

SPECIFICATIONS:

NUMBER OF PHASES: 4	ROTOR INERTIA: 260 g-cm ² (1.42 oz-in ²) NOM
STEPS PER REVOLUTION: 400	DETENT TORQUE: 48 mNm (6.80 oz-in) MIN
STEP ANGLE: 0.9°	BEARINGS: 608ZZ
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: 71N (15.96lb)	RELATIVE HUMIDITY RANGE: 15 TO 85 %
MAXIMUM AXIAL LOAD: 15N (3.37lb)	WEIGHT: 0.6 kg (1.32 lb)

	[7]	[8]	[1]	[1]	
SPECIFICATION	RESISTANCE PER PHASE (ohm ±10%)	INDUCTANCE PER PHASE (mH ±20%)	RATED CURRENT (amp)	HOLDING TORQUE (Nm MIN)	HOLDING TORQUE (oz-in Min)
UNI-POLAR	1.8	4.1	2.0	0.9	127.45
BI-POLAR SERIES	3.6	16.5	1.4	1.1	155.77

NOTES, UNLESS OTHERWISE SPECIFIED:

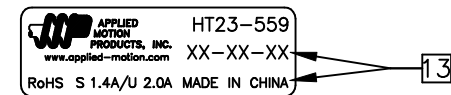
- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
- 4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 6, AWG 22, 7 STRAND MIN., UL AND CSA APPROVED, UL 3266
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [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

HT23-559

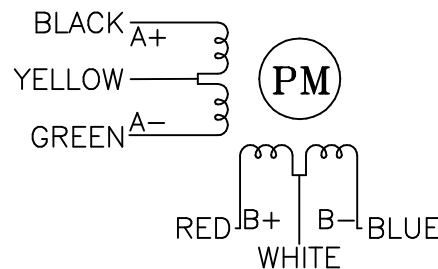
REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6947	A	PRELIMINARY RELEASE	4/11/14	D.MACLEOD
7048	B	ERROR CORRECTION	8/11/14	D.MACLEOD
7069	C	MANU. SPEC. CHANGES	9/30/14	D.MACLEOD
7445	D	REVISE NOTE 12	6/6/16	J KORDIK
7567	E	REVISE NOTE 5	1/5/17	J KORDIK
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

LABEL DETAIL



PHASE DETAIL



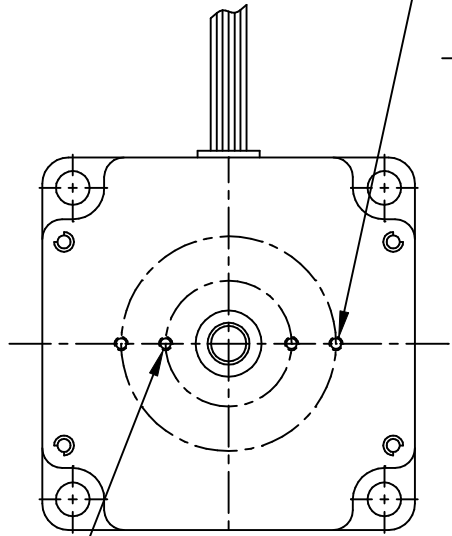
FULL STEP SWITCHING SEQUENCE
BI-POLAR, FACING MOUNTING END

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

CONTRACT NO. -					
APPROVALS		DATE		<h1>STEP MOTOR OUTLINE</h1>	
DRAWN K.KESLER		9/23/14			
CHECKED -		-			
APPROVED -		-			
APPROVED -		-		B	COMPUTER DATA BASE DRAWING
				DWG NO.	HT23-559
				REV	E
		SCALE: NONE		SHEET 1 OF 2	

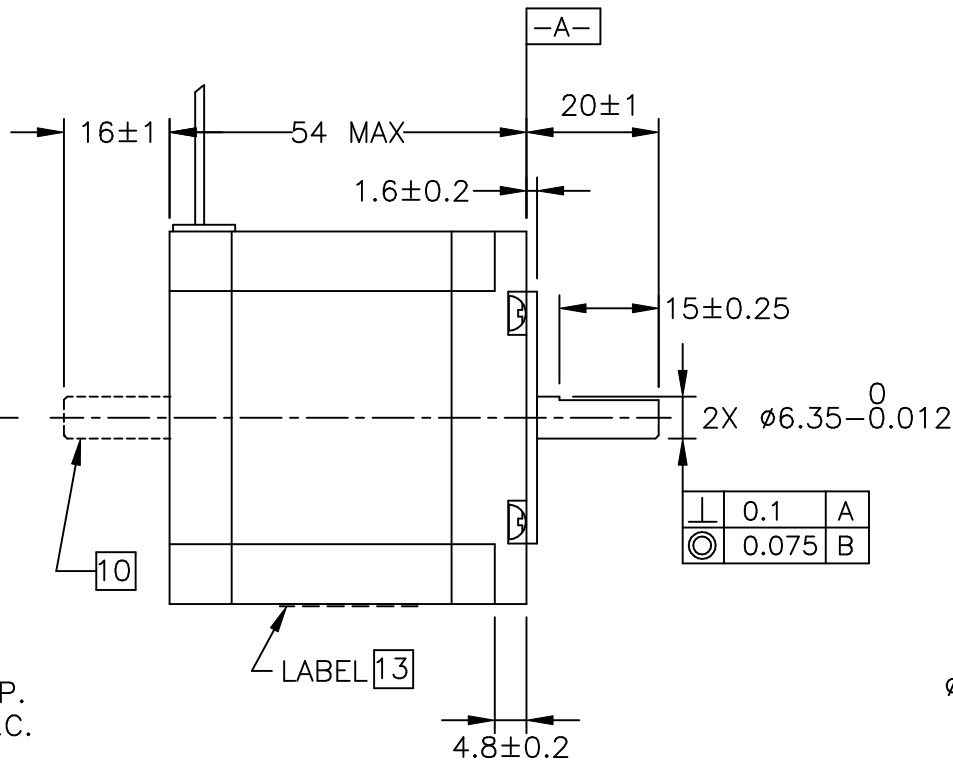
2X #2-56 UNC
TAP 2.5 MIN EQ.SP.
ON $\phi 32.5 \pm 0.1$ B.C.

10



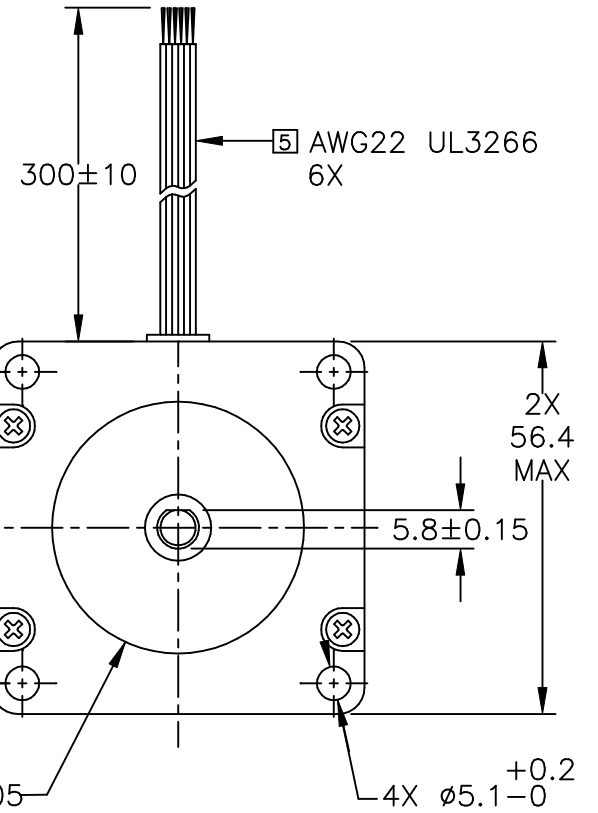
2X #2-56 UNC
TAP 2.5 MIN EQ.SP.
ON $\phi 19.05 \pm 0.1$ B.C.

10



\perp	0.1	A
\odot	0.075	B

LABEL 13



TOLERANCES		THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.	
*ALL DIMENSIONS IN MM				STEP MOTOR OUTLINE	
DECIMALS: MM					
X.XX = ±0.13		APPROVALS	DATE	B	DWG NO. HT23-559
X.X = ±0.25		DRAWN K.KESLER	9/23/14		
ANGLES:		CHECKED			
MACH. = ±0.5°		APPROVED			
CHAM. = ±5°					
COMPUTER DATA BASE DRAWING				SCALE: NONE	SHEET 2 OF 2

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[PL23HSAL4500-05RL](#) [MS17HD4P4150-22RL](#) [PM42S-048-HHC8](#) [PM20L-020-HHC3](#) [PM42L-048-HHC9](#) [HT34-504](#) [82910003](#) [103H8223-6340](#) [103H7126-0740](#) [103H7126-5840](#) [103H7822-5740](#) [103H8222-6340](#) [SY20STH30-0604A](#) [STEPPER MOTOR: UNIPOLAR/BIPOLAR 57Å—56MM](#) [ROB-10551](#) [STEPPER MOTOR: UNIPOLAR/BIPOLAR 57Å—76MM](#) [103H7123-5740](#) [ROB-13656](#) [902-0097-000](#) [902-0119-000](#) [ROB-10848](#)