

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

## 100 Amp, 250 VAC, NEMA 1

### Catalog numbers:

ST100R10C – 10 circuit switch

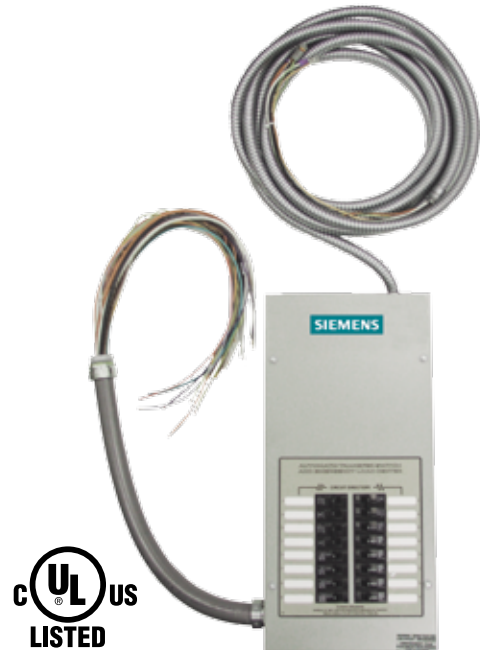
ST100R12C – 12 circuit switch

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

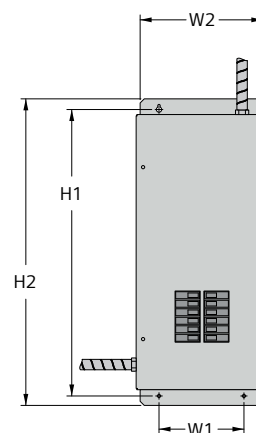
| Catalog number           | ST100R10C     | ST100R12C     | ST100R14C     | ST100R16C     |
|--------------------------|---------------|---------------|---------------|---------------|
| Voltage                  | 240, 1 $\phi$ | 240, 1 $\phi$ | 240, 1 $\phi$ | 240, 1 $\phi$ |
| Breakers included        |               |               |               |               |
| 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 |



Siemens Industry, Inc.  
Building Technologies Division  
5400 Triangle Parkway  
Norcross, GA 30092

800-241-4453  
info.us@siemens.com

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

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