

Altronix Circ1ATS High Voltage AC Automatic Transfer Switch Installation Guide

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Overview

Altronix Circ1ATS is a High Voltage Redundant automatic transfer switch that can be added to any Altronix power supply with a high voltage input. This unit accepts connections from two (2) Independent High Voltage AC sources (Primary and Secondary) and provides a single redundant High Voltage AC Output. If AC Power is lost on the Primary input, the Circ1ATS automatically transfers to the Secondary AC Power input without delay, ensuring that

system security is maintained.

Specifications

Input

- Two (2) Independent AC Inputs: 120VAC or 240VAC up to 10A each.

Output

- One (1) AC output: 120VAC or 240VAC up to 10A.

Supervision

- AC Failure (Primary and Secondary Inputs) Form “A” Normally Closed.

LED Indicators

- **Input** LED Indicators of Primary and Secondary Power

Features

- Removeable AC Terminal Blocks
- Brownout Threshold Adjustment.
- Restore Delay Adjustment.

Board Dimensions

- 5.5” x 3” x 0.75” (139.7mm x 76.2mm x 19.1mm).

Installation Instructions

Circ1ATS should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

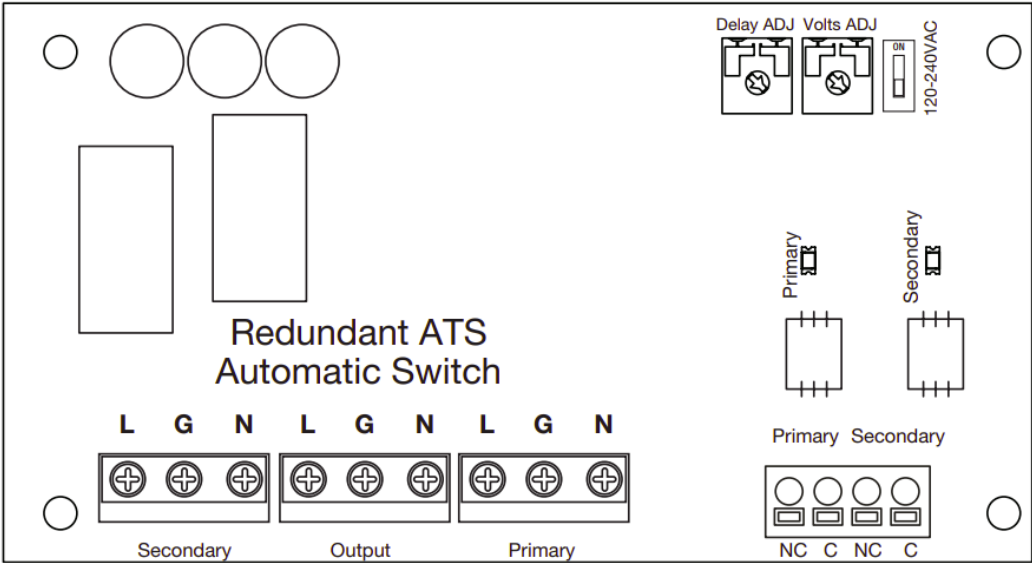
1. Mount Circ1ATS in the desired location/enclosure (mounting hardware included).
2. Circ1ATS can operate with either 120VAC or 240VAC inputs.
Do not connect different voltage inputs simultaneously.
Use [120-240VAC] switch to select input power prior to connecting power sources.
3. Connect primary 120VAC or 240VAC source to terminals marked [Primary L G N].
Connect secondary 120VAC or 240VAC source to terminals marked [Secondary L G N].
Use 18 AWG or larger for all power connections.
Keep power-limited wiring separate from non power-limited wiring (120VAC or 240VAC Input). Minimum 0.25” spacing must be provided.

CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing

- equipment. There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel. Measure output voltage before connecting devices. This helps avoiding potential damage.
4. Connect devices to be powered to terminals marked [Output L G N].
 5. Connect appropriate signaling notification devices to [Primary NC C] and secondary [Secondary NC C] AC FAIL supervisory relay outputs. Use 22AWG to 18AWG wires.
 6. Brownout Threshold Adjustment: in the event of brownout of the primary source, Circ1ATS will automatically switch to the secondary source. Brownout thresholds are: 90-110 VAC for 120VAC input and 180-220 VAC for 240VAC input To adjust the brownout threshold: remove all power, turn Volts Adj trimpot clockwise to increase and counterclockwise to decrease the threshold.
 7. Restore Delay Adjustment: when voltage is restored after brownout, Circ1ATS can wait for up to 6 seconds before switching back to the original power source. To adjust the delay time (2 secs. to 20 secs.), turn Delay Adj trimpot clockwise to increase the delay time and counterclockwise to decrease it.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture. This installation should be made by qualified service personnel and should conform to the National Electrical Code and all local codes.

Fig. 1 – Circ1ATS



Terminal Identification:

| Terminal Legend | Function/Description |
|-------------------------|---|
| Primary L, G, N | Connect primary 120VAC or 240VAC source to these terminals: L to hot, G to ground, N to neutral. |
| Secondary L, G, N | Connect secondary 120VAC or 240VAC source to these terminals: L to hot, G to ground, N to neutral. |
| Output L, G, N | Connect device to be powered to these terminals: L to hot, G to ground, N to neutral. |
| Primary/Secondary NC, C | Used to notify loss of AC power, e.g. connect to audible device or alarm panel. Relay normally energized when AC power is present. Contact rating 1A @ 28VDC. |

LED Diagnostics:

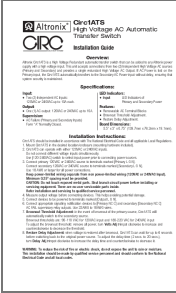
| Primary | Secondary | Power Supply Status |
|----------|-----------|---------------------------------------|
| Blinking | OFF | Primary input power source is used. |
| OFF | Blinking | Secondary input power source is used. |

Altronix is not responsible for any typographical errors.

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Lifetime Warranty
IICirc1ATS – Rev. 071224



Documents / Resources



[Altronix Circ1ATS High Voltage AC Automatic Transfer Switch](#) [pdf] Installation Guide
Circ1ATS High Voltage AC Automatic Transfer Switch, Circ1ATS, High Voltage AC Automatic Transfer Switch, AC Automatic Transfer Switch, Automatic Transfer Switch, Transfer Switch, Switch

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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