**easyE® 60**

Electric Linear Actuator

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**Standard Specifications**

**Motor/Gear**
24 VDC power supply, permanent magnet motor

<table>
<thead>
<tr>
<th>Gear ratio</th>
<th>19</th>
<th>43</th>
<th>66</th>
<th>81</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum load [N]</td>
<td>1900</td>
<td>4300</td>
<td>6600</td>
<td>8100</td>
<td>10000</td>
</tr>
<tr>
<td>Speed at maximum load [mm/s]</td>
<td>26</td>
<td>12</td>
<td>8</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

Max. static load*/Self-locking force
*Depending on stroke length for push-applications

- Alu/AISI: 16800 N

**Temperature**

- Operation: -5°C to +50°C
- Storage: -40°C to +70°C

**Relative humidity**

- 20% to 70%, atmospheric pressure = 1 atm

**Protection class**

- IP66

**Cable specification**

- 1m, 2x1.3mm² (AWG 16), Ø = 6.4mm, black, Molex Mini-Fit Jr. 6 pin

**Bending radius**

- 6x cable diameter

**Materials**

- Motor and actuator tube are powder coated steel
- Piston rod is stainless steel
- Front and rear brackets are aluminum

**Duty cycle**

- Max. 10% or 2 minutes in use followed by 18 minutes rest

**Color**

- Black (RAL 9005) is standard

**Stroke length/weight**

<table>
<thead>
<tr>
<th>Stroke [mm]</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
<th>450</th>
<th>500</th>
<th>750</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight [kg]</td>
<td>4.1</td>
<td>4.4</td>
<td>4.7</td>
<td>5</td>
<td>5.3</td>
<td>5.6</td>
<td>5.9</td>
<td>6.2</td>
<td>6.5</td>
<td>6.8</td>
<td>7.6</td>
</tr>
</tbody>
</table>

Type easyE 60 max. load limited to 5000 N for stroke lengths ≥ 500mm. Actual weight may vary depending on model and options selected.

**Options:**

- Stainless steel versions (AISI 316)
- Brackets in stainless steel
- Brackets with clevis
- Brackets with spherical bearings
- Hall sensors for positioning and/or synchronization
- Harsh environment version
- Low noise version
- Spline and emergency lowering
- IP68/IP69K (additional 14 mm to end-to-end dimensions)*
- ATEX zone 22, group II 3 D compliant
- Eskimo version (-40°C to +70°C)
- Other cable lengths (1-9m)

**On request:**

- Available in all RAL colors
- Other stroke lengths available
- Customized front and rear brackets
- Customized built-in dimensions

Contact Bansbach for any special requirements

* The dust and water sealing of IP68/69K actuators might affect their performance in lower gear ratios
**Speed/force**

![Graph showing speed vs. force](image)

- **Accuracy**: ±10%
- **Load**: 0 to 10,000 N
- **Speed [mm/s]**: 0 to 35

**Force/current**

![Graph showing force vs. current](image)

- **Recommended max. current**: 24VDC = 10 A
- **Accuracy**: ±10%

**Dimensions**

- **Axial backlash**: +/- 0.5 mm
- **General dimensional variation**: +/- 1 mm

<table>
<thead>
<tr>
<th>Built-In Dimension 'A'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear Ratio</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>All Ratios</td>
</tr>
</tbody>
</table>

- **Stoke length ≥ 500 mm**: +25 mm
Recommended Mounting Methods

- Do not clamp actuators on tubing
- Always keep both brackets mounted in the same orientation and ensure to flush mount actuator
- Brackets must always be able to rotate on axels in mountings

**Standard Brackets**

- **Alu / AISI316**
  - Max. static load 16800N

- **Alu / AISI316 with clevis**
  - Max. static load 16800N

- **Alu / AISI316 with spherical bearings**
  - Max. static load 11000N
easyE 60 Item Number Combination

Please Note

- Power supply without over-current protection can cause serious damage to the actuator at mechanical end-stop or when actuator is overloaded in another way
- Radial forces might have an adverse affect on the performance or lead to damage of the actuator
- Keep piston tube clean
- Longer cable lengths may cause voltage drop which affects the performance of the actuator
- For medical applications maximum ambient temperature is 48°C
- Function of the actuator is subject to the settings of the control box
- Bansbach does not have any responsibility for possible errors in this data sheet
- Specifications are subject to change without notice
- The dust and water sealing of Harsh Environment actuators might affect their performance
- All specifications are for 25°C ambient – low temperature might affect their performance
- Depending on load and application, nominal and actual stroke length may differ due to internal disc springs not being fully compressed