



# RSZ Series 100/200 Amp Automatic Transfer Panels Residential & Light Commercial Standby

Description	Part #	Rating	Voltage	Enclosure
RSZ 100-5418	0306-5098	100 Amp	120/240V, 1 phase	1
RSZ 200-5420	0306-5099	200 Amp	120/240V, 1 phase	1
RSZ 100-5419	0306-5100	100 Amp	120/240V, 1 phase	3R
RSZ 200-5421	0306-5101	200 Amp	120/240V, 1 phase	3R



## Features

- UL 1008 Listed/CSA-approved
- Mechanically Interlocked Contactor
- Fully Automatic Control
- In-phase Monitor
- Automatic 1.25-Amp Regulated Battery Charger
- NEMA 1 or 3R Enclosure
- Includes Automatic Exerciser Clock

## Application Flexibility

The RSZ Automatic Transfer Panel combines reliability and flexibility in a small, economical package for transferring loads between the utility and generator set. The RSZ Transfer Panels work together with the Onan RS series generators. The control monitors utility and emergency standby power generator set power. When utility power fails or is unsatisfactory, the control starts the generator set and transfers the load to the generator set. The transfer panel immediately senses when utility power is restored. It automatically transfers back to utility power, shutting down the generator and instantly resetting itself for the next power interruption. No action is required by the homeowner.

## Enclosures

The transfer panel and control are mounted in a single door NEMA 1 or 3R enclosure.

## Positive Interlocking

Mechanical contactor interlocking prevents simultaneous closing of normal and emergency contacts.

## Microprocessor Control

Reliable, microprocessor based control system with undervoltage monitoring of the utility and voltage and frequency sensing of the generator, four standard time delays.



## Agency Approvals

- Complies with NEMA ICS 10
- Conforms to applicable requirements for NFPA 70, 99, and 110
- UL 1008, CSA, IEC Listed to 240 VAC 50/60 Hz

## Transfer Panel Mechanism

### Transfer Action

Independent break-before-make action positively prevents dangerous source-to-source connections.

### Mechanical Interlock

Prevents simultaneous closing of normal and emergency contacts.

## Environmental

- Operating temperatures: -4° F (-20° C) to 149° F (65° C)
- Storage temperature: -22° F (-30° C) to 167° F (75° C)
- Humidity: 95% relative humidity, non-condensing

## Control Features

Feature	Benefit
<b>Start Time Delay:</b> 5 sec	Prevents nuisance generator set starts during momentary utility power variations.
<b>Transfer Time Delay:</b> 20 sec	Allows generator set to stabilize before load is applied.
<b>Retransfer Time Delay:</b> 5 min	Prevents needless power interruption if return of utility power is momentary.
<b>Stop Time Delay:</b> 5 min	Allows gradual generator set cool down.
<b>Undervoltage Sensing:</b> of the utility source - Pickup: 90% - Dropout: 80% <b>Voltage and Frequency Sensing:</b> of the generator source - Voltage: 90% - Frequency Pickup: 95%	Provides reliable sensing of utility power to start the generator set in brownout conditions. Reliably maintains connection through motor starting voltage dips.
<b>In-phase Monitor</b>	Activate or deactivate feature from keypad. Allows close in-phase transfers between sources.
<b>Bypass Timer</b>	Pushbutton provides the ability to bypass all transfer timers.
<b>Timing/In-phase LED</b>	Indicates status of timer and in-phase transfer operation.
<b>Automatic Exerciser Clock</b>	User enabled, preset 10 minute generator exerciser. Selectable 7, 14, 21, or 28 day repeat. With or without load transfer.

\*All time delays are fixed.

### UL 1008 Withstand and Closing Ratings

Switch Amp Rating	Coordinated Molded Case Breakers	Current Limiting Fuse *
100 A	30,000	200,000
200A	30,000	200,000

\* Consult factory for application information

### Lug Configuration

Switch Amp Rating	Size
100 A	1 - #8 to 3/0 AWG per pole
200 A	1 - #6 to 250 MCM per pole

### Transfer Panel in NEMA 1 or NEMA 3R Enclosure

Do not use for construction purposes. Refer to outline drawing for all construction details.

Switch Amp Rating	Height (H) in (mm)	Width (W) in (mm)	Depth in (mm)	Weight lb. (kg)	Outline Drawing No.
100 NEMA1	24.0 (610)	18.0 (457)	10.0 (254)	50.6 (23.0)	0500-3498
200 NEMA1	24.0 (610)	18.0 (457)	10.0 (254)	50.6 (23.0)	0500-3498
100 NEMA 3R	24.0 (610)	18.5 (470)	10.5 (267)	51.4 (23.4)	0500-3500
200 NEMA 3R	24.0 (610)	18.5 (470)	10.5 (267)	51.4 (23.4)	0500-3500

See your distributor for more information



Cummins Power Generation  
1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
1-800-888-ONAN  
Fax: 763-574-8087  
www.onan.com



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**Warning:** Backfeed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open. Standby Rating based on: Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271, and BS5514.) Nominally rated. (See T-030 document for more information.)