SPECIFICATION	
NUMBER OF PHASES: 4	ROTOR INERTIA: 123 g-cm^2 (0.67 oz-in^2) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 25 mNm (3.54 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 LOAD)	WEIGHT: 600 g (21.1 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)
BI-POLAR SERIES	6.4	12	1.0	0.8	113.29
``	1.6	3.0	2.0	0.8	113.29
UNI-POLAR	3.2	3.0	1.4	0.56	79.3

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 OR UL 3265
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] ENCODER 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.

REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
8675	A	INITIAL RELEASE	6/15/21	LEO. L

DRIVE SEQUENCE MODEL
BI-POLAR PARALLEL FULL STEP

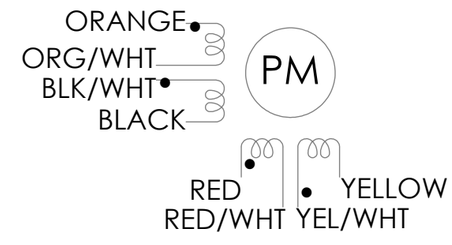
CW ↓

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

WIRING DIAGRAM



Applied Motion Products
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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
ANGULAR: ± 0.5
ONE PLACE DECIMAL ± 0.25
TWO PLACE DECIMAL ± 0.13
THIRD ANGLE PROJECTION
MATERIAL
FINISH
DO NOT SCALE DRAWING

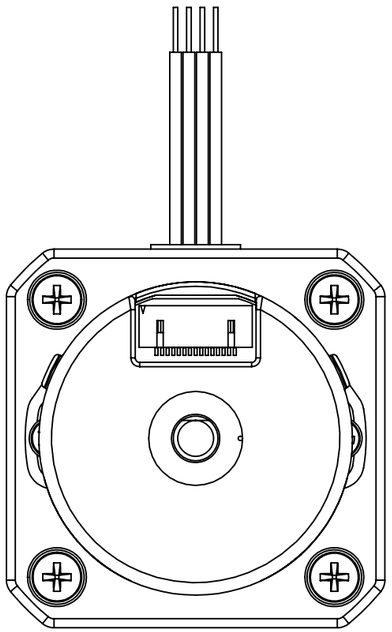
	NAME	DATE
DRAWN	ALAN. N	6/15/20
CHECKED	YANN. L	6/15/20
COMMENTS:		

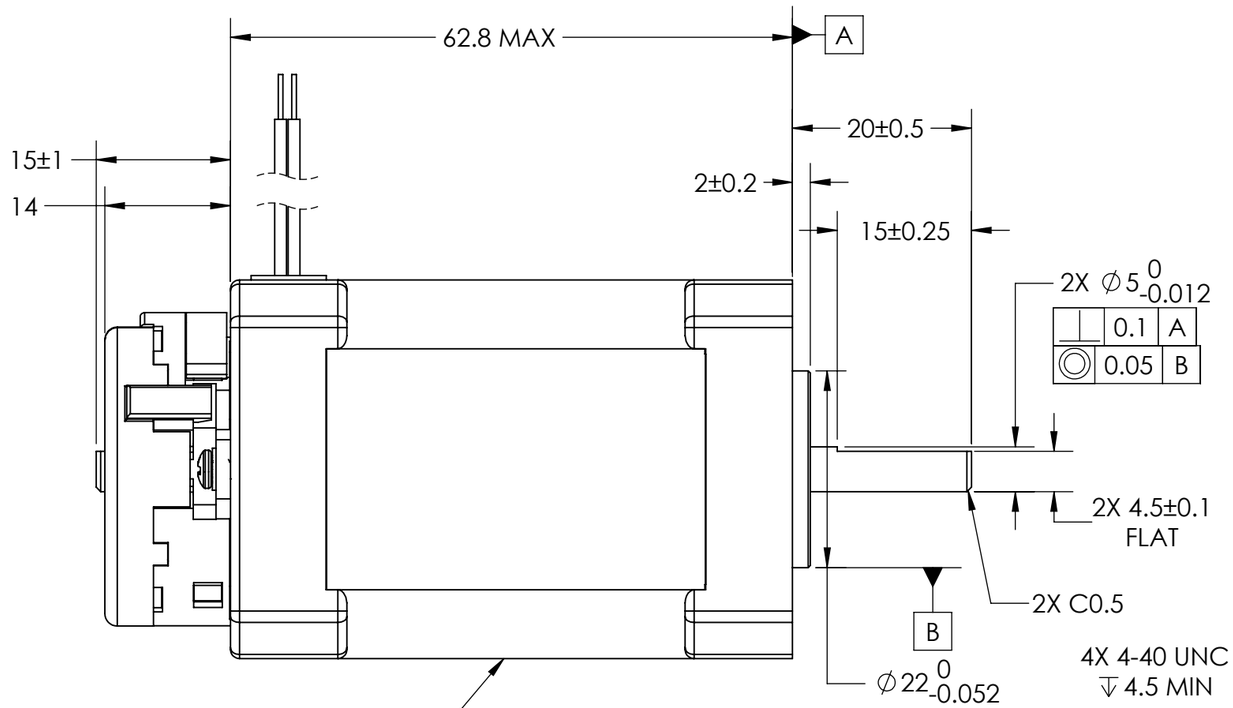
TITLE:

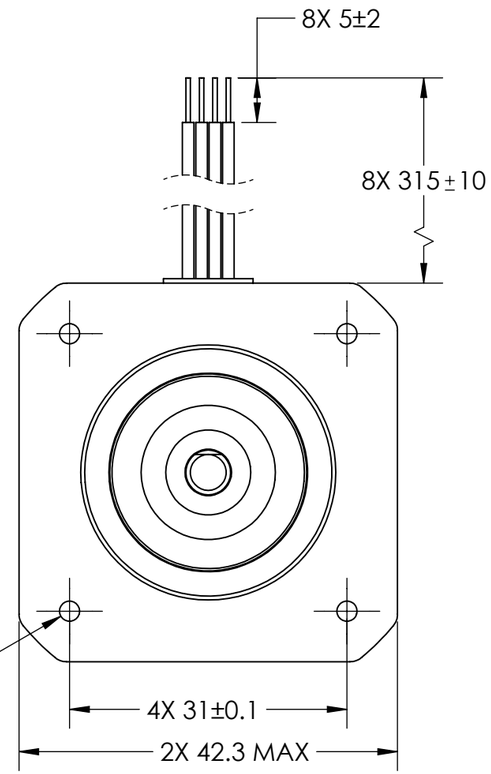
STEPPER MOTOR OUTLINE

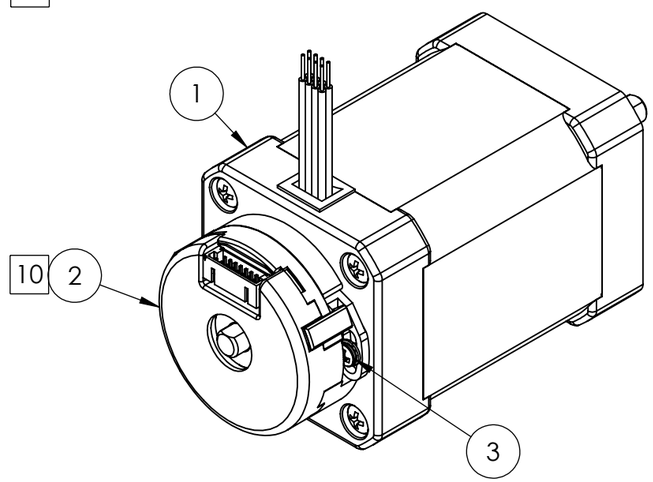
SIZE	DWG. NO.	REV
B	HT17-278D-WAA	A

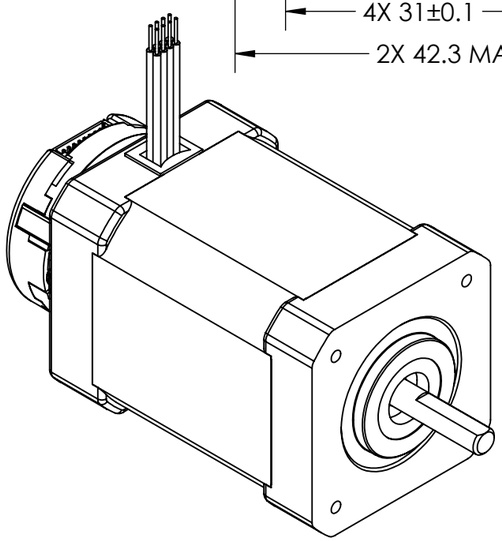
SCALE: 1:1 | WEIGHT: | SHEET 1 OF 2



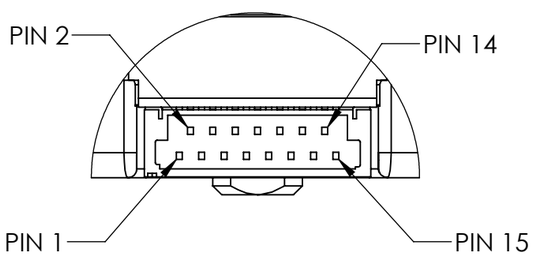








CONNECTOR	
PIN #	SIGNAL
1	CH A
2	CH A-
3	CH B
4	CH B-
5	INDEX
6	INDEX-
7	CH U
8	CH U-
9	CH V
10	CH V-
11	CH W
12	CH W-
13	+Vcc
14	GND
15	N/A



ITEM NO.	PART NUMBER	QTY.
1	HT17-278D	1
2	ENCODER 970-1012	1
3	SCREW 2-56 X .1875 W-TOOTH LOCK WASHER (90403A077) OR EQUIVALENT	2

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TWO PLACE DECIMAL ± 0.13
THIRD ANGLE PROJECTION

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	ALAN. N	6/15/20
CHECKED	YANN. L	6/15/20

COMMENTS:

TITLE:

STEPPER MOTOR OUTLINE

SIZE	DWG. NO.	REV
B	HT17-278D-WAA	A

SCALE: 1:2 | WEIGHT: | SHEET 2 OF 2