Actuator Specifications

1. Lead and Load Capacity

- **Model**: RCL-SA4L-I-2-N-1
- **Motor Output (W)**: 0.042mm
- **Material**: Aluminum (white alumite treated)
- **Ma**: 0.2N∙m
- **Mb**: 0.17N∙m
- **Mc**: 0.25N∙m
- **Ma direction**: 60mm or less
- **Mb, Mc direction**: 80mm or less
- **Operating time**: 40°C, 85% RH or less (non-condensing)

2. Stroke and Maximum Speed

- **Model**: RCL-SA4L-I-2-N-1
- **Stroke (mm)**: 30 – 180
- **Continuous Operation (100% duty)**: 0.1 – 2.0
- **Maximum Speed (mm/s)**: 1200

3. Option List

<table>
<thead>
<tr>
<th>Name</th>
<th>Option Code</th>
<th>See Page</th>
<th>Standard Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reversed-home</td>
<td>NM</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

4. Option List

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive System</td>
<td>Linear servo motor</td>
</tr>
<tr>
<td>Encoder Resolution</td>
<td>0.042mm</td>
</tr>
<tr>
<td>Base Material</td>
<td>Aluminum (white alumite treated)</td>
</tr>
<tr>
<td>Allowable Dynamic Moment (Nm)</td>
<td>Max: 0.2N·m, Min: 0.17N·m, Max: 0.25N·m</td>
</tr>
<tr>
<td>Overhang Load Length</td>
<td>M: 60mm or less, N: 80mm or less</td>
</tr>
<tr>
<td>Ambient Operating Temp./Humidity</td>
<td>0 – 45°C, 85% RH or less (non-condensing)</td>
</tr>
</tbody>
</table>

(Note) Based on a 5,000km service life.
**Dimensions and Weight by Stroke**

<table>
<thead>
<tr>
<th>Stroke</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>0.21</td>
</tr>
<tr>
<td>130</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>0.25</td>
</tr>
<tr>
<td>160</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>0.32</td>
</tr>
<tr>
<td>190</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>0.36</td>
</tr>
</tbody>
</table>

Notes:
2. When homing, the slider moves to the mechanical end; therefore, please watch for any interference with the surrounding objects.

**Compatible controller**

The RCL series actuators can operate with the controllers below. Select the controller according to your usage.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Max. Positioning Points</th>
<th>Input Voltage</th>
<th>Power Supply Capacity</th>
<th>Standard Price</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid Valve Type</td>
<td>AMEC-C-2I-NP-2-1</td>
<td>Easy-to-use controller, even for beginners</td>
<td>3 points</td>
<td>DC10V</td>
<td>2.4A max.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>ASEP-C-2I-NP-2-0</td>
<td>Operate with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.</td>
<td>–</td>
<td>DC24V</td>
<td>4.6A max.</td>
<td>–</td>
</tr>
<tr>
<td>Splash-Proof Solenoid Valve Type</td>
<td>ASEP-CW-2I-NP-2-0</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Positioner Type</td>
<td>ACON-C-2I-NP-2-0</td>
<td>Positioning is possible for up to 512 points</td>
<td>512 points</td>
<td>DC24V</td>
<td>4.6A max.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>ACON-CG-2I-NP-2-0</td>
<td>Safety-compliant</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field Network Type</td>
<td>ACON-SE-2I-NP-2-0</td>
<td>Dedicated to serial communication</td>
<td>64 points</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program-Control Type</td>
<td>ASEL-C-1-2I-NP-2-0</td>
<td>Programmed operation is possible on up to 2 axes</td>
<td>1500 points</td>
<td>–</td>
<td>–</td>
<td>P567</td>
</tr>
</tbody>
</table>

* This is for the single-axis ASEL.

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**For Special Orders**

**Dimensions**

- **Movement scale:**
  - 100 mm (300)
  - 150 mm (300)
  - 200 mm (300)

- **Oblong hole depth 4 (D section):**
  - 13.5 mm (D) 7H7 depth 4
  - 2-M2 depth 3 (through)

- **Dimensions and Weight by Stroke:**
  - Stroke: 30, 40, 50, 60, 70, 80
  - Weight (kg): 0.21, 0.25, 0.32, 0.36, 0.4

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**IAI**

**RCL-SA4L 380**

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**Sold & Serviced By:**

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Toll Free Fax (877) SERV099

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sales@electromate.com

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**Additional information**

- **Controller Types:**
  - Standard
  - Integrated
  - Field Network
  - Pulse Motor
  - Servo Motor

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