



SIEMENS

Ingenuity for life

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

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

Description

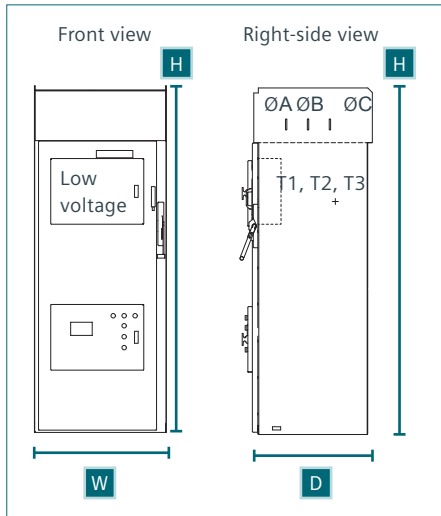
A leader in the design of medium-voltage controllers, Siemens offers its advanced medium-voltage controllers (arc-resistant or non-arc-resistant) with enhanced safety for your personnel. Siemens combined its knowledge as a leading manufacturer of motors worldwide and as a world-class supplier of medium-voltage 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 (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 tach/encoder feedback (option)
- RS 485 communication; Profibus communication.

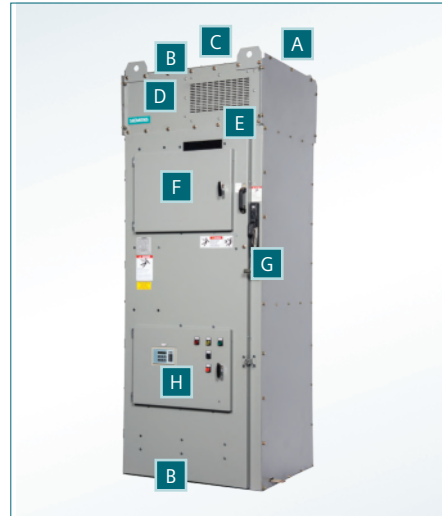
Technical ratings

| System design voltage kV | Enclosed continuous current rating A | Interrupting capacity | | Maximum motor fuse rating |
|-----------------------------|--|-----------------------|---|---------------------------|
| | | Fused class E2 kA | Motor horsepower (HP) rating (three-phase) Induction motors | |
| 2.4 | Up to 400 | 63 | 1,750 | 24R |
| 4.16 | Up to 400 | 63 | 3,250 | 24R |

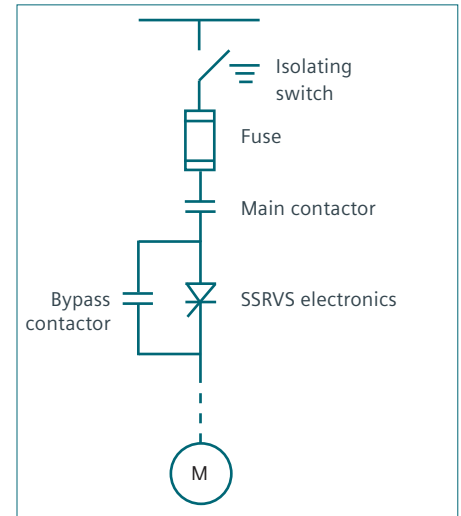


Dimensions in inches (mm)⁵

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



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.

Published by Siemens Industry, Inc. 2019.

Siemens Industry
7000 Siemens Road
Wendell, North Carolina 27591

For more information, including service or parts,
please contact our Customer Support Center.
Phone: 1-800-333-7421

www.usa.siemens.com/simovac

Article No. EMM5-B40069-02-4AUS

Printed in U.S.A.

© 2019 Siemens Industry, Inc.

The technical data presented in this document is based on an actual case or on as-designed parameters, and therefore should not be relied upon for any specific application and does not constitute a performance guarantee for any projects. Actual results are dependent on variable conditions. Accordingly, Siemens does not make representations, warranties, or assurances as to the accuracy, currency or completeness of the content contained herein. If requested, we will provide specific technical data or specifications with respect to any customer's particular applications. Our company is constantly involved in engineering and development. For that reason, we reserve the right to modify, at any time, the technology and product specifications contained herein.