

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

2. LINEAR SPECIFICATIONS:

LINEAR STROKE: 31.5 +/- 0 mm
 FORCE CONSTANT: 7 N/A
 PEAK FORCE: 11.0 N @ 1.5A
 COIL DC RESISTANCE: 15 OHMS ± 10%
 COIL INDUCTANCE: 17.6 mH ± 10%
 ENCODER RESOLUTION: 0.5, 1.0, 5.0um
 ENCODER ACCURACY: ± 2 Encoder counts

3. THETA SPECIFICATION:

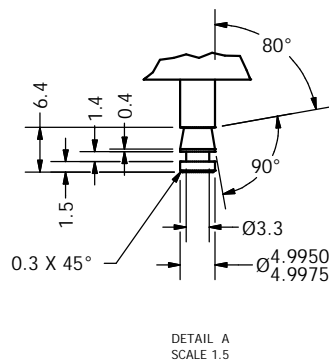
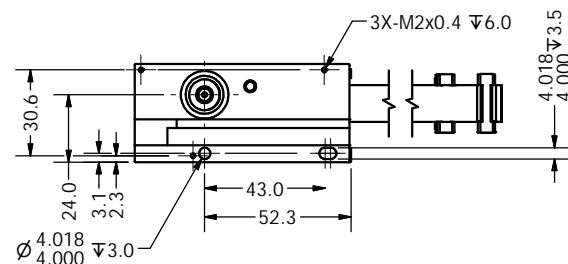
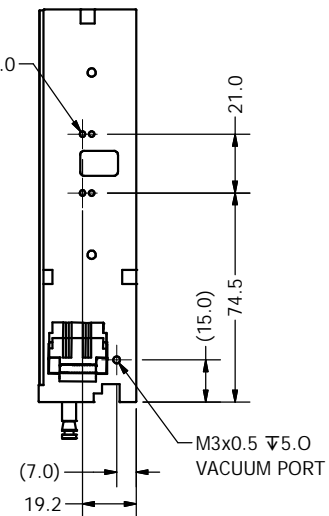
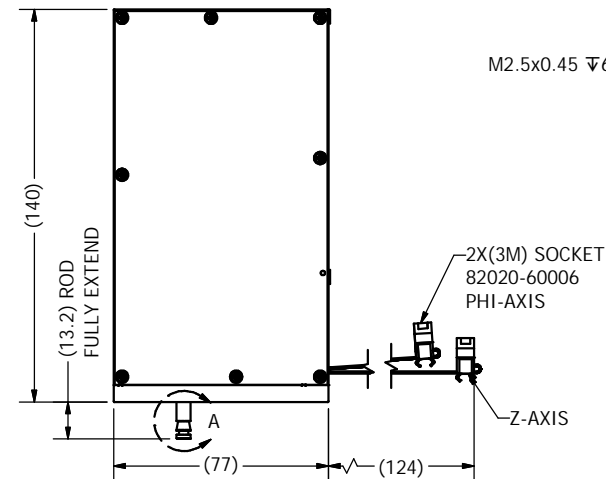
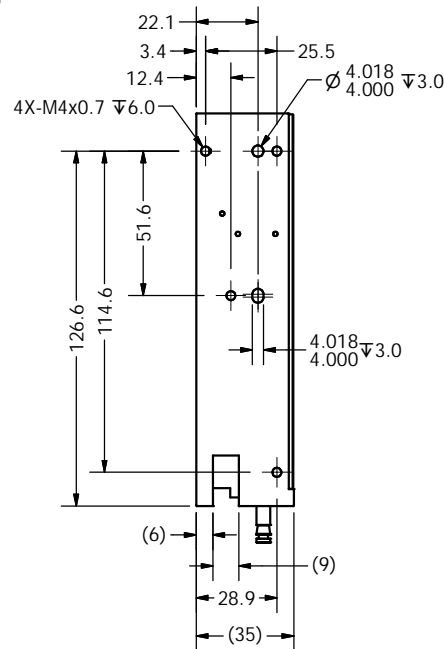
ROTARY MOTOR: 24Vdc BRUSHLESS
 PEAK TORQUE: 60 mNm @ 3 A
 TERMINAL RESISTANCE: 4.7 ± 10% Ohms/PHASE
 TORQUE CONSTANT: 13.5 mNm / A
 SUPPLY VOLTAGE: 24 VDC ± 10%
 ENCODER SUPPLY VOLTAGE: 5 VDC
 ENCODER RESOLUTION: 0.0088° (40960 counts / 360°)

4. MOVING MASS: 190 gr

5. TOTAL MASS: 840 gr

6. OPERATING TEMPERATURE: 5°C TO +40°C

REVISION HISTORY				
REV	DATE	ECN	DESCRIPTION	APPROVED
A	1/9/2009			ORAMAS



Z-CABLE		PHI-CABLE	
1	COIL Z-	1	PHI A
2	COIL Z+	2	PHI A
3	COIL Z-	3	PHI B
4	COIL Z+	4	PHI B
5	COIL Z-	5	PHI C
6	COIL Z+	6	PHI C
7	0 V	7	0 V
8	0 V	8	NC
9	0 V	9	NC
10	+24 V	10	NC
11	+24 V	11	NC
12	NC	12	0 V
13	NC	13	NC
14	EARTH	14	EARTH
15	A-	15	A-
16	A+	16	A+
17	B-	17	B-
18	B+	18	B+
19	Z-	19	I-
20	Z+	20	I+

TOLERANCES ARE: X ± 0.50 X.X ± 0.1 X.XX ± 0.05 X.XXX ± ANGULARITY ± 0.1° CONCENTRIC ± 0.01 ROUNDNESS ± 0.05 EDGE BREAK 0.02 MAX CHAMFER 0.03 MAX		MATERIAL: 3.2/		<h1>SMAC</h1>		REF. NUMBER LARA1-31.5	
HEAT TREATMENT: toanvu		DESIGNED BY: toanvu	DATE: 12/27/2007	CHECKED BY:	DATE:	CONTRACT:	
MACHINE FINISH: EXCEPT NOTED PROTECTIVE FINISH: BLACK ANODIZE		DRAWN BY: toanvu	DATE: 1/9/2009	APPROVED BY:	DATE:	SHEET NUMBER: 1 OF 1	
FILE NAME: LAR31B-031-5_A.idw		PART NAME: LAR31B-031-5		SCALE: NONE	DWG SIZE: B	PART NUMBER: LAR31B-031-5	REVISION: A
SPEC. NUMBER:		DO NOT SCALE DWG					