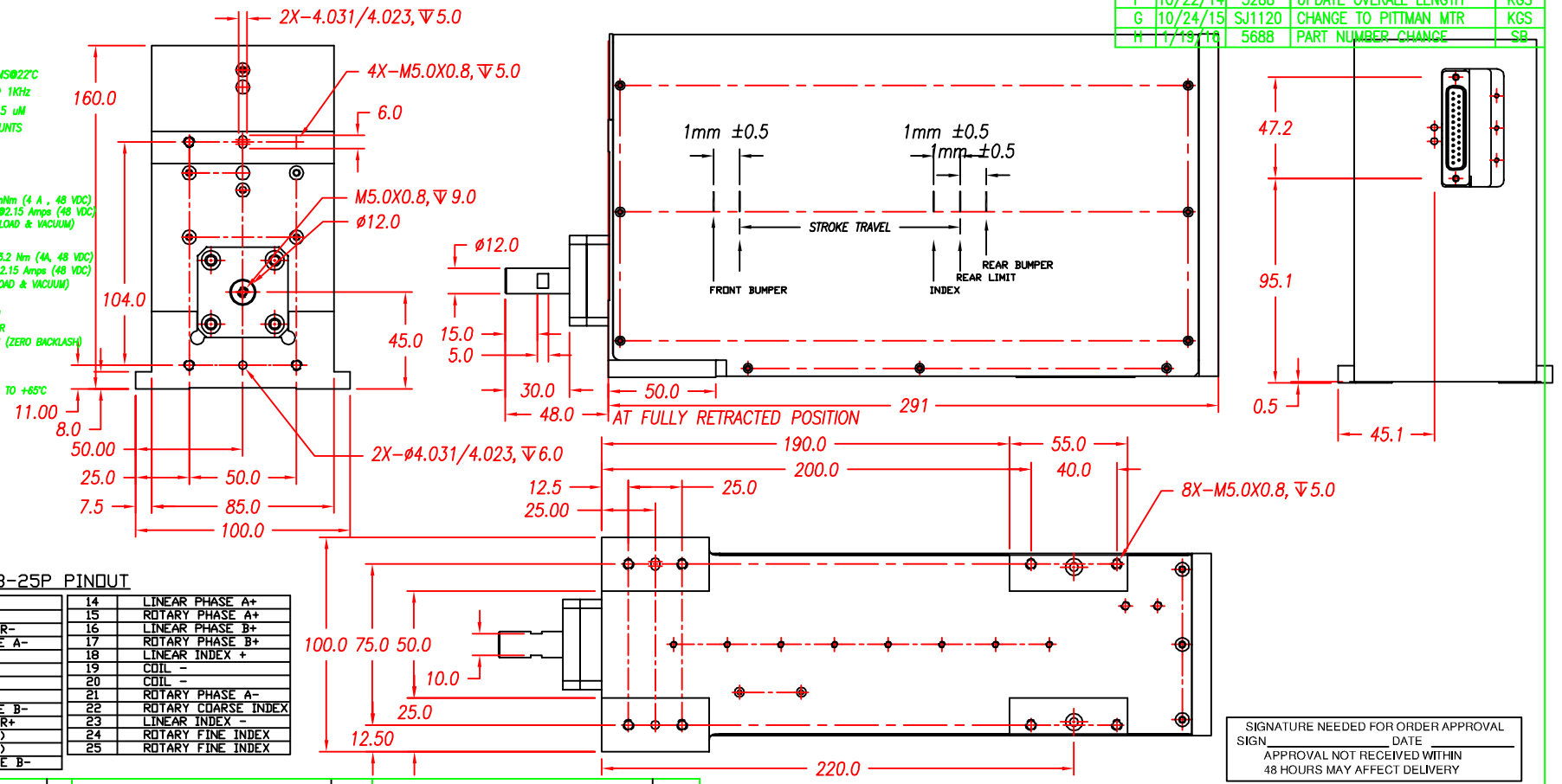
NOTES: (UNLESS OTHERWISE SPECIFIED)

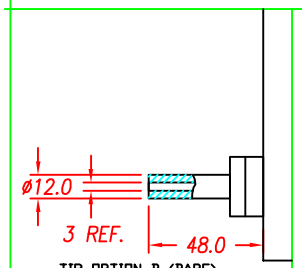
1. ALL DIMENSIONS IN MILIMETERS
2. ACTUATOR SPECIFICATIONS:
   - LINEAR STROKE: 50 MM
   - FORCE CONSTANT: 67 N/AMP
   - PEAK FORCE: 202N
   - COIL DC RESISTANCE: 15.1 OHMS@22°C
   - COIL INDUCTANCE: TBD mH @ 1KHz
   - LINEAR ENCODER RES: .5, 1, 5 uM
   - ENCODER ACCURACY: ±4 COUNTS
3. THETA SPECIFICATION:
   - ROTATION ANGLE: 360°
   - NO GEAR SPECIFICATIONS:
   - PEAK TORQUE w/NO GEAR: 248 mNm (4 A , 48 VDC)
   - CONTINUOUS TORQUE: 133 mNm @2.15 Amps (48 VDC)
   - MAXIMUM RPM : 6000 (WITH 0 LOAD & VACUUM)
   - 16:1 GEAR SPECIFICATIONS:
   - PEAK TORQUE 16:1 GEAR RATIO: 3.2 Nm (4A, 48 VDC)
   - CONTINUOUS TORQUE: 1.7 Nm @ 2.15 Amps (48 VDC)
   - MAXIMUM RPM : 375 (WITH 0 LOAD & VACUUM)
   - DC COIL RESISTANCE: 12.2 OHMS
   - ROTARY MOTOR TYPE: 48V BRUSH
   - ENCODER RESOLUTION: 2000 CPR
   - ENCODER ACCURACY: ±5 COUNTS (ZERO BACKLASH)
4. MOVING MASS: APPROX. 3.6 Kg
5. TOTAL MASS: APPROX 11.1 Kg
6. OPERATING TEMPERATURE: -10°C TO +65°C

REV	DATE	ECN	DESCRIPTION	APP
E	10/22/13	5288	SEE ECN	KGS
F	10/22/14	5288	UPDATE OVERALL LENGTH	KGS
G	10/24/15	SJ1120	CHANGE TO PITTMAN MTR	KGS
H	1/13/16	5688	PART NUMBER CHANGE	SB

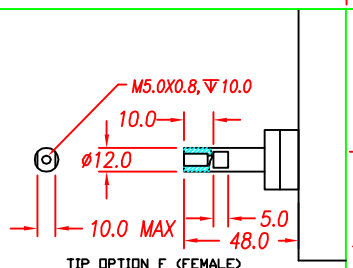


DB-25P PINOUT

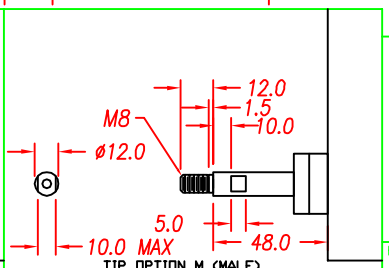
1	+5VDC	14	LINEAR PHASE A+
2	+5V RETURN	15	ROTARY PHASE A+
3	ROTARY MOTOR-	16	LINEAR PHASE B+
4	LINEAR PHASE A-	17	ROTARY PHASE B+
5	NC	18	LINEAR INDEX +
6	TBD	19	COIL -
7	COIL +	20	COIL -
8	COIL +	21	ROTARY PHASE A-
9	LINEAR PHASE B-	22	ROTARY COARSE INDEX
10	ROTARY MOTOR+	23	LINEAR INDEX -
11	LIMIT + (TBD)	24	ROTARY FINE INDEX
12	LIMIT - (TBD)	25	ROTARY FINE INDEX
13	ROTARY PHASE B-		



TIP OPTION B (BARE)



TIP OPTION F (FEMALE)



TIP OPTION M (MALE)

SIGNATURE NEEDED FOR ORDER APPROVAL
SIGN_____ DATE _____
APPROVAL NOT RECEIVED WITHIN
48 HOURS MAY AFFECT DELIVERY

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 0.2 MAX
CHAMFER 0.1 MAX

FILE NAME: LAR300-050-8

MATERIAL:

HEAT TREAT: ____/____RC
____DEEP

MACHINE FINISH: 1.6
EXCEPT NOTED.

PROTECTIVE FINISH

SPEC. NUMBER:

SMAC

REF. NUMBER: LAR300-050-8

DESIGNED BY:	DATE:	CHECKED BY:	DATE:	CONTRACT:
HUY NGUYEN	10/15/99			STD
DRAWN BY: KARL STOCKS	DATE: 10/22/15	APPROVED BY:	DATE:	

PART NAME: LAR300-050-7X-2
OUTLINE

SHEET NUMBER: 1 OF 1

SCALE:	DWG SIZE:	PART NUMBER:	REVISION:
NONE	B	LAR300-050-7X-2	H

DO NOT SCALE DWG