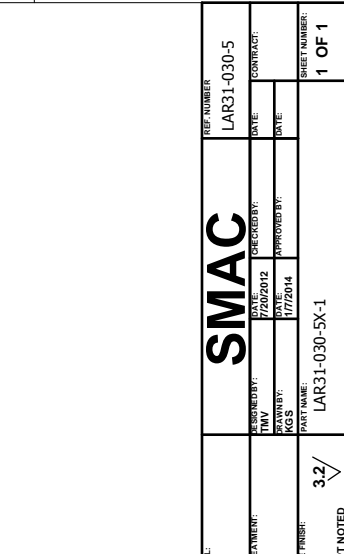
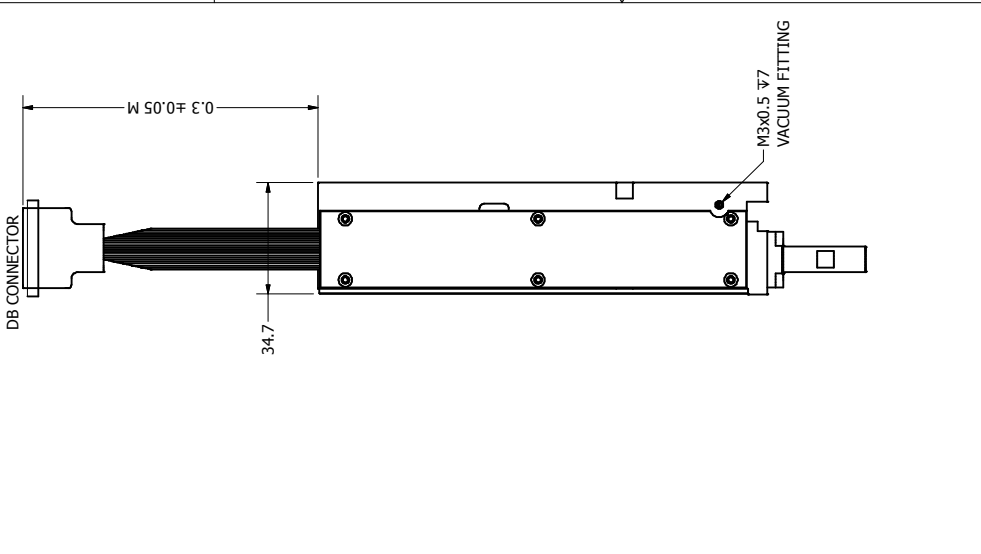


NOTES: (UNLESS OTHERWISE SPECIFIED)
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
 2. LINEAR SPECIFICATIONS:
 LINEAR STROKE: 30 ± 0.1 mm
 FORCE CONSTANT: 7 N/A
 PEAK FORCE: 11.0 N @ 1.5A
 COIL DC RESISTANCE: 15 OHMS \pm 10%
 COIL INDUCTANCE: 17.6 mH \pm 10%
 ENCODER RESOLUTION: 5.0, 1.0, 0.1 μ m
 ENCODER ACCURACY: \pm 2 Encoder counts
 3. THETA SPECIFICATION:
 ROTARY MOTOR: 24Vdc BRUSHLESS
 PEAK TORQUE: 60 mNm @ 3 A
 TERMINAL RESISTANCE: 4.7 \pm 10% Ohms/PHASE
 TORQUE CONSTANT: 13.5 mNm / A
 SUPPLY VOLTAGE: 24 VDC \pm 10%
 ENCODER SUPPLY VOLTAGE: 5 VDC
 ENCODER RESOLUTION: 0.00887 (40960 counts / 360°)
 4. MOVING MASS: 190 gr
 5. TOTAL MASS: 840 gr
 6. OPERATING TEMPERATURE: 5°C TO +40°C



DB28P PINOUT	
1	(L) ENCODER A+
2	(L) ENCODER B+
3	(L) INDEX Z+
4	NC
5	(L) COIL+
6	NC
7	(R) ENCODER B+
8	(R) ENCODER A+
9	(R) INDEX+
10	(L) ENCODER A-
11	(L) ENCODER B-
12	(L) INDEX Z-
13	NC
14	NC
15	NC
16	(R) ENCODER B-
17	(R) ENCODER A-
18	(R) INDEX-
19	+5 VDC
20	5V RTN
21	(R) MOTOR U
22	(L) COIL-
23	(L) COIL-
24	(L) COIL-
25	(R) MOTOR V
26	(R) MOTOR W

SMAC		REF. NUMBER
MATERIAL:	LAR31-030-5	
PREPARED BY:		DATE:
DESIGNED BY:		DATE:
DRAWN BY:		DATE:
SCALE:	3.2	
PART NAME:	LAR31-030-5X-1	
EXCEPT NOTED BLACK ANODIZE		
FILE NAME:	LAR31-030-5X-1.5.HW	

REVISION HISTORY				
REV	DATE	ECN	DESCRIPTION	APPROVED
3	12/12/2012		RELEASE	TMV
4	1/7/14		ADD MALE PART NUMBER CHANGE	KGS
5	1/19/16	5688		SB

SCALE	C	REV	DATE	DESCRIPTION	APPROVED
DO NOT SCALE DIMS		5			