### RCS2-SA5D Specifications

#### Configuration
- **Series**: RCS2
- **Type**: SA5D
- **Encoder**: I: Incremental, A: Absolute
- **Motor**: 20: 200V Servo motor
- **Lead**: 12: 12mm
- **Stroke**: 50: 50mm
- **Rated Thrust (N)**: 33.3
- **Cable Length (mm)**: 6
- **Option**: None

*See page P-35 for explanation of each code that makes up the configuration name.

#### Lead and Load Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (W)</th>
<th>Lead Max. Load Capacity (N)</th>
<th>Rated Thrust (N)</th>
<th>Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCS2-SA5D-1</td>
<td>12</td>
<td>4</td>
<td>1</td>
<td>16.7</td>
</tr>
<tr>
<td>RCS2-SA5D-2</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>33.3</td>
</tr>
<tr>
<td>RCS2-SA5D-3</td>
<td>3</td>
<td>12</td>
<td>4</td>
<td>65.7</td>
</tr>
</tbody>
</table>

#### Stroke and Maximum Speed

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>Speed (Unit: mm/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>500</td>
<td>500</td>
</tr>
</tbody>
</table>

#### Encoder & Stroke List

- **Encoder Type**: Incremental, Absolute
- **Stroke (mm)**: 50, 100, 150, 200, 250, 300, 350, 400, 450, 500

#### Stroke Limit

- **Max. Stroke (mm)**: 500
- **Max. Speed (mm/s)**: 50

#### Option List

- **Option Code**: BE, BL, BR, NM, S
- **Standard Price**: ~

#### Cable List

- **Type**: Standard, Special Lengths, Robot Cable
- **Cable Symbol**: P (5m), M (3m), R (5m), ROBO Cylinder Slider Type
- **Standard Price**: ~

#### Actuator Specifications

- **Drive System**: Ball screw Ø10mm C10 grade
- **Positioning Repeatability**: ±0.02mm
- **Rated Motion**: 0.1mm or less
- **Base Material**: Aluminum (white alumite treated)
- **Allowable Static Moment**: Ma: 18.09 Nm, Mb: 26.89 Nm, Mc: 47.09 Nm
- **Allowable Dynamic Moment (r)**: Ma: 4.9N.m, Mb: 6.86 Nm, Mc: 11.7N.m
- **Overhang Load Length**: Ma: 150mm or less, Mb/Mc: 150mm or less
- **Ambient Operating Temp. (°C)**: 0 ~ 40°C

*For cables for maintenance, see page A-39.
### RCS2 ROBO Cylinder

#### Dimensions

![Dimensions Diagram]

- **Dimensions/Weight by Stroke**
  - **Stroke**: 50, 100, 150, 200, 250, 300, 350, 400, 450, 500
  - **Weight (kg)**: 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3

#### 3 Compatible Controllers

The RCS2 series actuators can operate with the controllers below. Select the controller according to your usage.

<table>
<thead>
<tr>
<th>Name</th>
<th>External View</th>
<th>Model</th>
<th>Description</th>
<th>No. 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>Positioner Mode</td>
<td></td>
<td>SCON-C-20 – NP-2-②</td>
<td>Positioning is possible for up to 512 points</td>
<td>512 points</td>
<td>Single-Phase AC 100V</td>
<td>360VA max.</td>
<td>—</td>
<td>— P547</td>
</tr>
<tr>
<td>Solenoid Valve Mode</td>
<td></td>
<td></td>
<td>Operable with same controls as solenoid valve.</td>
<td>7 points</td>
<td>Single-Phase AC 200V</td>
<td>When operating a 150W single-axis model</td>
<td>—</td>
<td>— P577</td>
</tr>
<tr>
<td>Serial Communication Type</td>
<td></td>
<td></td>
<td>Dedicated to serial communication</td>
<td>64 points</td>
<td>3-Phase AC 200V (3XEL-PQ only)</td>
<td></td>
<td></td>
<td>— P567</td>
</tr>
<tr>
<td>Pulse Train Input Control Type</td>
<td></td>
<td></td>
<td>Dedicated to Pulse Train Input</td>
<td>(・)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Control 1-2 Axis Type</td>
<td></td>
<td>SSEL-C-1-20 – NP-2-②</td>
<td>Programmed operation is possible Can operate up to 2 axes</td>
<td>2000 points</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Control 1-6 Axis Type</td>
<td></td>
<td>XSEL–3-1-20 – N1-EE2-④</td>
<td>Programmed operation is possible Can operate up to 6 axes</td>
<td>20000 points</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* For SSEL and XSEL, only applicable to the single-axis model.
  * ① is a placeholder for the encoder type (i: incremental, A: absolute).
  * ② is a placeholder for the power supply voltage (i: 100V, 2: single-phase 200V, 3: 3-phase 200V).
  * ③ is a placeholder for the XSEL type name (L, K, P, or Q).
  * ④ is a placeholder for the power supply voltage (i: 100V, 2: single-phase 200V, 3: 3-phase 200V).