

SPECIFICATIONS:			
NUMBER OF PHASES: 2		ROTOR INERTIA: 900 g-cm ² (4.91 oz-in ²) NOM	
STEPS PER REVOLUTION: 200		DETENT TORQUE: 100 mNm (14.1 oz-in) MIN	
STEP ANGLE: 1.8°		INSULATION CLASS: B	
STEP TO STEP ACCURACY: ±5%	1	,	2
POSITION ACCURACY: ±5%	1	,	3
BEARINGS: ABEC 3, DOUBLE SHIELDED			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)		MAX. DYNAMIC AXIAL LOAD: 15N	
WEIGHT: 1.4 kg (3.1 Lbs) APPROXIMATE		MAX. DYNAMIC RADIAL LOAD: 75N	

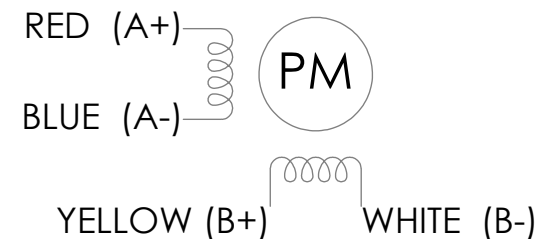
CONNECTION	RESISTANCE PER PHASE (ohm $\pm 10\%$) 7	INDUCTANCE PER PHASE (mH $\pm 20\%$) 8	RATED CURRENT (Amp)	HOLDING TORQUE (Nm TYP.) 1	HOLDING TORQUE (oz-in TYP.) 1
BI-POLAR	0.65	2.0	4	3.2	453

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: 4, 22 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430
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. ROTOR AND STATOR LAMINATED CONSTRUCTION.
11. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU RoHS DIRECTIVE.
- 12 MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.
13. THE MOTOR IS UL RECOGNIZED IN THE US AND CANADA, FILE NO. E472271.
- 14 ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED.
DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTION.

REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
5896	A	INITIAL RELEASE	02/17/09	J. KORDIK
5961	B	REV'D SPECS, HOLES, WIRE COLORS	09/04/09	J. KORDIK
6022	C	CONN CHG, TOLERANCE CHG	11/04/09	J. KORDIK
6303	D	CONN ORIENTATION CHG	05/12/11	J. AMOS
7172	E	SPEC CLEANUP	04/15/15	J. KORDIK
7238	F	SPECS/CONN REVISED	06/22/15	J. KORDIK
7247	G	ADD UL TO LABEL	01/26/16	J. KORDIK
7447	H	REVISE NOTE 10	06/07/16	J. KORDIK
7867	J	REVISE SPECS, MOUNTING HOLES	02/26/18	J. KORDIK
8366	K	REVISE SPECS	10/30/19	J. KORDIK
8768	L	UPDATE LAM STACK AND END BELL SHAPE	04/18/22	K.KESLER


WIRING DIAGRAM



DRIVE SEQUENCE MODEL BI-POLAR FULL STEP

STEP	A+	A-	B+	B-
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+
1	+	-	+	-

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

<div><div>Applied Motion Products <small>A MOONS' COMPANY</small></div></div> <div>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.</div>	THIRD ANGLE PROJECTION		NAME	DATE	TITLE: STEPPER 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	04/11/22			
		PRE.CHECK	K.KESLER	04/12/22			
		PRE.APPROVAL					
		FIN.CHECK	K.KESLER	04/18/22	SIZE B	DWG. NO. HT24-108	REV L
	MATERIAL	SAP: 4611110029103					
	FINISH	ALT DWG. NO.: HT24-108D					
DO NOT SCALE DRAWING	ALT SAP: 4611110029104			SCALE: 1:1		SHEET 1 OF 2	

