

SIMOVAC-RVAT™ NON-ARC-RESISTANT AND SIMOVAC-RVAT-AR™ ARC-RESISTANT MEDIUM-VOLTAGE

Reduced-voltage autotransformer controllers

Up to 4.16 kV, 63, kA, 720 A usa.siemens.com/simovac

Features and benefits:

- Up to 4.16 kV operating voltage
- Fixed-mounted 400 A or 720 A vacuum contactor (optional 400 A plug-in for main contactor)
- · 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, up to 63 kA, 0.5 s, accessibility type 2B
- UL (or C-UL) available
- Isolating switch with visible indication through viewing window to verify that the

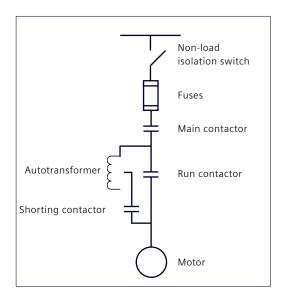
- power cell is isolated from line side no need to open panel door
- Isolating switch mechanically interlocked with the access doors to prevent user access to primary compartment when isolation switch is closed
- Low-voltage compartment isolated from the medium-voltage compartment
- All components front accessible, facilitating routine inspection or parts replacement
- Current-limiting fuses, contactor assembly and isolating switch assembly are easily removed from the enclosure

- Delivers more torque per incoming ampere than the solid state reduced voltage (SSRV) motor controller
- Low-voltage test mode;
 no special tools required
- Current limit
- Trained and certified local personnel in U.S. available for start-up, commissioning, and maintenance.



Description

A leader in the design of medium-voltage controllers, Siemens offers reduced-voltage, autotransformer non-reversing controller in addition to its solid-state, reduced-voltage (SSRV) controller. This traditional electromechanical starting approach is rated for NEMA medium-duty applications. Motor data must be provided when ordering to ensure that the autotransformers are sized properly.



Legal Manufacturer

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Technical ratings

Characteristics	Unit	Voltage class		
System design voltage	kV	2.4	4.16	
Enclosed continuous current ¹	A	400 / 720	400 / 720	
Interrupting capacity kA	Fuse class E2 kA	Up to 63	Up to 63	
Motor horsepower rating (three-phase) ⁴	Induction type motor	Up to 1,500 / up to 3,000	Up to 2,500 / up to 5,000	
Maximum motor fuse rating		24R ² / 57X ³	24R ² / 57X ³	

Footnotes:

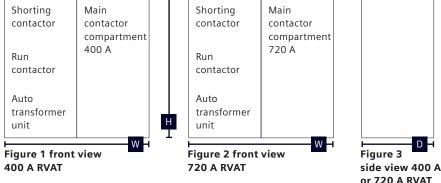
- 1. Refer to controller maximum current capability table for further detail.
- 2. With 24R fuse, interrupting capacity is 50 kA.
- 3. With 48X or 57X, interrupting capacity is 50 kA.
- 4. For horsepower greater than shown, please consult factory.

Autotransformer controller starting characteristics

Autotransformer tap settings	% motor voltage	% motor current	% line current	% torque
50% tap	50	50	28	25
65% tap	65	65	45	42
80% tap	80	80	67	64

Dimensions in inches (mm)

Туре	Width (W)³	Height (H) ^{1,7,9}	Depth (D) ^{2,6}	Configuration	Weight in lbs (kg) non-arc-resistant	Weight in lbs (kg) arc-resistant
400	72 (1,829)	80 (2,038)5	30 (762)	1, 3	4,465 (2,025)	5,145 (2,334)
720	84 (2,134)	95 (2,413)	30 (762)	2, 3	6,283 (2,850)	6,963 (3,158)



Footnotes:

- Add 17.0" (432 mm) for height of SIMOVAC-RVAT-AR arc-resistant controller (total 112.0" (2,845 mm)).
- Add 10.5" (267 mm) for depth of SIMOVAC-RVAT-AR arc-resistant controller (total 40.5" (1,029 mm)).
- 3. Add 6.0" (152 mm) for width per section for outdoor (non-arc-resistant).
- 4. Add 850 lbs (386 kg) for weight per section for outdoor (non-arc-resistant).
- 5. Height increases to 107.3" (2,725 mm) for outdoor (non-arc-resistant).
- 6. Depth increases to 37.4" (950 mm) for outdoor (non-arc-resistant).
- 7. Add 13.0" (330 mm) the height for horizontal bus bar compartment.
- 8. Consult factory for other ratings.
- 9. 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.

