NOTES: (UNLESS OTHERWISE SPECIFIED)
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS APPLY AFTER PLATING.
3. ACTUATOR SPECIFICATIONS:
   LINEAR STROKE: 50.0 MM
   FORCE CONSTANT: 25.4 N/AMP
   PEAK FORCE: 40I @ 1.8 AMPS (48 VDC)
   COIL DC RESISTANCE: 25 OHMS @ 22°C
   COIL INDUCTANCE: TBD mH @ 1 kHz
   MAXIMUM POWER DISSIPATE TO COIL: TBD WATTS
   LINEAR ENCODER RESOLUTION: 5.0 MICRON
   ENCODER ACCURACY: ±20 MICRON
   MOVING MASS: 500 Grams
   TOTAL MASS: 3150 Grams
   ROTARY ANGLE: 360° FULL CIRCLE
   STALL TORQUE: 1070mNm
   TORQUE CONSTANT: 59m/°A (48 VDC)
   CONTINUOUS TORQUE: 97m/°Nm
   COIL DC RESISTANCE: 2.0 OHMS
   GEAR RATIO: NONE (DIRECT DRIVE)
   THETA ENCODER RESOLUTION: 2000 COUNT/REV
   MAX. OUTPUT SPEED: 5500 RPM (W/O LOAD)
4. OPERATING TEMPERATURE: −10°C TO +65°C

DB-25P PINOUT

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

SMAC

LAR55-050-7

MATERIAL: ALUMINUM
6061-T6

DESIGNED BY: DOAN VU
DRAWN BY: KARL STOCKS
CHECKED BY: 02/05/01
APPROVED BY: 02/06/01

MACHINE FINISH: 1.6

PROTECTIVE FINISH: ELECTROLESS NICKEL

SCALE: NONE
DIMENSION: B
PART NUMBER: LAR55-050-7
REVISION: A

FILE NAME: LAR55-050-7_A

4X-M5x6 DP.