

**PA-06**

## **Data Sheet**



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# Specifications



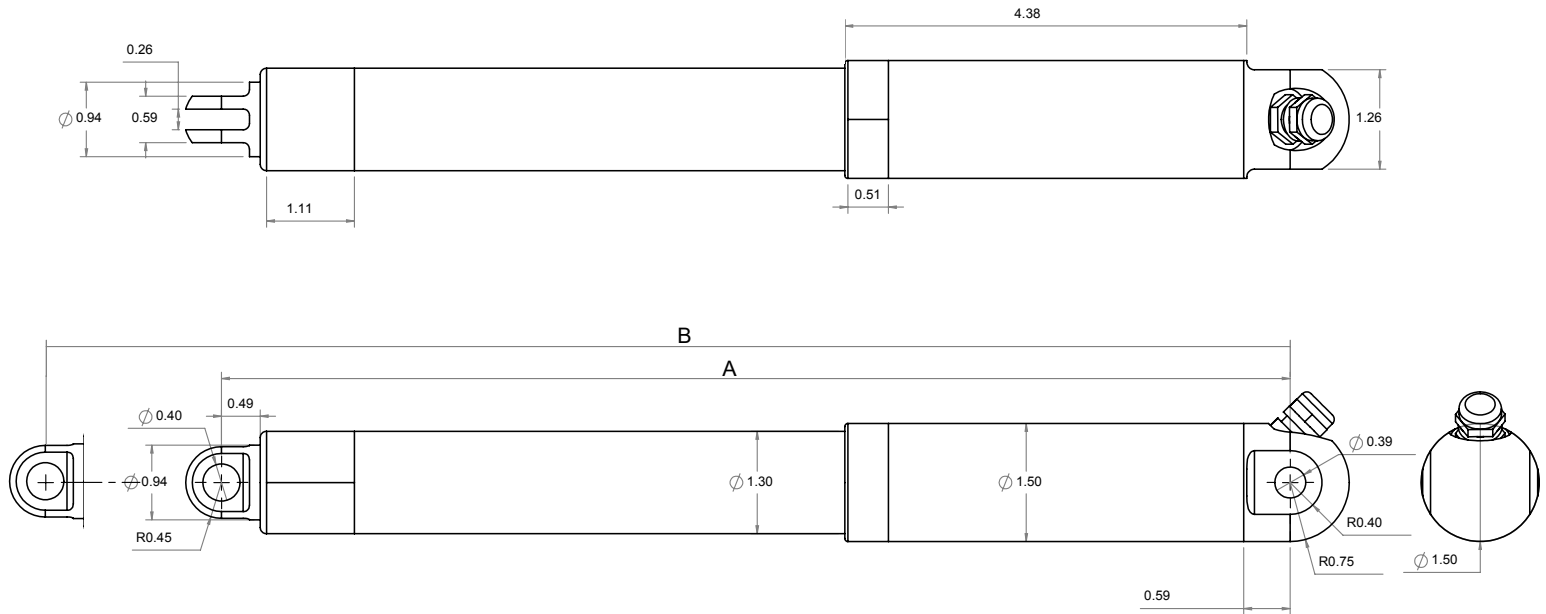
| Load (LBS) |        | No Load Current (A) |       | Full Load Current (A) |       | Speed (inch/sec) |           |
|------------|--------|---------------------|-------|-----------------------|-------|------------------|-----------|
| Dynamic    | Static | 12VDC               | 24VDC | 12VDC                 | 24VDC | No Load          | Full Load |
| 22         | 33     | 0.6                 | 0.3   | 2.5                   | 1.3   | 1.38             | 1.18      |
| 180        | 360    | 0.6                 | 0.3   | 3.7                   | 1.8   | 0.47             | 0.27      |

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Stroke                  | 2" to 24"                                     |
| Limit Switch            | Internal - Non-Adjustable                     |
| Limit Switch Feedback   | N/A                                           |
| Screw Type              | Trapezoid Screw                               |
| Motor Type              | Brushed DC Motor                              |
| Connector Type          | See Page 5                                    |
| Wire Length             | 59" (customizable)                            |
| Housing Material        | 6063 Aluminum                                 |
| Rod Material            | 304 Stainless Steel                           |
| Gear Material           | Polyformaldehyde                              |
| Color (Shaft)           | Black                                         |
| Color (Motor End)       | Black                                         |
| Noise                   | <60dB                                         |
| Duty Cycle              | 10% (2 minutes on, 18 minutes off)            |
| Operational Temperature | -20°C to 60°C (-4°F to 140°F)                 |
| Protection Class        | IP67M                                         |
| Feedback Options        | Hall Effect (see page 5)                      |
| Safety Feature          | Over Current Protection Optional (see page 5) |
| Certifications          | CE                                            |
| Mounting Brackets       | See Page 6                                    |
| Mounting Ends           | Customizable                                  |



# Dimensions

(Dimensions in inches)



## Hole to Hole

| PA-06 | Stroke | 2     | 4     | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|       | A      | 9.87  | 11.87 | 13.87 | 15.87 | 17.87 | 19.87 | 21.87 | 23.87 | 26.37 | 28.50 | 30.50 | 32.50 |
|       | B      | 11.87 | 15.87 | 19.87 | 23.87 | 27.87 | 31.87 | 35.87 | 39.87 | 44.50 | 48.50 | 52.50 | 56.50 |

### For Stroke Length 2"-16"

A = Stroke Length + 7.87"

B = Stroke Length x 2 + 7.87"

### For All Stroke Lengths with Hall Effect Sensor or Over Current Protection

A = Stroke Length + 8.65"

B = Stroke Length x 2 + 8.65"

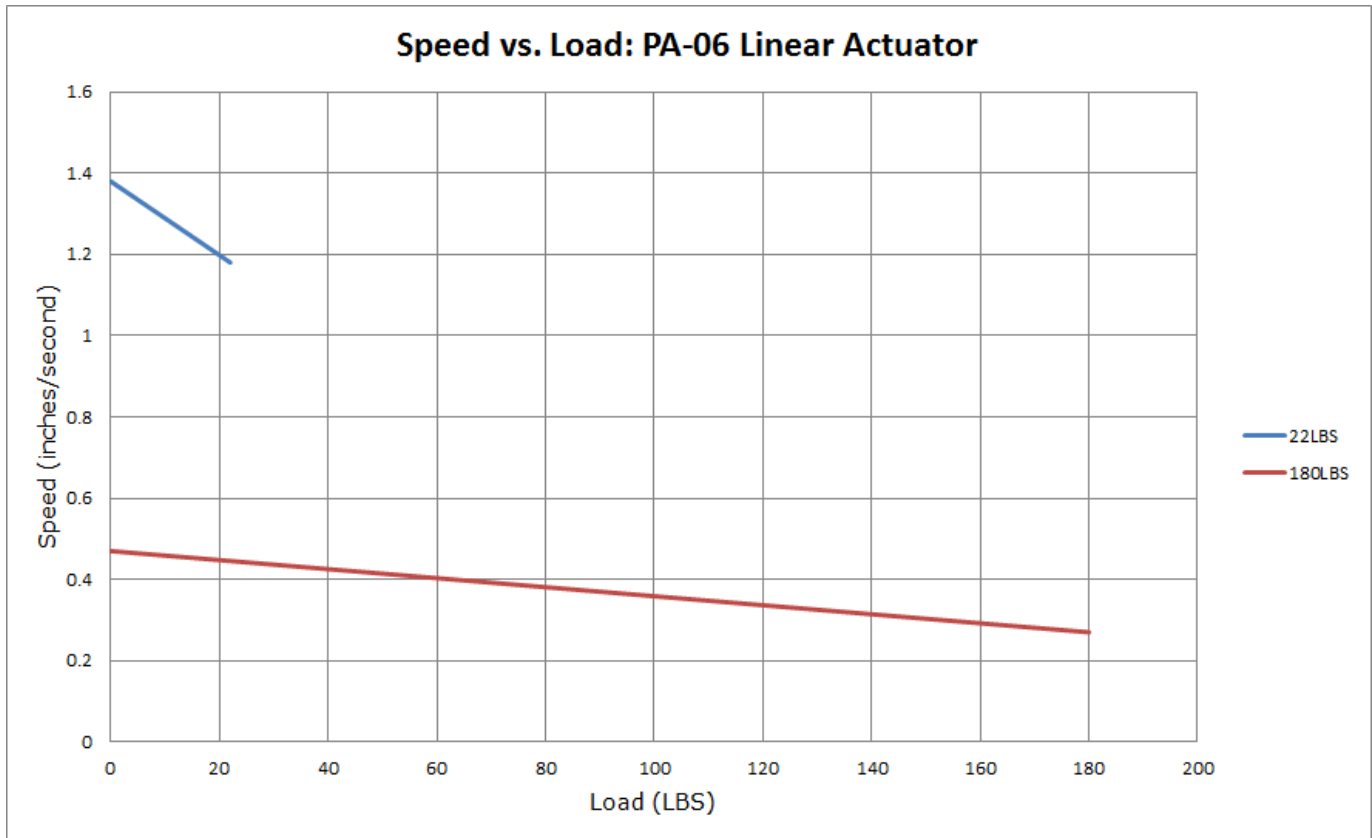
### For Stroke Length 18"-24"

A = Stroke Length + 8.50"

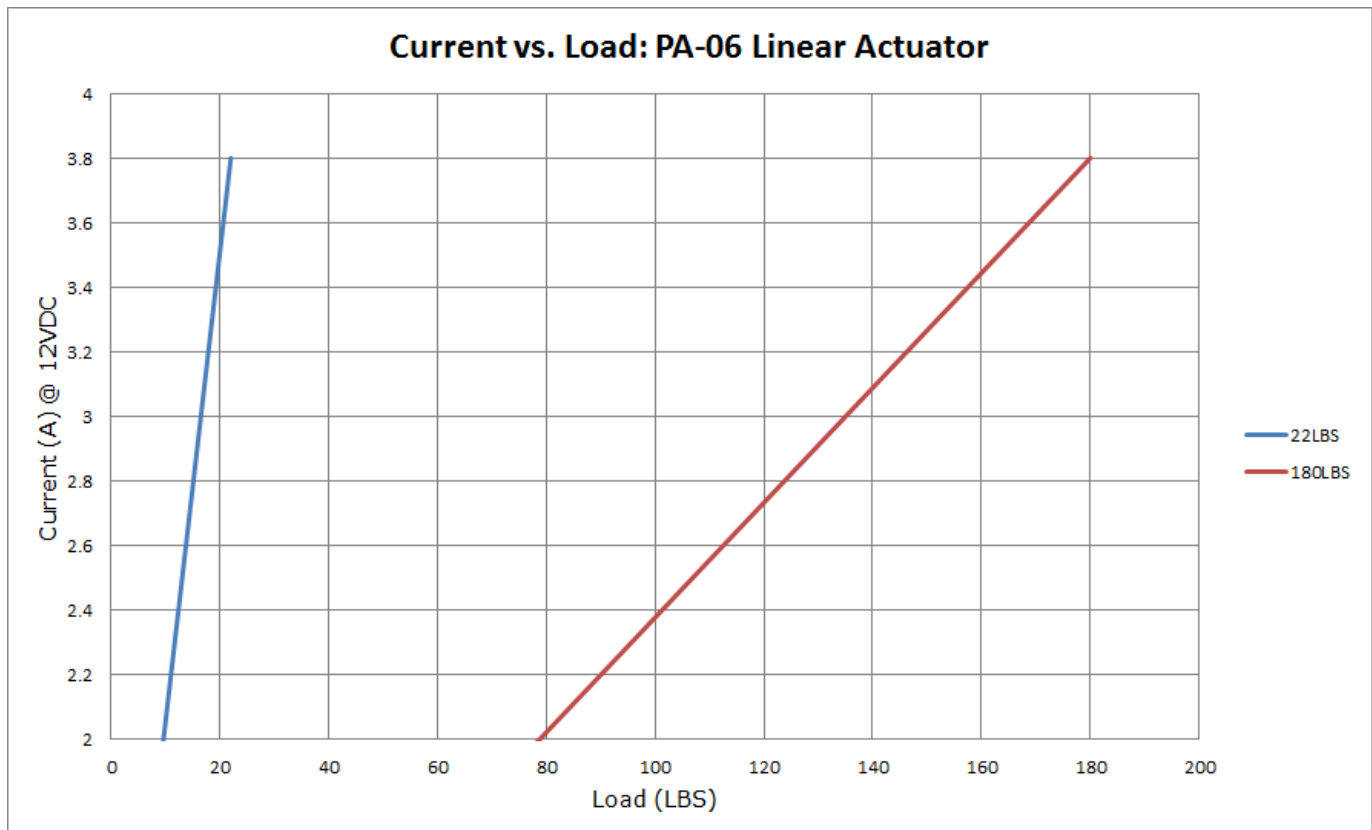
B = Stroke Length x 2 + 8.50"



# Speed vs Load



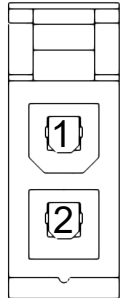
# Current vs Load



# Connectors & Feedback



## 2-Pin Connector (Standard)



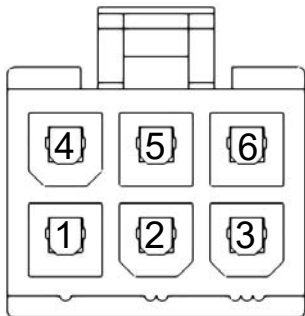
| Motor |    |
|-------|----|
| 1     | 2  |
| M-    | M+ |

| Component | Part Name                          | Part Number | Mating Part Number        |
|-----------|------------------------------------|-------------|---------------------------|
| Housing   | Molex Mini Fit Jr 2-Pin Receptacle | 39-01-2025  | 39-01-3029/<br>39-01-2026 |

## 6-Pin Hall Effect Connector

\*For Stroke Length 2-24"

Front View



| Motor       |              | Hall Sensor |       |                               |                                |
|-------------|--------------|-------------|-------|-------------------------------|--------------------------------|
| 4           | 5            | 2           | 3     | 1                             | 6                              |
| M+ (Extend) | M- (Retract) | GND         | +5VDC | Signal 2 Leads when Extending | Signal 1 Leads when Retracting |

| Component | Part Name                          | Part Number | Mating Part Number        |
|-----------|------------------------------------|-------------|---------------------------|
| Housing   | Molex Mini Fit Jr 6-Pin Receptacle | 39-01-2065  | 39-01-2069/<br>39-01-2066 |

| Output Signal Extending |  | Output Signal Retracting |  |
|-------------------------|--|--------------------------|--|
| Hall Effect 1 Signal    |  | Hall Effect 1 Signal     |  |
| Hall Effect 2 Signal    |  | Hall Effect 2 Signal     |  |

| Force (lbs) | Resolution Pulses/inches |
|-------------|--------------------------|
| 22          | 1,953                    |
| 180         | 5,521                    |

## Over Current Protection

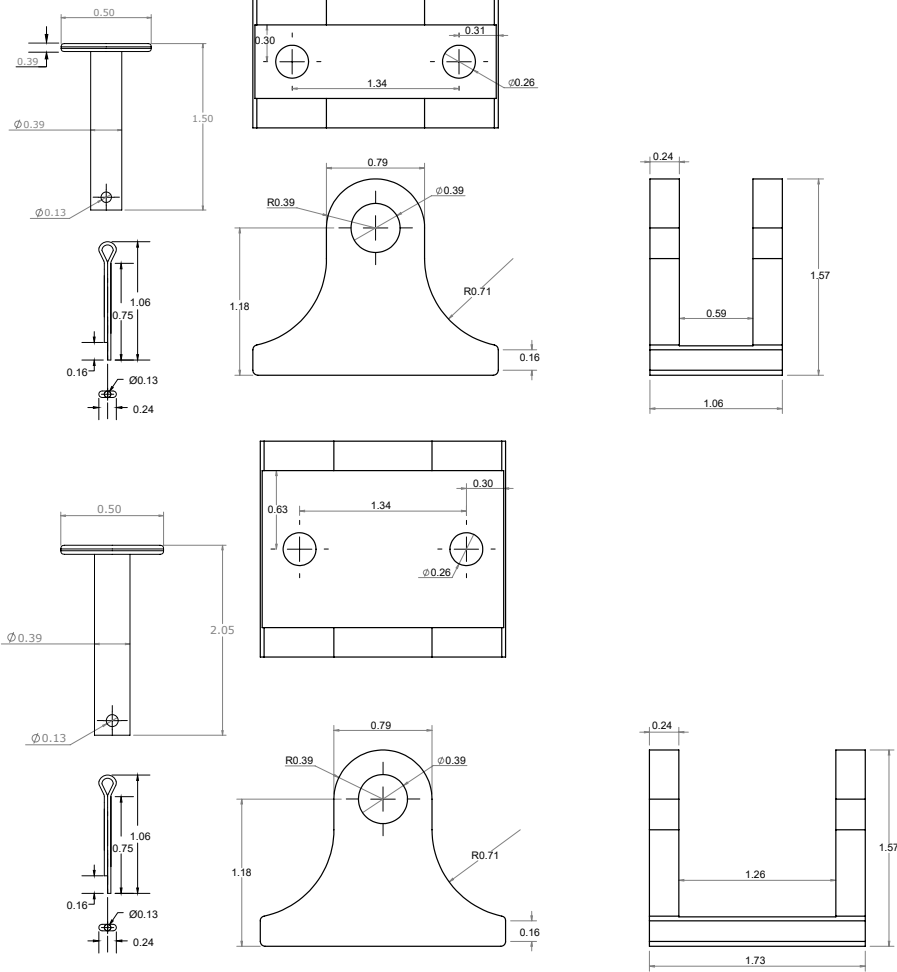
|       | Cut Off Current |
|-------|-----------------|
| 12VDC | 5.0A - 5.5A     |
| 24VDC | 2.5A - 3.0A     |

# Mounting Brackets



(Dimensions in inches)

## BRK-06



## BRK-16

