

# Pre-wired ST Type Automatic Transfer Switch with built in load center

## 100 Amp, 250 VAC, NEMA 1

### Catalog numbers:

ST100R10C – 10 circuit switch

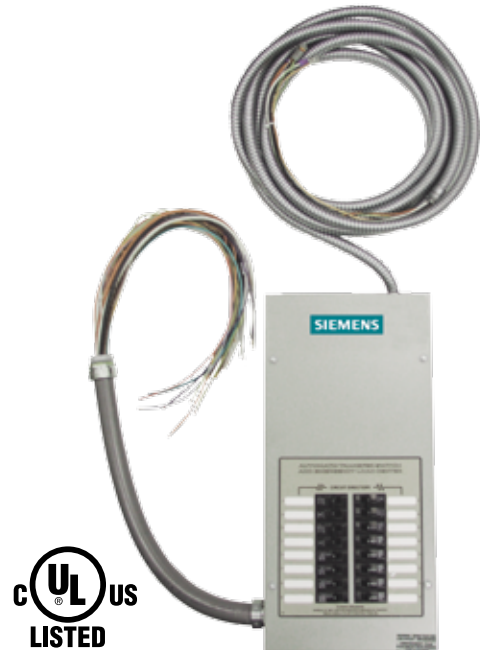
ST100R12C – 12 circuit switch

ST100R14C – 14 circuit switch

ST100R16C – 16 circuit switch

### Features:

- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 160 millisecond transfer time.
- Dual coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 1 (indoor rated) enclosure is standard on the 100 amp switch.



### Description

Siemens ST type switches are designed to operate with the digital Nexus controller used on air-cooled generators. This 100 amp transfer switch has an integrated load center for picking up the emergency circuits. It is especially useful where the main service is large and only a portion of the building load will be served by the generator. It is available with a built in 10, 12, 14 or 16 circuit load center to supply only those circuits that are essential during an emergency. All standard and load center transfer switches are UL and CUL Listed and suitable for use as optional standby systems (NEC702).

### Standard features

All ST type switches are housed in a steel NEMA 1 enclosure, with electrostatically applied and baked powder paint. The Heavy Duty Siemens Contactor is a UL recognized device, designed for years of service. The control at the generator handles all the timing, sensing and exercising functions.

### Contractor rating

The transfer switch contactor is rated at 250 VAC and is available in a single phase configuration only.

Data Sheet

[www.usa.siemens.com/generators](http://www.usa.siemens.com/generators)

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## Functions

All Timing and sensing functions originate in the generator controller

Utility voltage drop-out .....	<60%
Timer to generator start .....	10 second factory set, adjustable between 10-30 seconds
Engine warm up delay .....	5 seconds
Standby voltage sensor .....	60% for 5 seconds
Utility voltage pickup .....	>80%
Re-transfer time delay .....	15 seconds
Engine cool-down timer .....	60 seconds
Exerciser .....	12 minutes every 7 days

The transfer switch can be operated manually without power applied.

## Specifications

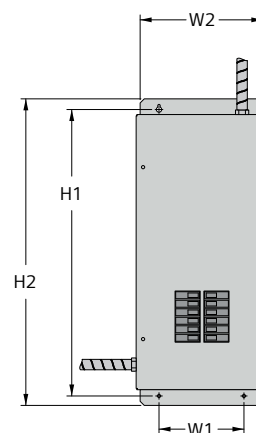
Catalog number	ST100R10C	ST100R12C	ST100R14C	ST100R16C
Voltage	240, 1 $\phi$	240, 1 $\phi$	240, 1 $\phi$	240, 1 $\phi$
Breakers included				
Q250, 50A, 240V	–	–	–	1
Q240, 40A, 240V	–	1	1	1
Q230, 30A, 240V	1	1	–	–
Q220, 20A, 240V	1	–	1	1
Q120, 20A, 120V	3	3	6	5
Q115, 15A, 120V	3	5	4	5
Phase	1			
Rated AC frequency	60 Hz			
Enclosure material	Steel			
Enclosure type	NEMA 1			
Unit weight (lbs./kilos)	57/25.9	60.8/27.5	64/29	68/30.8
Withstand rating (Amps)	10,000			
Lug range	2/0 - #14			

### Terminal wire ranges

ATS Rated Amps	Switch terminal	Neutral lug/stud	Ground lug
100A 2-Pole UL	1 x 1/0-12	1 x 3/8-16 Stud	1 x 2/0-14

### Mechanical dimensions (inches/mm)

Current rating	No. of Poles	Height		Width		Depth
		H1	H2	W1	W2	
100 UL Listed	2	26.5/673.1	29.25/742.9	8.14/206.7	12.5/317.5	7/177.8



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