

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]		[8]		[1]	
SPECIFICATION		RESISTANCE PER PHASE (ohm ±10%)		INDUCTANCE PER PHASE (mH ±20%)	
CONNECTION		RATED CURRENT (amp)		HOLDING TORQUE (Nm 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

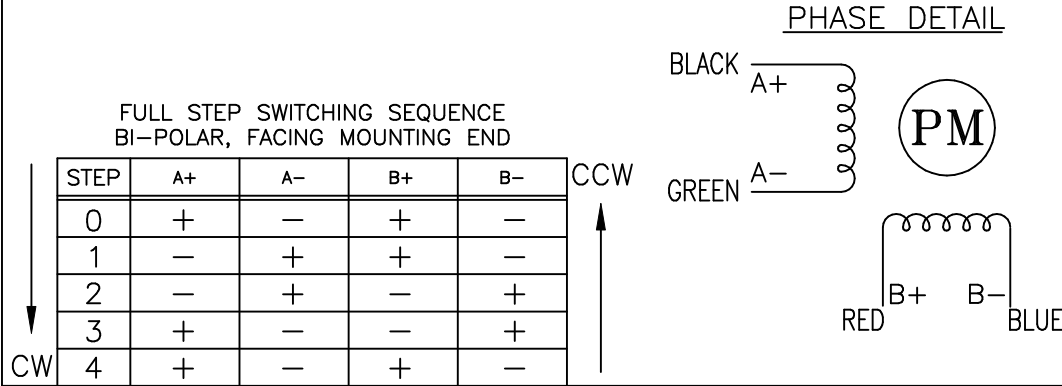
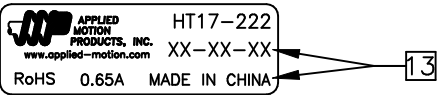
THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- 13


MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, AMP P/N, 'MADE IN (COUNTRY OF ORIGIN)', AND DATE CODE.
- 14

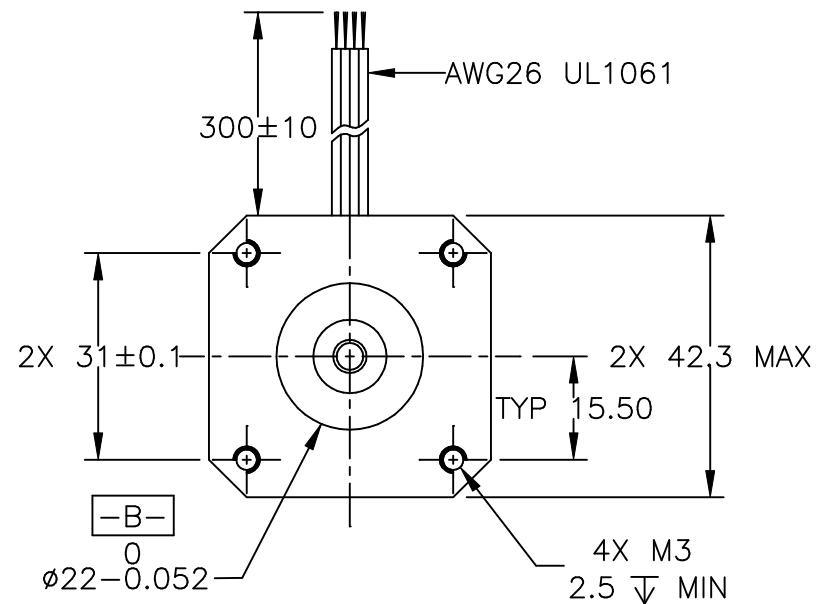
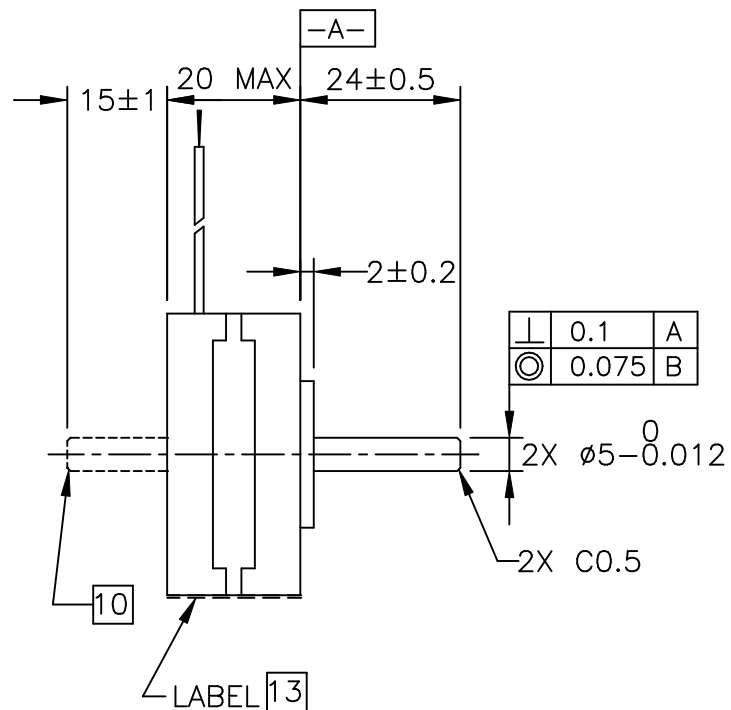
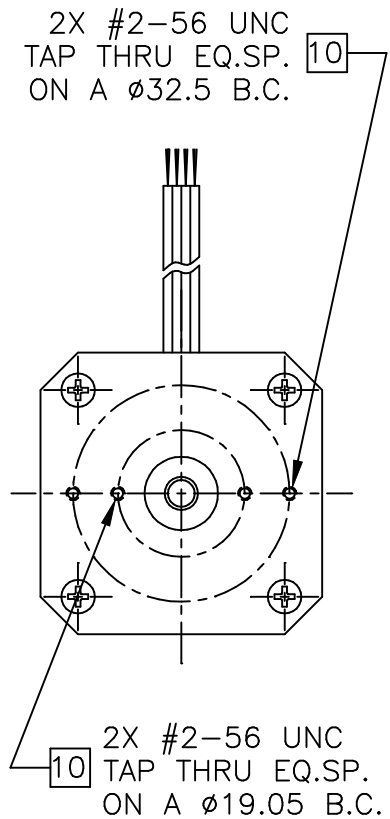
HIGH TORQUE MOTOR DESIGN


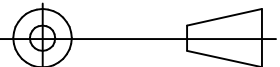
REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6888	A	PRELIMINARY RELEASE	12/17/13	J.KORDIK
6947	B	REVISED/REDRAWN	4/11/14	D.MACLEOD
7048	C	ERROR CORRECTION	8/11/14	D.MACLEOD
7446	D	REVISE NOTE 12	6-6-16	J KORDIK
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LABEL DETAIL



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

Mouser Electronics

Authorized Distributor

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[HT17-222](#) [HT17-222D](#)