

SPECIFICATION	
NUMBER OF PHASES: 2	ROTOR INERTIA: 4.2 g-cm^2 (0.023 oz-in ²) NOM
STEPS PER REVOLUTION: 200	DETENT TORQUE: 4 mNm (0.57 oz-in) MIN
STEP ANGLE: 1.8°	INSULATION CLASS: B
STEP TO STEP ACCURACY: ±0.09°	BEARINGS: ABEC 3, DOUBLE SHIELDED
POSITION ACCURACY: ±0.09°	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: 80 g (2.82 oz) APPROXIMATE

REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
8470	A	INITIAL RELEASE	5/8/2020	J.KORDIK
8523	B	LABEL NOTE REVISED	8/10/2020	J.KORDIK

B

B

CONNECTION	RESISTANCE PER PHASE (ohm ±10%) 7	INDUCTANCE PER PHASE (mH ±20%) 8	RATED CURRENT (Amp) 0.35	HOLDING TORQUE (mNm MIN) 42	HOLDING TORQUE (oz-in MIN) 5.95
BI-POLAR	20.3	7.9	0.35	42	5.95

NOTES, UNLESS OTHERWISE SPECIFIED:

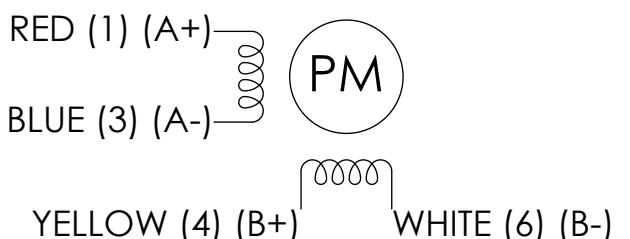
- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
4. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- 5 LEADS: 4, 26 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 3265
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7 AS MEASURED 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 ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED.
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.
14. CONNECTOR: JST S6B-ZR(LF)(SN) HOUSING: JST ZHR-6 TERMINAL: JST SZH-002T-P0.5

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 FLANGE SIDE OF THE MOTORCW
↓
CCW
↑

WIRING DIAGRAM



 Applied Motion Products <small>A MOONS' COMPANY</small>	UNLESS OTHERWISE SPECIFIED:		
	DIMENSIONS ARE IN MILLIMETERS		
	DRAWN	K.KESLER	8/7/20
TOLERANCES: ANGULAR: ± 0.5 ONE PLACE DECIMAL ± 0.25 TWO PLACE DECIMAL ± 0.13 THIRD ANGLE PROJECTION			
CHECKED			
COMMENTS:			
MATERIAL			
FINISH			
DO NOT SCALE DRAWING			
A	TITLE: STEP MOTOR OUTLINE		
	B	SIZE DWG. NO.	
		HT08-231	
A	REV		
	B		
SCALE: 1:1			
WEIGHT: -			
SHEET 1 OF 2			

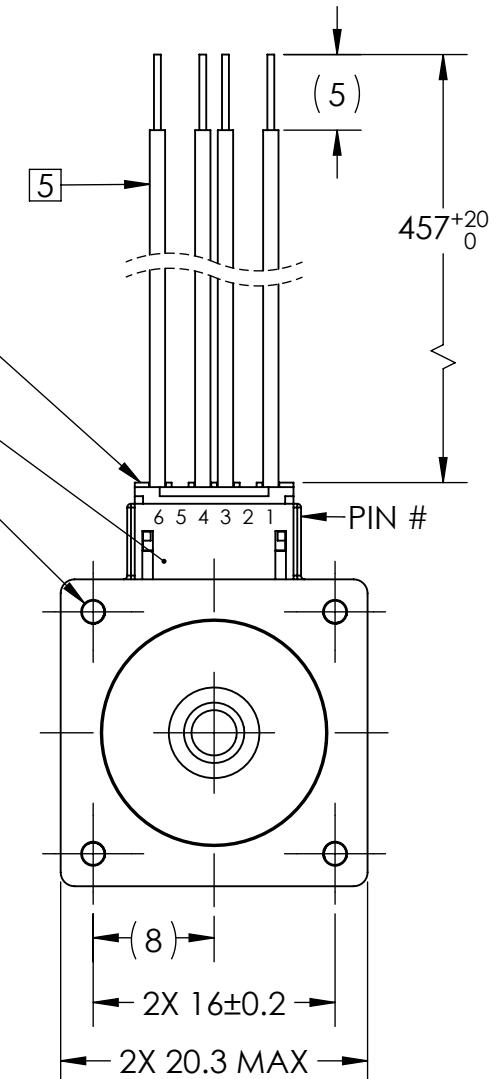
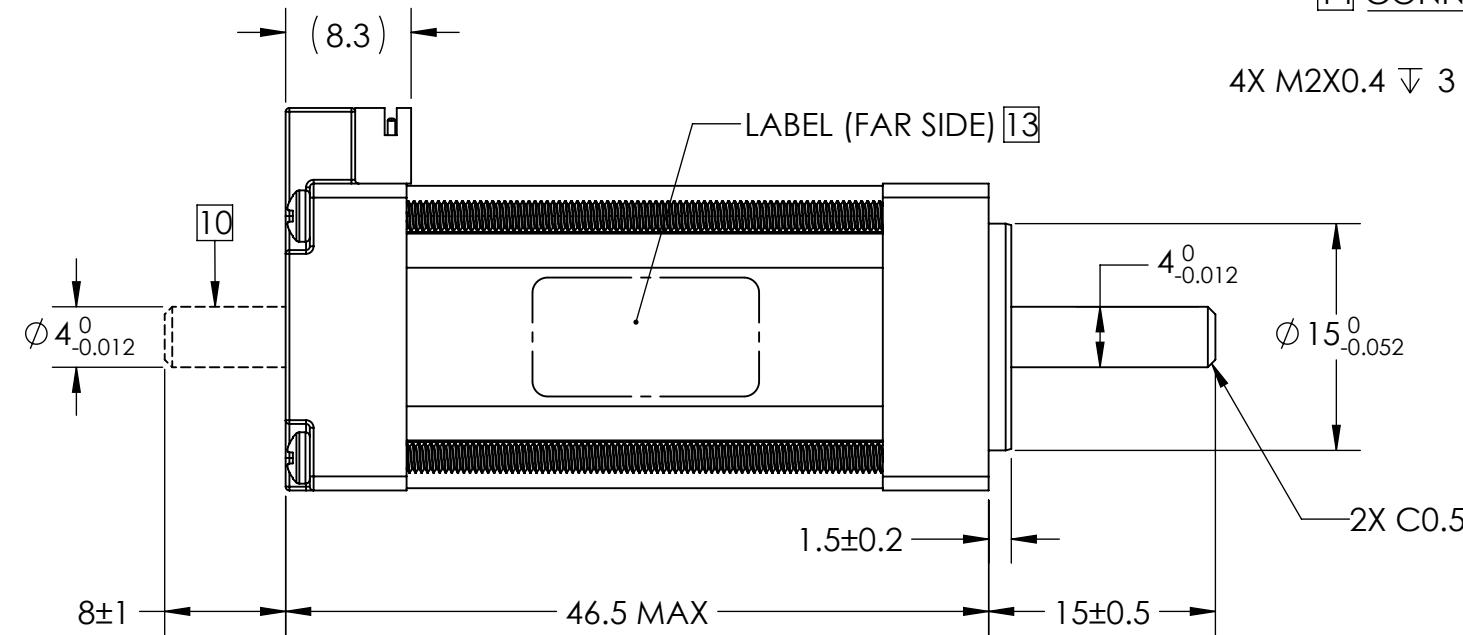
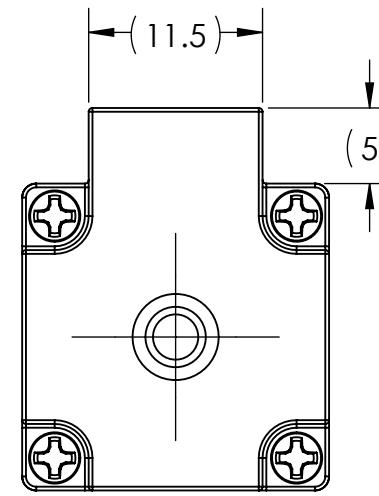
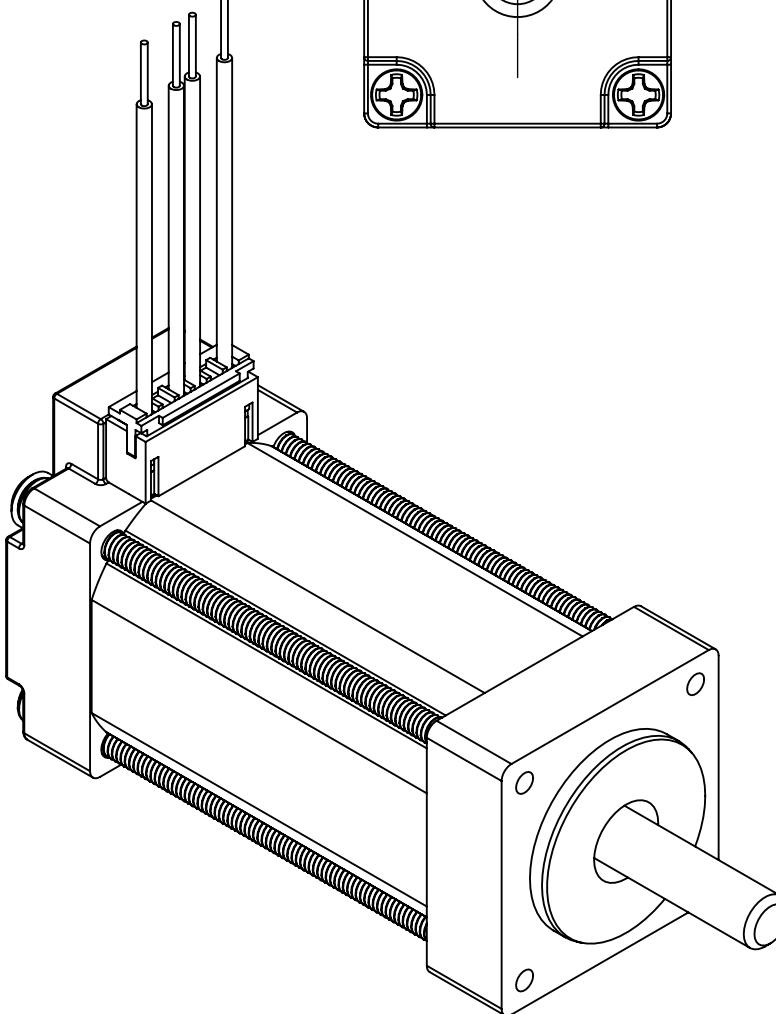
4

3

2

1

B



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.

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MILLIMETERS		K.KESLER	8/7/20
TOLERANCES:			
ANGULAR: ± 0.5			
ONE PLACE DECIMAL ± 0.25			
TWO PLACE DECIMAL ± 0.13			
THIRD ANGLE PROJECTION			
MATERIAL	-		
FINISH	-		
DO NOT SCALE DRAWING			

TITLE:		
STEP MOTOR OUTLINE		
SIZE	DWG. NO.	REV
B	HT08-231	B
SCALE: 2:1	WEIGHT: -	SHEET 2 OF 2

4

3

2

1