: 260 g-cm ² (1.42 oz-in ²) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 0.040 N-m (5.66 oz-in) MIN
STEP ANGLE: 1.8°	INSULATION CLASS: B
STEP TO STEP ACCURACY: 0.09°	TEMP. RISE: 80 °C MAX.
HYSTERESIS: N/A%	OPERATING TEMP. RANGE: -20 TO +50 °C
SHAFT RUNOUT: 0.05 mm T.I.R. MAX	STORAGE TEMP. RANGE: -30 TO +70 °C
RADIAL PLAY: 0.02 mm MAX (0.5 kgf RADIAL LOAD)	RELATIVE HUMIDITY RANGE 15 TO 99%
END PLAY: 0.2 mm MAX (15 kgf AXIAL LOAD)	WEIGHT: 0.6 kg (1.32 lb) APPROXIMATE

CONNECTION	RESISTANCE PER PHASE (ohm $\pm 10\%$)	INDUCTANCE PER PHASE (mH $\pm 20\%$)	RATED CURRENT (Amp)	HOLDING TORQUE (Nm MIN)	HOLDING TORQUE (oz-in MIN)
BI-POLAR SERIES	2.2	5.6	2.12	1.12	158
BI-POLAR PARALLEL	0.55	1.4	4.24	1.12	158
UNI-POLAR	1.1	1.4	3.00	0.85	120

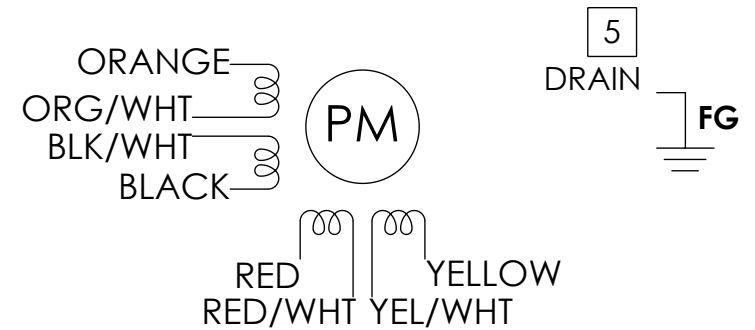
NOTES, UNLESS OTHER WISE SPECIFIED:

- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MEASUREMENTS MADE AT LEADS ENDS.
4. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 8, 22 AWG, 7 STRAND MIN., UL2517 AND CSA APPROVED, 105°C RATED SHIELDED CABLE 666-2126, 8 COND W/DRAIN. DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR END BELL.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1 KHz AT LEAD ENDS.
- 8 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
9. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU RoHS DIRECTIVE.
- 10 MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.
- 11 CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.

REVISIONS

ECO #	REV.	DESCRIPTION	DATE	APPROVED
6604	A	INITIAL RELEASE	10/29/12	J.KORDIK
6728	B	ADD CABLE GLAND	04/03/13	S.LOVEJOY
8250	C	ADD UL TO LABEL, MTG TAB THK	06/05/19	J.KORDIK
9032	D	UPDATED IN SW, CABLE DIMENSIONS CORRECTED	05/17/24	K.KESLER

WIRING DIAGRAM



DRIVE SEQUENCE MODEL BI-POLAR FULL STEP

STEP	(A+) ORG & BLK/WHT	(A-) BLK & ORG/WHT	(B+) RED & YEL/WHT	(B-) YEL & RED/WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+
1	+	-	+	-

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



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.

THIRD ANGLE PROJECTION		NAME		DATE		TITLE: STEP MOTOR		
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13		DRAWN	C.BREUNINGER	05/16/24				
		PRE.CHECK	-	-				
		PRE.APPROVAL	-	-				
		FIN.CHECK	E.MERINO	05/16/24				
MATERIAL		SAP: 4611110032583				SIZE	DWG. NO.	REV
FINISH						B	HT23-598DC	D
-		ALT DWG. NO.: -						
DO NOT SCALE DRAWING		ALT SAP: -				SCALE: 1:1		SHEET 1 OF 2

