

Service entrance transfer switch RSS residential



> Specification sheet

100 - 200 Amp

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Description

The Service Entrance RSS Automatic Transfer Switch is integrated with the RS12000 genset. The Service Entrance RSS residential products are Listed to UL 1008, the Standard for Transfer Switch Safety. The switch and genset combination is specifically designed for a simplified, quicker installation.

These UL 1008 Service Entrance rated RSS Switches are suitable for standby power systems in residential and light commercial applications. The Cummins Onan residential products adhere to National Electrical Code (NEC) and National Fire Protection Association (NFPA) requirements.

The Service Entrance RSS transfer switch monitors utility power 24 hours a day and 7 days a week. When utility power becomes unsatisfactory or fails; the genset is signaled to start, then automatically transfers the load. When stable utility voltage returns, the transfer switch will automatically switch electrical load from the generator to the utility. No action is required by the home owner.



All switches are UL 1008 Listed with UL Type Rated cabinets and UL Listed CU-AL terminals.



All switches comply with NEMA ICS 10.



All switches comply with NFPA 70, 99 and 110.

Features

Mechanically interlocked contactor

- Long-life, high pressure, silver alloy contact resists burning and pitting
- A powerful and economical solenoid drives the mechanism

UL 489 Listed circuit breaker

- Square D

Solid bus bar connection

- Between circuit breaker and transfer switch

Battery charger

- Integrated, automatic 2 amp regulated charger
- Simplifies installations and reduces overall installation costs

Neutral and ground bar

- Fully rated
- Bonding jumper on neutral and ground
- Silver plated copper ground and neutral bus

Ease of connection

- Solderless screw type terminals for external power connections

Transfer switch mechanism



- A powerful and economical solenoid powers RSS Transfer Switches.
- Independent break-before-make action is common for 2-pole.
- Mechanical interlock prevents simultaneous closing of normal and emergency contacts.
- Electrical interlocks prevent simultaneous closing signals to normal and emergency contacts and interconnection of normal and emergency sources through the control wiring.
- Long-life, high pressure, silver alloy contacts resist burning and pitting. Contacts are mechanically held in both normal and emergency positions for reliable, quiet operation.

Specifications

Voltage rating	Transfer switches up to 240 VAC, 50 Hz or 60 Hz.
Amperage rating	Transfer switches rated for 100 and 200 continuous amperes.
Arc interruption	Multiple leaf arc chutes cool and quench the arcs. Barriers prevent interphase flashover.
Neutral bar	A full current-rated neutral bar is standard on enclosed 2-pole transfer switches.
Auxiliary contacts	Two contacts rated at 5A continuous at 100 VAC or 2.5A continuous at 200 VAC (one for each source) are provided for customer use. Wired to terminal block for easy access.
Storage temperature	-25° C (-13° F) to 55° C (131° F)
Humidity	Up to 90% @ 20°C
Altitude	Up to 2,000 m (6,561 ft) without derating
Total transfer time (source-to-source)	Will not exceed 100 msecs with normal voltage applied to the actuator.
Manual operation handles	Transfer switches are equipped with a removable operating handle which allows operation during servicing in order to facilitate troubleshooting with sources of power disconnected

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UL 1008 withstand and closing ratings

Transfer switch ampere	Coordinated molded case breakers
100 A	10,000
200 A	10,000

Enclosures

The transfer switch is mounted in a lockable enclosure. Wire bend space complies with 2008 NEC.

Dimensions - transfer switch in UL type 3R enclosure

Amp rating	Height		Width		Depth		Weight		Outline drawing
	in	Mm	in	mm	in	mm	lb	kg	
100	23.3	592	20.2	513	7.9	200	58	26	0500-4824
200	23.3	592	20.2	513	7.9	200	58	26	0500-4824

Transfer switch lug capacities

Amp rating	Size		
	Utility	Load, neutral and generator	Ground
100	#4 AWG - 300 MCM CU/AL	#14 AWG - 2/0 CU/AL	#14 AWG - 1/0 CU/AL
200	#4 AWG - 300 MCM CU/AL	#6 AWG - 300 MCM CU/AL (transfer switch and neutral) #14 AWG - 2/0 CU/AL (generator)	#14 AWG - 1/0 CU/AL

Submittal details

Description	Part #	Rating	Voltage	Enclosure
RSS100-6868	0306-5301	100 Amp	120/240V, 1 phase	3R
RSS200-6869	0306-5312	200 Amp	120/240V, 1 phase	3R

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