

Unmatched performance, reliability and versatility



1200 Ampere ATS

100 Ampere ATS

Product description

Eaton automatic transfer switches (ATS) provide unmatched performance, reliability and versatility for critical standby power applications. Automatic transfer switches can be equipped with the ATC-100, ATC-300+ and ATC-900 controllers to match any application need. Each controller offers rock-solid monitoring, status reporting and transfer control operation. Superior design and robust construction make Eaton's automatic transfer switch the industry benchmark for critical and distributed power systems.

Product configurations

- Ratings 40, 80, 100, 150, 200, 225, 260, 400, 600, 800, 1000, 1200 and 1600 amperes
- Two-, three- or four-pole
- Up to 600 Vac, 50/60 Hz
- NEMA® 1, 12, 3R, 4X, open

Standards

- UL® 1008 Listed
- CSA® C22.2 No. 178 Certified
- Seismic Zone 4 qualified (CBC, IBC, UBC)
- OSHPD certification

Industrial design highlights

- Double-throw, solenoid-operated transfer mechanism
- Mechanically interlocked to prevent connection of both sources
- Field-selectable multi-tap transformer panel permits operation on a wide range of system voltages
- Methods of transfer include: open in-phase transition, time delay in neutral transition, or in-phase with a default to time delay in neutral transfer
- Silver composition main contacts
- Switch position indication contacts
 - Source 1 position: 1 Form C
 - Source 2 position: 1 Form C

Standard and optional 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
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.

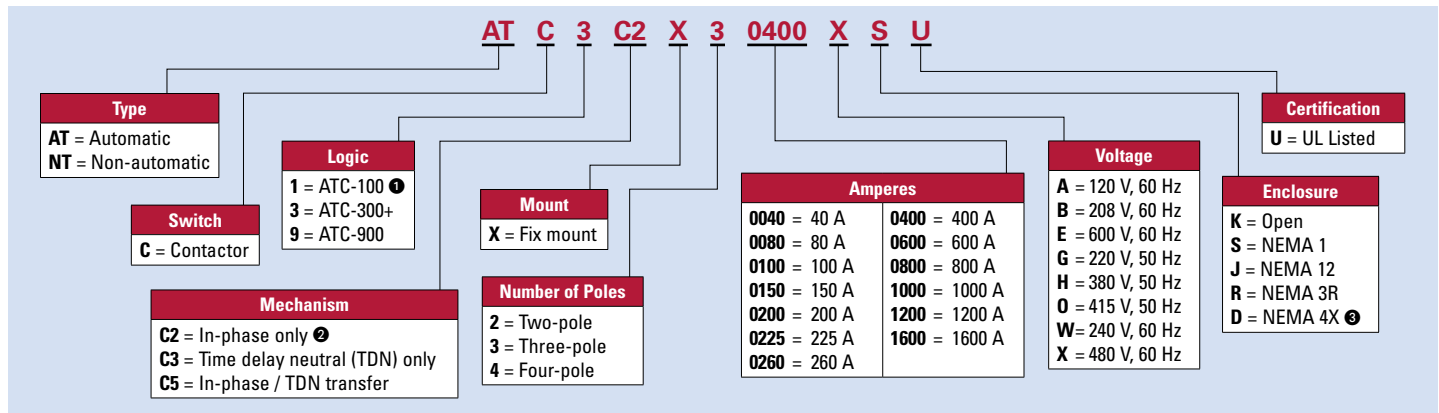
Optional accessories

- Eaton IQ and Power Xpert® series metering
- Automatic controller protective cover with padlock provision
- Surge protection device (UL 1449 3rd edition)
- Remote annunciator controller—monitor and control single or multiple automatic transfer switches
- Ethernet gateway with Web server (Modbus TCP/IP, SNMP, BACnet®)
- Space heater with thermostat



Powering Business Worldwide

Automatic transfer switch catalog numbering system



- ① The ATC-100 is available on contactor transfer switches 400 A and below, C2 mechanism only.
- ② The C2 mechanism is available for transfer switches 40 A to 400 A.
- ③ NEMA 4X is available for transfer switches 40 A to 1200 A.

Contactor-based transfer switch 40 A to 1600 A—dimensions in inches (mm) and approximate shipping weight in lb (kg)

Amperes	Mechanism	Enclosure	A (Height)	B (Width)	C (Depth)	G (Horizontal)	H (Vertical)	Load Side, Normal and Standby Source	Neutral Connection	Weight
40–100 at 480 V ①	C2	N1, N12, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	10.25 (260.4)	37.38 (949.5)	(1) #14–2/0	(3) #14–1/0	156 (71)
		N4X	37.50 (952.5)	17.50 (444.5)	14.34 (364.2)	11.50 (292.1)	36.25 (920.8)	(1) #14–2/0	(3) #14–1/0	156 (71)
40–100 at 600 V ①	C2	N1, N12, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	10.25 (260.4)	37.38 (949.5)	(1) #14–2/0	(3) #14–1/0	164 (74)
		N4X	37.50 (952.5)	17.50 (444.5)	14.34 (364.2)	11.50 (292.1)	36.25 (920.8)	(1) #14–2/0	(3) #14–1/0	164 (74)
150–200 at 480 V ①	C2	N1, N12, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	10.25 (260.4)	37.38 (949.5)	(1) #6–250 kcmil	(3) 1/0–250 kcmil	164 (74)
		N4X	37.50 (952.5)	17.50 (444.5)	14.34 (364.2)	11.50 (292.1)	36.25 (920.8)	(1) #6–250 kcmil	(3) 1/0–250 kcmil	164 (74)
150–200 at 600 V ①	C2, C3, C5	N1, N12, N3R	52.00 (1321.0)	19.81 (503.0)	16.75 (425.0)	13.00 (330.0)	47.84 (1215.1)	(1) #6–250 kcmil	(3) 1/0–250 kcmil	260 (118)
		N4X	52.00 (1321.0)	21.00 (533.0)	16.75 (425.0)	15.00 (381.0)	50.75 (1289.0)	(1) #6–250 kcmil	(3) 1/0–250 kcmil	260 (118)
225–400 at 480 V ① 40–400 at 480 V ①	C2 C3, C5	N1, N12, N3R	52.00 (1321.0)	19.81 (503.0)	16.75 (425.0)	13.00 (330.0)	47.84 (1215.1)	(2) 3/0–250 kcmil or (1) 3/0–600 kcmil	(6) 250–500 kcmil	260 (118)
		N4X	52.00 (1321.0)	21.00 (533.0)	16.75 (425.0)	15.00 (381.0)	50.75 (1289.0)	(2) 3/0–250 kcmil or (1) 3/0–600 kcmil	(6) 250–500 kcmil	260 (118)
225–1200 at 600 V ②	C3, C5	N1, N3R	79.41 (2017.0)	29.19 (741.4)	22.46 (570.5)	N/A	N/A	(4) 1/0–750 kcmil	(12) 1/0–750 kcmil	600 (272) 3-pole 650 (295) 4-pole
		N12, N4X	84.75 (2152.7)	29.00 (737.0) 3-pole 29.00 (737.0) 4-pole	24.26 (616.0)	N/A	N/A	(4) 1/0–750 kcmil	(12) 1/0–750 kcmil	700 (318) 3-pole 750 (340) 4-pole
600–1200 at 480 V ②	C3, C5	N1, N3R	79.41 (2017.0)	25.25 (641.4) 3-pole 29.19 (741.4) 4-pole	22.46 (570.5)	N/A	N/A	(4) 1/0–750 kcmil	(12) 1/0–750 kcmil	600 (272) 3-pole 650 (295) 4-pole
		N12, N4X	84.75 (2152.7)	29.00 (737.0) 3-pole 29.00 (737.0) 4-pole	24.26 (616.0)	N/A	N/A	(4) 1/0–750 kcmil	(12) 1/0–750 kcmil	700 (318) 3-pole 750 (340) 4-pole
1600 A at 480 V	C3, C5	N1	90.00 (2286.0)	40.00 (1016.0)	29.00 (736.6)	N/A	N/A	(4) 1/0–750 kcmil	(12) 1/0–750 kcmil	730 (331) 3-pole 780 (354) 4-pole
		N3R	90.72 (2304.3)	40.35 (1024.9)	47.59 (1208.8)	N/A	N/A	(4) 1/0–750 kcmil	(12) 1/0–750 kcmil	780 (354) 3-pole 830 (377) 4-pole

UL 1008 withstand and close-on ratings (kA)

UL 1008 Ampere Rating	Mechanism	480 V		600 V		Specific Fuse
		Any Breaker	Specific Breaker	Any Breaker	Specific Breaker	
40, 80, 100	C2	10,000	30,000	10,000	22,000	100,000 ③
150, 200	C2	10,000	30,000	22,000	35,000	100,000
225, 260, 400	C2	30,000	50,000	—	—	200,000
40, 80, 100, 150, 200	C3, C5	30,000	50,000	22,000	35,000	200,000
225, 260, 400	C3, C5	30,000	50,000	50,000	65,000	200,000
600, 800, 1000, 1200	C3, C5	50,000	65,000	50,000	65,000	200,000
1600	C3, C5	50,000	65,000	—	—	200,000 ③

- ① Wallmount.
- ② Floorstanding and wall-secured—height dimension includes the bottom bracket.
- ③ Specific fuse rating at 480 V only.

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Printed in USA
Publication No. PA01602010E / Z15223
May 2014

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