PA-06
Data Sheet

Contents

Specifications: Page 2
Dimensions: Page 3
Speed/Current vs Load: Page 4
Connectors & Feedback: Page 5
Mounting Brackets: Page 6
## Specifications

<table>
<thead>
<tr>
<th>Load (LBS)</th>
<th>No Load Current (A)</th>
<th>Full Load Current (A)</th>
<th>Speed (inch/sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dynamic</td>
<td>Static</td>
<td>12VDC</td>
</tr>
<tr>
<td>22</td>
<td>33</td>
<td>0.6</td>
<td>0.3</td>
</tr>
<tr>
<td>180</td>
<td>360</td>
<td>0.6</td>
<td>0.3</td>
</tr>
</tbody>
</table>

- **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 (see page 5)
- **Certifications**: CE
- **Mounting Brackets**: See Page 6
- **Mounting Ends**: Customizable
## Dimensions

(Dimensions in inches)

### Hole to Hole

<table>
<thead>
<tr>
<th>PA-06</th>
<th>Stroke</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>22</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>9.87</td>
<td>11.87</td>
<td>13.87</td>
<td>15.87</td>
<td>17.87</td>
<td>19.87</td>
<td>21.87</td>
<td>23.87</td>
<td>26.37</td>
<td>28.50</td>
<td>30.50</td>
<td>32.50</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>11.87</td>
<td>15.87</td>
<td>19.87</td>
<td>23.87</td>
<td>27.87</td>
<td>31.87</td>
<td>35.87</td>
<td>39.87</td>
<td>44.50</td>
<td>48.50</td>
<td>52.50</td>
<td>56.50</td>
<td></td>
</tr>
</tbody>
</table>

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"
Speed vs Load

Current vs Load
Connectors & Feedback

2-Pin Connector (Standard)

Motor

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-</td>
<td>M+</td>
<td></td>
</tr>
</tbody>
</table>

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

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 | 39-01-2069/39-01-2066 |

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

Force | Resolution Pulses/inches
---|---
100 | 1,953
800 | 5,521

Over Current Protection

Cut Off Current

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>5.0A - 5.5A</td>
</tr>
<tr>
<td>24VDC</td>
<td>2.5A - 3.0A</td>
</tr>
</tbody>
</table>
Mounting Brackets

(Dimensions in inches)

BRK-06