

## SPECIFICATIONS:

NUMBER OF PHASES: 2	ROTOR INERTIA: 123 g-cm <sup>2</sup> ( 0.67 oz-in <sup>2</sup> ) NOM
STEPS PER REVOLUTION: 200	INSULATION CLASS: B
STEP ANGLE: 1.8°	TEMP. RISE: 80 °C MAX.
STEP TO STEP ACCURACY: ±0.09°	OPERATING TEMP. RANGE: -20 TO +50 °C
POSITIONAL ACCURACY: ± 5 %	STORAGE TEMP. RANGE: -30 TO +70 °C
AXIAL MOVEMENT: 0.1mm MAX (100N AXIAL FORCE)	RELATIVE HUMIDITY RANGE: 15 TO 85 %
BEARING SIZE: 19*10*5 mm	WEIGHT: 0.6 kg (1.32 lb)
SHAFT MATERIAL: SUS303	

7 8 1 1

SPECIFICATION CONNECTION	RESISTANCE PER PHASE (ohm $\pm 10\%$ )	INDUCTANCE PER PHASE (mH $\pm 20\%$ )	RATED CURRENT (amp)	HOLDING TORQUE (Nm MIN)	HOLDING TORQUE (oz-in Min)
BI-POLAR SERIES	1.49	4.4	2	0.74	104.8

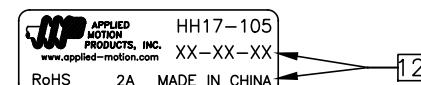
NOTES, UNLESS OTHERWISE SPECIFIED:

- 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, 60 Hz FOR ONE MINUTE.
- 5 CONNECTOR: JSTS6B-PH-K(LF)(SN)
- 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 1 KHz.
- 9 AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- 10 ROTOR & STATOR LAMINATED CONSTRUCTION.
- 11 THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- 12 MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, AMP P/N, 'MADE IN (COUNTRY OF ORIGIN)', AND DATE CODE.
- 13 HIGH TORQUE MOTOR DESIGN.

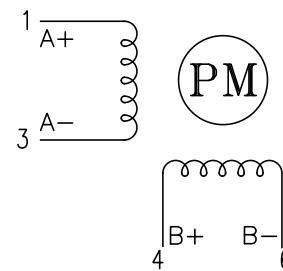
HH17-105

## REVISIONS

### LABEL DETAIL



## PHASE DETAIL



FULL STEP SWITCHING SEQUENCE  
BI-POLAR, FACING MOUNTING END

STEP	A+	A-	B+	B-
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-

CCW

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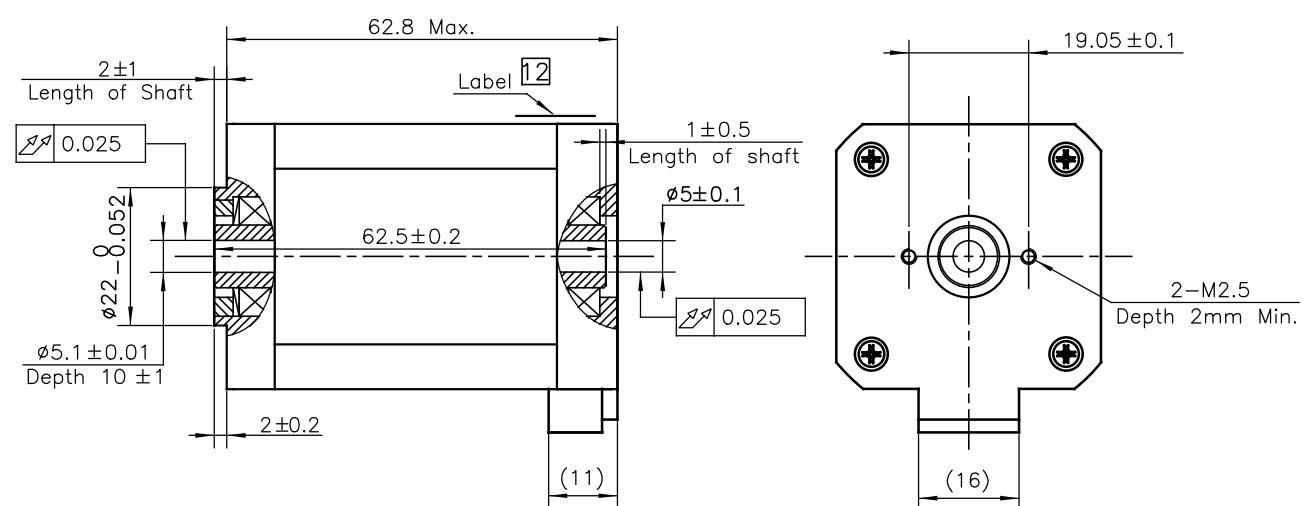
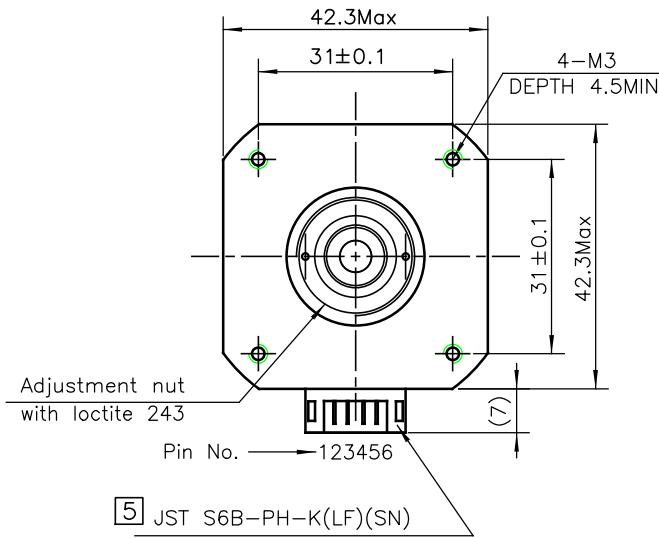
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**CONTRACT NO.**



## STEP MOTOR OUTLINE

19			
/19	B	COMPUTER DATA BASE DRAWING	DWG NO. HH17-105
/19			REV C
	SCALE: NONE		SHEET 1 OF 2



\*ALL DIMENSIONS IN MM

TOLERANCES		THIRD ANGLE PROJECTION		APPROVALS		DATE	
DECIMALS: MM							
X.XX = ±0.13							
X.X = ±0.25							
X = ±0.5							
ANGLES:							
MACH. = ±0.5°							
CHAM. = ±5°							
COMPUTER DATA							
BASE DRAWING							
APPROVED							

## STEP MOTOR OUTLINE

B	DWG NO.	HH17-105	REV C
SCALE: NONE	SHEET 2 OF 2		