

3

SPECIFICATION			
NUMBER OF PHASES: 2		ROTOR INERTIA: 18 g-cm ² (0.1 oz-in ²) NOM	
STEPS PER REVOLUTION: 200		DETENT TORQUE: 8 mNm (1.13 oz-in) MIN	
STEP ANGLE: 1.8°		INSULATION CLASS: B	
STEP TO STEP ACCURACY: ±0.09°	1	,	2
POSITION ACCURACY: ±0.09°	1	,	3
HYSTERESIS: N/A%		BEARINGS: ABEC 3, DOUBLE SHIELDED	
SHAFT RUNOUT: 0.03 mm T.I.R. MAX		TEMP. RISE: 80°C MAX.	9
RADIAL PLAY: 0.02 mm MAX (0.5 kg RADIAL LOAD)		OPERATING TEMP. RANGE: -20 TO +50°C	
END PLAY: 0.08 mm MAX (0.5 kg AXIAL LOAD)		STORAGE TEMP. RANGE: -30 TO +70°C	
		RELATIVE HUMIDITY RANGE: 15 TO 85%	
		WEIGHT: 0.2kg (0.44lb) APPROXIMATE	

CONNECTION	RESISTANCE PER PHASE (ohm $\pm 10\%$) 7	INDUCTANCE PER PHASE (mH $\pm 20\%$) 8	RATED CURRENT (Amp)	HOLDING TORQUE (mNm MIN) 1	HOLDING TORQUE (oz-in MIN) 1
BI-POLAR	2	2.4	1.0	100	14.16

NOTES, UNLESS OTHER WISE 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, 60Hz FOR ONE MINUTE.
- 5 LEADS: 4, 26 AWG, 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 1KHz.
- 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.
11. ROTOR AND STATOR LAMINATED CONSTRUCTION.
12. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU RoHS DIRECTIVE.
- 13 MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, "MADE IN (COUNTRY)", AND DATE CODE.
14. HI TORQUE MOTOR DESIGN.

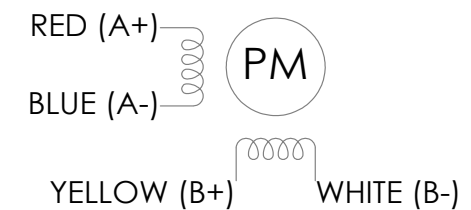
2		1		
REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
7000	A	INITIAL RELEASE	5/29/14	J.KORDIK
8497	B	NEW FORMAT, 3D MODEL, 4X MOUNTING SCREWS FROM M2.6 TO M2.5	6/25/2020	LEO. L

DRIVE SEQUENCE MODEL BI-POLAR FULL STEP

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

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION
WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

WIRING DIAGRAM



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	DIMENSIONS ARE IN MILLIMETERS	DRAWN	ALAN. N	6/25/20			
	TOLERANCES:	CHECKED	KEVIN. K	6/25/20			
	ANGULAR: ± 0.5	COMMENTS:					
	ONE PLACE DECIMAL ± 0.25				SIZE	DWG. NO.	REV
	TWO PLACE DECIMAL ± 0.13				B	HT11-021	B
	THRID ANGLE PROJECTION				SCALE: 1:1	WEIGHT:	SHEET 1 OF 2
MATERIAL							
FINISH							
DO NOT SCALE DRAWING							



Cobots



Cámaras



PLCs



HMI's



Sensores



Registradores



Software



Gateways



Oscilloscopios



Celda de carga



Adquisición (DAT IoT)



PCs Industriales

4

3

2

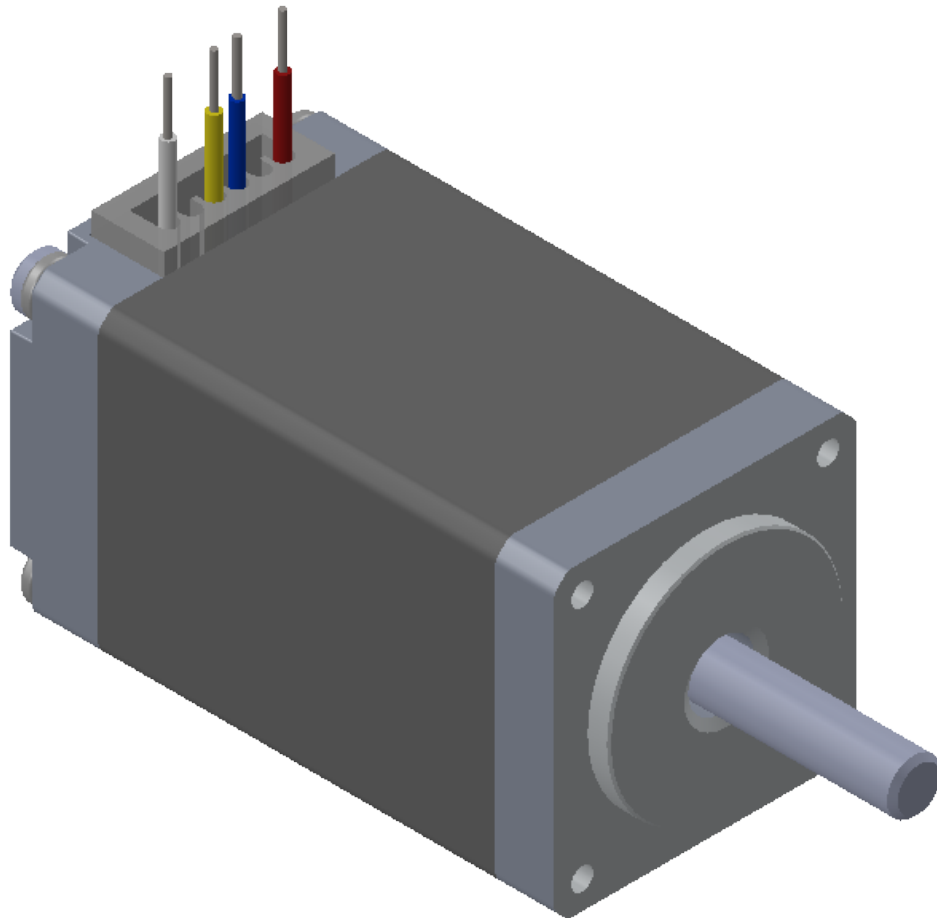
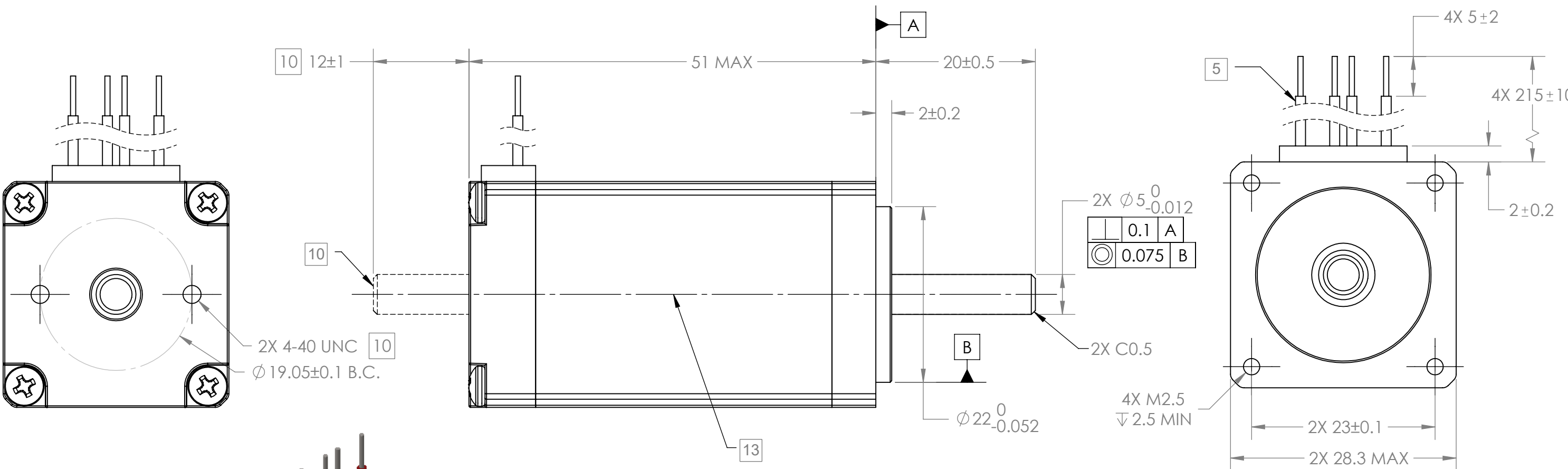
1

B

B

A

A



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	DIMENSIONS ARE IN MILLIMETERS		DRAWN		ALAN. N	6/25/20	STEPPER MOTOR OUTLINE		
	TOLERANCES:		CHECKED		KEVIN. K	6/25/20			
	ANGULAR: ± 0.5 ONE PLACE DECIMAL ± 0.25 TWO PLACE DECIMAL ± 0.13 THIRD ANGLE PROJECTION		COMMENTS:						
	MATERIAL						SIZE	DWG. NO.	REV
FINISH						B	HT11-021	B	
DO NOT SCALE DRAWING						SCALE: 2:1		WEIGHT:	SHEET 2 OF 2

4

3

2

1