# Automatic reliability



Eaton's ATC-300+ is a comprehensive, multi-function, microprocessor-based automatic transfer switch (ATS) controller. It is a compact, self-contained, panel-mounted device that protects critical electrical loads against loss of power.



# Designed with the user in mind

The ATC-300+ is equipped with a two-line LCD display and includes a high-contrast green background that displays all monitored parameters and program set points as well as enables users to view messages and access help prompts in easy-to-read formats.

Using the integrated keypad buttons and local menu, users can display a variety of electrical system values or program the controller.

# Industry-standard communication protocol

The ATC-300+ is communication capable via Modbus® RTU (remote terminal unit). This industry-standard protocol provides serial communications with Eaton or third-party platforms, such as a building management systems, power management systems or Eaton's Power Xpert® architecture. ●

## **Remote control inputs**

- Source 2 inhibit/shed disconnect load from emergency power
- Manual retransfer—initiate load retransfer from emergency to normal power
- Go to source 2—initiate a load transfer from normal to emergency power
- Lockout—overcurrent device (trip open) disables automatic operation
- Monitor mode—disable automatic transfer control

## **Output relays (Form C)**

- Pre-transfer
- General alarm
- Engine-generator start

#### **Features and benefits**

- Real-time monitoring of the normal (source 1) and emergency (source 2) power sources
- Self-acting automatic transfer of the electrical load between power sources
- Industry-standard communication—serial (RS-485/Modbus RTU) and Ethernet (via optional module)
- Remote management of single or multiple ATSs with a human-machine interface (HMI) and Eaton's Remote Annunciator Controller (RAC) (optional module)
- Engine start/shutdown signaling (Form C contacts) provides means to comply with NEC<sup>®</sup> 695.14(F) and NEC 700.10(D)(3)
- Single- or three-phase voltage and frequency sensing
- Programmable set points
- LED mimic screen with source available and source connected indication
- Two-line, 16-character LCD
- Passcode protection
- UL<sup>®</sup> 1008 / CSA<sup>®</sup> 22.2-178 compliant
- Pushbutton for loaded/ unloaded engine-generator test
- Programmable plant exerciser
- Open transition (time delayed or in-phase monitoring)
- Utility generator and dual utility configurations
- Detailed and time-stamped event log and history
- Diagnostics and troubleshooting with pre-/ post-event data capture
- · Phase rotation sensing
- Voltage imbalance sensing
- Reference the ATC-300+ Modbus Communications Guide (document number IB140004EN) and the ATC Controller and Remote Annunciator Design Guide (document number DG140004EN) for more information.











#### Strategic asset management

In addition to facilitating the automatic transfer of power during loss of utility, the ATC-300+ integrates into Eaton's Power Xpert architecture, where meters, gateways and monitoring devices collaborate to create a unified, centralized view of the end-to-end power and facility infrastructure.

Power Xpert complements any ATS solution by keeping a constant pulse on system health through its monitoring capabilities and provides the ability to manage your power system as a strategic asset.

The system is capable of delivering a comprehensive view across the network—often from any PC with an internet browser. Power Xpert can also provide a complete log of events, a feature that is invaluable when debugging a power anomaly.

With access to accurate, real-time information from the ATC-300+, the Power Xpert architecture can transform your power system into an integrated, agile system and an easily managed entity that performs better and costs less.

## **Remote monitor and control**

Eaton's RAC easily interfaces with the ATC-300+ and provides users with the ability to remotely monitor and control multiple ATSs from a single intuitive HMI via a robust touchscreen.

#### ATC-300+ selection

Description	Specification
Control voltage	65–145 Vac
Nominal voltage	120–600 Vac
Voltage sensing	Source 1 and Source 2
Voltage range	0–790 Vac rms
Voltage accuracy	±1% of nominal voltage
Nominal frequency	50 or 60 Hz
Frequency sensing	Source 1 and Source 2
Frequency range	40–70 Hz
Frequency accuracy	±0.3 Hz
Operating temperature range	-20 to +70 °C (-4 to +158 °F)
Storage temperature range	-30 to +85 °C (-22 to +185 °F)
Operating relative humidity	Up to 95% (noncondensing)
Dimensions in inches (mm) height x width x depth	8.50 (215.9) x 6.50 (165.1) x 2.84 (72.1)

**Note:** Specifications are subject to change without notice and represent the maximum capabilities of the product with all options installed. This is not a complete feature list. Features and functionality may vary depending on selected options, firmware version and product model. Please refer to O&M Manual for detailed specifications.



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ATC-300+ (rear view)





RAC with HMI touchscreen

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