

Pre-Wired Switch

Pre-Wired Automatic Transfer Switch with Built-In Load Center



240 VAC, NEMA 1

Model RTG10EZA1 – 50 Amp, 10 Circuit Switch
Model RTG12EZA1 – 50 Amp, 12 Circuit Switch
Model RTG16EZA1 – 100 Amp, 16 Circuit Switch



*Built in the USA using domestic and foreign parts

DESCRIPTION

The Generac pre-wired switch is designed to operate with 8-17 kW air-cooled generators. This 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 or 16-circuit load center to supply only those circuits that are essential during an emergency. All standard and load center transfer switches are CUL Listed and suitable for use in optional standby systems (NEC702).

STANDARD FEATURES

All pre-wired switches are housed in a steel NEMA 1 enclosure, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing and exercising functions. Multi listed for use with 1" standard, tandem*, GFCI and AFCI breakers from Siemens, Murray, Eaton and Square D for the most flexible and cost effective install.

* 16-circuit only

CONTACTOR RATING

The transfer switch contactor is rated at 240 VAC and is available in a single phase configuration only.



50-100 Amps

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 2-1500 seconds by a qualified dealer*
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
Auxiliary lock out contact.....	Lock out a single load or annunciate generator transfer status

The transfer switch can be operated manually without power applied.
 *When used in conjunction with units utilizing Evolution™ controls

Specifications

Model	RTG10EZA1	RTG12EZA1	RTG16EZA1
Voltage	120/240, 1Ø	120/240, 1Ø	120/240, 1Ø
Amps	50	50	100
Circuits, 50A, 240V	–	–	1
40A, 240V	–	1	1
30A, 240V	1	1	–
20A, 240V	1	–	1
20A, 120V	3	3	5
15A, 120V	3	5	5
Phase	1		
Rated AC Frequency	60 Hz		
Enclosure Material	Steel		
Enclosure Type	NEMA 1		
Withstand Rating (Amps)	10,000		
Lug Range	1/0 - #14		
Load Transition Type	Open Transition		
30' Whip Conductor Gauges (Hot, Neutral, Ground, Control)	8, 8, 10, 18		6, 6, 8, 18
Tandem Breaker Capabilities	None		8 Tandems

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, 240 VAC contactors.
- 30 millisecond transfer time.
- Dual coil (100A) and single coil (50A) designs.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 1 (indoor rated) enclosure is standard.
- 5 Year Limited Warranty.

Dimensions and Wire Ranges

Mechanical Dimensions							
Amps	Height			Width			Depth
	H1	H2	H3	W1	W2	W3	
50*	18.5 in.	22.5 in.	22 in.	10.5 in.	15.4 in.	14.4 in.	3.8 in
	470 mm	571.8 mm	558.8 mm	266.7	392 mm	366 mm	97.5 mm
100	23.5 in.	26.4 in.	N/A	8.3 in.	12.6 in.	N/A	6.3 in.
	597 mm	671.7 mm	N/A	211 mm	320.7 mm	N/A	159.6 mm

*Note: The 50 Amp switch is flush mountable. H1 and W1 refer to mounting hole spacing. H2 and W2 are cover dimensions. H3 and W3 (not shown in diagram) are the enclosure dimensions without cover.

Wire Ranges			
Amps	Conductor Lug	Neutral Lug	Ground Lug
50	1/0 - #14	2/0 - #14	2/0 - #14
100	2/0 - #14	2/0 - #14	2/0 - #14

