

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

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

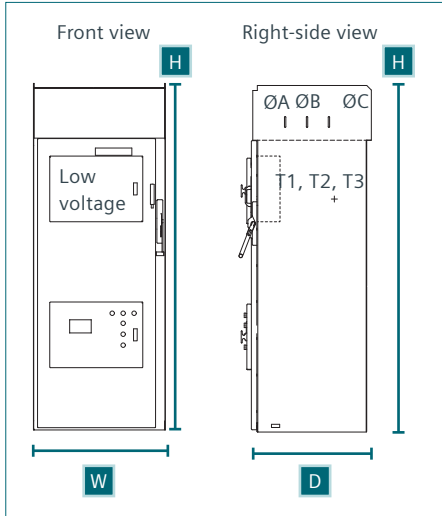
Description

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 tachometer feedback (option)
- RS 485 communication; Profibus communication.

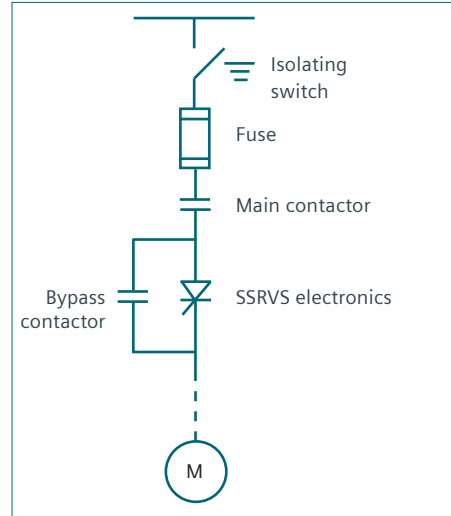
| Technical ratings | | | | |
|-----------------------------|--|-----------------------|--------------------|---|
| System design voltage kV | Enclosed continuous current rating A | Interrupting capacity | | Motor horsepower (HP) rating (three-phase) |
| | | Fused | class E2 kA | Induction motors |
| 2.4 | Up to 400 | 63 | | 24R |
| 4.16 | Up to 400 | 63 | 2,500 ⁸ | 24R |



| Dimensions in inches (mm) ⁵ | |
|--|------------------------|
| Type | Width (W) |
| Up to 400 A | 36.0 (914) |
| Height (H) ^{1,6} | Depth (D) ² |
| 95.0 (2,413) | 30 (762) |
| Weight in lbs (kg) ^{3,4} | |
| 1,700 (771) | |



| Item | Description |
|------|--|
| A | Exhaust plenum connection (arc-resistant version) |
| B | Cable entry (top or bottom entry) |
| C | Pressure relief channel (arc-resistant version, not shown) |
| D | Main bus compartment |



| Item | Description |
|------|--------------------------------------|
| E | Viewing window for disconnect switch |
| F | Low-voltage panel |
| G | Disconnect switch operating handle |
| H | SSRVS electronics low-voltage panel |

Footnotes:

- Add 17.0" (432 mm) for height of SIMOVAC-SSRV-AR arc-resistant controller (total 112.0" (2,845 mm)).
- Add 10.5" (257 mm) for depth of SIMOVAC SSRV-AR arc-resistant controller (total 40.5" (1,029 mm)).
- Weights are for one SSRVS controller in a single section.
- Add 455 lbs (205 kg) for arc-resistant controller.
- Add 6.0" (152 mm) for width per section for outdoor (non-arc-resistant).
- Add 850 lbs (386 kg) for weight per section for outdoor (non-arc-resistant).
- 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.
- For horsepower greater than 2,500, please consult factory.