SPECIFICATIONS:

NUMBER OF PHASES: 2	ROTOR INERTIA: 135 g–cm² (0.74 oz–in²) NOM
STEPS PER REVOLUTION: 400	DETENT TORQUE: 25 mNm (3.54 oz–in) MIN
STEP ANGLE: 0.9°	BEARINGS: 608ZZ
STEP TO STEP ACCURACY: ±0.045° [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY: ±5% [1], [3]	HYSTERESIS: N/A%
SHAFT RUNOUT: 0.03 mm T.I.R. MAX	TEMP. RISE: 80 °C MAX. [9]
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: 0.42 kg (0.93 lb)

SPECIFICATION / CONNECTION	RESISTANCE PER PHASE (ohm ±10%) [7]	INDUCTANCE PER PHASE (mH ±20%) [8]	RATED CURRENT (amp)	HOLDING TORQUE (Nm MIN) [1]	HOLDING TORQUE (oz–in Min) [1]
BI–POLAR SERIES	2.0	6.6	1.5	0.48	67.97

HT23–560

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	9/23/14	D.MACLEOD
7243	D	ERROR CORRECTION	7/1/15	D.MACLEOD
–	–	–	–	–
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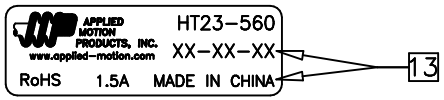
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–

NOTES, UNLESS OTHERWISE SPECIFIED:

[1] MEASURMENTS 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 22 , 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

LABEL DETAIL

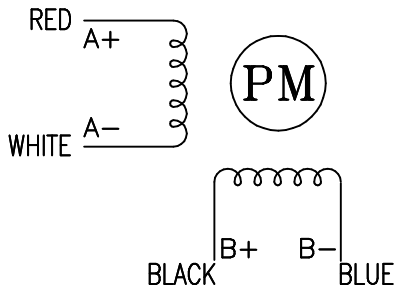


FULL STEP SWITCHING SEQUENCE
BI–POLAR, FACING MOUNTING END

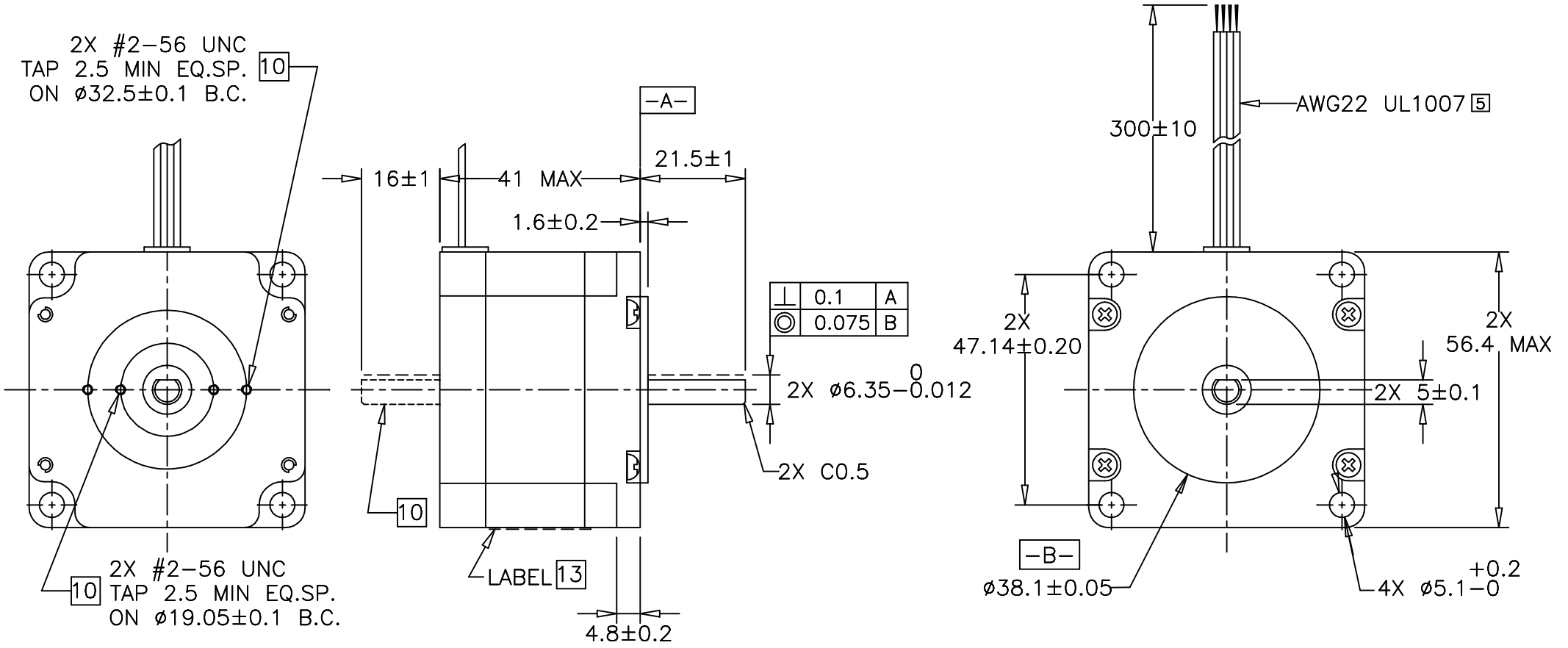
STEP	A+	A–	B+	B–
0	+	–	+	–
1	–	+	+	–
2	–	+	–	+
3	+	–	–	+
4	+	–	+	–

CW ↓ / CCW ↑

PHASE DETAIL



CONTRACT NO. –		APPLIED MOTION PRODUCTS, INC.	
APPROVALS	DATE	STEP MOTOR OUTLINE	
DRAWN K.KESLER	7/1/2015		
CHECKED –	–	B COMPUTER DATA BASE DRAWING	DWG NO. HT23–560 REV D
APPROVED –	–		
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°			STEP MOTOR OUTLINE
COMPUTER DATA BASE DRAWING	APPROVALS	DATE	
	DRAWN K.KESLER	7/1/2015	B / DWG NO. HT23-560 / REV D
	CHECKED –	_	
	APPROVED –	_	SCALE: NONE / SHEET 2 OF 2