

SPECIFICATIONS:

NUMBER OF PHASES: 2	ROTOR INERTIA: 20 g-cm ² (0.11 oz-in ²) NOM
STEPS PER REVOLUTION: 400	DETENT TORQUE: 5 mNm (0.71 oz-in) MIN
STEP ANGLE: 0.9°	BEARINGS: 625ZZ
STEP TO STEP ACCURACY: ±0.045°	INSULATION CLASS: B
POSITIONAL ACCURACY: ±5%	HYSTeresis: N/A%
SHAFT RUNOUT: 0.03 mm T.I.R. MAX	TEMP. RISE: 80 °C MAX.
RADIAL PLAY: 0.02 mm MAX (.5KG RADIAL LOAD)	OPERATING TEMP. RANGE: -20 TO +50 °C
END PLAY: 0.08 mm MAX (.5KG AXIAL LOAD)	STORAGE TEMP. RANGE: -30 TO +70 °C
MAXIMUM RADIAL LOAD: 21N (4.72lb)	RELATIVE HUMIDITY RANGE: 15 TO 85 %
MAXIMUM AXIAL LOAD: 10N (2.25lb)	WEIGHT: 0.12 kg (0.26 lb)

7 8 1 1

SPECIFICATION CONNECTION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE (mH ±20%)	RATED CURRENT (amp)	HOLDING TORQUE (Nm MIN)	HOLDING TORQUE (oz-in Min)
BI-POLAR SERIES	6.6	9.5	0.65	0.09	12.75

NOTES, UNLESS OTHERWISE SPECIFIED:

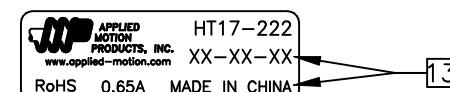
1. MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
2. BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
3. MAXIMUM ERROR IN 360°.
4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
5. LEADS: 4, AWG 26, 7 STRAND MIN., UL AND CSA APPROVED, UL 1061
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
7. AS MEASURED 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. ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED.
ENCODER HOLES INCLUDED WITH REAR SHAFT VERSION ONLY.
11. ROTOR & STATOR LAMINATED CONSTRUCTION.
12. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
13. MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, AMP P/N, 'MADE IN (COUNTRY OF ORIGIN)', AND DATE CODE.
14. HIGH TORQUE MOTOR DESIGN

HT17-222

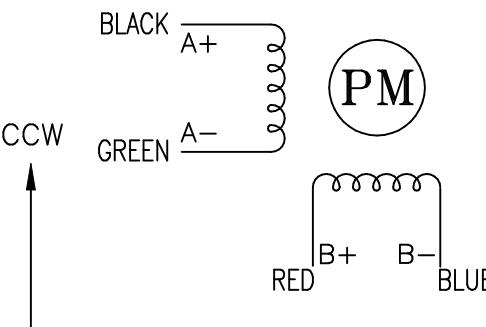
REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6888	A	PRELIMINARY RELEASE	12/17/13	J.KORDIK
6947	B	REVISED/REDRAWN	4/11/14	D.MACLEOD
7048	C	ERROR CORRECTION	8/11/14	D.MACLEOD
7446	D	REVISE NOTE 12	6-6-16	J KORDIK
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LABEL DETAIL



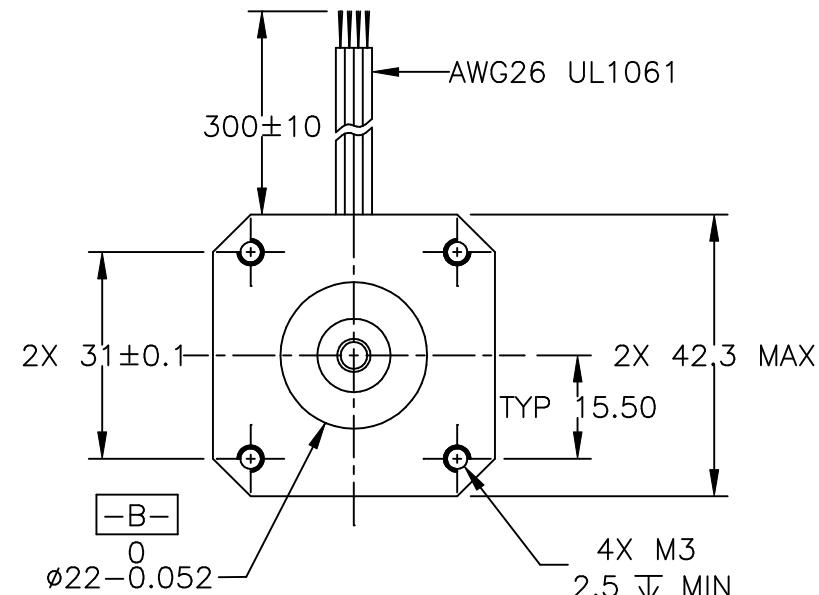
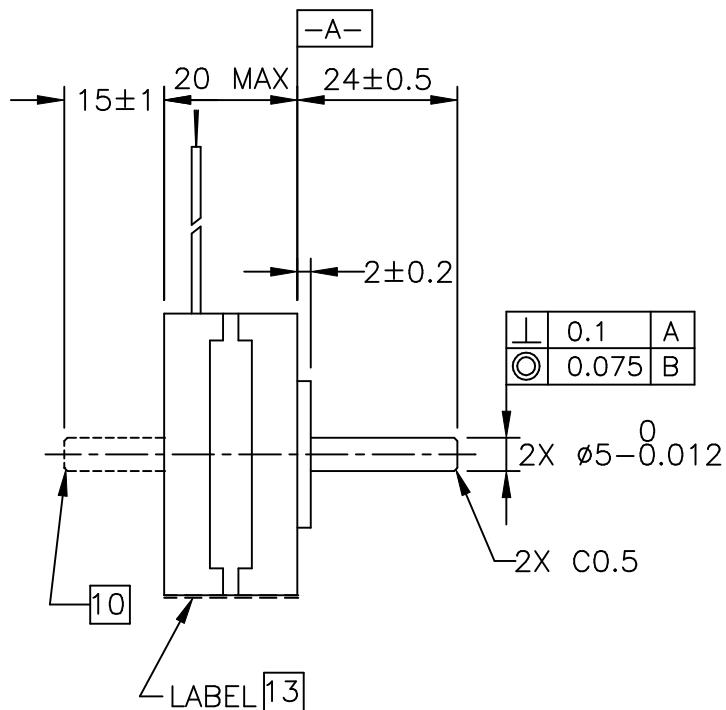
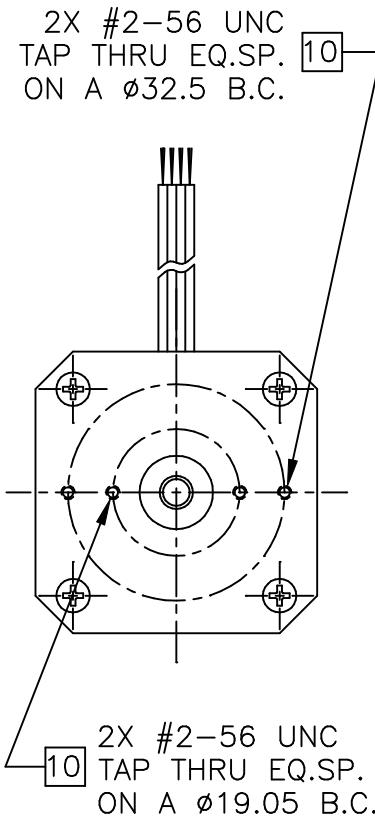
PHASE DETAIL



FULL STEP SWITCHING SEQUENCE
BI-POLAR, FACING MOUNTING END

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

CONTRACT NO.		APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	STEP MOTOR OUTLINE		
DRAWN K.KESLER	8/11/14	B COMPUTER DATA BASE DRAWING		
CHECKED —	—	DWG NO. HT17-222		
APPROVED —	—	REV D	SCALE: NONE	
APPROVED —	—	SHEET 1 OF 2		



TOLERANCES		THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.	
*ALL DIMENSIONS IN MM					
DECIMALS: MM					
X.XX = ±0.13					
X.X = ±0.25					
ANGLES:					
MACH. = ±0.5°					
CHAM. = ±5°					
COMPUTER DATA BASE DRAWING		APPROVALS		DATE	
DRAWN K.KESLER		8/11/14			
CHECKED —		—			
APPROVED —		—			
DWG NO.		HT17-222		REV D	
SCALE: NONE		SHEET 2 OF 2			