

SPECIFICATIONS:					
NUMBER OF PHASES: 2			ROTOR INERTIA: 38 g-cm ² (0.21 oz-in ²) NOM		
STEPS PER REVOLUTION: 400			DETENT TORQUE: 12 mNm (1.7 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: 0.23 kg (0.51 lb)		
[7]		[8]		[1]	
[1]		[8]		[1]	
SPECIFICATION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE (mH ±20%)	RATED CURRENT (amp)	HOLDING TORQUE (Nm MIN)	HOLDING TORQUE (oz-in Min)
CONNECTION					
BI-POLAR SERIES	20	23	0.5	0.22	31.15

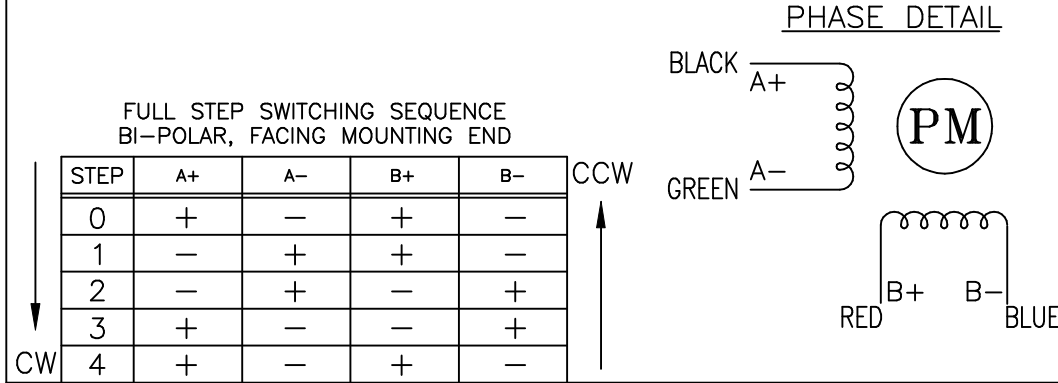
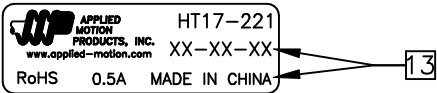
NOTES, UNLESS OTHERWISE SPECIFIED:

- [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 1007
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 TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- [13] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, AMP P/N, 'MADE IN (COUNTRY OF ORIGIN)', AND DATE CODE.
14. HIGH TORQUE MOTOR DESIGN

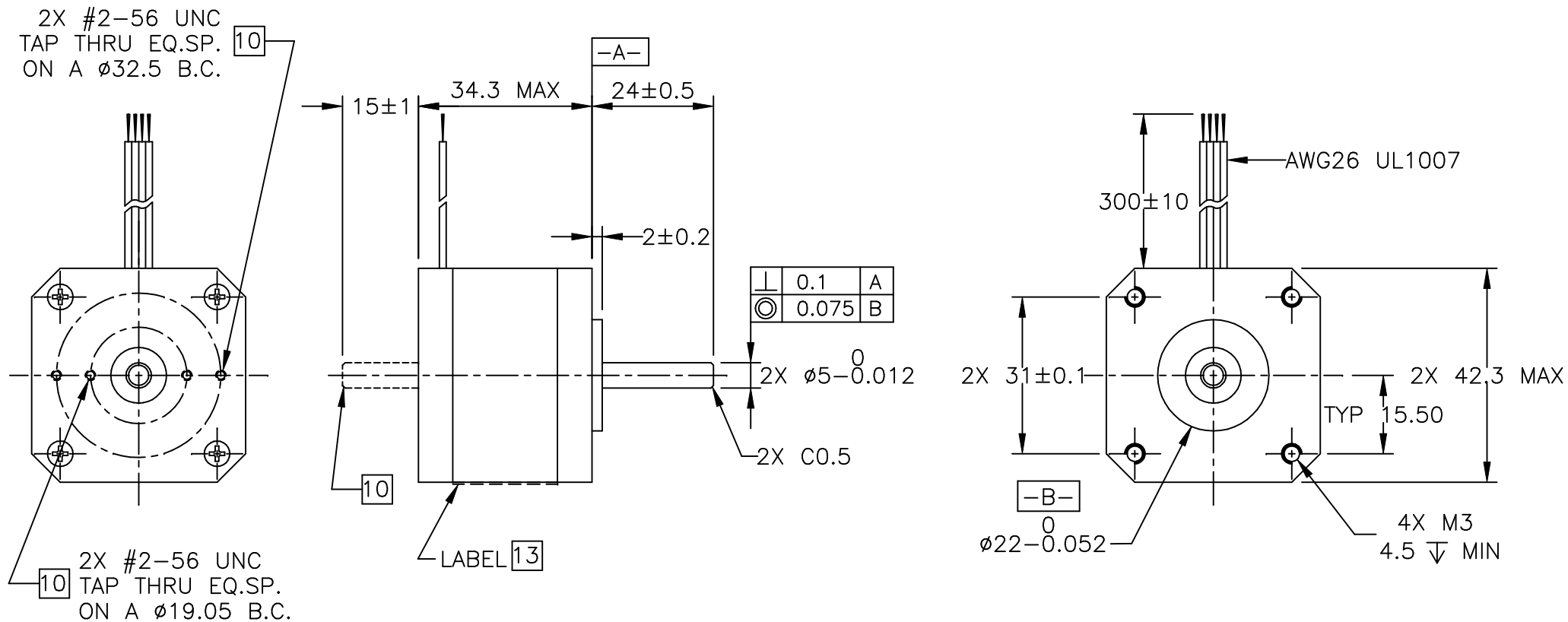
HT17-221

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6947	A	PRELIMINARY RELEASE	4/11/14	D.MACLEOD
7048	B	ERROR CORRECTION	8/11/14	D.MACLEOD
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LABEL DETAIL



CONTRACT NO. —		 APPLIED MOTION PRODUCTS, INC.					
APPROVALS		DATE		STEP MOTOR OUTLINE			
DRAWN K.KESLER		8/11/14					
CHECKED —		—					
APPROVED —		—		B	COMPUTER DATA BASE DRAWING	DWG NO. HT17-221	REV B
APPROVED —		—					
SCALE: NONE				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°							
				APPROVALS	DATE	STEP MOTOR OUTLINE	
		DRAWN K.KESLER	8/11/14				
		CHECKED —	—	B	DWG NO.	HT17-221	REV B
COMPUTER DATA BASE DRAWING		APPROVED —	—				
				SCALE: NONE		SHEET 2 OF 2	