Medium-voltage, solid-state, reduced-voltage controllers

SIMOVAC-SSRVS™ non-arc-resistant and SIMOVAC-SSRVS-AR™ arc-resistant

Description
A leader in the design of medium-voltage controllers, Siemens offers its advanced medium-voltage controllers (arc-resistant or non-arc-resistant) with enhanced safety for your personnel. Siemens combined its knowledge as a leading manufacturer of motors worldwide and as a world-class supplier of medium-voltage controller innovation and technologies to deliver flexibility and reliability.

Features and benefits:
- 2.4 kV and 4.16 kV system voltage ratings
- Fixed-mounted 400 A vacuum contactor (optional 400 A plug-in for main contactor)
- 400 A non-load-break isolating switch
- Available non-arc-resistant and arc-resistant versions
- Arc-resistant design tested for internal arcing to IEEE C37.20.7-2007, up to 50 kA, 0.5 s, accessibility type 2B
- UL 347 6th Edition (or C-UL) available
- Isolating switch with visible indication through viewing window to verify that the power cell is isolated from line side – no need to open panel door
- Isolating switch mechanically interlocked with the access door to prevent user access to primary compartment when isolation switch is closed
- Low-voltage compartment isolated from the medium-voltage compartment
- All components front accessible, facilitating routine inspection or parts replacement
- Current-limiting fuses, contactor assembly and isolating switch assembly are easily removed from the enclosure
- Unique starting and stopping characteristics
- Advanced motor protection package
- User-friendly, easy setting, and operation
- Low-voltage test mode – no special tools required
- Current limit
- Pump control characteristics – preventing over pressure during starting and water hammer during stopping
- Torque control – the optimum starting characteristics for complex drive system
- Dual adjust – two start/stop characteristics for varying loads and two-speed motors
- Pulse start (kick start) with adjustable level and time tacho/encoder feedback (option)
- RS 485 communication; Profibus communication.

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### Technical ratings

<table>
<thead>
<tr>
<th>System design voltage</th>
<th>Enclosed continuous current rating</th>
<th>Interrupting capacity</th>
<th>Motor horsepower (HP) rating (three-phase)</th>
<th>Maximum motor fuse rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>kV</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>2.4</td>
<td>Up to 400</td>
<td>63</td>
<td>1,750</td>
<td>24R</td>
</tr>
<tr>
<td>4.16</td>
<td>Up to 400</td>
<td>63</td>
<td>2,500(^a)</td>
<td>24R</td>
</tr>
</tbody>
</table>

### Dimensions in inches (mm)

<table>
<thead>
<tr>
<th>Type</th>
<th>Width (W)</th>
<th>Height (H)</th>
<th>Depth (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 400 A</td>
<td>36.0 (914)</td>
<td>95.0 (2,413)</td>
<td>30 (762)</td>
</tr>
</tbody>
</table>

### Footnotes:

1. Add 17.0" (432 mm) for height of SIMOVAC-SSRV-AR arc-resistant controller (total 112.0" (2,845 mm)).
2. Add 10.5" (257 mm) for depth of SIMOVAC SSRV-AR arc-resistant controller (total 40.5" (1,029 mm)).
3. Weights are for one SSRVS controller in a single section.
4. Add 455 lbs (205 kg) for arc-resistant controller.
5. Add 6.0" (152 mm) for width per section for outdoor (non-arc-resistant).
6. Add 850 lbs (386 kg) for weight per section for outdoor (non-arc-resistant).
7. For non-arc-resistant with 4,000 A main bus, add 7.25" (184 mm) to the overall height and 75 lbs (35 kg) to the total weight per section.
8. For horsepower greater than 2,500, please consult factory.