



Pinouts for MCBH-6-M  
1: TX (RS-232 out)  
2: RX (RS-232 in)  
3: RS-485 B  
4: +VIN  
5: -VIN  
6: RS-485 A

Detail A

# 2000 Linear

- General Specifications:**
- Output Force Over 100 lbs
  - Linear Speeds Over 2" per second
  - Stroke Length 2" to 4"
  - Brushless DC Motor
  - Oil-Filled - Self-Contained - Compensated

- Operating Conditions:**
- Voltage 12 <-> 32 Volts DC
  - Operating Depth Greater Than 10,000 ft
  - Operating Temperature Range: -20°C to 65°C
  - Storage Temperature Range: -30°C to 85°C

- Onboard Motor Driver and Servo System:**
- Configurable current limits, power and speed
  - RS-232 & RS-485 Interface
  - Optional Analog, Modbus or CAN Bus
  - Contactless non-wearing absolute position encoder
  - Does not require homing
  - 0.005" Accuracy

- Current Draw @24V DC:**
- Idle current = 0.03A
  - Motor ON braking = 0.12A
  - Max force @ Stall = 5A

| Shaft Style                        |      | Shaft Length (in.) |      | Material        |     | Dry Weight (lbs)                                    | Wet Weight (lbs) | Connectors        |    | Connector Orientation |     |
|------------------------------------|------|--------------------|------|-----------------|-----|---|------------------|-------------------|----|-----------------------|-----|
| #10 Rod End                        | R    | 2.00 *             | 2000 | Titanium        | TI  | 2.8   | 2                | MCBH 4 Pin Male   | 4M | Parallel Forward      | PLF |
| 3/16in. Clevis Pin *               | C    | 4.00               | 4000 | 316 SS *        | SS  | 3.9   | 3.2              | MCBH 6 Pin Male * | 6M | Parallel Backward     | PLB |
| 1/4in. Clevis Pin                  | .25C |                    |      | 6061-AL-Natural | ALN | 2.3   | 2.0              | MCBH 8 Pin Male   | 8M | Perpendicular *       | PD  |
| 1/4in. Rod End                     | .25R |                    |      | 6061-AL-Black   | ALK | 2.3   | 2.0              | MCBH 4 Pin Female | 4F |                       |     |
|                                    |      |                    |      | 6061-AL-Blue    | ALB | 2.3   | 2.0              | MCBH 6 Pin Female | 6F |                       |     |
|                                    |      |                    |      | 6061-AL-Green   | ALG | 2.3   | 2.0              | MCBH 8 Pin Female | 8F |                       |     |
|                                    |      |                    |      | 6061-AL-Red     | ALR | 2.3   | 2.0              |                   |    |                       |     |
| * Model shown: 2000L-C2000-SS-6MPD |      |                    |      |                 |     | All Weights Are Approximate for 2in Stroke Actuator |                  |                   |    |                       |     |

DRAWN

GMPH

3/7/2016

CHECKED

GMPH

3/7/2016

TITLE:

2000 Series Linear Actuator

SIZE

B

DWG. NO.

2000L

REV

G

SCALE: 1:2

WEIGHT:

SHEET 1 OF 5