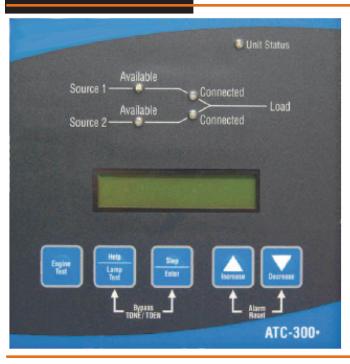


ATC - 300 +

Power Series Transfer Switch

Automatic Transfer Switch Open and Delayed Transition Controller



Automatic Transfer Switch, Open and Delayed Transition Controller Available to 600VAC switches 50/60 Hz Single & Three phase

UL recognized component

CODES AND STANDARDS:



UL recognized component, complies with UL1008 and UL 991



NFPA 70, 99, 110, 37 (complies)



Applicable for use in NEC 700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



ANSI C62.41





Seismic IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012) Certified in ATS assemblies



IEC 61000-4-2, 3, 4, 5, 6, 11 EMC Testing & Measuring (complies)



FCC Part 15, Class A (complies)

CISPR 11, Class A

DESCRIPTION:

The ATC-300+ microprocessor-based ATS controller is unmatched in performance, reliability and functionality for critical operating, emergency, legally required and optional power systems. The easy to use front LCD display panel simplifies programming, routine operation, data presentation, and setting adjustments. The mimic diagrams displays source availability and connection, providing "at a glance" indication, further simplifying users interface. Designed beyond industry EMC standards, the ATC-300+ is rock-solid for transfer control operations, monitoring and reporting.

Customer/factory established parameters are stored in non-volatile memory. The controller has field-programmable time delays, plus displays real-time and historical information with a time-stamped history log. System testing is performed via a front screen test pushbutton. Features also include programmable plant exerciser—OFF, daily, 7, 14, 28-day interval programmable run times. With the standard features of pretransfer contacts, 3 phase sensing on utility and generator source, phase unbalance, phase reversal, load shed/emergency inhibit, and communications (Modbus® RTU) the ATC-300+ is the industry benchmark for transfer switch controllers. The ATC-300+ complies with UL 1008 / CSA C22.2-178.

Automatic Transfer Switch, Open and Delayed Transition Controller

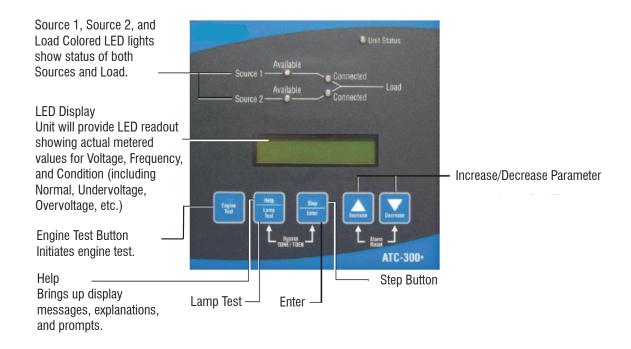
STANDARD FEATURES:

The ATC-300+ monitors the condition of the 3-phase line-to-line voltage and frequency of both the utility and generator power sources. It also provides the necessary intelligence to ensure that the transfer switch operates properly through a series of programmed sensing and timing functions.

- Monitors both voltage and frequency on utility and generator
- Provides undervoltage and overvoltage protection of the utility and generator power sources
- Provides underfrequency and overfrequency protection of the utility generator power source
- · Permits easy customer set up
- · Displays real-time and historical information
- · Permits system testing
- Stores customer/factory established parameters in nonvolatile memory
- Provides faceplate source status indications

FRONT PANEL DESCRIPTION:

A 2-line, 32-character alphanumeric LCD Display provides a readout on all ATC-300+ controller monitored parameters, setpoints, and messages in easy to read formats (English, French). The display has a green high contrast background that allows clear visibility of any information displayed. The display is continuously lit for clear visibility under poorly lit or no light conditions.



INPUT FUNCTIONS:

- · Help/Lamp Test
- Engine Test
- Step/Enter
- Increase
- Decrease
- · Alarm Reset
- · Bypass Time Delay

OUTPUT FUNCTIONS:

- Unit Status
- · Utility Available
- · Utility Connected
- · Generator Available
- · Generator Connected

Automatic Transfer Switch, Open and Delayed Transition Controller

| SPECIFICATIONS: System Application Voltage | Up to 600 VAC RMS | 50/60 Hz |
|---|---|-----------------|
| Input Control Voltage | 65 to 145 VAC | 50/60 Hz |
| Voltage Measurements of | Utility VAB | Generator VAB |
| voltage measurements of | Utility VBC | Generator VBC |
| | Utility VCA | Generator VCA |
| Voltage Measurement Range | 0 to 790 VAC RMS | 50/60 Hz |
| Voltage Measurement Accuracy | ± 1% of Full Scale | |
| Frequency Measurements of | Utility and Generator (Source 1 and Source 2) | |
| Frequency Measurement Range | 40 Hz to 70 Hz | |
| Frequency Measurement Accuracy | ± 0.3 Hz Over the Measurement Range | |
| Operating Temperature Range | -20 to +70°C (-4 to +158°F) | |
| Storage Temperature Range | -30 to +85°C (-22 to +185°F) | |
| Operating Humidity | 0 to 95% Relative Humidity (Non-condensing) | |
| Operating Environment | Resistant to Ammonia, Methane, Nitrogen, Hydrogen, and Hydrocarbons | |
| Generator Start Relay | 5 A, 1/6 HP @ 250 VAC 5 A @ 30 VDC with a 150 W Maximum Load | |
| K1, K2 Relays | 10 A, 1-3 HP @ 250 VAC | |
| | 10 A @ 30 VDC | |
| PROGRAMMABLE SETPOINTS: | | |
| Undervoltage Dropout Range | | |
| Breaker/Switch Style ATS Contactor Style ATS | 50% to 97% of the Nominal System Voltage 78% to 97% of the Nominal System Voltage | |
| Undervoltage Pickup Range | | |
| Breaker/Switch Style ATS Contactor Style ATS | (Dropout $+2\%$) to 99% of the Nominal System Voltage (Dropout $+2\%$) to 99% of the Nominal System Voltage | |
| Overvoltage Dropout Range | | |
| Breaker/Switch Style ATS Contactor Style ATS | 105% to 120% of the Nominal System Voltage 105% to 110% of the Nominal System Voltage | |
| Overvoltage Pickup Range | | |
| Breaker/Switch Style ATS Contactor Style ATS | 103% to (Dropout -2%) of the Nominal System Voltage 103% to (Dropout -2%) of the Nominal System Voltage | |
| Underfrequency Dropout Range | | |
| Breaker/Switch Style ATS Contactor Style ATS | 90% to 97% of the Nominal System Frequency 90% to 97% of the Nominal System Frequency | |
| Underfrequency Pickup Range | | |
| Breaker/Switch Style ATS Contactor Style ATS | (Dropout +1Hz) to 99% of the Nominal System Frequency (Dropout +1Hz) to 99% of the Nominal System Frequency | |
| Overfrequency Dropout Range | | |
| Breaker/Switch Style ATS Contactor Style ATS | 103% to 110% of the Nominal System Frequency 103% to 105% of the Nominal System Frequency | |
| Overfrequency Pickup Range | • | - |
| Breaker/Switch Style ATS | 101% to (Dropout -1Hz) of the Nominal S | vetem Frequency |

Automatic Transfer Switch, Open and Delayed Transition Controller

ADDITIONAL PROGRAMMING SETTINGS

| Time Delay Nml to Emr | 0 to 1800 seconds | |
|---|--|--|
| Time Delay Emr to Nml | 0 to 1800 seconds | |
| Time Delay Engine Cool | 0 to 1800 seconds | |
| Time Delay Engine Start | 0 to 120 seconds | |
| Time Delay Neutral ¹ | 0 to 120 seconds | |
| Time Delay Source 2 Fail | 0 to 6 seconds | |
| Time Delay Volt Unbal | 10 to 30 seconds | |
| Volt Unbal 3-Phase | 0 or 1 (1 = Enable) | |
| % of Unbal Volt Dropout | 5% to 20% (DO) Dropout -2% to 3% (PU) | |
| Nominal Voltage | 120 to 600 Volts | |
| Nominal Frequency | 50 or 60Hz | |
| Baud Rate | 9600 or 19,200 | |
| Phase Reversal 3-Phase | OFF, ABC, or CBA | |
| In-Phase ² | 0 or 1 (1 = Enable) | |
| Pre-Transfer Signal | 1 to 120 seconds | |
| Manual/Retransfer | 0 or 1 (1 = Enable) | |
| Plant Exerciser | Off, Daily, 7-Day, 14-Day, 28-Day Intervals 0 to 600 minutes Load or No Load | |
| Daylight Svgs Time Adj | 0 or 1 (1 = Enable) | |
| System Selection | Utility/Generator or Dual Utility | |
| Modbus Address | 1 to 247 | |
| Communications | Modbus RTU® Ethernet and/or Remote Annunciator (Optional) | |
| Applicable Testing | UL Recognized Component UL 1008, UL 991 Environmental IEC 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5, 61000-4-6, 61000-4-11 CISPR 11, Class A FCC Part 15, Class A | |
| nclosure Compatibility NEMA 1, NEMA 3R, NEMA 4X, and 12 UV Resistant ATC-300+ Faceplate | | |

- 1. Not available on open transition with inphase only switches
- 2. Not available on molded case type switches

