

Transfer switches

Molded case type, open transition, manual, non-automatic, automatic (30–1000 A)

Reliability, versatility and performance



Service entrance rated transfer switch with Cam-Lok terminals

Eaton offers a comprehensive portfolio of UL® 1008 Listed transfer switch solutions to meet a wide variety of standby power applications. The molded case transfer switch line is not only reliable and simple to operate, but also available in a broad selection of product configurations. When coupled with our extensive custom engineering capabilities, finding the right transfer switch for your project has never been easier. Whether your needs are standard commercial or harsh industrial, the robust construction and performance of an Eaton transfer switch sets the standard for maintaining power to critical loads and optimizing system uptime.

Product configurations

- Open transition (time delayed, load voltage decay)
- Automatic, non-automatic, manual operation
- 30 to 1000 amperes
- Two-, three- and four-pole
- Up to 600 Vac, 50/60 Hz
- Single-phase or three-phase
- Cam-Lok™ quick-connect terminals
- Service entrance—UL 1008 Listed and 100% rated
 - Integral circuit breaker(s) with trip unit
- NEMA® 1, 12, 3R, 4X enclosure or open frame design
- Automatic transfer controller: ATC-900, ATC-300+, ATC-100

Codes and standards

- UL 1008 Listed
- CSA® C22.2 No. 178 Certified
- Seismic qualified—OSHPD, CBC, IBC, UBC Zone 4
- NFPA 110 and National Electrical Code® (NEC®) Articles 700, 701, 702, 708

Features and benefits

- Molded case switch/circuit breaker pair with self-protecting main contacts
- Mechanically interlocked to prevent simultaneous connection of both sources
- Quick-connect, multi-tap transformer panel derives control power from either source and permits field selection of system voltage
- Front accessible
- Top/bottom cable entry
- Internal dead-front cover
- Industry standard serial communication (Modbus® RTU)
- Auxiliary contacts indicate position of main contacts
- Dual automatic plant exercisers for scheduling unloaded and loaded engine-generator testing
- Programmable control inputs and relay outputs for load management
- Advanced source sensing incorporates negative sequence voltage detection for identifying phase loss condition
- USB port for downloading power quality data, managing set point profiles and updating firmware

Options and accessories

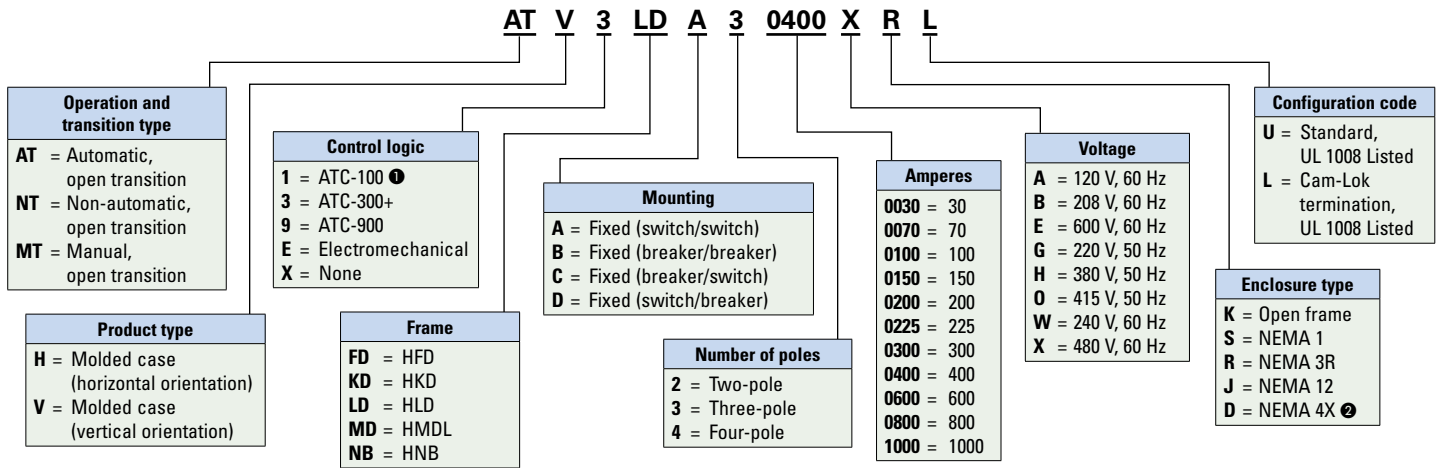
- ATC-900 controller accessory modules:
 - DCT—integral power metering (load) and 24 Vdc external supply power
 - I/O—expand programmable control inputs (up to 20) and Form C relay outputs (up to 20)
- Advanced power quality metering (PXM series) of source or load
- Surge protection device (UL 1449 3rd edition)
- 7-inch color touch screen HMI remote annunciator to monitor and control single or multiple (up to eight) transfer switches
- Ethernet communication (Modbus TCP/IP, BACnet, EtherNet/IP)
- Thermostat controlled heater element for outdoor applications
- Compression lug terminals
- Non-automatic operator controls and indication lights

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Product selection

Catalog numbering system



① Limited to 600 A and below.

② 304 or 316 grade stainless steel available.

Standard and optional ATC controller features

Description	Automatic controller		
	ATC-100	ATC-300+	ATC-900
Basic transfer control, plant exerciser, time delays, self diagnostics and system settings	Std	Std	Std
Source mimic diagram with LED indication	Std	Std	Std
Engine test and start contact	Std	Std	Std
Dual source control power input	Std	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	—	Std	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 inputs/outputs	—	—	Std
Advanced diagnostics and troubleshooting with pre-/post-event data capture	—	—	Std
Integrated load metering	—	—	Opt
Load management with selective load shed	—	—	Opt
External DC supply voltage input	—	—	Opt
Three source—primary/secondary control	—	—	Opt
Modbus TCP/IP communication ①	—	Opt	Opt

① Modbus TCP/IP option requires use of Modbus RTU port.

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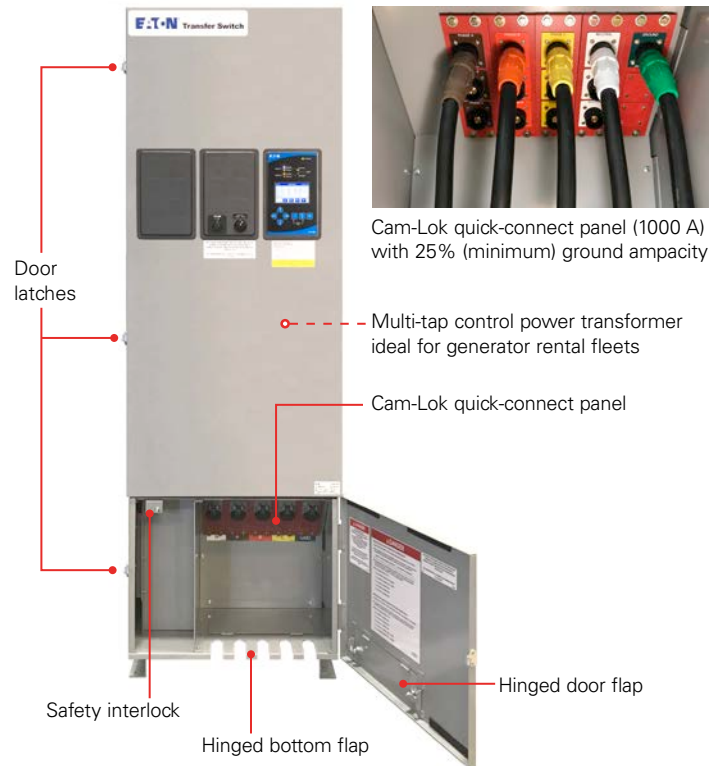
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Quick-connect Cam-Lok termination

Transfer switches can be configured with a Cam-Lok power panel for quick connection to a temporary emergency power source (engine-generator).

The color-coded power panel resides in an isolated compartment and is constructed of industry-standard 16 series Cam-Lok receptacles (male) mounted on a high-strength fiberglass-reinforced polyester material. Each Cam-Lok receptacle is rated for 400 A and can be equipped with an optional hinged cover. Ground ampacity can be specified as 25%, 50% or 100% of the transfer switch ampere rating.



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