Lambda Actuator System - Marine

Description
Possibly the most robust actuator in the world. Operating consistently for over 3 million operations and in temperatures from -35°C to +60°C.

The LAMBDA is an electric linear actuator designed for industrial applications with high demand.

The unit is capable of handling loads up to 8000N (800Kg) at speeds up to 40mm/s

The units are fitted with high quality DC motors

Features
- Protection IP66
- Anti-stall Protection
- Self Locking
- Thermal Protection
- Tested for 100,000 operations at full load
- Stroke Lengths up to 1000mm
- Integrated Limit Switch
- Integrated Potentiometer
- **Full Stainless Option**
Dimensions

Stroke + 175mm or 225mm on LBM 6,7,8

<table>
<thead>
<tr>
<th>Type</th>
<th>Stroke (mm)</th>
<th>Install. Height (mm)</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBM100</td>
<td>100</td>
<td>275</td>
<td>2.3</td>
</tr>
<tr>
<td>LBM150</td>
<td>150</td>
<td>325</td>
<td>2.5</td>
</tr>
<tr>
<td>LBM200</td>
<td>200</td>
<td>375</td>
<td>2.7</td>
</tr>
<tr>
<td>LBM250</td>
<td>250</td>
<td>425</td>
<td>2.9</td>
</tr>
<tr>
<td>LBM300</td>
<td>300</td>
<td>475</td>
<td>3.1</td>
</tr>
<tr>
<td>LBM400</td>
<td>400</td>
<td>625</td>
<td>3.5</td>
</tr>
<tr>
<td>LBM500</td>
<td>500</td>
<td>725</td>
<td>3.9</td>
</tr>
<tr>
<td>LBM600</td>
<td>600</td>
<td>825</td>
<td>4.3</td>
</tr>
</tbody>
</table>
Technical Data

- **Voltage**: 24VDC (12VDC Optional)
- **Current**: 9A maximum
- **Protection**: IP66
- **Ambient Temperature**: -20°C to + 60°C
- **Load**: 2000N, 4500N, 6000N
- **Speed**: 5mm/s, 8mm/s, 21mm/s
- **Positional Repeatability**: <1mm
- **Life Expectancy**: >100,000 cycles

<table>
<thead>
<tr>
<th>Speed at Nominal Load</th>
<th>5 mm/s</th>
<th>8 mm/s</th>
<th>21 mm/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load (Nominal)</td>
<td>6000N</td>
<td>4500N</td>
<td>2000N</td>
</tr>
<tr>
<td>(600Kg)</td>
<td>(450Kg)</td>
<td>(200Kg)</td>
<td></td>
</tr>
<tr>
<td>Maximum Push load</td>
<td>6000N</td>
<td>4500N</td>
<td>2000N</td>
</tr>
<tr>
<td>(600Kg)</td>
<td>(450Kg)</td>
<td>(200Kg)</td>
<td></td>
</tr>
<tr>
<td>Maximum Pull Load</td>
<td>4000N</td>
<td>4000N</td>
<td>2000N</td>
</tr>
<tr>
<td>(400Kg)</td>
<td>(400Kg)</td>
<td>(200Kg)</td>
<td></td>
</tr>
<tr>
<td>Stroke</td>
<td>100...400mm</td>
<td>100...600mm</td>
<td>100...600mm</td>
</tr>
</tbody>
</table>

Duty Cycle

The actuators are designed for intermittent service. The maximum operating time at Nominal Load may not exceed 10% (2 minutes operation, 18 minutes rest). This depends on load and ambient temperature.

Additional Features

- 230V AC Power Supply
- Manual Adjustment during power failure
- Anti-stall protection on push and pull loads
- Potentiometer feedback
- Limit signal switches
Performance Diagram

4,500, 8 mm/s
Max. 4,500 N push
Max. 4,000 N pull
Max. 100-600 mm stroke

6,000, 5 mm/s
Max. 6,000 N push
Max. 4,000 N pull
Max. 100-400 mm stroke

2,000, 21 mm/s
Max. 2,000 N push
Max. 2,000 N pull
Max. 100-600 mm stroke