### RCA-SS5D

**ROBO Cylinder**

**Motor Built-In (Direct-Coupled)**

**Steel Base**

### Lead and Load Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Type</th>
<th>Lead (mm)</th>
<th>Max. Lead Capacity (mm)</th>
<th>Rated Stroke (mm)</th>
<th>Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCA-SS5D-I-20-12</td>
<td>20: 20W Servo motor</td>
<td>12: 12mm</td>
<td>6: 6mm</td>
<td>Stroke List</td>
<td></td>
</tr>
<tr>
<td>RCA-SS5D-I-20-6</td>
<td>20: 20W Servo motor</td>
<td>12: 12mm</td>
<td>6: 6mm</td>
<td>Stroke List</td>
<td></td>
</tr>
<tr>
<td>RCA-SS5D-I-20-3</td>
<td>20: 20W Servo motor</td>
<td>12: 12mm</td>
<td>6: 6mm</td>
<td>Stroke List</td>
<td></td>
</tr>
</tbody>
</table>

### Stroke and Maximum Speed

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>Standard Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>—</td>
</tr>
<tr>
<td>100</td>
<td>—</td>
</tr>
<tr>
<td>150</td>
<td>—</td>
</tr>
<tr>
<td>200</td>
<td>—</td>
</tr>
<tr>
<td>250</td>
<td>—</td>
</tr>
<tr>
<td>300</td>
<td>—</td>
</tr>
<tr>
<td>350</td>
<td>—</td>
</tr>
<tr>
<td>400</td>
<td>—</td>
</tr>
<tr>
<td>450</td>
<td>—</td>
</tr>
<tr>
<td>500</td>
<td>—</td>
</tr>
</tbody>
</table>

### 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>Brake (cable exiting end)</td>
<td>BE</td>
<td>— A-25</td>
<td>—</td>
</tr>
<tr>
<td>Brake (cable exiting right)</td>
<td>BR</td>
<td>— A-25</td>
<td>—</td>
</tr>
<tr>
<td>Power-saving</td>
<td>LA</td>
<td>— A-32</td>
<td>—</td>
</tr>
<tr>
<td>Slider Roller</td>
<td>SR</td>
<td>— A-36</td>
<td>—</td>
</tr>
</tbody>
</table>

### Actuator Specifications

- **Drive System**: Ball screw Ø8mm C10 grade
- **Positioning Repetitability**: ±0.01mm
- **Lost Motion**: 0.1mm or less
- **Base Material**: Special alloy steel
- **Allowable Static Moment**
  - Ma: 16 Nm
  - Mb: 25.6 Nm
  - Mc: 47.5 Nm
- **Allowable Dynamic Moment**
  - Ma: 4.9 Nm
  - Mb: 6.8 Nm
  - Mc: 11.7 Nm
- **Overhang Load Length**
  - Ma: direction, 150mm or less
  - Mb/Mc: direction, 150mm or less

*See page A-39 for cables for maintenance.*
**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions/Weight by Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke</td>
</tr>
<tr>
<td>L</td>
</tr>
<tr>
<td>M</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>Weight (kg)</td>
</tr>
</tbody>
</table>

**2 Compatible Controllers**

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

- **Solenoid Valve Type**
  - AMEC-C-20I-AP-2-1
  - Easy-to-use controller, even for beginners
  - AC100V
  - 2.4A rated
  - 3 points

- **Splash-Proof Solenoid Valve Type**
  - ASEF-CW-20I-AP-2-0
  - Designed with same signal as solenoid valve, supports both single and double solenoid types.
  - DC24V
  - 2.5A max.
  - 4 points

- **Positioner Type**
  - ACON-20I-AP-2-0
  - Designed for feedbacks with no homing necessary with simple absolute types.
  - DC24V
  - 2.5A max.
  - 4 points

- **Safety-Compliant Positioner Type**
  - ACON-CG-20I-AP-2-0
  - Positioning is possible for up to 512 points
  - DC24V
  - 2.5A max.
  - 4 points

- **Pulse Train Input Type (Differential Line Driver)**
  - ACON-PL-20I-AP-2-0
  - Pulse train input type with differentiable line driver support
  - DC24V
  - 2.5A max.
  - 4 points

- **Pulse Train Input Type (Open Collector)**
  - ACON-PO-20I-AP-2-0
  - Pulse train input type with open collector support
  - DC24V
  - 2.5A max.
  - 4 points

- **Serial Communication Type**
  - ACON-SE-20I-AP-2-0
  - Dedicated to serial communication
  - DC24V
  - 2.5A max.
  - 4 points

- **Program Control Type**
  - ASEL-C-1-20I-AP-2-0
  - Programmed operation is possible
  - DC24V
  - 2.5A max.
  - 4 points

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* Adding a brake will increase the actuator’s overall length (L) by 24mm (37.3mm with the cable coming out from the end), and its weight by 0.3kg.


*2 When homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding objects.

*3 ME: Mechanical end  SE: Stroke end

* Reference position for calculating the moment Ma.

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**For Special Orders**

P. A-9

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**IAI**

RCA-SS5D 90