



TruONE ATS

Withstand and Closing Ratings (WCR)



The Purpose of Testing and Unit Ratings

ABB automatic transfer switches (ATS) have been subjected to an extensive test program to show that they comply with and exceed UL 1008 standards as well as the various performance specifications used by most government agencies and major electrical engineers throughout the world. The primary test to assure the dependability of an automatic transfer switch is its ability to close into and withstand high fault currents. The purpose of this publication is to provide basic information on withstand ratings and to document the ratings that ABB ATS currently holds under UL 1008

NFPA 110 Standard for Emergency and Standby Power Systems, Section 6.3.2, requires that the capacity and rating of automatic transfer switches be adequate to withstand the thermal and electromagnetic effects of short circuit currents that may arise in the electrical system. It is important to be able to compare properly the withstand close rating (WCR) of the switch to the available short circuit (fault) current of the system until the protective device clears the fault

If a transfer switch does not have adequate withstand capability—system failure, fire, injury to personnel or equipment damage may result. A clear understanding of the interrelationship between the protective device, transfer switch and system needs is necessary for a well designed installation. Some basic information on withstand rating terms and calculations follows the enclosed rating charts.

Underwriters Laboratories (UL) is the independent testing body that has developed the standard UL 1008 which all major transfer switch manufacturers test to. UL lists products which have successfully passed a battery of witnessed tests including the withstand and close into fault tests described herein. Manufacturers that complete these tests are then permitted to label their products with the UL mark.

UL made changes in April of 1989 regarding the labeling requirements of transfer switches. UL clarified the labeling procedure and allows for three rating categories.

- Current limiting fuse
- Specific class (trip time) of molded case breaker

- “Umbrella” or “Any Breaker” ratings that take into account all types of molded, insulated case and power circuit breakers; these tests are performed for a duration of 50ms (3 cycles) on units 225 amps and greater, and for 25ms (1.5 cycles) on 40-150 amp units (with an optional 50ms (3 cycles) duration for units up to 150 amps; note the 50ms (3 cycles) rating on 150 amp and below units is optional as UL has determined that all breakers in this size clear in less than 25ms (1.5 cycles). The “Umbrella” or “Any Breaker” rating is therefore the actual UL requirement and definition of the ATS industry 50ms (3 cycles) (or 25ms (1.5 cycles) as noted) withstand and closing rating, and should not to be confused with additional, non UL 1008 labeled “withstand only” tests.

As per UL 1008 7th edition which became effective from Nov 1st, 2014, “Any Circuit Breaker” rating is replaced by “time based” rating and marking will show in second instead of # of cycles.

Another major change was implemented in UL 7th edition for Specific Breaker Certification. Per the new requirement, the circuit breaker must be tested with a transfer switch in order to be added to the approved breaker list. The new breaker can also be added to the approved breaker list if the fault clearing time from the published trip curve indicates that the new breaker will clear a fault in the same amount or less time than the time required to clear a fault using the breaker that was tested with the transfer switch successfully.

TruONE ATS Product Ratings

The ABB family of transfer switches have maintained an industry-leading role in ratings from the time of its introduction. Today all TruONE products are labeled with a list of specific breaker ratings giving the consultant a free hand with system design. The following pages include the UL certified ratings and specific breaker coordination charts, withstand rating data and additional specific information.

The consulting engineer must review the time and rating to specify the breaker, care must be taken to assure that the breaker specified for the installation have an equal or shorter trip time when compared to the listed devices. This would limit the application of the switch to projects within the scope of its specific breaker listing.

In addition to this factor, many transfer switch manufacturers perform additional withstand tests on selected products. These additional tests may be either for a higher current value or a longer duration than their standard UL listed ratings. The consultant must determine the applicability of these tests and take careful note if these levels are normally not UL labeled ratings.

TruONE ATS

Automatic transfer switches 30 - 1200 amps

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- **TruONE Level 2** types with open and delayed transition
- **TruONE Level 3** types with open and delayed transition
- **TruONE Level 4** types with open and delayed transition



Definitions & Calculations

Purpose

Many questions arise when comparing WCR to the system fault current rating. Too often a switch is rated by a manufacturer in one set of WCR terms and the available system fault currents described with a different set of terms. The purpose of this paper is to outline the different ways switches may be rated (WCR) and systems are measured.

Basic Definitions

- **RMS Current** – The Root Mean Square which is the effective value of an alternating current. It is equal to .707 of the peak current for a sine wave. This is the value referred to when people say “current.”
- **Peak Current** – The instantaneous maximum value of current—the peak current of a sine wave is 1.414 times its RMS value.
- **Symmetrical Current** – The alternating current which is symmetrical around the zero axis of the sine wave.
- **Asymmetrical Current** – The alternating current which is not symmetrical around the zero axis.
- **Peak Fault Current** – The instantaneous maximum current value that occurs after the start of a fault in any phase.
- **Available Peak Current** – Maximum possible short circuit current that may exist in a system without protective devices.
- **Peak Let Through Current** – Maximum instantaneous current through the protective device during the total clearing time.
- **Withstand Current Rating** – The rating that defines the ability of the switch to withstand the thermal and electromagnetic effects of short circuit currents for a set period of time.
- **Withstand and Closing Rating (WCR)** – UL 1008 test for a transfer switch’s ability to close into and withstand a fault current. These are the ratings which will actually appear on the UL label of the product.
- **Short-Time current rating (STR)** - UL 1008 test similar to withstand and closing rating but for a time period up to 0.5 seconds and provides for the requirement that the switch be capable of carrying full load current after the withstand and close-on short-circuit events.

Test Documents

As fault currents can occur at any level, a transfer switch must be capable of withstanding any fault current up to its maximum rating. This rating is based on the rating of the protective device in front of the unit and must be considered on that basis.

ABB tests show results based on various current values and time durations, and include additional high current tests with fuses. By considering this range of values, it is possible to predict performance with different fuse characteristics or specific circuit breaker current-time curves with a given available short circuit current.

Interrupting Ratings

Some manufacturers of circuit breaker type automatic transfer switches list interrupting current (IC) ratings in lieu of WCR. These switches will then open on faults instead of withstanding the fault until the external protective device clears. As the transfer switch is then used to open the fault current in place of a protective device—this may leave the transfer switch with both normal and emergency open which then requires manual resetting of the breakers within the transfer switch enclosure. The circuit breakers may require factory inspection after high current interruption in accordance with common circuit breaker procedures. WCR ratings, as opposed to IC ratings appear to offer a better choice to the system designer as he attempts to coordinate the protection of the entire system. Knowing the maximum amount and duration of fault current a switch will withstand gives the designer the information necessary for complete coordinated system design.

Definitions & Calculations

Advantage of RMS Symmetrical Ratings

- Date is consistently reported based on UL test procedures.
- Where time beyond the first ½ cycle is given suitable decisions can be made to use circuit breakers or fuses.
- Misleading reporting is eliminated

Blow-On Effects on Short Circuit Current in Contacts

Some switch designers analyze “blow-on” and “blow-off” effects and force vectors (due to electromagnetic repulsion) to claim increased WCR capability of their product. Such calculations are very rough approximations because of inherent errors in estimating “domain” size and number, current “pinch” effect and the problem of complex geometry of actual contact structures when compared to idealized models. The only proof of a successful design are tests, uniformly performed and consistently reported all to the same criterion such as UL 1008.

Note when using this table:

For TruONE Level 4 only, time-based rating values override lower ratings present in coordination tables below.

TruONE Level 4 withstand and Close-on Ratings (WCR) and Short-time Ratings (STR)

ABB TruONE ATS	ATS rating	Coordinated fuse ratings			Coordinated breaker ratings				Time-based ratings ^{2,3)}		Short-time ratings ²⁾	
		480V Max withstand	Class	Max fuse size	240V Max withstand	Max breaker size	480V Max withstand	Max breaker size	480V Max withstand	Time- period	480V Max withstand	Time- period
OXA, OXB (TruONE Level 2, 3, 4 controller)	30-200A	200kA	RK5	100A	200kA	250A	200kA	125A	18kA	0.1 sec	18kA ¹⁾	0.3 sec
		50kA	RK5	200A			100kA	250A				
		200kA	Class J or T	200A			200kA	250A				
		100kA	Class J or T	400A								
	260A	200kA	RK5	100A	200kA	600A	200kA	250A	25kA	0.1 sec	25kA ¹⁾	0.3 sec
		100kA	RK5	200A			100kA	600A				
		200kA	Class J or T	200A			200kA	600A				
		100kA	Class J or T	400A								
	400A	200kA	Class J or T	400A	200kA	600A	200kA	250A	35kA	0.1 sec	30kA ¹⁾	0.3 sec
		100kA	Class J or T	600A			100kA	600A				
		200kA ¹⁾	Class J or T	600A			150kA ¹⁾	600A				
		200kA	Class J or T	400A			100kA	600A				
	600A	100kA	Class J or T	600A	200kA	600A	100kA	600A	42kA	0.1 sec	30kA ¹⁾	0.3 sec
		200kA ¹⁾	Class J or T	800A			200kA ¹⁾	600A				
		200kA ¹⁾	Class J or T	800A			65kA ¹⁾	800A				
		200kA ¹⁾	Class L	800A			800A	800A				
	800A	200kA ¹⁾	Class L	1200A	85kA	1200A	85kA	1200A	65kA	0.1 sec	50kA ¹⁾	0.5 sec
	1000-1200A	100kA ¹⁾	Class L	2000A	200kA ¹⁾	1600A	100kA ¹⁾	1200A	50kA	0.1 sec	50kA ¹⁾	0.5 sec
200kA ¹⁾		Class J or T	800A	65kA ¹⁾			1600A	65kA	0.05 sec			
200kA ¹⁾		Class L	1200A									

¹⁾ 3 phase applications only

²⁾ Time-based WCR and STR do not apply to TruONE Level 2 or Level 3 products

³⁾ Time-based ratings are also known as any-breaker ratings

Specific Breaker Model Types

30-200A 2-pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1-phase	ABB	25	600A	T5V, T5L, T5H, T5S, T5N	
			42	600A	XT5V, XT5L, XT5H, XT5S, XT5N	
			50	250A	T4V, T4L, T4H, T4S, T4N	
			65	100A	T2S	
				125A	XT2N	
				250A	XT4N	
			100	125A	XT2S	
				250A	XT4S	
			150	100A	T2H	
				125A	XT2H	
				250A	XT4H	
			200	125A	XT2V, XT2L	
				250A	XT4V, XT4L	
			General Electric	18	150A	SED
		30		600A	SGP, SGL, SGH	
				60A	SEH	
		65		150A	SEH	
				250A	SFH	
		85		250A	SFP, SFL	
		100		60A	SEL	
				150A	SEL, SEP	
		200	60A	SEP		
		Schneider	25	125A	BD	
				150A	HD	
				250A	JD	
				600A	LD	
			50	600A	LR, LL, LJ, LG	
				125A	BG	
			65	150A	HG	
				250A	JG	
				125A	BJ	
			100	150A	HJ	
				250A	JJ	
				150A	HL	
			125	250A	JL	
				150A	HR	
			200	250A	JR	
				Eaton	30	400A
			42		600A	LGX, LGU, LGC, LGH, LGS
			50		250A	JDC, HJD, JD, JDB
		65	225A		FD, FDE	
			125A		EGS	
		85	250A		JGS	
			125A		EGH	
		100	225A		HFD, HFDE	
			250A		JGH	
			125A		EGC	
		200	225A	FDC, FDCE		
			250A	JGX, JGU, JGC		
			125A	ED6, ED4		
		Siemens	65	250A	FD6A, FXD6A	
				400A	SCJD6, SHJD6, SJD6	
				600A	SCLD6, SHLD6, SLD6	
				125A	HHED4, HED4	
			100	250A	HFD6, HFXD6	
				125A	CED6	
		200	250A	CFD6, HHFD6, HHFXD6		
			50	600A	300V Class T fuses	
			100	400A	300V Class T fuses	
		Fused	200	200A	300V Class T fuses	

Specific Breaker Model Types

30-200A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1 or 3-phase	ABB	42	600A	XT5V, XT5L, XT5H, XT5S, XT5N
			50	250A	T4V, T4L, T4H, T4S, T4N
				600A	T5N, T5S, T5V, T5L, T5H
			65	100A	T2S
				125A	XT2N
			100	250A	XT4N
				125A	XT2S
			150	250A	XT4S
				100A	T2H
				125A	XT2H
			200	250A	XT4H
				125A	XT2V, XT2L
				250A	XT4V, XT4L
			General Electric	18	150A
		30		600A	SGP, SGL, SGH
		42		250A	PEC
		50		600A	PGE, PGN, PGH, PGL, PGP
		65		100A	TEY
				125A	TEYF, TEYD, TEYH
				150A	SEH
		85		250A	SFH, PEE
				250A	SFP, SFL
		100		125A	TEYL
				150A	SEP, SEL
				250A	PEN
				250A	PEH
		150		250A	SEP
				250A	PEL
		Schneider		25	125A
			150A		HD
			250A		JD
			600A		LD
			30	125A	BG, BJ
			50	600A	LR, LL, LJ, LG
			65	150A	HG
				250A	JG
		100	150A	HJ	
			250A	JJ	
		125	150A	HL	
			250A	JL	
		200	150A	HR	
			250A	JR	
		Eaton	30	400A	KDC, HKD, CHKD, KD, CKD
			35	225A	FD, FDE
			42	600A	LGX, LGU, LGC, LGH, LGS
			50	225A	HFD, HFDE, FDCE
				250A	JDC, HJD, JD, JDB
			65	225A	FD, FDE
			85	125A	EGS
				250A	JGS
			100	125A	EGH
				250A	JGH
		200	125A	EGC	
			225A	FDC	
			250A	JGX, JGU, JGC	
		Siemens	65	125A	ED4, ED6
				250A	FD6A, FXD6A
				400A	SCJD6, SHJD6, SJD6
				600A	SCLD6, SHLD6, SLD6
			100	125A	HHED6, HED4
				250A	HFD6, HFXD6, HHFD6, HHFXD6
		200	125A	CED6	
			250A	CFD6	
		Fused	50	600A	300V Class T fuses
			100	400A	300V Class T fuses
			200	200A	300V Class T fuses

Specific Breaker Model Types

30-200A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V 1 or 3-phase	ABB	25	125A	XT2N
				250A	T4N, XT4N
				600A	T5N
			35	100A	T2S
				125A	XT2S
				250A	T4S, XT4S
			42	600A	XT5N, T5S
				600A	XT5V, XT5L, XT5H, XT5S
				250A	T4V, T4L, T4H
			50	600A	T5H, T5L, T5V
				100A	T2H
			65	125A	XT2H
				250A	XT4H
			100	125A	XT2L
				250A	XT4L
		150	125A	XT2V, XT4V	
		General Electric	14	100A	TEY
				125A	TEYF
			18	150A	SED
				150A	SEH
			25	250A	PEC
				600A	SGH, SGL, SGP, PGE, PGN, PGH, PGL, PGP
			35	125A	TEYH
				250A	SFH, PEE
			42	250A	SFP, SFL
				150A	SEP, SEL
		50	60A	SEP, SEL	
			125A	TEYL	
		65	250A	PEN	
			100	250A	PEH, PEL
		Schneider	18	125A	EDB, BD
				150A	HD
				250A	JD
				600A	LD
			25	600A	LR, LL, LJ, LG
				125A	EGB, EJB, BG, BJ
			30	150A	HG
				250A	JG
			35	150A	HJ
				250A	JJ
		65	150A	HR, HL	
			250A	JR, JL	
		100	400A	KD, CKD, HKD, CHKD, KDC	
			30	125A	EGS, EGH
				225A	FD, FDE
				250A	JGS, JDB, JD, HJD, JGH
			42	250A	JDC
				225A	FDC, FDCE, HFD, HFDE
			50	250A	JGX, JGU, JGC, JGH
		125A		EGC	
		150	100A	EGC+CL	
		Siemens	18	125A	ED4
				125A	ED6
			25	250A	FD6, FXD6A
				400A	SCJD6, SHJD6, SJD6
				600A	SCLD6, SLD6, SHLD6
			35	125A	HED4
				125A	HHED6
		65	250A	CFD6, HHFD6, HHFXD6, HFD6, HFXD6, JGH+CL	
			125A	CED6	
		Fused	50	200A	Class RK5 fuses
			100	400A	Class J & T fuses
			200	100A	Class RK5 fuses
		200A		Class J & T fuses	

Specific Breaker Model Types

260A 2 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1-phase	ABB	65	100A	T2S	
				125A	XT2N	
				250A	T4N, XT4N	
				600A	XT5N	
			100	125A	XT2S	
				250A	T4S, XT4S	
				600A	XT5S	
			150	100A	T2H	
				125A	XT2H	
				250A	T4H, XT4H	
			200	600A	XT5H	
				125A	XT2V, XT2L	
		250A		T4V, T4L, XT4V, XT4L		
		General Electric	18	600A	XT5V, XT5L	
				150A	SED	
			50	600A	SGP, SGL, SGH	
				150A	SEH	
			65	250A	SFH	
				150A	SEL	
		100	250A	SFP, SFL		
			150A	SEP		
		Schneider	25	125A	BD	
				150A	HD	
				250A	JD	
				600A	LD	
			65	125A	BG	
				150A	HG	
				250A	JG	
			100	600A	LG	
				125A	BJ	
				150A	HJ	
			125	250A	JJ	
				600A	LR, LL, LJ	
				150A	HL	
			200	250A	JL	
				150A	HR	
				250A	JR	
			Eaton	42	600A	LDC, CLDC, HLD, CHLD, LD, CLD
					225A	FD, FDE
		65		250A	JD, JDB	
				400A	KDC, HKD, CHKD, KD, CKD	
				125A	EGS	
		85		250A	JGS	
				600A	LGX, LGU, LGC, LGH, LGS	
				125A	EGH	
		100		225A	HFD, HFDE	
				250A	JGH, JDC, HJD	
				125A	EGC	
		200		225A	FDC, FDCE	
			250A	JGX, JGU, JGC		
			Siemens	65	125A	ED4, ED6
		250A			FD6A, FXD6A	
		400A			JD6A, JXD6A, SJD6	
		600A			LD6, LXD6, SLD6	
		85		400A	CJD6, HHJD6A, HHJXD6A, HJD6A, HJXD6A	
				600A	CLD6, HHLXD6, HHLXD6, HLD6, HLXD6	
				125A	HHED6, HED4	
		100		250A	HFD6, HFXD6	
				400A	SHJD6	
				600A	SHLD6	
				125A	CED6	
		200		250A	CFD6, HHFD6, HHFXD6	
			400A	SCJD6		
			600A	SCLD6		
			Fused	50	800A	300V Class T fuses
		100		600A	300V Class T fuses	
		200		400A	300V Class T fuses	

Specific Breaker Model Types

260A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1 or 3-phase	ABB	35	600A	T5S	
			50	600A	T5H, T5V, T5L	
			65	100A	T2S	
				125A	XT2N	
				250A	T4N, XT4N	
				600A	XT5N	
			100	125A	XT2S, XT2H	
				250A	T4S, XT4S	
				600A	XT5S	
			150	100	T2H	
				250	T4H, XT4H	
				600	XT5H	
			200	125	XT2V, XT2L	
				250	T4V, T4L, XT4V, XT4L	
				600	XT5V, XT5L	
			General Electric	18	150A	SED
				42	250A	PEC
				50	600A	SGP, SGL, SGH
		65		100A	TEY	
				125A	TEYF, TEYD, TEYH	
				150A	SFH	
				600A	PEE	
		100		125A	TEYL	
				150A	SEL	
				250A	SFP, SFL	
				600A	PEN, PEH, PEL, PEP	
		150		250A	PEH	
		200		150A	SEP	
				250A	PEL	
		Schneider	25	125A	BD	
				150A	HD	
				250A	JD	
				600A	LD	
			35	125A	BG	
				125A	BJ	
			65	150A	HG	
				250A	JG	
				600A	LG	
			100	150A	HJ	
				250A	JJ	
				600A	LR, LL, LJ	
			125	150A	HL	
				250A	JL	
			200	150A	HR	
				250A	JR	
			Eaton	42	600A	LDC, CLDC, HLD, CHLD, LD, CLD
					65	225A
		250A				JD, JDB, HJD
		400A				KDC, HKD, CHKD, KD, CKD
		85		600A	LGX, LGU, LGC, LGH, LGS	
				125A	EGS	
		100		250A	JGS	
125A	EGH					
225A	HFD, HFDE, FDCE					
200	250A	JGH, JDC				
	125A	EGC				
	225A	FDC				
250A	JGX, JGU, JGC					

Specific Breaker Model Types

260A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1 or 3-phase	Siemens	65	125A	ED4, ED6	
				250A	FD6A, FXD6A	
				400A	JD6A, JXD6A, SJD6	
				600A	LD6, LXD6, SLD6	
			85	400A	CJD6, HHJD6A, HHJXD6A, HJD6A, HJXD6A	
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6	
				100	125A	HHED6, HED4
					250A	HFD6, HFXD6, HHFD6, HHFXD6
			400A		SHJD6	
			600A		SHLD6	
			200	125A	CED6	
				250A	CFD6	
		400A		SCJD6		
		600A		SCLD6		
		Fused	50	800A	300V Class T fuses	
			100	600A	300V Class T fuses	
			200	400A	300V Class T fuses	
			200	200A	300V Class T fuses	
		480V 1 or 3-phase	ABB	25	125A	XT2N
					250A	T4N, XT4N
	600A				T5N	
	100A				T2S	
	35			125A	XT2S	
				250A	T4S, XT4S	
				600A	T5S, XT5N	
				600A	T5H, T5L, T5V, XT5S	
	65			100A	T2H	
				125A	XT2H	
				250A	T4H, XT4H	
				600A	XT5H	
	100			125A	XT2L	
				250A	T4V, T4L, XT4L	
				600A	XT5L, XT5V	
				125A	XT2V	
	150		250A	XT4V		
			General Electric	14	100A	TEY
	18			125A	TEYF	
				150A	SED	
	25			125A	TEYD	
				150A	SEH	
250A				PEC		
35	125A			TEYH		
	250A			SFH, PEE		
	600A			SGH, PGE		
50	600A			SGL, SGP, PGN, PGH, PGL, PGP		
	65			125A	TEYL	
150A				SEL		
250A			SFL			
600A			PEN			
85	250A		SFP			
	100	150A	SEP			
250A		PEH				
150	250A	PEL				

Specific Breaker Model Types

260A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V 1 or 3-phase	Schneider	18	125A	EDB, BD	
				150A	HD	
				250A	JD	
				600A	LD	
			35	125A	EGB, BG	
				150A	HG	
				250A	JG	
				600A	LG	
			50	125A	LJ, LL, LR	
				600A	EJB, BJ	
			65	150A	HJ	
				250A	JJ	
			100	150A	HL	
				250A	JL	
			200	150A	HR	
				250A	JR	
			Eaton	35	125A	EGS
					225A	FD, FDE
		250A			JDB, JD, JGS	
		400A			KD, CKD	
		50		600A	LD, CLD, HLD, CHLD, LDC, CLDC	
				225A	HFD, HFDE, FDCE	
				250A	HJD	
				400A	HKD, CHKD, KDC	
		65		600A	LGC, LGU, LGX, LGH, LGS	
				125A	EGH	
		100		250A	JGH	
				125A	EGC	
		150		225A	FDC	
				250A	JGC, JDC, JGH+CL	
		200		125A	EGC+CL	
				250A	JGU	
		200		250A	JGX	
				Siemens	18	125A
		25	125A		ED6	
		35	250A		FD6A, FXD6A	
			400A		JD6-A, JXD6-A, HJD6-A, HJXD6-A, HHJD6-A, HHJXD6-A, CJD6-A, SJD6	
			600A		CLD6, HHL6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SLD6	
		42	125A		HED4	
		50	400A		SCJD6, SHJD6	
			600A		SCLD6, SHLD6	
		65	125A		HHED6	
250A	HFD6, HFXD6					
100	250A	CFD6, HHFD6, HHFXD6				
	200	125A	CED6			
Fused	50	600A	Class J & T fuses			
	100	200A	Class RK5 fuses			
		400A	Class J & T fuses			
	200	100A	Class RK5 fuses			
200A		Class J & T fuses				

Specific Breaker Model Types

400A 2 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1-phase	ABB	65	100A	T2S	
				125A	XT2N	
				250A	T4N, XT4N	
				600A	XT5N	
			100	125A	XT2S	
				250A	T4S, XT4S	
				600A	XT5S	
			150	100A	T2H	
				125A	XT2H	
				250A	T4H, XT4H	
				600A	XT5H	
			200	125A	XT2V, XT2L	
		250A		T4V, T4L, XT4V, XT4L		
		600A		XT5V, XT5L		
		General Electric	18	60A	SED	
				150A	SED	
			42	250A	PEC	
			50	600A	SGP, SGL, SGH	
				65	60A	SEH
					150A	SEH
					250A	SFH, PEE
			100	600A	PGE	
				60A	SEL	
				150A	SEL	
				250A	SFP, SFL, PEN	
			150	600A	PGN, PGH, PGL, PGP	
		200		250A	PEH	
				60A	SEP	
				150A	SEP	
		200	250A	PEL		
		Schneider	25	125A	BD	
				150A	HD	
				250A	JD	
				600A	LD	
			30	125A	BG, BJ	
				150A	HG	
				250A	JG	
			65	600A	LG	
				100	125A	BJ
					150A	HJ
			250A		JJ	
			600A		LR, LL, LJ	
125	150A		HL			
	250A		JL			
200	150A		HR			
	250A		JR			

Specific Breaker Model Types

400A 2 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1-phase	Eaton	42	600A	LDC, CLDC, HLD, CHLD
			65	225A	FD, FDE
				250A	JD, JDB
				400A	KDC, HKD, CHKD, KD, CKD
			85	125A	EGS
				250A	JGS
				600A	LGS
			100	125A	EGH
				225A	HFD, HFDE
				250A	JGH, JDC, HJD
			200	600A	LGX, LGU, LGC, LGH
				125A	EGC
		225A		FDC, FDCE	
		Siemens	65	250A	JGX, JGU, JGC
				125A	ED6, ED4
				250A	FD6A, FXD6A
			100	400A	JD6A, JXD6A, SJD6
				600A	LD6, LXD6, SLD6
				125A	HHED4, HED4
			200	250A	HFD6, HFXD6
				400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, SHJD6
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, SHLD6
			Fused	125A	CED6
				250A	CFD6, HHFD6, HHFXD6
				400A	SCJD6
		50	800A	SCLD6	
		100	600A	300V T-Fuses	
		200	400A	300V T-Fuses	

Specific Breaker Model Types

400A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3-phase only	ABB	25	125A	XT2N	
				250A	T4N, XT4N	
				600A	T5N	
			35	100A	T2S	
				125A	XT2S	
				250A	T4S, XT4S	
			35	600A	T5S, XT5N	
				600A	XT5S	
				100A	T2H	
			65	125A	XT2H	
				250A	XT4H, T4H	
				600A	T5H, XT5H	
			100	125A	XT2L	
				250A	XT4L, T4L	
				600A	T5L, XT5V, XT5L	
			150	125A	XT2V	
				250A	XT4V, T4V	
				600A	T5V	
			General Electric	18	60A	SED
					150A	SED
					60A	SEH
				25	150A	SEH
					250A	PEC
					250A	SFH, PEE
		35		600A	SGH, PGE	
				600A	SGP, SGL, PGN, PGH, PGL, PGP	
		65		60A	SEL	
				150A	SEL	
				250A	SFL, PEN	
		100		60A	SEP	
				150A	SEP	
				250A	SFP, PEH	
		150		250A	PEL	
		Schneider	18	125A	EDB, BD	
				150A	HD	
				250A	JD	
				600A	LD	
			30	125A	EGB, BG, EJB, BJ	
			35	150A	HG	
				250A	JG	
				600A	LG	
			50	600A	LR, LL, LJ	
			65	150A	HJ	
				250A	JJ	
			100	150A	HL	
				250A	JL	
			200	150A	HR	
				250A	JR	

Specific Breaker Model Types

400A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3-phase only	Eaton	35	125A	EGS	
				225A	FD, FDE	
				250A	JGS, JD, JDB	
				400A	KD, CKD	
			50	600A	LDC, CLDC, HLD, CHLD, LD, CLD	
				400A	HKD, CHKD	
			600A	LGX, LGU, LGC, LGH, LGS		
			65	125A	EGH	
				225A	HFD, HFDE	
				250A	JGH, HJD	
			100	400A	KDC, PDG3	
				125A	EGC	
		225A		FDC, FDCE		
		150	250A	JGC, JDC		
			125A	EGC+CL		
		200	250A	JGU		
			250A	JGX, JGH+CL		
		Siemens	18	125A	ED4	
				250A	ED6	
			25	125A	ED6	
				250A	ED6	
	35		400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, JD6A, JXD6A, SJD6		
			600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SCLD6		
	42		125A	HED4		
			125A	HHED6		
	65		400A	SCJD6, SHJD6		
			600A	SCLD6		
	100	250A	HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A			
		125A	CED6			
	200	250A	CFD6			
		200A	CLASS RK5 FUSES			
	600A	200A	CLASS J & T FUSES			
		600A	CLASS J & T FUSES			
	480V, 3 and 1-phase	ABB	25	25	125A	XT2N
					250A	T4N, XT4N
					600A	T5N
				35	100A	T2S
					125A	XT2S
					250A	XT4S, T4S
				50	600A	T5S, XT5N
					600A	T5H, T5L, T5V, XT5S
					100A	T2H
65				125A	XT2H	
				250A	T4H, XT4H	
				600A	XT5H	
100			125A	XT2L		
			250A	T4V, T4L, XT4L		
			600A	XT5V, XT5L		
150			125A	XT2V		
			250A	XT4V		
			60A	SED		
General Electric			18	150A	SED	
				60A	SEH	
			25	150A	SEH	
				250A	PEC	
			35	250A	SFH, PEE	
				600A	SGH	
			50	600A	SGL, SGP	
				60A	SEL	
			65	150A	SEL	
				250A	SFL, PEN	
			85	250A	SFP	
				60A	SEP	
100		150A	SEP			
		250A	PEH			
150		250A	PEL			
		250A	PEL			

Specific Breaker Model Types

400A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3 and 1-phase	Schneider	18	125A	EDB, BD	
				150A	HD	
				250A	JD	
				600A	LD	
			30	125A	EGB, BG, EJB, BJ	
				150A	HG	
			35	250A	JG	
				600A	LG	
				50	600A	LJ, LL, LR
			65	150A	HJ	
				250A	JJ	
			100	150A	HL	
				250A	JL	
			200	150A	HR	
		250A		JR		
		Eaton	35	125A	EGS	
				225A	FD, FDE	
				250A	JDB, JD, JGS	
				400A	KD, CKD	
			50	600A	LD, CLD, HLD, CHLD, LDC, CLDC	
				400A	HKD, CHKD, KDC	
				600A	LGC, LGU, LGX, LGH, LGS	
			65	125A	EGH	
				225A	HFD, HFDE	
				250A	JGH, HJD	
			100	125A	EGC	
				225A	FDC, FDCE	
				250A	JGC, JGH, JDC	
			150	125A	EGC+CL	
				250A	JGU	
			200	250A	JGX	
			Siemens	18	125A	ED4
				25	125A	ED6
		35		400A	CJD6-A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, JD6A, JXD6A, SJD6	
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SCLD6	
		42		125A	HED4	
		65		125A	HHED4	
				400A	SCJD6, SHJD6	
				600A	SCLD6, SCLD6	
		100	250A	CFD6, HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A		
		200	125A	CED6		
		Fused	100	600A	CLASS J & T FUSES	
200A	CLASS RK5 FUSES					
200	400A		CLASS J & T FUSES			
	100A		CLASS RK5 FUSES			

Specific Breaker Model Types

400A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 3-phase only	ABB	65	100A	T2S	
				125A	XT2N	
				250A	T4N, XT4N	
				600A	T5N, XT5N	
			100	125A	XT2S	
				250A	T4S, XT4S	
				600A	T5S, XT5S	
			150	100A	T2H	
				125A	XT2H	
				250A	T4H, XT4H	
			200	600A	T5H, XT5H	
				125A	XT2V, XT2L	
		250A		T4V, T4L, XT4V, XT4L		
		General Electric	18	60A	SED	
				150A	SED	
				250A	PEC	
			50	600A	SGP, SGL, SGH	
				65	60A	SEH
					150A	SEH
			250A		SFH, PEE	
			100	600A	PGE	
				150	60A	SEL
					150A	SEL
			250A		SFL, PEN	
			200	600A	PGN, PGH, PGL, PGP	
		25		60A	PEH	
				150A	SEP	
			250A	SFP, PEL		
		Schneider	25	125A	BD	
				150A	HD	
				250A	JD	
				600A	LD	
			30	125A	BG, BJ	
				65	150A	HG
					250A	JG
			600A		LG	
			100	150A	HJ	
				250A	JJ	
				600A	LL, LJ	
			125	150A	HL	
		250A		JL		
		200	150A	HR		
			250A	JR		
			600A	C		
		Eaton	42	600A	LDC, CLDC, HLD, CHLD, LD, CLD	
				65	225A	FD, FDE
					250A	JD, JDB
			400A		KD, CKD, HKD, CHKD, KDC	
			85	125A	EGS	
				250A	JGS	
				600A	LGS	
			100	125A	EGH	
				225A	HFD, HFDE	
				250A	JGH	
150	600A		LGH			
	600A		LGX, LGU, LGC			
	200	125A	EGC			
225A		FDC, FDCE				
250A		JGX, JGU, JGC, JDC				

Specific Breaker Model Types

400A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 3-phase only	Siemens	65	125A	ED6, ED4
				250A	FD6A, FXD6A
				400A	JD6A, JXD6A, SCJD6
				600A	LD6, LXD6, SLD6
			100	125A	HHED6, HED4
				250A	HFD6, HFXD6
				400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, SHJD6
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, SHLD6
			200	125A	CED6
				250A	CFD6, HHFD6, HHFXD6
				400A	SCJD6
				600A	SCLD6
		Fused	100	800A	300V Class T- fuses
			200	600A	300V Class T- fuses
	240V, 3 and 1-phase	ABB	65	100A	T2S
				125A	XT2N
				250A	T4N, XT4N
				600A	XT5N
			100	125A	XT2S
				250A	T4S, XT4S
				600A	XT5S
			150	100A	T2H
				125A	XT2H
				250A	T4H, XT4H
			200	600A	XT5H
				125A	XT2V, XT2L
250A				T4V, T4L, XT4V, XT4L	
General Electric			18	60A	SED
				150A	SED
				600A	SGP, SGL, SGH
			50	60A	SEH
				150A	SEH
		250A		SFH	
		65	60A	SEL	
			150A	SEL	
			250A	SFP, SFL	
		100	60A	SEP	
			150A	SEP	
			250A	SEP	
		Schneider	25	125A	BD
				150A	HD
				250A	JD
				600A	LD
			65	125A	BG
				150A	HG
250A				JG	
600A				LG	
100			125A	BJ	
			150A	HJ	
			250A	JJ	
	600A		LR, LL, LJ		
125	150A		HL		
	250A		JL		
200	150A		HR		
	250A		JR		

Specific Breaker Model Types

400A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 3 and 1-phase	Eaton	42	600A	LDC, CLDC, HLD, CHLD
			65	225A	FD, FDE
				250A	JD, JDB
				400A	KDC, HKD, CHKD, KD, CKD
			85	125A	EGS
				250A	JGS
				600A	LGS
			100	125A	EGH
				225A	HFD, HFDE
				250A	JGH, JDC, HJD
			200	600A	LGX, LGU, LGC, LGH
				125A	EGC
		225A		FDC, FDCE	
		Siemens	65	250A	JGX, JGU, JGC
				125A	ED6, ED4
				250A	FD6A, FXD6A
			100	400A	JD6A, JXD6A, SJD6
				600A	LD6, LXD6, SLD6
				125A	HHED4, HED4
			200	250A	HFD6, HFXD6
				400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, SHJD6
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, SHLD6
			Fused	125A	CED6
				250A	CFD6, HHFD6, HHFXD6
				400A	SCJD6
		600A	SCLD6		
		50	800A	300V T-Fuses	
		100	600A	300V T-Fuses	
		200	400A	300V T-Fuses	

Specific Breaker Model Types

600A 2 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1-phase	ABB	65	100A	T2S	
				125A	XT2N	
				250A	T4N, XT4N	
				600A	XT5N	
			100	125A	XT2S	
				250A	T4S, XT4S	
				600A	XT5S	
			150	100A	T2H	
				125A	XT2H	
				250A	T4H, XT4H	
				600A	XT5H	
			200	125A	XT2V, XT2L	
		250A		T4V, T4L, XT4V, XT4L		
		600A		XT5V, XT5L		
		General Electric	18	60A	SED	
				150A	SED	
				250A	PEC	
			50	600A	SGP, SGL, SGH	
				65	60A	SEH
					150A	SEH
			250A		SFH, PEE	
			600A		PGE	
			100	60A	SEL	
				150A	SEL	
				250A	SFP, SFL, PEN	
				600A	PGN, PGH, PGL, PGP	
			150	250A	PEH	
				200	60A	SEP
					150A	SEP
			250A		PEL	
			Schneider	25	125A	BD
					150A	HD
		250A			JD	
		600A			LD	
		65		125A	BG	
				150A	HG	
				250A	JG	
				600A	LG	
		100		125A	BJ	
				150A	HJ	
				250A	JJ	
				600A	LR, LL, LJ	
125	150A	HL				
	250A	JL				
200	150A	HR				
	250A	JR				

Specific Breaker Model Types

600A 2 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V 1-phase	Eaton	42	600A	LDC, CLDC, HLD, CHLD, LD, CLD	
			65	225A	FD, FDE	
				250A	JD, JDB	
				400A	KDC, HKD, CHKD, KD, CKD	
			85	125A	EGS	
				250A	JGS	
				600A	LGS	
			100	125A	EGH	
				225A	HFD, HFDE	
				250A	JGH, JDC, HJD	
			200	600A	LGX, LGU, LGC, LGH	
				125A	EGC	
		225A		FDC, FDCE		
		Siemens	65	250A	JGX, JGU, JGC	
				125A	ED6, ED4	
				250A	FD6A, FXD6A	
			85	400A	JD6A, JXD6A, SJD6	
				600A	LD6, LXD6, SLD6	
				400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A	
			100	600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6	
				125A	HHED4, HED4	
				250A	HFD6, HFXD6	
			200	400A	SHJD6	
				600A	SHLD6	
				125A	CED6	
		Fused	250A	CFD6, HHFD6, HHFXD6		
			400A	SCJD6		
			600A	SCLD6		
				50	800A	300V Class T-fuses
				100	600A	300V Class T-fuses
				200	400A	300V Class T-fuses

Specific Breaker Model Types

600A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3-phase only	ABB	20	1200A	XT7L, XT7H, XT7S
			25	125A	XT2N
				250A	T4N, XT4N
				600A	T5N
			35	100A	T2S
				125A	XT2S
				250A	XT4S, T4S
				600A	T5S, XT5N
			50	800A	T6N, XT6H, XT6S, XT6N
				800A	T6S, T6H, T6L, XT5S
				100A	T2H
			65	125A	XT2H
				250A	T4H, XT4H
				600A	T5H, XT5H
			100	125A	XT2L
				250A	XT4L, T4L, T4V
				600A	T5L, XT5L
			150	125A	XT2V
		250A		XT4V	
		600A		T5V, XT5V	
		General Electric	18	60A	SED
				150A	SED
			25	60A	SEH
				150A	SEH
				250A	PEC
			35	250A	SFH, PEC
				600A	SGH, PGE
			65	60A	SEL
				150A	SEL
				250A	SFL, PEN
			100	600A	SGL, SGP, PGN
				60A	SEP
				150A	SEP
			150	250A	SFP, PEH
		600A		PGH	
		200	250A	PEL	
		600A	PGL		
		600A	PGP		
		Schneider	18	125A	EDB, BD
				150A	HD
				250A	JD
				600A	LD
30	125A		EGB, EJB, BG, BJ		
35	150A		HG		
	250A		JG		
	600A		LG		
65	150A		HJ		
	250A		JJ		
	600A		LJ		
100	150A		HL		
	250A		JL		
	600A		LL		
200	150A	HR			
	250A	JR			
	600A	LR			

Specific Breaker Model Types

600A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3-phase only	Eaton	35	125A	EGS	
				225A	FD, FDE	
				250A	JDB, JD, JGS	
				400A	KD, CKD	
				600A	LD, CLD	
			50	600A	LGS	
				800A	MDL, CMDL	
				65	125A	EGH
					225A	HFD, HFDE
			250A		JGH, HJD	
			400A		HKD, CHKD	
			600A	HLD, CHLD, LGH		
				800A	HMDL, CHMDL	
				100	125A	EGC
					225A	FDC, FDCE
			250A		JGC, JDC	
			400A		KDC	
			600A	LDC, CLDC, LGC		
				150	100A	EGC
					250A	JGU
			600A		LGU	
			200	250A	JGX, JGH+CL	
				600A	LGX	
			Siemens	18	125A	ED4
					25	125A
				35	400A	JD6A, JXD6A, SCJD6
					600A	LD6, LXD6, SCLD6
				65	125A	HED4
					125A	HHED4
					400A	HJD6A, HJXD6A, SHJD6
		600A			HLD6, HLXD6, SCLD6	
		100		250A	HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A	
				400A	HHJD6A, HHJXD6A	
				600A	HHLD6, HHLXD6	
				150	400A	CJD6-A, SCJD6
		600A			CLD6, SCLD6	
		200		125A	CED6	
				250A	CFD6	
		Fused		100	600A	Class RK5 fuses
				400A	Class RK5 fuses	
				200	800A	Class J & T fuses
					800A	CLASS L Fuses
		480V, 3- and 1-phase		25	ABB	125A
			250A			T4N, XT4N
			600A			T5N
			35		100A	T2S
					125A	XT2S
					250A	XT4S, T4S
			600A	T5S, XT5N		
				50	600A	T5V, T5L, T5H, XT5S
	65				100A	T2H
			125A		XT2H	
			250A	T4H, XT4H		
			600A	XT5H		
	100		125A	XT2L		
			250A	XT4L, T4L, T4V		
			600A	XT5L, XT5V		
	150		125A	XT2V		
			250A	XT4V		

Specific Breaker Model Types

600A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3- and 1-phase	General Electric	18	60A	SED
				150A	SED
			25	60A	SEH
				150A	SEH
				250A	PEC
			35	250A	SFH, PEE
				600A	SGH, PGE
			50	600A	SGP, SGL, PGN, PGH, PGL, PGP
			65	60A	SEL
				150A	SEL
				250A	SFL, PEN
			85	250A	SFP
			100	60A	SEP
				150A	SEP
				250A	PEH
		150	250A	PEL	
		Schneider	18	125A	EDB, BD
				150A	HD
				250A	JD
				600A	LD
			30	125A	EGB, BG, BJ, EJB
			35	150A	HG
				250A	JG
				600A	LG
			50	600A	LR, LL, LJ
			65	150A	HJ
				250A	JJ
			100	150A	HL
				250A	JL
			200	150A	HR
				250A	JR
		Eaton	35	125A	EGS
				225A	FD, FDE
				250A	JDB, JD, JGS
				400A	KD, CKD
			50	600A	LD, CLD, HLD, CHLD, LDC, CLDC
				400A	HKD, CHKD, KDC
				600A	LGX, LGU, LGC, LGH, LGS
			65	125A	EGH
				225A	HFD, HFDE
				250A	JGH, HJD
			100	125A	EGC
				225A	FDC, FDCE
				250A	JGC, JGH, JDC
			150	100A	EGC
				250A	JGU
		200	250A	JGX	
		Siemens	18	125A	ED4
25	125A		ED6		
35	400A		CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, JD6A, JXD6A, SJD6		
	600A		CLD6, HHL6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SCLD6		
42	125A		HED4		
65	125A		HHED4		
	400A		SCJD6, SHJD6		
600A	SCLD6				
100	250A	CFD6, HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A			
200	125A	CED6			
Fused	100	200A	Class RK5 fuses		
		600A	Class J & T Fuses		
	200	100A	Class RK5 fuses		
		200A	Class J & T Fuses		
		400A	Class J & T Fuses		

Specific Breaker Model Types

600A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 3-phase only	ABB	18	60A	SED	
				150A	SED	
			20	1200A	XT7L, XT7H, XT7S	
			25	125A	BD	
				150A	HD	
				250A	JD	
				600A	LD	
			35	800A	XT6H, XT6S, XT6N	
			50	800A	T6L, T6H, T6S, T6N	
			65	100A	T2S	
				125A	XT2N	
				250A	T4N, XT4N	
				600A	T5N, XT5N	
			100	125A	XT2S	
				250A	T4S, XT4S	
				600A	T5S, XT5S	
			150	100A	T2H	
				125A	XT2H	
				250A	T4H, XT4H	
				600A	T5H, XT5H	
			200	125A	XT2V, XT2L	
				250A	T4V, T4L, XT4V, XT4L	
				600A	T5V, T5L, XT5V, XT5L	
			General Electric	18	60A	SED
					150A	SED
				42	250A	PEC
				65	60A	SEH
					150A	SEH
					250A	SFH, PEE
				100	600A	SGH, PGE
		60A			SEL	
		150A			SEL	
		150		250A	SFL, PEN	
				600A	SGL, PGN	
				250A	PEH	
		200		600A	PGH	
				60A	SEP	
				150A	SEP	
				250A	SFP, PEL	
		Schneider		25	600A	SGP, PGL, PGP
					125A	BD
			150A		HD	
			250A		JD	
			65	600A	LD	
				125A	BG	
				150A	HG	
			100	250A	JG	
				600A	LG	
				125A	BJ	
			125	150A	HJ	
				250A	JJ	
				600A	LL, LJ	
			200	150A	HL	
				250A	JL	
				150A	HR	
			200	250A	JR	
				600A	LR	

Specific Breaker Model Types

600A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 3-phase only	Eaton	65	225A	FD, FDE	
				250A	JD, JDB	
				400A	KD, CKD	
				600A	LD, CLD	
				800A	HMDL, CHMDL, MDL, CMDL	
			85	125A	EGS	
				250A	JGS	
				600A	LGS	
			100	125A	EGH	
				225A	HFD, HFDE	
				250A	HJD, JGH	
				400A	HKD, CHKD	
		200	600A	LGH, HLD, CHLD		
			125A	EGC		
			225A	FDC, FDCE, JDC		
			250A	JGX, JGU, JGC		
		Siemens	65	400A	KDC	
				600A	LGX, LGU, LGC, LDC, CLDC	
				125A	ED6, ED4	
				250A	FD6A, FXD6A	
			100	400A	JD6A, JXD6A, SJD6	
	600A			LD6, LXD6, SLD6		
	125A			HHED4, HED4		
	250A			HFD6, HFXD6		
	200		400A	HJD6A, HJXD6A, SHJD6		
			600A	HLD6, HLXD6, SHLD6		
		125A	CED6			
		250A	CFD6, HHFD6, HHFXD6			
	Fused	200	800A	300V Class T-fuses		
	240V, 3- and 1-phase	ABB	65	100A	T2S	
				125A	XT2N	
				250A	T4N, XT4N	
				600A	XT5N	
				100	125A	XT2S
				250A	T4S, XT4S	
			150	600A	XT5S	
				100A	T2H	
				125A	XT2H	
			200	250A	T4H, XT4H	
				600A	XT5H	
				125A	XT2V, XT2L	
			General Electric	18	250A	T4V, T4L, XT4V, XT4L
600A					XT5V, XT5L	
60A					SED	
42				150A	SED	
				250A	PEC	
				600A	SGP, SGL, SGH	
50		60A		SEH		
		150A		SEH		
		250A		SFH, PEE		
65		600A		PGE		
		60A		SEL		
		150A		SEL		
100		250A	SFP, SFL, PEN			
		600A	PGN, PGH, PGL, PGP			
		250A	PEH			
150		60A	SEP			
		150A	SEP			
		250A	PEL			

Specific Breaker Model Types

600A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 3- and 1-phase	Schneider	25	125A	BD	
				150A	HD	
				250A	JD	
				600A	LD	
			65	125A	BG	
				150A	HG	
				250A	JG	
				600A	LG	
			100	125A	BJ	
				150A	HJ	
				250A	JJ	
			600A		LR, LL, LJ	
				150A	HL	
				250A	JL	
			200	150A	HR	
		250A		JR		
		Eaton	42	600A LDC, CLDC, HLD, CHLD, LD, CLD		
				65	225A	FD, FDE
					250A	JD, JDB
			400A		KDC, HKD, CHKD, KD, CKD	
			85	125A	EGS	
				250A	JGS	
				600A	LGS	
			100	125A	EGH	
				225A	HFD, HFDE	
				250A	JGH, JDC, HJD	
				600A	LGX, LGU, LGC, LGH	
			200	125A	EGC	
				225A	FDC, FDCE	
				250A	JGX, JGU, JGC	
			Siemens	65	125A	ED6, ED4
		250A			FD6A, FXD6A	
		400A			JD6A, JXD6A, SJD6	
		600A			LD6, LXD6, SLD6	
		85		400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A	
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6	
		100		125A	HHED4, HED4	
				250A	HFD6, HFXD6	
				400A	SHJD6	
				600A	SHLD6	
		200		125A	CED6	
				250A	CFD6, HHFD6, HHFXD6	
400A	SCJD6					
600A	SCLD6					
Fused	50	800A 300V Class T-fuses				
	100	600A 300V Class T-fuses				
	200	400A 300V Class T-fuses				

Specific Breaker Model Types

800A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3 Phase	ABB	65	600	XT5H
				800	XT6H
				1200	XT7L, XT7H
	480V, 3 Phase		85	1200	T7L
240V, 1 Phase					

1000-1200A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
OXA, OXB (TruONE Level 2, 3, 4 controller)	480V, 3 Phase	ABB	50	600	XT5S	
				800	T6S, XT6S	
				1200	T7S, XT7S	
			65	600	T5H, XT5H	
				800	T6H, XT6H	
				1200	T7H, XT7L, XT7H	
			85	800	T6L	
				1200	T7L	
			100	600	T5L, XT5L	
				150	600	T5V, XT5V
				General Electric	50	1200
			65		600	SGL
		100	1200		SKP, SKL	
		Schneider	100	600	SGP	
			50	1200	PK, RL, RJ, RK	
				600	LJ	
		800		MJ		
		1200	PL, PJ			
			100	600	LL	
			200	600	LR	
		Eaton	50	600	LGS	
				800	MDL, CMDL	
				1200	NGS, ND, CND	
			65	400	HKD, CHKD	
				600	LGH, HLD, CHLD	
				800	HMDL, CHMDL	
			1200	1200	NGH, HND, CHND	
				1600	RGH	
				100	400	KDC
			150	600	LGC, LDC, CLDC	
				600	LGU	
				200	600	LGX
		Siemens	50	800	MD6, MXD6, LMD6, LMXD6	
				1200	ND6, NXD6	
				1600	PD6, PXD6	
			65	400	HJD6, HJXD6, SHJD6	
				600	HLD6, HLXD6, SCLD6	
				800	HMD6, HMXD6	
			1200	1200	HND6, HNXD6	
				1600	CPD6, HPD6, HPXD6	
				100	800	CMD6
			150	1200	CND6	
				400	CJD6, SCJD6	
				600	CLD6, SCLD6	
		Fused	100	2000	CLASS L fuses	
			200	600	CLASS RK5 fuses	
				800	CLASS J & T fuses	
				1200	CLASS L fuses	

Specific Breaker Model Types

1000-1200A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 3 Phase	ABB	65	600	T5N, XT5N
				800	XT6N
				1200	XT7L, XT7H, XT7S
			85	800	T6L, T6H, T6S
				1200	T7L, T7H
			100	600	T5S, XT5S
		800		XT6S	
		150	600	T5H, XT5H	
			200	600	T5V, T5L, XT5V, XT5L
		800		XT6H	
			General Electric	65	600
		1200			SKH
		100		600	SGL
				1200	SKP, SKL
		200	600	SGP	
			Schneider	50	1200
		65			600
				800	MJ, MG
		100		1200	PL, PJ, PK
				600	LJ
		125		LL	
		200	LR		
		Eaton	50	1200	NGS
				65	400
			600		LD, CLD
			800		HMDL, CHMDL, MDL, CMDL
			1200		NGH, HND, CHND, ND, CND
			1600	RGH	
			85	600	LGS
			100	400	HKD, CHKD
				600	LGH, HLD, CHLD
			200	400	KDC
				600	LGX, LGU, LGC, LDC, CLDC
			Siemens	65	400
		600			LD6, LXD6, SLD6
		800			MD6, MXD6, LMD6, LMXD6
		1200			HND6, NXD6
		1600			PD6, PXD6
		100		400	HJD6, HJXD6, SHJD6
				600	HLD6, HLXD6, SHLD6
				800	HMD6, HMXD6
				1200	HND6, HNXD6
				1600	HPD6, HPXD6
		200		400	CJD6, SCJD6
				600	CLD6, SCLD6
				800	CMD6
				1200	CND6
1600	CPD6				
Fused	200	800	CLASS T fuses		

Specific Breaker Model Types

1000-1200A 3 or 4 pole TruONE ATS transfer switches

ABB TruONE ATS	Max. Rated Voltage	Breaker Manufacturer	Max. Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
OXA, OXB (TruONE Level 2, 3, 4 controller)	240V, 1-phase only	ABB	50	1200	XT7S, XT7H, XT7L
			65	600	T5N, XT5N
				800	XT6N
			100	600	T5S, XT5S
				800	XT6S
			150	600	T5H, XT5H
		200	600	T5V, T5L, XT5V, XT5L	
			800	XT6H	
		General Electric	50	1200	SKH, SKL, SKP
			65	600	SGH
			100	600	SGL
			200	600	SGP



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