

# Unmatched versatility, performance, safety and reliability



Eaton has expanded its comprehensive portfolio of UL® 1008 listed automatic transfer switch (ATS) solutions with contactor-based designs specifically engineered for applications up to 3000 A.

The contactor-based ATS line is not only competitive and simple to operate, but also available in a broad selection of configurations and features to meet a wide array of application types. When coupled with our extensive custom engineering capabilities, finding the right ATS for your project has never been easier.

Whether your needs are standard commercial, harsh industrial or mission critical, Eaton's innovative contactor-based ATS design and robust construction set the standard for maintaining power to critical loads and optimizing system uptime.

## Features and benefits

### Adaptability and flexibility

- Highly configurable and integration friendly design with ratings from 2000 A to 3000 A allows you to easily select the right transfer switch for your application
- Available in open and closed transition types, as well as Automatic, Non-Automatic and Manual operation modes
- Scalable configurations including ATC-300+ and ATC-900 automatic transfer controllers allows matching intelligence and programming capabilities to your specifications

### Improved performance and reliability

- UL 1008 listed short-circuit (100 kA; 0.05 second) and short-time (85 kA; 0.5 second) withstand closing ratings provide increased reliability and system uptime for multiple National Electrical Code® (NEC®) system types
- Stored energy technology permits manual operation under load for added redundancy
- Dual operator facilitates use of a single contactor type switching mechanism for closed transition configuration, minimizing footprint

### Enhanced safety and serviceability

- Unique compartmentalized construction provides enhanced safety for operators and maintenance personnel
- Service personnel can electrically isolate control compartment while transfer switch is energized to facilitate routine maintenance and maximize uptime
- Kirk-key interlock allows for lock-out/tag-out of switching mechanism
- Three-pushbutton tethered control allows the operator to manually initiate a transfer between power sources at a distance

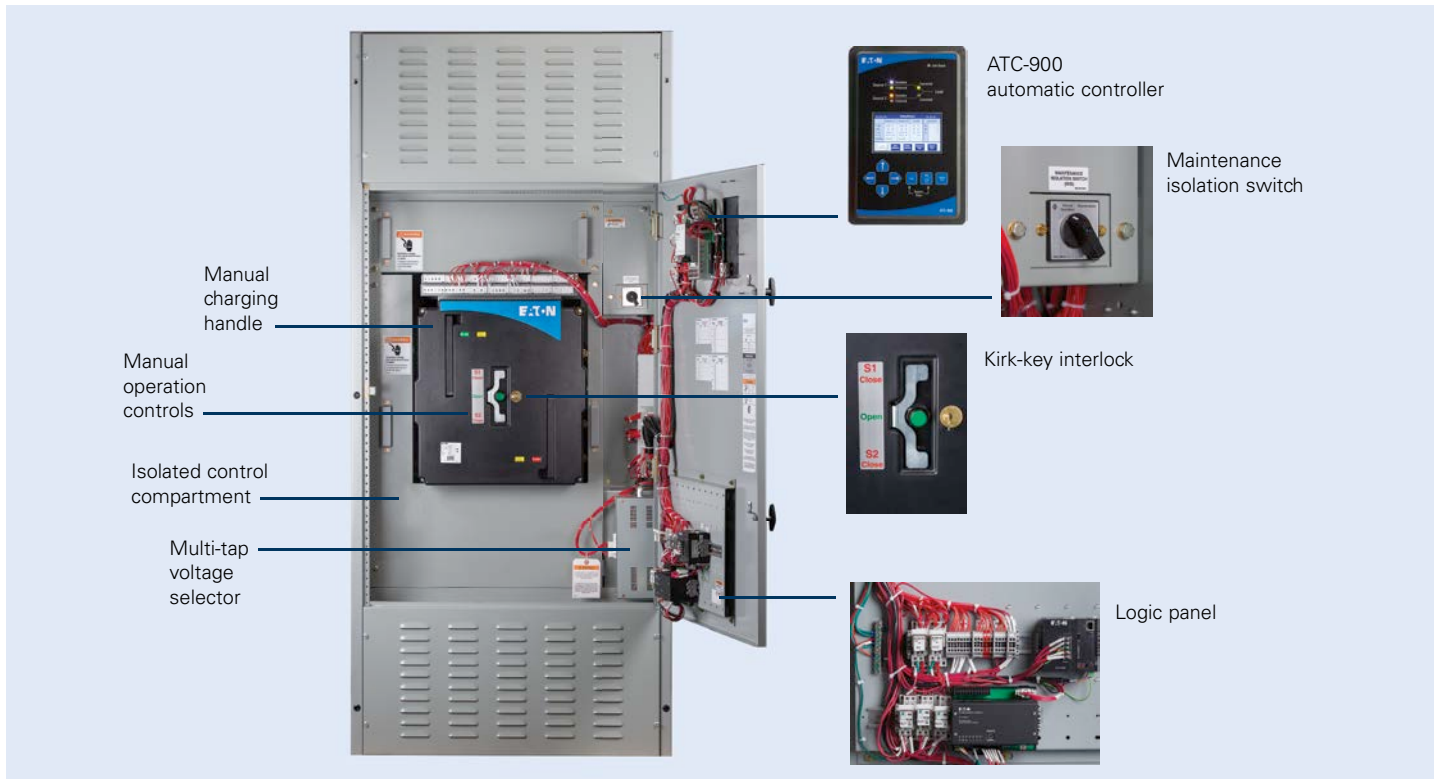
### Simplified installation and integration

- Terminal connections can be made from the front or rear and at top or bottom of enclosure to simplify installation, with built-in source swap option for Normal and Emergency connections
- Standard 40-inch enclosure depth (NEMA® 1) can be extended to 48, 54 or 66 inches for integration into electrical distribution lineup. Up to (12) 1/0–750 kcmil Cu/Al mechanical lugs per phase available for normal, emergency and load connections
- All mounting locations for anchoring the enclosure are internal to help minimize footprint and maintain seismic ratings when integrated into a power distribution lineup

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## Design features



### Innovative compartmentalized design

Eaton's contactor-based ATS solutions are engineered for enhanced safety and uptime, with the front door of the ATS forming an isolated compartment that houses the automatic controller, control power transformer assembly, wire harnesses, relay logic, manual pushbutton controls, manual charging handle, terminal blocks and a variety of optional features to include a 2-position maintenance isolation switch (MIS).

Upon opening the front door, service personnel can turn the MIS and electrically isolate the control compartment, while the transfer switch is energized. This innovative design enhances safety in the working environment when performing inspection or routine maintenance.

### Multiple operation modes and transition types

Operation is possible in three different modes: Automatic, Non-Automatic and Manual. In Automatic mode, a transfer is electrically initiated and operated via the controller.

In Non-Automatic mode, a transfer is manually initiated and electrically operated using a door-mounted selector switch or via an optional tethered remote control, which connects via a standard Ethernet cable. In Manual mode, a transfer is manually initiated and operated using integrally mounted pushbuttons located within an isolated compartment directly behind the front door.

Further, the ATS can be configured as open or closed transition type. The open transition type allows the user to select in-phase or delayed transition via programmable set points. The closed transition type can be configured to default to open transition if source synchronization doesn't occur before a programmable delay timer expires.



Tethered remote control

### Intelligent ATS control

Eaton's new ATC-900 controller brings ease of use, adaptability, supervisory and programming capabilities to mission-critical applications. The 4.3-inch color TFT display provides simple arrow keys for quick screen navigation and easy viewing of event logs as well as recorded time-stamped events. Field configuration of programmable I/O allows user adaptability to special requirements.

### Multi-tap voltage selector

Allows the transfer switch to be easily field configured for operation at different system voltages via a single quick-connect plug. Available system voltage group offerings include 208/240/480 Vac, 220/380/415 Vac and 600 Vac.



Multi-tap control power transformer

### Contacting switching mechanism

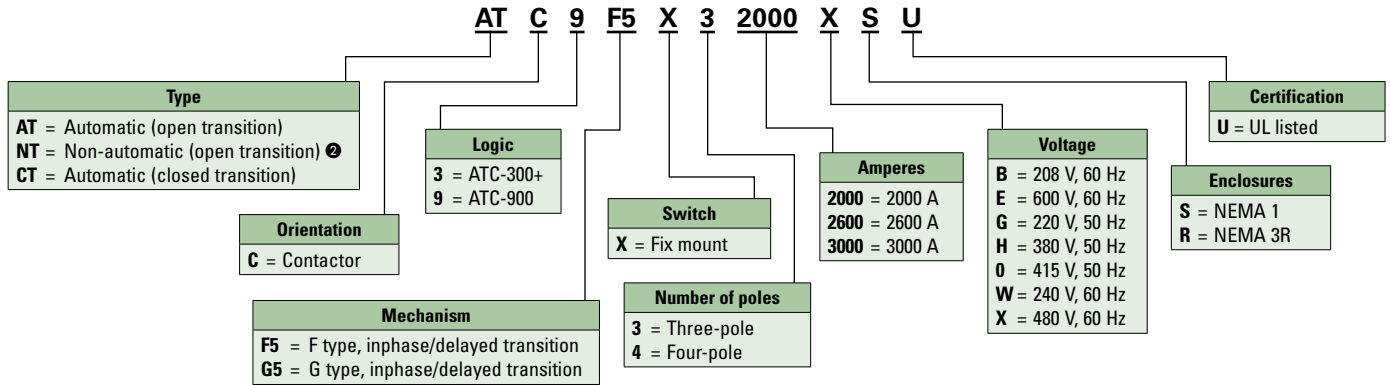
Robust double-throw switch construction includes dual operator and two-step stored energy technology. The operators can be charged electrically via motor or manually via handle. Once charged, stored energy allows for a complete transfer and re-transfer sequence to be performed. Manual controls and indication are integral to the design and many switching mechanism components are field replaceable.

### Selective coordination

Transfer switches can be configured with an optional UL 1008 listed short-time withstand closing rating of 85 kA (0.5 seconds) that is ideal for emergency, legally required, critical operations data systems, and critical operations power systems requiring selective coordination per the NEC.

# Product selection

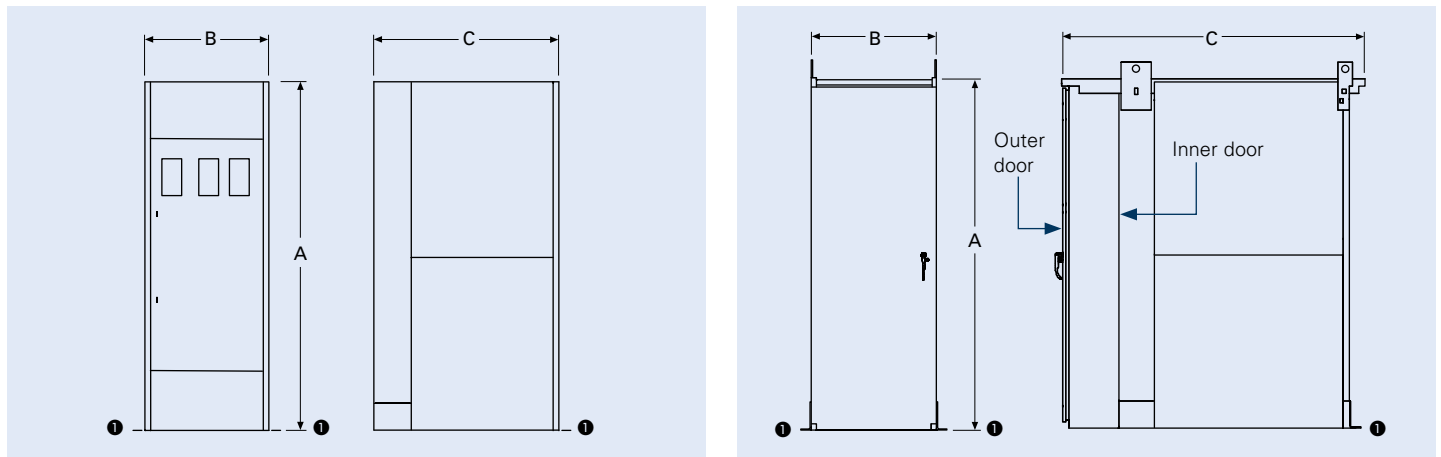
## Catalog numbering system ①



- ① Some catalog number combinations may not be available. Please contact your local Eaton sales representative with any product configuration questions.
- ② Non-automatic (open transition) type does not support open-inphase transition.

# Technical specifications

## Dimensions and weights



NEMA 1

NEMA 3R (controller and device panels mounted on inner door)

Ampere rating	Enclosure type	A (height) ①	B (width) ①	C (depth) ①②	Shipping weight ①
2000	NEMA 1	90.00 (2286.0)	40.00 (1016.0)	40.00 (1016.0)	1356 (615)
2600	NEMA 1	90.00 (2286.0)	40.00 (1016.0)	40.00 (1016.0)	1356 (615)
3000	NEMA 1	90.00 (2286.0)	40.00 (1016.0)	40.00 (1016.0)	1356 (615)
2000	NEMA 3R	90.69 (2303.5)	40.00 (1016.0)	58.59 (1488.2)	1356 (615)
2600	NEMA 3R	90.69 (2303.5)	40.00 (1016.0)	58.59 (1488.2)	1356 (615)
3000	NEMA 3R	90.69 (2303.5)	40.00 (1016.0)	58.59 (1488.2)	1356 (615)

- ① Dimension in inches (mm) and weight in lb (kg). Data is approximate and subject to change. Please reference product outline drawing(s) for latest information.
- ② Standard depth extensions are available for integration into electrical distribution equipment line-up. Please contact your local Eaton sales representative for more details.

## Terminal information for external power conductors

Ampere rating	Normal ①②	Emergency ①②	Load ①②	Neutral ③
2000	(8) 1/0–750	(8) 1/0–750	(8) 1/0–750	(24) 1/0–750
2600	(12) 1/0–750	(12) 1/0–750	(12) 1/0–750	(36) 1/0–750
3000	(12) 1/0–750	(12) 1/0–750	(12) 1/0–750	(36) 1/0–750

- ① Standard mechanical lugs are UL listed, solderless screw-type Cu/Al. Number of conductors and size range shown is per pole.
- ② Two-hole compression lug or bus provisions available upon request. Please contact your local Eaton sales representative for more details.
- ③ Only applies to wye system configuration with solid neutral. For four-pole, switched neutral configurations, the number and size of conductors supported will mimic Normal, Emergency and Load information shown.

## Technical specifications

### UL 1008 listed withstand closing ratings

Ampere rating	Mechanism	Up to 600 V		
		Short-circuit (0.05 sec)	Short-time (0.5 sec)	Specific fuse
2000–3000	F5	100 kA	—	200 kA
2000–3000	G5	100 kA	85 kA	200 kA

### ATC-300+ and ATC-900 controller features

Description	Automatic controller	
	ATC-300+	ATC-900
Basic transfer control, plant exerciser, time delays, self diagnostics and system settings	Std	Std
Source mimic diagram with LED indication	Std	Std
Engine test and start contact	Std	Std
Dual source control power input	Std	Std
Liquid crystal display (LCD)	Std	Std
Programmable set points and plant exerciser	Std	Std
Password protection	Std	Std
Time stamped history and event log	Std	Std
Time delay bypass	Std	Std
Go to Source 2 control input	Std	Std
Pre-transfer and general alarm control outputs	Std	Std
Lockout and monitor modes	Std	Std
Source status output relay contacts	Std	Std
Modbus RTU communication	Opt	Std
Manual retransfer control input	Opt	Std
Source 2 inhibit / load shed input	Opt	Std
USB port—profile and data management		Std
Preferred source selection		Std
Dual generator capability		Std
User configurable input/outputs		Std
Advanced diagnostics and troubleshooting with pre/post event data capture		Std
Negative sequence voltage detection		Std
Integrated load metering		Opt
Load management with selective load shed		Opt
DC voltage control power input		Opt
Three-source ATS—master/slave control		Opt
Modbus TCP/IP communication ❶	Opt	Opt

❶ Modbus TCP/IP option requires use of Modbus RTU port.



### Custom order engineering

In many cases, standard product can be custom order engineered to meet your application needs. For additional information, please contact your local Eaton sales representative.

To learn more, contact your local sales representative or visit  
[Eaton.com/ats](http://Eaton.com/ats)