Step 1: Select the application from the list and follow that column down.

Step 2: Confirm the rated starting capability of the soft start against the application. Max Starts per Hour

---

**SR22 Soft Starters – Selection – Step 3 (of 4)**

- **Step 3:** Consider the operating environment and make the model selection on a higher horsepower rating.

**SR22 Soft Starters – Selection – Step 4 (of 4)**

- **Step 4:** Select SR22 model based on your motor Voltage and Horsepower

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**Online Product Selection Tool:**
https://www.automationdirect.com/selectors/softstarters

**SR22 Internal Overcurrent Trip Curve**

The internal overcurrent trip of the soft starter does not replace the required external overcurrent device.

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**SR22 Max UL Overcurrent Protection**

- A separate overload protection device with a rating corresponding to the applicable trip class must be used with the SR22.
- The SR22 is not suitable for very high inertia loads such as centrifuges or loaded crushers with start times > 30s.
- **DO NOT** use the Class 2 rating when there is a possibility of the motor starting under a heavy load.

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**Stellar® SR22 Compact Soft Starters**

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**SR22 Soft Starters – Selection – Steps 1 & 2 (of 4)**

- **Step 1:** Select the application
- **Step 2:** Confirm the rated starting capability

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**Typical Applications**

<table>
<thead>
<tr>
<th>Standard Duty</th>
<th>Medium Duty</th>
<th>Heavy Duty</th>
<th>Light Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Applications</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Default</td>
<td>Ball mill</td>
<td>Pump - Positive</td>
<td></td>
</tr>
<tr>
<td>Agilator</td>
<td>Bow Thruster - Loaded</td>
<td>Compressor - Centrifugal</td>
<td></td>
</tr>
<tr>
<td>Bow Thruster - Zero Pitch</td>
<td>Pump - Submersible</td>
<td>Compressor - Reciprocating</td>
<td></td>
</tr>
<tr>
<td>Centrifugal</td>
<td>Pump - Submersible</td>
<td>Compressor - Rotary Screw</td>
<td></td>
</tr>
<tr>
<td>Conveyor</td>
<td>Unitary</td>
<td>Displacement Rotary</td>
<td></td>
</tr>
<tr>
<td>Loaded</td>
<td>Conveyor - Loaded</td>
<td>Conveyor - Loaded</td>
<td></td>
</tr>
<tr>
<td>Fan - Low Inertia &lt; 85A</td>
<td>Fan - Loaded</td>
<td>Fan - Loaded</td>
<td></td>
</tr>
<tr>
<td>Feeder - screw</td>
<td>Fan - Loaded</td>
<td>Fan - Loaded</td>
<td></td>
</tr>
<tr>
<td>Lathe machines</td>
<td>Fan - Loaded</td>
<td>Fan - Loaded</td>
<td></td>
</tr>
<tr>
<td>Mixer - Unloaded</td>
<td>Fan - Loaded</td>
<td>Fan - Loaded</td>
<td></td>
</tr>
</tbody>
</table>

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**SR22 Overcurrent Trip Curve**

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**UL Maximum Overcurrent Protection Devices**

For 5kA @ 480V Short Circuit Rating

### Soft Starter Model Number

<table>
<thead>
<tr>
<th>Maximum Non-Time-Delay Trip Rating</th>
<th>Circuit Breaker *</th>
</tr>
</thead>
<tbody>
<tr>
<td>*<em>Fuse <em>/ Class J or T (600V rated)</em></em></td>
<td><strong>(600V rated)</strong></td>
</tr>
<tr>
<td>15A</td>
<td>15A</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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* Maximum trip ratings are for non-time-delay overcurrent protection devices.
- Motor branch circuit protection must be based on MOTOR Full Load Current, and must comply with applicable local electrical codes. The 2008 NEC section 430.52 recommends a maximum of 175% (up to 225% absolute maximum) of motor FLC for time-delay fuses. (Class CC time-delay fuses are permitted up to the non-time-delay fuse maximum rating.)
**Stellar® SR22 Compact Soft Starters**

### SR22 Dimensions
Dimensions = mm [in]

**Frame Size 45 (SR22-05 – SR22-16)**

**Frame Size 55 (SR22-22 – SR22-40)**

### SR22 – PLC & I/O Compatibility

**Product Line** | **Module Type** | **Module Numbers**
--- | --- | ---
**CLICK** | PLC | C0-004AR-D, C0-004DR-D, C0-004DR-D, C0-024D2-D, C0-024D2-D

**Productivity3000**
- DC Output: P3-08ND3S, P3-16ND3, P3-32ND3, P3-64ND3
- Relay Output: P3-08TRS, P3-16TR, P3-08TRS-1

**DL05**
- PLC: D0-05AR, D0-05DR, D0-06DR-D

**DL06**
- PLC: D0-06AR, D0-06D2, D0-06D2-D, D0-06DR, D0-06DR-D

**DL05/DL06**
- DC I/O: D0-07CDR
- DC Output: D0-10TD2, D0-16TD2, D0-08TR, F0-04TRS

**DL105**
- PLC: F1-130-DR, F1-130-DR-D

**DL205**
- DC I/O: D2-08CDR
- DC Output: D2-08TD2, D2-16TD2-2, D2-32TD2, F2-16TD2P
- Relay Output: D2-04TRS, D2-08TR, D2-12TR, F2-08TR, F2-08TRS

**DL305**
- DC Output: D3-08TD2, D3-16TD2
- Relay Output: D3-08TR, D3-16TR

**DL405**
- DC Output: D4-16TD2, D4-32TD2
- Relay Output: D4-08TR, D4-16TR, F4-08TRS-1, F4-08TRS-2

**Terminator I/O**
- DC Output: T1K-08TD2-1, T1K-16TD2-1
- Relay Output: T1K-08TR, T1K-08TRS, T1K-16TR

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For the latest prices, please check AutomationDirect.com.