

Integrated RA series Transfer Switch



The integrated version of the RA series includes 20 spaces for breakers and a transfer switch in one enclosure. These products are Listed to UL 67 and CSA C22.2 No.29, and are UL1008 compliant. The switch assembly and generator set combination are specifically designed for a simplified, quicker installation.

This UL/CSA switch is suitable for standby power systems in residential and light commercial applications. This product adheres to National Electrical Code (NEC) and National Fire Protection Association (NFPA) requirements.

This switch monitors utility power 24 hours a day and 7 days a week. When utility power becomes unsatisfactory or fails; the generator set 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.

Features

Mechanically interlocked contactor

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

Neutral and ground bar

- Fully rated
- Silver plated copper ground and neutral bus

Ease of installation

- Solderless screw type terminals for external power connections
- Mount flush between wall studs or on wall surface

Integrated branch circuit breaker panel

- 20 spaces, allows 24 circuits with 4 tandem breakers
- Square D, QO series breaker compatible.

Transfer switch mechanism



- A powerful and economical solenoid powers RA 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	100A 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.
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.
Operating temperature	-20° C (-4° F) to 60° C (140° F)
Load center	20 spaces, 24 circuit. Compatible with Square D QO branch circuit breakers
Storage temperature	-30° C (-22° F) to 70° C (158° F)
Humidity	5-95% non-condensing
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

UL/CSA withstand and closing ratings

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

Enclosures

Wire bend space complies with 2017 NEC.

Dimensions - transfer switch in UL type 1 enclosure

Model and Amp rating	Height		Width		Depth		Weight		Outline drawing
	in	Mm	in	mm	in	mm	lb	kg	
100 A	38.0	965	14.25	342	4	102	40	18.1	A051C991

Transfer switch lug capacities

Model and Amp rating	Size
100A	#6 AWG to 2/0 CU/AL

Submittal details

Description	Part #	Rating	Voltage	Enclosure
RA112L1	A051C991	100 A	120/240 V 1 phase	UL type 1

Certifications



UL 67 Listed and UL 1008 compliant.
Rated cabinets and UL Listed CU-AL
terminals.



All switches comply with NEMA ICS
10.



All switches comply with NFPA 70.



All switches comply with CSA 22.2
No.29



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