

MOTOR SPECIFICATIONS:			
NUMBER OF PHASES:	2	ROTOR INERTIA (g-cm ² /oz-in ²):	20/0.109 NOM
STEPS PER REVOLUTION:	200	INSULATION CLASS:	B (130°)
STEP ANGLE (°):	1.8	BEARINGS:	ABEC 3, DOUBLE SHIELDED

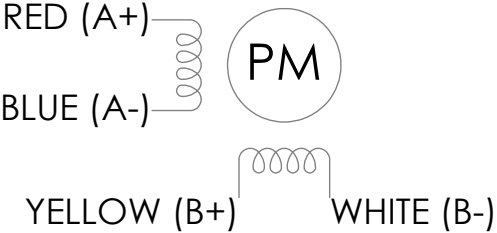
CONNECTION	RESISTANCE PER PHASE 5	INDUCTANCE PER PHASE 6	RATED CURRENT	HOLDING TORQUE 1	
	ohm $\pm 10\%$	mH $\pm 20\%$	AMP	mNm MIN	oz-in MIN
BI-POLAR	8.3	7.5	0.35	56	7.93

GEARMOTOR SPECIFICATIONS:				
TEMP. RISE (°C):	7	80 MAX	TOTAL WEIGHT (±10g/±0.35oz):	355/12.5
OPERATING AMB. TEMP. RANGE (°C):	-20 to +50		RELATIVE HUMIDITY RANGE (%):	85 NON-CONDENSING
STORAGE TEMP. RANGE (°C):	-20 to +70			

GEARHEAD SPECIFICATIONS:			
RATIO:	5.7:1	EFFICIENCY (%):	90
MAX TORQUE CONTINUOUS (Nm/oz-in):	2/283	BACKLASH (°):	≤0.8
MAX TORQUE (Nm/oz-in):	3/424.8	MAX RADIAL LOAD (N/lbf):	≤200/44.96
MAX INPUT SPEED (RPM):	6000	MAX AXIAL LOAD (N/lbf):	≤200/44.96

REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
7935	A	INITIAL RELEASE	7/2/18	J.KORDIK
8750	B	REDRAWN IN SOLIDWORKS	2/15/22	L. LIU

WIRING DIAGRAM



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

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION
WHEN SEEN FROM THE MOUNTING FACE END OF THE MOTOR

NOTES, UNLESS OTHER WISE SPECIFIED:

1. MEASUREMENTS AT RATED CURRENT IN EACH PHASE.
2. HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
3. LEADS: 4, 26 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1430.
4. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
5. AS MEASURED ACROSS EACH PHASE.
6. AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1KHz.
7. AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
8. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH CURRENT EU RoHS DIRECTIVE.
9. MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "RoHS" COMPLIANCE LOGO, AMP P/N, 'MADE IN (COUNTRY)', AND DATE CODE.
10. ADD "D" TO PART NUMBER IF DOUBLE SHAFT IS REQUIRED.
DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTION.



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REPRODUCTION IN PART OR AS A WHOLE
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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
ANGULAR: ± 0.5
ONE PLACE DECIMAL ± 0.25
TWO PLACE DECIMAL ± 0.13
THIRD ANGLE PROJECTION

	NAME	DATE
DRAWN	Y. LAPNET	1/28/22
CHECKED	R. BUI	1/31/22

COMMENTS:

TITLE:
STEPPER MOTOR W/
GEARHEAD

SIZE B	DWG. NO. 5014-020-G005	REV B
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SCALE: 3:2 WEIGHT: SHEET 1 OF 2

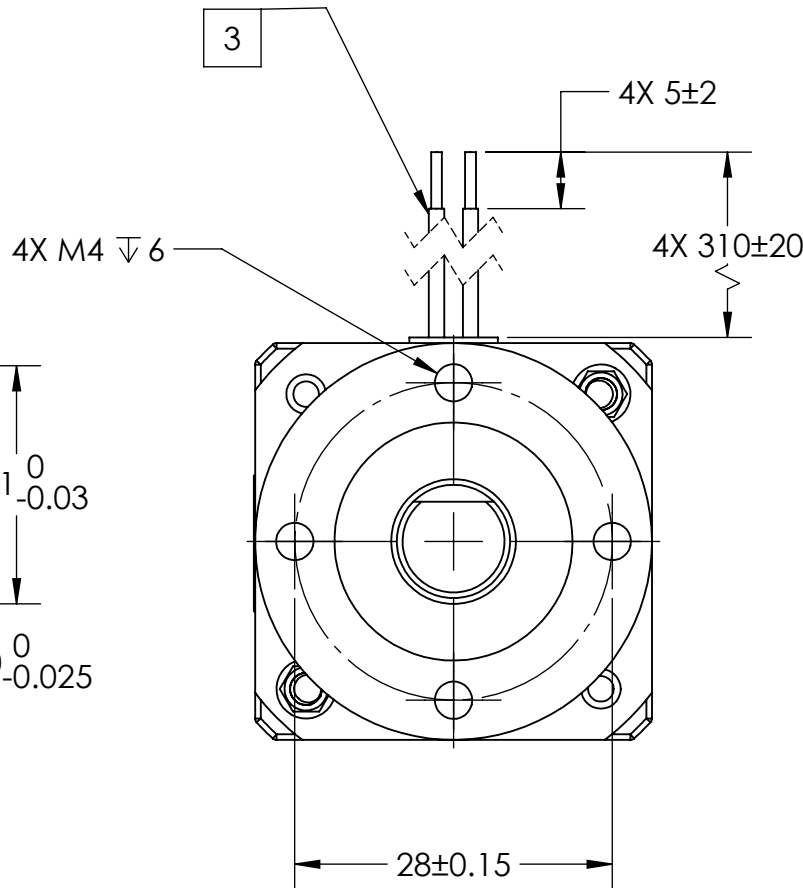
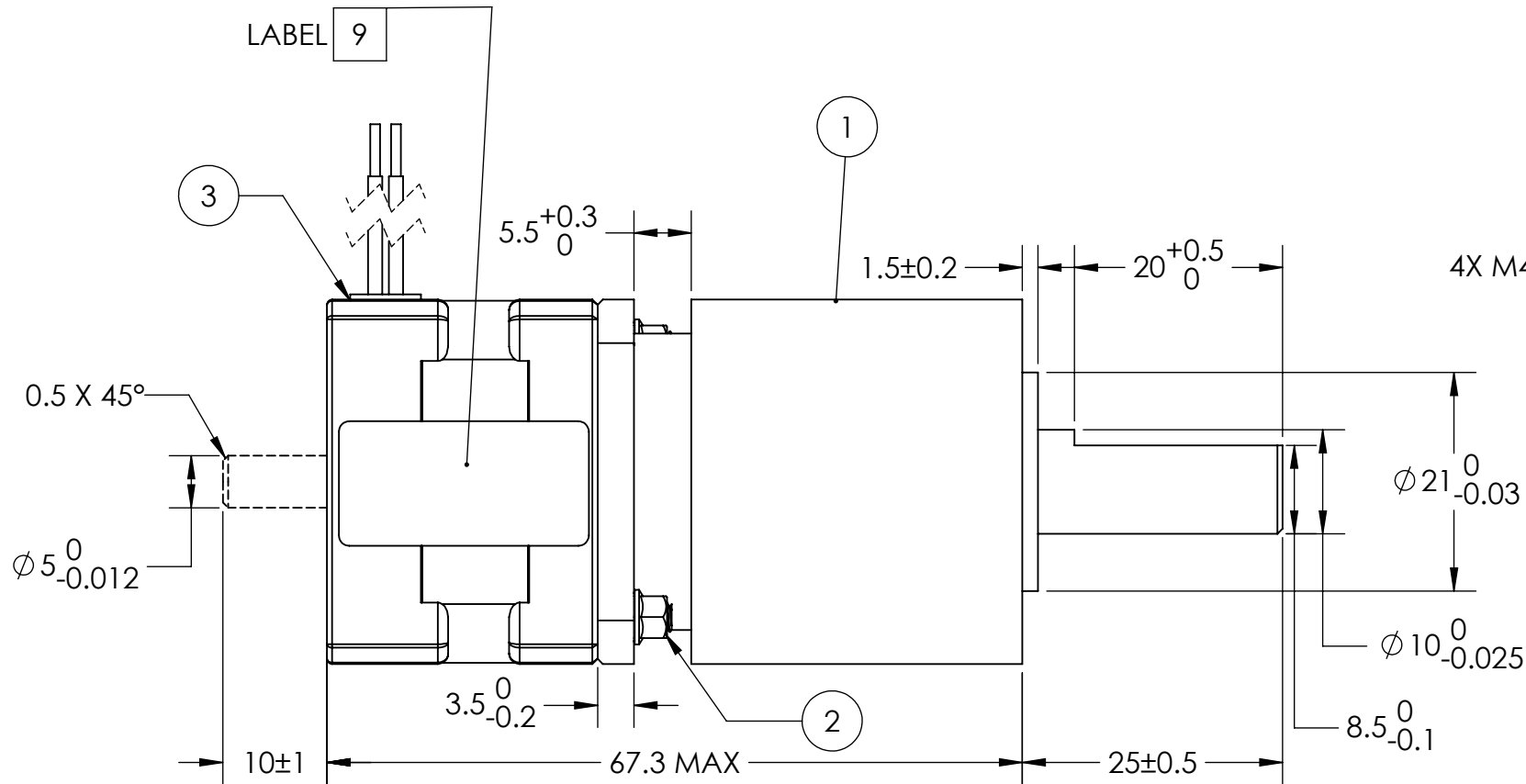
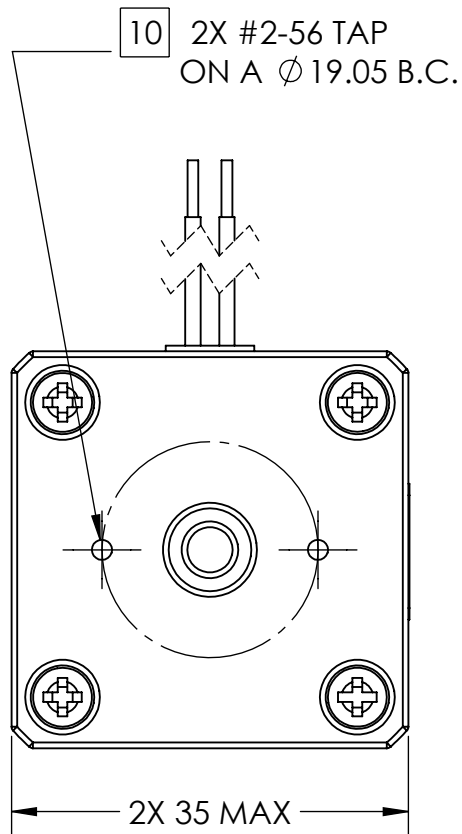
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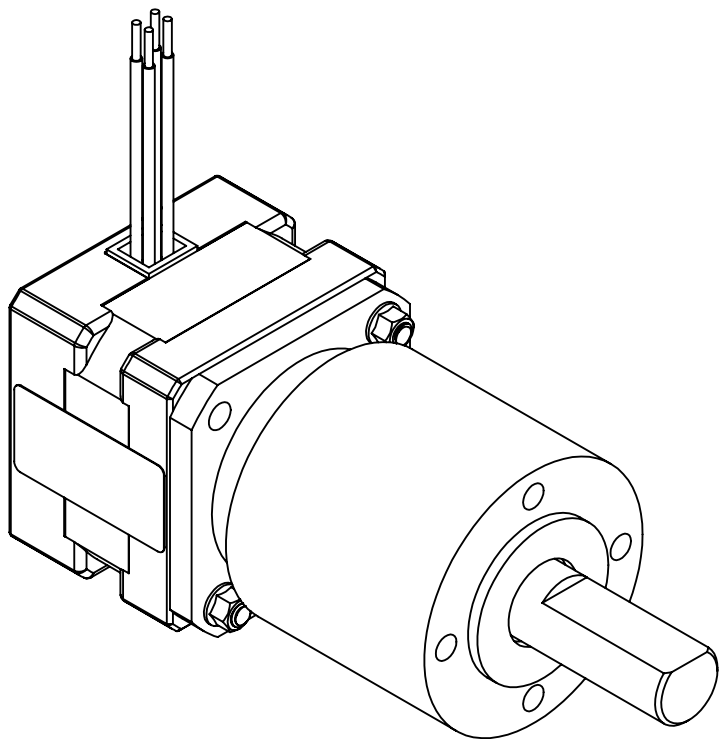
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B



B

A




ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	35PH005.70-M1	PH GEARHEAD	1
2	11171924 Z/P OR EQUIVALENT	4-40 NYLON LOCKNUT	2
3	5014-020 10	STEPPER MOTOR	1

A

GEARHEAD MATERIALS:

GEARTRAIN:	Y15 (1213) STEEL
HOUSING:	304 STAINLESS STEEL
INPUT/OUTPUT FLANGE:	LY12 ALUMINUM
OUTPUT SHAFT:	40Cr STEEL
PINION:	Y15 (1213) STEEL

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			DRAWN	Y. LAPNET	1/28/22					
			CHECKED	R. BUI	1/31/22					
			COMMENTS:							
MATERIAL							SIZE	DWG. NO.		REV
FINISH							B	5014-020-G005		B
DO NOT SCALE DRAWING							SCALE: 3:2		WEIGHT:	SHEET 2 OF 2

4

3

2

1