

1. ALL DIMENSIONS IN MILLIMETERS

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 μ M
 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:

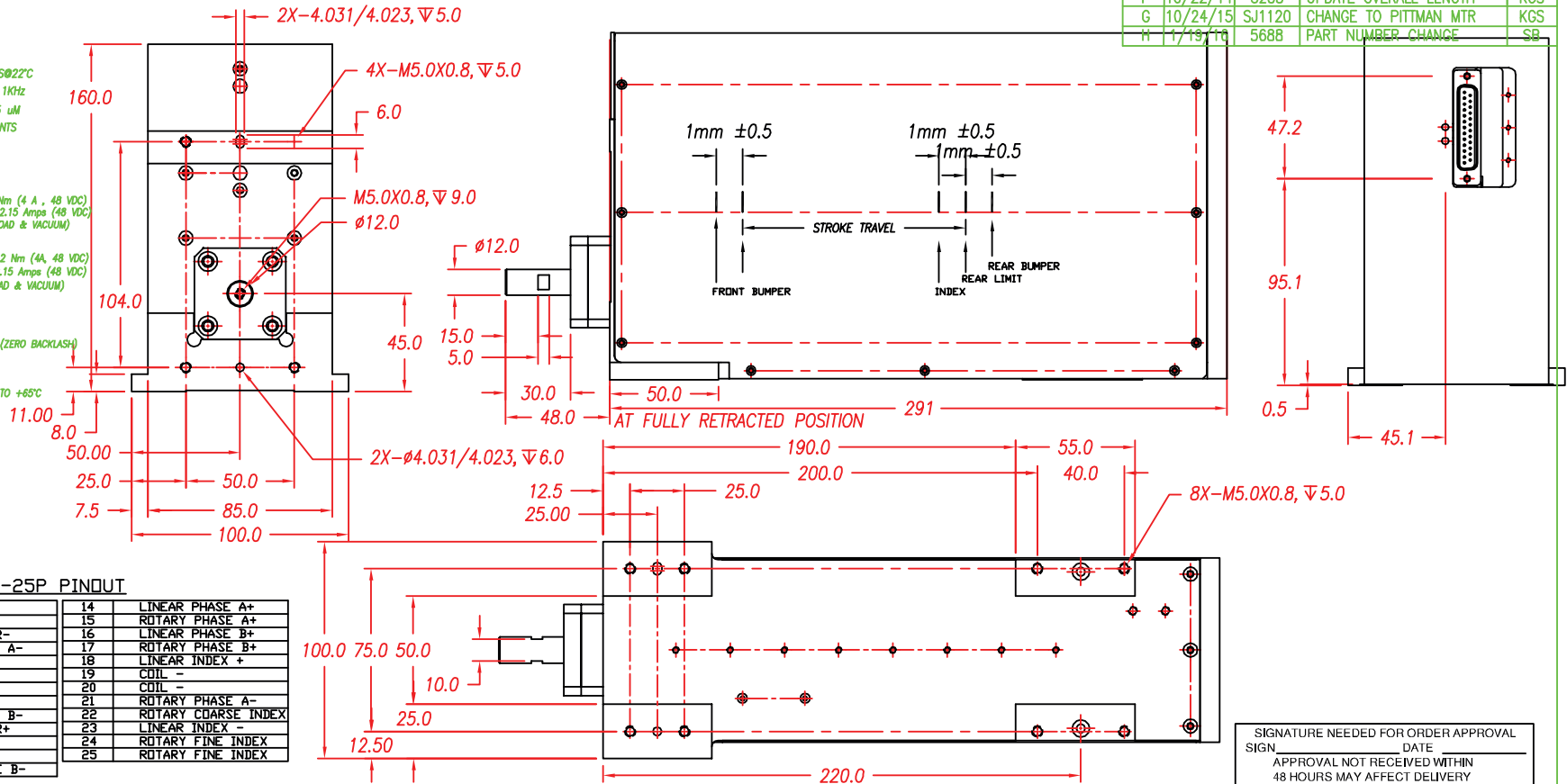
PEAK TORQUE 16:1 GEAR RATIO: 3.2 Nm (4A, 48 VDC)
CONTINUOUS TORQUE: 1.7 Nm @ 2.15 Amps (48 VDC)
MAXIMUM RPM : 375 (WITH 0 LOAD & VACUUM)

DC COIL RESISTANCE: 12.2 OHMS
ROTARY MOTOR TYPE: 48V BRUSH
ENCODER RESOLUTION: 2000 CPR
ENCODER ACCURACY: ± 5 COUNTS (ZERO BACKLASH)

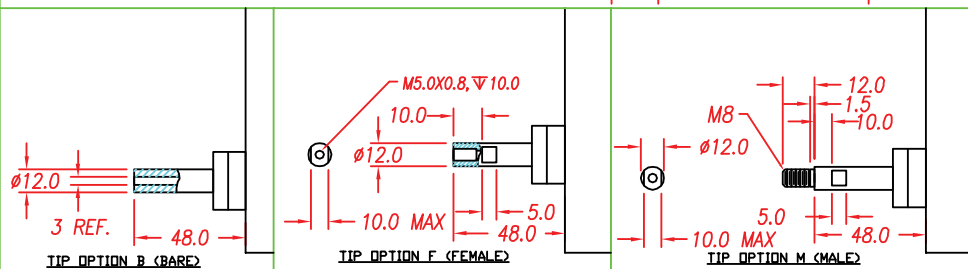
MOVING MASS: APPROX. 3.6 Kg
TOTAL MASS: APPROX 11.1 Kg

OPERATING TEMPERATURE: -10°C TO +65°C

11.00 = 9.0



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-		



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		MATERIAL: HEAT TREAT: _____ RC _____ DEEP		SMAC DESIGNED BY: HUY NGUYEN DRAWN BY: KARL STOCKS		DATE: 10/15/99 DATE: 10/22/15 CHECKED BY: APPROVED BY:		REF. NUMBER LAR300-050-8	
MACHINE FINISH: 1.6 ✓ EXCEPT NOTED.		PART NAME: LAR300-050-7X-2 OUTLINE		SHEET NUMBER: 1 OF 1		PROTECTIVE FINISH		SCALE: NONE	
FILE NAME: LAR300-050-8		CDG. NUMBER: DO NOT SCALE THIS		DWG. SIZE: B		PART NUMBER: LAR300-050-7X-2		REVISION: H	