SPECIFICATION	
NUMBER OF PHASES: 4	ROTOR INERTIA: 82 g-cm^2 (0.44 oz-in^2) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 244 g-cm (3.39 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. [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)	WEIGHT: 340 g (12.0 oz) APPROXIMATE

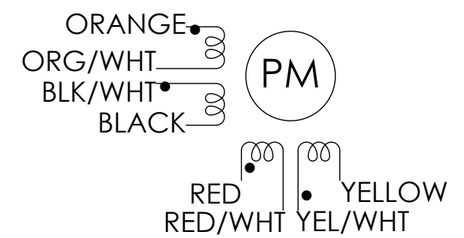
CONNECTION	RESISTANCE PER PHASE [7] (ohm ±10%)	INDUCTANCE PER PHASE [8] (mH ±20%)	RATED CURRENT (Amp)	HOLDING TORQUE [1] (Nm MIN)	HOLDING TORQUE [1] (oz-in MIN)
BI-POLAR SERIES	6.6	10	0.85	0.44	62.3
BI-POLAR PARALLEL	1.7	2.5	1.70	0.44	62.3
UNI-POLAR	3.3	2.5	1.20	0.31	43.8

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: 8, 26 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.

REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
5976	A	INITIAL RELEASE	8/28/09	J. KORDIK
6036	B	REVISE SPECS	12/10/09	J. KORDIK
6090	C	STANDARDIZE ENCODER HOLES	3/10/10	J. KORDIK
7247	D	ADDED UL TO LABEL	1/26/16	J. KORDIK
7446	E	REVISED NOTE 10	6/6/16	J. KORDIK
8209	F	DOCUMENT CLEAN UP	4/22/19	J. KORDIK
8277	G	REMOVE ENCODER HOLES	7/3/19	J. KORDIK
8675	H	RE-DRAW IN SOLIDWORKS, ENCODER HOLE DEPTH CHANGED	6/15/21	L. LIU
9023	J	SEPARATE DUAL SHAFT DRAWING, REVISED WINDING SPECS	01/18/24	K. KESLER

WIRING DIAGRAM



DRIVE SEQUENCE MODEL
BI-POLAR PARALLEL FULL STEP

CW

STEP	ORG & BLK/WHT	BLK & ORG/WHT	RED & YEL/WHT	YEL & RED/WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+
1	+	-	+	-

CCW

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION
WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

Applied Motion Products
A MOONS' 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
MATERIAL
FINISH
DO NOT SCALE DRAWING

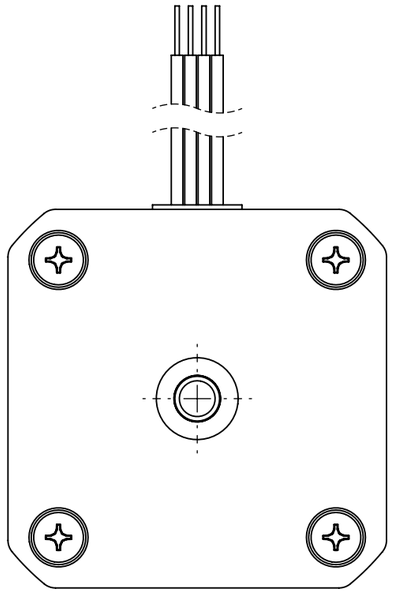
	NAME	DATE
DRAWN	C.BREUNINGER	01/17/24
PRE.CHECK		
PRE.APPROVAL		
FIN.CHECK	E.MERINO	01/17/24

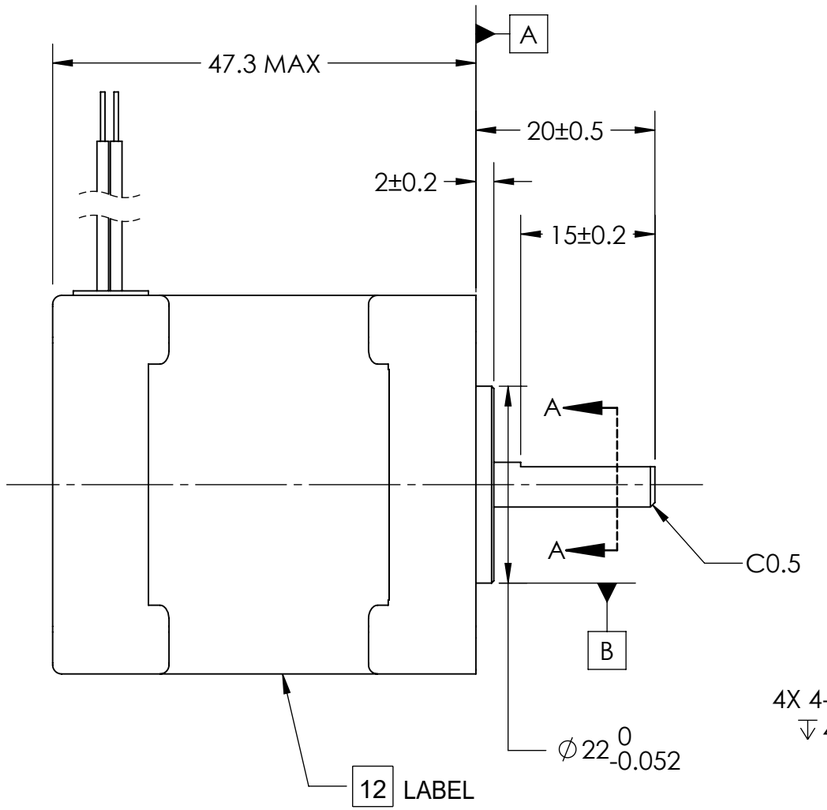
SAP: 4611110029089
ALT DWG. NO.:
ALT SAP:

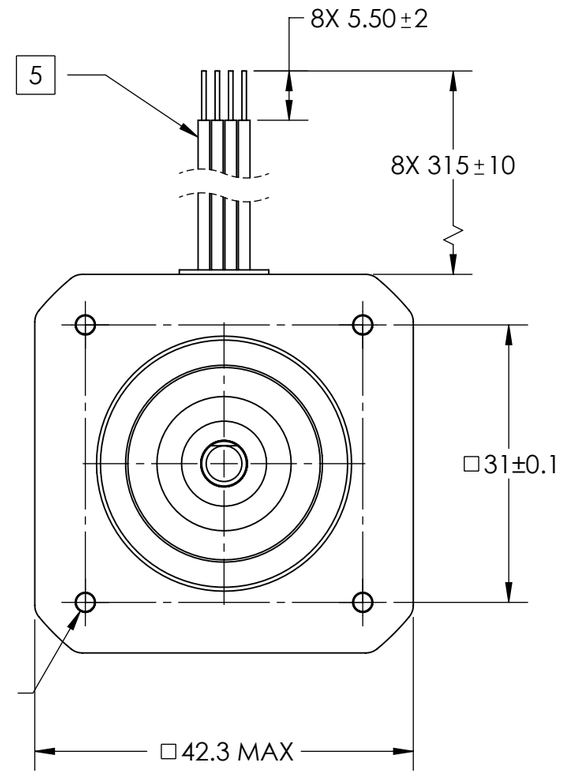
TITLE: STEPPER MOTOR

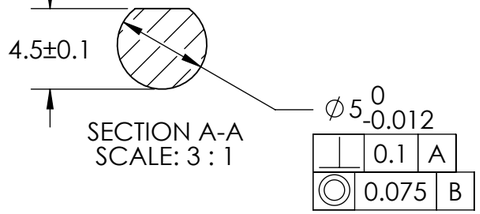
SIZE	DWG. NO.	REV
B	HT17-275	J

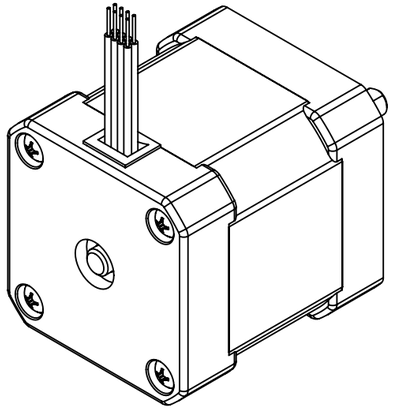
SCALE: 1:1 | SHEET 1 OF 2

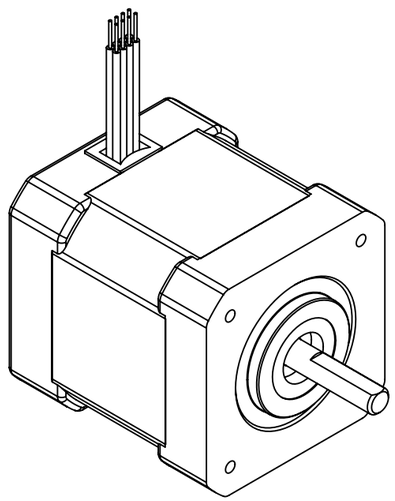












Applied Motion Products — A MOONS' COMPANY	THIRD ANGLE PROJECTION		NAME / DATE
PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	DRAWN	C.BREUNINGER 01/17/24
THE INFORMATION CONTAINED 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.CHECK	
		PRE.APPROVAL	
		FIN.CHECK	E.MERINO 01/17/24
	MATERIAL	SAP: 4611110029089	
	FINISH	ALT DWG. NO.:	
	DO NOT SCALE DRAWING	ALT SAP:	

TITLE: STEPPER MOTOR

SIZE	DWG. NO.	REV
B	HT17-275	J

SCALE: 1:2 SHEET 2 OF 2