

SPECIFICATIONS:

NUMBER OF PHASES: 2	ROTOR INERTIA: 260 g-cm^2 (1.42 oz-in 2) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 40 mNm (5.66 oz-in) MIN
STEP ANGLE: 1.8°	INSULATION CLASS: B
STEP TO STEP ACCURACY: $\pm 5\%$	BEARINGS: ABEC 3, DOUBLE SHIELDED
POSITION ACCURACY: $\pm 5\%$	TEMP. RISE: 80°C MAX. 9
HYSERESIS: 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: 600 g (1.3 Lbs) APPROXIMATE	MAX. DYNAMIC RADIAL LOAD: 75N

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	WIRING DETAIL 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
8774	I	CHANGED LAM STACK/ END BELL SHAPE	04/05/22	K.KESLER
8768	J	MOVED TO REV J PER ASME Y14.35M	04/18/22	K.KESLER

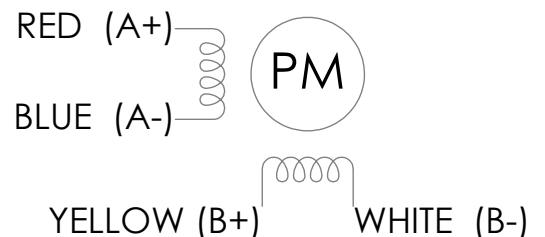
CONNECTION	RESISTANCE PER PHASE (ohm $\pm 15\%$) 7	INDUCTANCE PER PHASE (mH $\pm 20\%$) 8	RATED CURRENT (Amp) 1	HOLDING TORQUE (Nm MIN) 1	HOLDING TORQUE (oz-in MIN) 1
BI-POLAR	0.73	1.6	2.8	0.87	123

NOTES, UNLESS OTHERWISE 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.

WIRING DIAGRAM

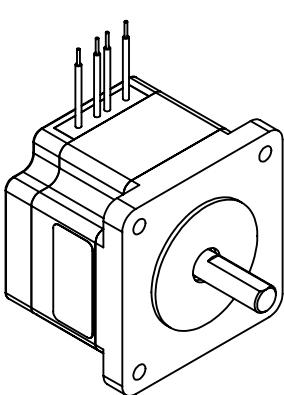
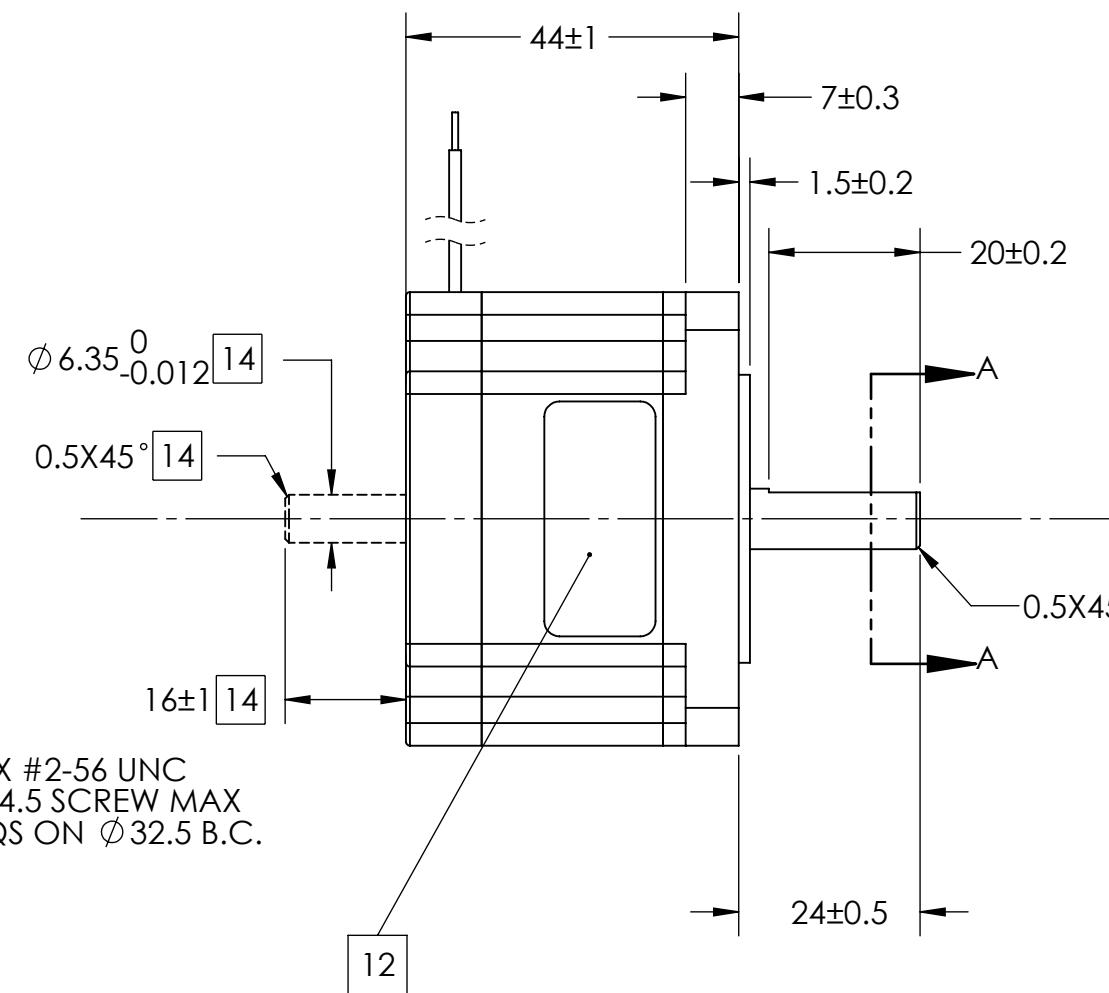
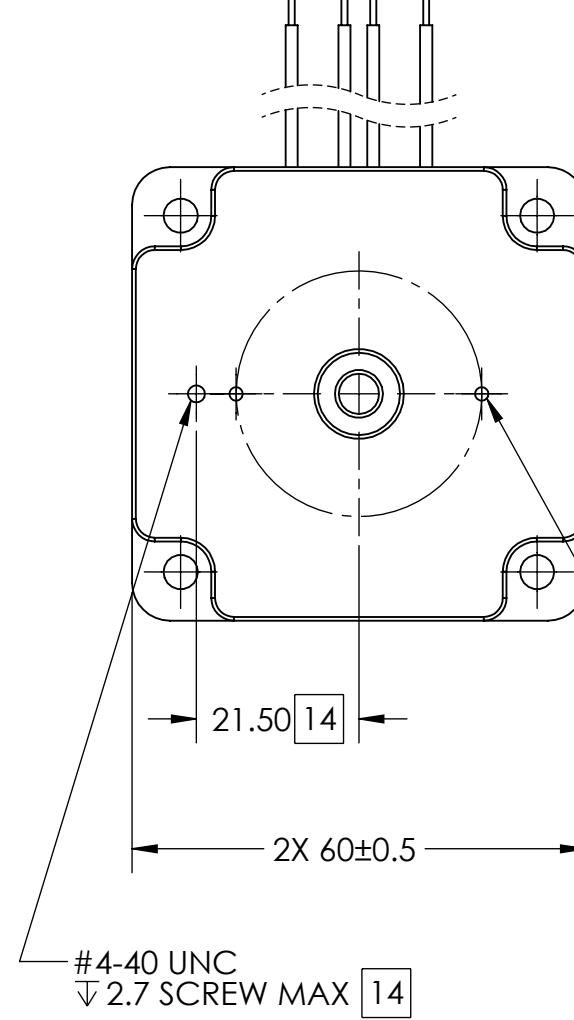
DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP

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

Applied Motion Products A MOON'S COMPANY				THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	NAME	DATE	TITLE:
MATERIAL	DRAWN	C.BREUNINGER	04/12/22				
FINISH	PRE.CHECK			PRE.APPROVAL			
				FIN.CHECK	K.KESLER	04/18/22	
				SAP: 4611110029099			
				ALT DWG. NO.: HT24-100D			
				DO NOT SCALE DRAWING	ALT SAP: 4611110029100		
						SCALE: 1:1	SHEET 1 OF 2

B



SECTION A-A



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		
UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN MILLIMETERS		
TOLERANCES:		
- ANGULAR: ± 0.5		
- ONE DECIMAL PLACE: ± 0.25		
- TWO DECIMAL PLACES: ± 0.13		
MATERIAL		
SAP: 4611110029099		
FINISH		
ALT DWG. NO.: HT24-100D		
DO NOT SCALE DRAWING		
ALT SAP: 4611110029100		

TITLE: STEPPER MOTOR		
SIZE	DWG. NO.	REV
B	HT24-100	J
SCALE: 1:1	SHEET 2 OF 2	