



## **Zenith T-series 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 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.



## Zenith Product Ratings

The ABB family of transfer switches have maintained an industry-leading role in ratings from the time of its introduction. Today all ZTX and ZTG 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.

### Zenith T-series

Automatic transfer switch families

- **ZTX** Standard Transition Automatic Transfer Switches 30 - 1200 amps
- **ZTG** Standard Transition Automatic Transfer Switches 30 - 3000 amps
- **ZTGD** Delayed Transition Automatic Transfer Switches 30 - 3000 amps
- **ZTS** Standard Transition Automatic Transfer Switches 30 - 3000 amps
- **ZTSD** Delayed Transition Automatic Transfer Switches 30 - 3000 amps
- **ZTSCT** Closed Transition Automatic Transfer Switches 1600 - 3000 amps
- **ZBTS** Standard Transition Bypass-Isolation Automatic Transfer Switches 100-3000A
- **ZBTSD** Delayed Transition Bypass-Isolation Automatic Transfer Switches 100-3000A
- **ZBTSCT** Closed Transition Bypass-Isolation Automatic Transfer Switches 1600-3000A



## 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 ZTS and ZBTS T-series only, time-based rating values override lower ratings present in coordination tables below.

ZTS and ZBTS T-series withstand and Close-on Ratings (WCR) and Short-time Ratings (STR)

ATS frame	ATS rating	Transition types	Coordinated fuse ratings			Coordinated breaker ratings				Time-based ratings		Short-time ratings	
			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
R2	30-200A	OT, DT	200kA	RK5	100A	200kA	250A	200kA	125A	18kA	0.1 sec	18kA <sup>1</sup>	0.3 sec
			50kA	RK5	200A			100kA	250A				
			200kA	Class J or T	200A			100kA	250A				
			100kA	Class J or T	400A								
R2	260A	OT, DT	200kA	RK5	100A	200kA	600A	200kA	250A	25kA	0.1 sec	25kA <sup>1</sup>	0.3 sec
			100kA	RK5	200A			100kA	600A				
			200kA	Class J or T	200A								
			100kA	Class J or T	400A								
R3	400A	OT, DT	200kA	Class J or T	400A	200kA	600A	200kA	250A	35kA	0.1 sec	30kA <sup>1</sup>	0.3 sec
			100kA	Class J or T	600A			100kA	600A				
			200kA <sup>1</sup>	Class J or T	600A								
			200kA <sup>1</sup>	Class J or T	600A								
R3	600A	OT, DT	200kA	Class J or T	400A	200kA	600A	100kA	600A	42kA	0.1 sec	30kA <sup>1</sup>	0.3 sec
			100kA	Class J or T	600A			200kA <sup>1</sup>	600A				
			200kA <sup>1</sup>	Class J or T	800A								
			200kA <sup>1</sup>	Class L	800A								
R4	800-1200A	OT, DT	100kA <sup>1</sup>	Class L	2000A	200kA <sup>1</sup>	1600A	100kA <sup>1</sup>	1200A	50kA	0.1 sec	50kA <sup>1</sup>	0.5 sec
			200kA <sup>1</sup>	Class J or T	800A			65kA <sup>1</sup>	1600A				
			200kA <sup>1</sup>	Class L	1200A								
63L	100-1200A	CT	200kA <sup>1</sup>	Class L	3000A	-	-	85kA	1600A	50kA	0.05 sec	-	-
R5	1600-3000A	OT, DT, CT	200kA <sup>1</sup>	Class L	4000A	100kA	no max	100kA	no max	100kA	0.05 sec	65kA	0.5 sec
R4B (Bypass)	100-600A	OT, DT	200kA	Class J or T	400A	200kA	600A	100kA	600A	50kA	0.1 sec	50kA	0.5 sec
			100kA	Class J or T	600A			200kA <sup>1</sup>	600A				
			200kA <sup>1</sup>	Class J or T	800A								
			200kA <sup>1</sup>	Class L	800A								
R4B (Bypass)	800-1200A	OT, DT	100kA <sup>1</sup>	Class L	2000A	200kA	1600A	100kA <sup>1</sup>	1200A	50kA	0.1 sec	50kA	0.5 sec
			200kA <sup>1</sup>	Class J or T	800A			65kA <sup>1</sup>	1600A				
			200kA <sup>1</sup>	Class L	1200A								
R5B (Bypass)	1600-3000A	OT, DT, CT	200kA	Class L	4000A	100kA	no max	100kA	no max	100kA	0.05 sec	65kA	0.5 sec

<sup>1)</sup> 3 phase applications only

<sup>2)</sup> Time-based WCR and STR do not apply to ZTX and ZTG T-series products

## Specific Breaker Model Types

### 30-200A 2-pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V 1-phase	ABB	25	600A	T5V, T5L, T5H, T5S, T5N
			42	600A	XT5V, XT5L, XT5H, XT5S, XT5N
			50	125A	XT1N
				250A	T4V, T4L, T4H, T4S, T4N
			65	100A	T2S
				125A	XT2N, XT1S
			100	250A	XT4N
				125A	XT2S, XT1H
		150	250A	XT4S	
			100A	T2H	
		200	125A	XT2H	
			250A	XT4H	
		General Electric	18	150A	SED
			30	600A	SGP, SGL, SGH
			65	60A	SEH
				150A	SEH
			85	250A	SFH
				250A	SFP, SFL
			100	60A	SEL
		200	150A	SEL, SEP	
		Allen Bradley	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
			125	150A	HL
				250A	JL
			200	150A	HR
				250A	JR
			Eaton	30	400A
		35		600A	PDG3
		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
		200		125A	EGC, PDG1
				150A	PDG2
				225A	FDC, FDCE, PDG2
			250A	JGX, JGU, JGC	
		Siemens	65	125A	ED6, ED4
				250A	FD6A, FXD6A
400A	SCJD6, SHJD6, SJD6				
600A	SCLD6, SHLD6, SLD6				
100	125A		HHED4, HED4		
	250A		HFD6, HFXD6		
150	125A		3VA51		
	125A		CED6		
200	150A	3VA61			
	250A	CFD6, HHFD6, HHFXD6, 3VA52, 3VA62			
Fused	50	400A	Class RK1 fuses		
	50	600A	300V Class T fuses		
	100	400A	300V Class T fuses,		
	200	200A	300V Class T fuses, Class RK1 fuses		

## Specific Breaker Model Types

30-200A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V 1 or 3-phase	ABB	42	600A	XT5V, XT5L, XT5H, XT5S, XT5N
			50	125A	XT1N
				250A	T4V, T4L, T4H, T4S, T4N
				600A	T5N, T5S, T5V, T5L, T5H
			65	100A	T2S
				125A	XT2N, XT1S
				250A	XT4N
			100	125A	XT2S, XT1H
				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
			42	250A	PEC
			50	600A	PGE, PGN, PGH, PGL, PGP
				100A	TEY
				125A	TEYF, TEYD, TEYH
			65	150A	SEH
				250A	SFH, PEE
				85	250A
			100	125A	TEYL
				150A	SEP, SEL
				250A	PEN
		150	250A	PEH	
			200	60A	SEP
		200	250A	PEL	
			200	125A	140G-H
		Schneider	25	125A	BD
				150A	HD
				250A	JD
				600A	LD
			30	125A	BG, BJ
			50	600A	LR, LL, LJ, LG
				150A	HG
			65	250A	JG
				150A	HJ
			100	250A	JJ
				150A	HL
			125	250A	JL
		150A		HR	
		200	250A	JR	
			Eaton	30	400A
		35		225A	FD, FDE
				600A	PDG3
		42		600A	LGX, LGU, LGC, LGH, LGS
		50		225A	HFD, HFDE, FDCE
				250A	JDC, HJD, JD, JDB
		65		225A	FD, FDE
				125A	EGS
		85		250A	JGS
				100	125A
		250A			JGH
		200		125A	EGC, PDG1
			150A	PDG2	
			225A	FDC, PDG2	
			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
			150	125A	3VA51
				125A	CED6
			200	150A	3VA61
				250A	CFD6, 3VA52, 3VA62
		Fused	50	400A	Class RK1 fuses
				600A	300V Class T fuses
			100	400A	300V Class T fuses
				200A	300V Class T fuses, Class RK1 fuses

## Specific Breaker Model Types

30-200A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	480V 1 or 3-phase	ABB	25	125A	XT2N, XT1N
				250A	T4N, XT4N
				600A	T5N
			35	100A	T2S
				125A	XT2S, XT1S
				250A	T4S, XT4S
			42	600A	XT5N, T5S
				600A	XT5V, XT5L, XT5H, XT5S
			50	250A	T4V, T4L, T4H
				600A	T5H, T5L, T5V
		65	100A	T2H	
			125A	XT2H, XT1H	
			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	
			250A	PEH, PEL	
		100	250A	PEH, PEL	
		150	125A	140G-H	
		Schneider	18	125A	EDB, BD
				150A	HD
				250A	JD
				600A	LD
			25	600A	LR, LL, LJ, LG
				125A	EGB, EJB, BG, BJ
			35	150A	HG
				250A	JG
			65	150A	HJ
				250A	JJ
		100	150A	HR, HL	
			250A	JR, JL	
		Eaton	30	400A	KD, CKD, HKD, CHKD, KDC
				125A	EGS, EGH
			35	225A	FD, FDE
				250A	JGS, JDB, JD, HJD, JGH
			42	250A	JDC
				150	PDG2
			50	225A	FDC, FDCE, HFD, HFDE, PDG2
				250A	JGX, JGU, JGC, JGH
		100	125A	EGC, PDG1	
		150	100A	EGC+CL	
		Siemens	18	125A	ED4
				250A	ED6
			25	250A	FD6, FXD6A
				400A	SCJD6, SHJD6, SJD6
				600A	SCLD6, SLD6, SHLD6
			42	125A	HED4
				125A	HHED6, 3VA51
			65	150A	3VA61
				250A	CFD6, HHFD6, HHFXD6, HFD6, HFXD6, JGH+CL, 3VA52, 3VA62
				150A	3VA61
		150	250A	3VA62	
			250A	3VA62	
		200	125A	CED6	
		Fused	50	200A	Class RK5 fuses
				400A	Class RK1 fuses
			100	400A	Class J & T fuses
				100A	Class RK5 fuses
		200	200A	Class J & T fuses, Class RK1 fuses	



# Specific Breaker Model Types

260A 2 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V 1-phase	ABB	50	125A	XT1N	
				100A	T2S	
			65	125A	XT2N, XT1S	
				250A	T4N, XT4N	
				600A	XT5N	
				125A	XT2S, XT1H	
			100	250A	T4S, XT4S	
				600A	XT5S	
				100A	T2H	
			150	125A	XT2H	
				250A	T4H, XT4H	
				600A	XT5H	
			200	125A	XT2V, XT2L	
				250A	T4V, T4L, XT4V, XT4L	
				600A	XT5V, XT5L	
			General Electric	18	150A	SED
					600A	SGP, SGL, SGH
				50	150A	SEH
		250A			SFH	
		100		150A	SEL	
				250A	SFP, SFL	
		200	150A	SEP		
		Allen Bradley	200	125A	140G-H	
		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	
			Eaton	42	600A	LDC, CLDC, HLD, CHLD, LD, CLD
					225A	FD, FDE
		250A			JD, JDB	
		65		400A	KDC, HKD, CHKD, KD, CKD, PDG3G	
				125A	EGS	
				250A	JGS	
		85		600A	LGX, LGU, LGC, LGH, LGS	
				125A	EGH	
				225A	HFD, HFDE	
		100		250A	JGH, JDC, HJD	
				125A	EGC, PDG1	
				150A	PDG2	
		200		225A	FDC, FDCE, PDG2	
				250A	JGX, JGU, JGC	
				125A	ED4, ED6	
		Siemens		65	250A	FD6A, FXD6A
					400A	JD6A, JXD6A, SJD6
					600A	LD6, LXD6, SLD6
			400A		CJD6, HHJD6A, HHJXD6A, HJD6A, HJXD6A	
			85	600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6	
				125A	HHED6, HED4	
			100	250A	HFD6, HFXD6	
				400A	SHJD6, 3VA63, 3VA53	
				600A	SHLD6, 3VA64, 3VA54	
				125A	3VA51	
			200	125A	CED6	
				150A	3VA61	
		250A		CFD6, HHFD6, HHFXD6, 3VA52, 3VA62		
		400A		SCJD6		
		600A		SCLD6		
		800A		300V Class T fuses		
		Fused	50	400A	Class RK1 fuses	
				600A	300V Class T fuses	
			100	200A	Class RK1 fuses	
				400A	300V Class T fuses	
		200	200A	Class RK1 fuses		
			400A	300V Class T fuses		

## Specific Breaker Model Types

260A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V 1 or 3-phase	ABB	35	600A	T5S	
			50	125A	XT1N	
				600A	T5H, T5V, T5L	
			65	100A	T2S	
				125A	XT2N, XT1S	
				250A	T4N, XT4N	
			100	600A	XT5N	
				125A	XT2S, XT2H, XT1H	
				250A	T4S, XT4S	
			150	600A	XT5S	
				100	T2H	
				250	T4H, XT4H	
			200	600	XT5H	
				125	XT2V, XT2L	
				250	T4V, T4L, XT4V, XT4L	
			General Electric	18	600	XT5V, XT5L
					250	XT5V, XT5L
				42	150A	SED
		250A			PEC	
		50		600A	SGP, SGL, SGH	
				100A	TEY	
				125A	TEYF, TEYD, TEYH	
		65		150A	SFH	
				600A	PEE	
				125A	TEYL	
		100		150A	SEL	
				250A	SFP, SFL	
				600A	PEN, PEH, PEL, PEP	
		150		250A	PEH	
			150A	SEP		
		200	250A	PEL		
			200	140G-H		
		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
					225A	FD, FDE
		65		250A	JD, JDB, HJD	
				400A	KDC, HKD, CHKD, KD, CKD, PDG3G	
600A	LGX, LGU, LGC, LGH, LGS					
85	125A	EGS				
	250A	JGS				
100	125A	EGH				
	225A	HFD, HFDE, FDCE				
	250A	JGH, JDC				
200	125A	EGC, PDG1				
	150A	PDG2				
	225A	FDC, PDG2				
250A	JGX, JGU, JGC					

## Specific Breaker Model Types

260A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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, 3VA63, 3VA53	
			600A		SULD6, 3VA64, 3VA54	
			150	125A	3VA51	
				200	125A	CED6
		150A			3VA61	
		250A			CFD6, 3VA52, 3VA62	
		400A	SCJD6			
		200	600A	SCLD6		
			Fused	50	800A	300V Class T fuses
				100	400A	Class RK1 fuses
	600A			300V Class T fuses		
	200	400A		300V Class T fuses		
	200	200A	300V Class T fuses, Class RK1 fuses			
		ABB	25	125A	XT2N, XT1N	
				250A	T4N, XT4N	
				600A	T5N	
	35		100A	T2S		
			125A	XT2S, XT1S		
			250A	T4S, XT4S		
	600A	T5S, XT5N				
	50	600A	T5H, T5L, T5V, XT5S			
	65	100A	T2H			
		125A	XT2H, XT1H			
		250A	T4H, XT4H			
		600A	XT5H			
		100	125A	XT2L		
			250A	T4V, T4L, XT4L		
	600A		XT5L, XT5V			
	150	125A	XT2V			
		250A	XT4V			
	480V 1 or 3-phase	14	General Electric	100A	TEY	
				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		600A	PEN			
		85	250A	SFP		
			150A	SEP		
100		250A	PEH			
		150	250A	PEL		
Allen Bradley	150		125A	140G-H		
	65	400A	140G-K			

## Specific Breaker Model Types

260A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
ZTX (ZXO) ZTG (ZGO, ZGD) ZTS (ZSAO, ZSAD)	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
			85	250A	JGH
				225A	PDG2
			100	125A	EGC, PDG1
				150A	PDG2
				225A	FDC
				250A	JGC, JDC, JGH+CL
			150	125A	EGC+CL
				250A	JGU
		200	250A	JGX	
			250A	JG2	
		Siemens	18	125A	ED4
				125A	ED6
			35	250A	FD6A, FXD6A
				400A	JD6-A, JXD6-A, HJD6-A, HJXD6-A, HHJD6-A, HHJXD6-A, CJD6-A, SJD6, 3VA63, 3VA53
				600A	CLD6, HHLXD6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SLD6, 3VA64, 3VA54
			42	125A	HED4
400A	SCJD6, SHJD6				
50	600A		SCLD6, SHLD6		
	125A		HHED6, 3VA51		
65	250A		HFD6, HFXD6		
	250A		CFD6, HHFD6, HHFXD6, 3VA52, 3VA62		
100	150A		3VA61		
	250A		3VA62		
200	125A		CED6		
	600A	Class J & T fuses			
Fused	100	200A	Class RK5 fuses		
		400A	Class J & T fuses, Class RK1 fuses		
	200	100A	Class RK5 fuses		
		200A	Class J & T fuses, Class RK1 fuses		
480V 3-phase only	ABB	100	600A	XT5V, XT5L	
		Eaton	100	225A	PDG2
	Siemens	400A	3VA63		
		600A	3VA64		

## Specific Breaker Model Types

### 400A 2 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V 1-phase	ABB	50	125A	XT1N	
			65	100A	T2S	
				125A	XT2N, XT1S	
				250A	T4N, XT4N	
				600A	XT5N	
			100	125A	XT2S, XT1H	
				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
				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	
				250A	PEH	
				60A	SEP	
				150A	SEP	
		200		250A	PEL	
				200	250A	140G-H
		Schneider		25	125A	BD
			150A		HD	
			250A		JD	
			600A		LD	
			30	125A	BG, BJ	
				150A	HG	
			65	250A	JG	
				600A	LG	
				125A	BJ	
			100	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 Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V 1-phase	Eaton	42	600A	LDC, CLDC, HLD, CHLD	
				225A	FD, FDE	
			65	250A	JD, JDB	
				400A	KDC, HKD, CHKD, KD, CKD	
				125A	EGS	
			85	250A	JGS	
				600A	LGS	
				125A	EGH	
			100	225A	HFD, HFDE	
				250A	JGH, JDC, HJD	
				600A	LGX, LGU, LGC, LGH	
			200	125A	EGC, PDG1	
		150A		PDG2		
		225A		FDC, FDCE, PDG2		
		Siemens	65	125A	ED6, ED4	
				250A	FD6A, FXD6A	
				400A	JD6A, JXD6A, SJD6	
				600A	LD6, LXD6, SLD6	
			100	125A	HHED4, HED4	
				250A	HFD6, HFXD6	
				400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, SHJD6, 3VA63, 3VA53	
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, SHLD6, 3VA64, 3VA54	
			150	125A	3VA51	
				125A	CED6	
			200	150A	3VA61	
				250A	CFD6, HHFD6, HHFXD6, 3VA52, 3VA62	
				400A	SCJD6	
				600A	SCLD6	
			Fused	50	600A	Class RK1 fuses
					800A	300V T-Fuses
100	400A			Class RK1 fuses		
	600A			300V T-Fuses		
200	200A	Class RK1 fuses				
	400A	300V T-Fuses				

## Specific Breaker Model Types

400A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type			
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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
						25	60A	SEH
		150A					SEH	
		250A					PEC	
		35				250A	SFH, PEE	
						600A	SGH, PGE	
		50				600A	SGP, SGL, PGN, PGH, PGL, PGP	
						60A	SEL	
						150A	SEL	
		65				250A	SFL, PEN	
						60A	SEP	
						150A	SEP	
		100				250A	SFP, PEH	
						250A	PEL	
		Schneider			18	125A	EDB, BD	
						150A	HD	
						250A	JD	
600A	LD							
30	125A				EGB, BG, EJB, BJ			
	150A				HG			
35	250A				JG			
	600A				LG			
	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 Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	480V, 3-phase only	Eaton	35	125A	EGS	
				225A	FD, FDE	
				250A	JGS, JD, JDB	
				400A	KD, CKD	
				600A	LDC, CLDC, HLD, CHLD, LD, CLD	
			50	400A	HKD, CHKD	
				600A	LGX, LGU, LGC, LGH, LGS	
				125A	EGH	
			65	225A	HFD, HFDE	
				250A	JGH, HJD	
				400A	KDC, PDG3	
				125A	EGC, PDG1	
			100	225A	FDC, FDCE, PDG2	
				250A	JGC, JDC	
				125A	EGC+CL	
			150	250A	JGU	
				250A	JGX, JGH+CL	
			Siemens	18	125A	ED4
					25	125A
				35	400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, JD6A, JXD6A, SJD6, 3VA63, 3VA53
					600A	CLD6, HHLD6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SCLD6, 3VA64, 3VA54
				42	125A	HED4
					125A	HHED6, 3VA51
				65	400A	SCJD6, SHJD6, 3VA63
					600A	SCLD6, 3VA64
					250A	HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A, 3VA52, 3VA62
				150	150A	3VA61
					250A	3VA62
			200	125A	CED6	
				250A	CFD6	
			Fused	50	600A	CLASS RK1 FUSES
					200A	CLASS RK5 FUSES
				200	400A	CLASS RK1 FUSES
					600A	CLASS J & T FUSES
			480V, 3 and 1-phase	ABB	25	125A
	250A	T4N, XT4N				
	600A	T5N				
	35	100A			T2S	
		125A			XT2S, XT1S	
		250A			XT4S, T4S	
		600A			T5S, XT5N	
	50	600A			T5H, T5L, T5V, XT5S	
		100A			T2H	
		125A			XT2H, XT1H	
	65	250A			T4H, XT4H	
		600A			XT5H	
		125A			XT2L	
	100	250A			T4V, T4L, XT4L	
		600A			XT5V, XT5L	
		125A		XT2V		
	150	250A		XT4V		
		General Electric		18	60A	SED
	150A				SED	
	25			60A	SEH	
				150A	SEH	
				250A	PEC	
	35			250A	SFH, PEE	
				600A	SGH	
	50			600A	SGL, SGP	
				60A	SEL	
	65			150A	SEL	
				250A	SFL, PEN	
		250A		SFP		
	85	60A		SEP		
		150A		SEP		
		250A		PEH		
	100	60A		SEL		
		250A		PEL		

## Specific Breaker Model Types

400A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
		Allen Bradley	65	400A	140G-K	
			150	125A	140G-H	
		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	LJ, LL, LR	
			65	150A	HJ	
				250A	JJ	
			100	150A	HL	
			200	250A	JL	
				150A	HR	
		250A	150A	JR		
			250A	JR		
		Eaton	35	125A	EGS	
				225A	FD, FDE	
				250A	JDB, JD, JGS	
				400A	KD, CKD	
				600A	LD, CLD, HLD, CHLD, LDC, CLDC	
				400A	HKD, CHKD, KDC	
			65	600A	LGC, LGU, LGX, LGH, LGS	
				125A	EGH	
				225A	HFD, HFDE	
			100	250A	JGH, HJD	
				125A	EGC, PDG1	
				225A	FDC, FDCE, PDG2	
			150	250A	JGC, JGH, JDC	
				125A	EGC+CL	
				250A	JGU	
			200	250A	JGX	
				18	125A	ED4
				25	125A	ED6, 3VA51
		250A	3VA52			
		35	125A	3VA51		
			150A	3VA61		
			250A	FD6A, FXD6A, 3VA52, 3VA62		
			400A	CJD6-A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, JD6A, JXD6A, SJD6, 3VA63, 3VA53		
			600A	CLD6, HHLD6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SCLD6, 3VA64, 3VA54		
			125A	HED4		
		65	125A	HHED6, 3VA51		
			400A	SCJD6, SHJD6, 3VA63		
			600A	SCLD6, SCLD6, 3VA64		
		100	250A	CFD6, HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A, 3VA52, 3VA62		
			150A	3VA61		
			250A	3VA62		
		200	125A	CED6		
			50	600A	CLASS RK1 FUSES	
		600A		CLASS J & T FUSES		
100	400A	CLASS RK1 FUSES				
	200A	CLASS RK5 FUSES				
200	400A	CLASS J & T FUSES				
	200A	CLASS RK1 FUSES				
	100A	CLASS RK5 FUSES				

## Specific Breaker Model Types

400A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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	
				60A	SEL	
				150A	SEL	
			150	250A	SFL, PEN	
				600A	PGN, PGH, PGL, PGP	
		200		250A	PEH	
			60A	SEP		
			150A	SEP		
		Schneider	25	250A	SFP, PEL	
				125A	BD	
				150A	HD	
				250A	JD	
			30	600A	LD	
				125A	BG, BJ	
				150A	HG	
				250A	JG	
			65	600A	LG	
				150A	HJ	
				250A	JJ	
				600A	LL, LJ	
		100	150A	HL		
			250A	JL		
			150A	HR		
			250A	JR		
		200	600A	C		
			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				
	600A	LGH				
150	600A	LGX, LGU, LGC				
	200	125A	EGC, PDG1			
150A		PDG2				
225A		FDC, FDCE, PDG2				
250A		JGX, JGU, JGC, JDC, PDG2				



## Specific Breaker Model Types

400A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (Z XO)	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, 3VA63, 3VA53	
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, SHLD6, 3VA64, 3VA54	
			200	125A	3VA51	
				125A	CED6	
				150A	3VA61	
				250A	CFD6, HHFD6, HHFXD6, 3VA52, 3VA62	
			Fused	50	600A	Class RK1 fuses
				100	800A	300V Class T- fuses
				200	400A	Class RK1 fuses
	600A	300V Class T- fuses				
	ZTG (ZGO, ZGD)	240V, 3 and 1-phase	ABB	50	125A	XT1N
					100A	T2S
					125A	XT2N, XT1S
				65	250A	T4N, XT4N
					600A	XT5N
					125A	XT2S, XT1H
				100	250A	T4S, XT4S
					600A	XT5S
					100A	T2H
				150	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	
				50	600A	SGP, SGL, SGH
			65	60A	SEH	
				150A	SEH	
				250A	SFH	
			100	60A	SEL	
				150A	SEL	
				250A	SFP, SFL	
200			60A	SEP		
			150A	SEP		
Allen Bradley			200	125A	140G-H	
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 Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type		
ZTX (Z XO)	240V, 3 and 1-phase	Eaton	42	600A	LDC, CLDC, HLD, CHLD		
				225A	FD, FDE		
			65	250A	JD, JDB		
				400A	KDC, HKD, CHKD, KD, CKD		
				125A	EGS		
			85	250A	JGS		
				600A	LGS		
				125A	EGH		
			100	225A	HFD, HFDE		
				250A	JGH, JDC, HJD		
				600A	LGX, LGU, LGC, LGH		
			200	125A	EGC, PDG1		
		150A		PDG2			
		225A		FDC, FDCE, PDG2			
		ZTG (ZGO, ZGD)	240V, 3 and 1-phase	Siemens	65	125A	ED6, ED4
						250A	FD6A, FXD6A
						400A	JD6A, JXD6A, SJD6
						600A	LD6, LXD6, SLD6
					100	125A	HHED4, HED4
						250A	HFD6, HFXD6
						400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, SHJD6, 3VA63, 3VA53
						600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, SHLD6, 3VA64, 3VA54
					150	125A	3VA51
						125A	CED6
					200	150A	3VA61
						250A	CFD6, HHFD6, HHFXD6, 3VA52, 3VA62
				400A		SCJD6	
600A	SCLD6						
ZTS (ZSAO, ZSAD)	240V, 3 and 1-phase			Fused	50	600A	Class RK1 Fuses
						800A	300V T-Fuses
					100	400A	Class RK1 Fuses
						600A	300V T-Fuses
					200	200A	Class RK1 Fuses
						400A	300V T-Fuses

## Specific Breaker Model Types

### 600A 2 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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	60A	SED	
				150A	SED	
				250A	PEC	
			50	600A	SGP, SGL, SGH	
				65	60A	SEH
					150A	SEH
			250A		SFH, PEE	
			100	600A	PGE	
				60A	SEL	
				150A	SEL	
			150	250A	SFP, SFL, PEN	
				200	600A	PGN, PGH, PGL, PGP
		250A			PEH	
		60A	SEP			
		Schneider	25	150A	SEP	
				250A	PEL	
				125A	BD	
				150A	HD	
			65	250A	JD	
				600A	LD	
				125A	BG	
				150A	HG	
			100	250A	JG	
600A	LG					
125A	BJ					
150A	HJ					
125	250A	JJ				
	600A	LR, LL, LJ				
200	150A	HL				
	250A	JL				
250A	150A	HR				
	250A	JR				

## Specific Breaker Model Types

### 600A 2 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type		
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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, PDG2		
						250A	JGX, JGU, JGC
			Siemens	65	125A	ED6, ED4	
		250A			FD6A, FXD6A		
		400A			JD6A, JXD6A, SJD6		
		85		600A	LD6, LXD6, SLD6		
				400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A		
				600A	CLD6, HHLD6, HHLXD6, HLD6, HLXD6		
		100		125A	HHED4, HED4		
				250A	HFD6, HFXD6		
				400A	SHJD6, 3VA63, 3VA53		
				600A	SHLD6, 3VA64, 3VA54		
		200		125A	CED6		
				250A	CFD6, HHFD6, HHFXD6, 3VA62, 3VA52		
			400A	SCJD6			
600A	SCLD6						
Fused	50	600A	Class RK1 fuses				
		800A	300V Class T-fuses				
	100	400A	Class RK1 fuses				
		600A	300V Class T-fuses				
200	400A	300V Class T-fuses					

## Specific Breaker Model Types

600A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type			
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	480V, 3-phase only	ABB	20	1200A	XT7L, XT7H, XT7S			
				125A	XT2N			
				250A	T4N, XT4N			
			25	600A	T5N			
				100A	T2S			
				125A	XT2S			
			35	250A	XT4S, T4S			
				600A	T5S, XT5N			
				800A	T6N, XT6H, XT6S, XT6N			
				50	800A	T6S, T6H, T6L, XT5S		
			65	100A	T2H			
				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	480V, 3-phase only	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		
					250A	SFP, PEH		
		150			600A	PGH		
					250A	PEL		
		200			600A	PGL		
					600A	PGP		
		Schneider	480V, 3-phase only	18	125A	EDB, BD		
					150A	HD		
					250A	JD		
					600A	LD		
				30	125A	EGB, EJB, BG, BJ		
					150A	HG		
				35	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 Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type		
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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, PDG3		
			800A	HMDL, CHMDL, PDG4			
				100	125A	EGC	
					225A	FDC, FDCE, PDG2	
					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	ED6
				35	400A	JD6A, JXD6A, SCJD6	
					600A	LD6, LXD6, SCLD6	
					1200A	3VA67, 3VA57	
		42		125A	HED4		
				65	125A	HHED4	
					400A	HJD6A, HJXD6A, SHJD6	
					600A	HLD6, HLXD6, SCLD6	
		1000		3VA66			
		100		250A	HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A, 3VA52		
				400A	HHJD6A, HHJXD6A, 3VA53		
				600A	HHLD6, HHLD6, 3VA64		
				600/800A	3VA65, 3VA55		
				1000A	3VA66		
		150		250	3VA62		
				400A	CJD6-A, SCJD6, 3VA63		
				600A	CLD6, SCLD6, 3VA64		
		200		125A	CED6		
				250A	CFD6		
		Fused		100	600A	Class RK5 fuses	
					400A	Class RK5 fuses	
				200	600A	Class RK1 fuses	
					800A	Class J & T fuses	
					800A	CLASS L Fuses	
		480V, 3 and 1-phase only		25	ABB	125A	XT2N
						250A	T4N, XT4N
	600A					T5N	
	35		100A		T2S		
			125A		XT2S		
			250A		XT4S, T4S		
	50		600A	T5S, XT5N			
			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 Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	480V, 3 and 1-phase only	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	
			Allen Bradley	35	400A
		65		400A	140G-K
		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
			65	600A	LGX, LGU, LGC, LGH, LGS
				125A	EGH
				225A	HFD, HFDE
			100	250A	JGH, HJD
				125A	EGC
				225A	FDC, FDCE, PDG2
			150	250A	JGC, JGH, JDC
				100A	EGC
			200	250A	JGU
		250A		JGX	
		Siemens	18	125A	ED4
			25	125A	ED6
			35	400A	CJD6A, HHJD6A, HHJXD6A, HJD6A, HJXD6A, JD6A, JXD6A, SJD6, 3VA63, 3VA53
				600A	CLD6, HHL6, HHLXD6, HLD6, HLXD6, LD6, LXD6, SCLD6, 3VA64, 3VA54
			42	125A	HED4
			65	125A	HHED4
				400A	SCJD6, SHJD6, 3VA63
			100	600A	SCLD6, 3VA64
				250A	CFD6, HHFD6, HHFXD6, HFD6, HFXD6, FD6A, FXD6A, 3VA52
			150	250A	3VA62
		200	125A	CED6	
		Fused	50	600A	Class RK1 fuses
				200A	Class RK5 fuses
			100	400A	Class RK1 fuses
				600A	Class J & T Fuses
				100A	Class RK5 fuses
			200	200A	Class J & T Fuses
		400A		Class J & T Fuses	

## Specific Breaker Model Types

600A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V, 3-phase only	ABB	18	60A	SED
				150A	SED
			20	1200A	XT7L, XT7H, XT7S
				25	125A
			150A		HD
			250A		JD
			600A		LD
			35	800A	XT6H, XT6S, XT6N
				50	800A
			65		100A
				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
		150A			SED
		42		250A	PEC
				65	60A
		150A			SEH
		250A			SFH, PEE
		100		600A	SGH, PGE
				60A	SEL
				150A	SEL
		150		250A	SFL, PEN
				600A	SGL, PGN
				200	250A
		600A	PGH		
		250A	60A		SEP
			150A	SEP	
			250A	SFP, PEL	
			600A	SGP, PGL, PGP	
		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		LL, LJ		
	200		150A	HL	
250A			JL		
600A			HR		
250A	250A		JR		
	600A	LR			

## Specific Breaker Model Types

600A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type		
ZTX (Z XO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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		
		600A		LGH, HLD, CHLD, PDG3			
		200	800A	PDG4			
			125A	EGC			
			225A	FDC, FDCE, JDC, PDG2			
			250A	JGX, JGU, JGC			
		Siemens	65	65	125A	ED6, ED4	
					250A	FD6A, FXD6A	
					400A	JD6A, JXD6A, SJD6	
					600A	LD6, LXD6, SLD6	
			100	100	125A	HHED4, HED4	
					250A	HFD6, HFXD6	
					400A	HJD6A, HJXD6A, SHJD6	
	600A				HLD6, HLXD6, SHLD6		
	200		200	1000A	3VA66		
				125A	CED6		
				250A	CFD6, HHFD6, HHFXD6		
				400A	CJD6A, HHJD6A, HHJXD6A, SCJD6, 3VA63, 3VA53		
	Fused	200	200	600A	Class RK1 fuses		
				800A	300V Class T-fuses		
				600A	100A	T2S	
				125A	XT2N		
	240V, 3 and 1-phase only	ABB	65	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	18	60A	SED	
					150A	SED	
					250A	PEC	
			50	50	600A	SGP, SGL, SGH	
					65	60A	SEH
						150A	SEH
			250A	SFH, PEE			
100			100	600A	PGE		
				60A	SEL		
				150A	SEL		
150			150	250A	SFP, SFL, PEN		
				600A	PGN, PGH, PGL, PGP		
	250A	PEH					
200	200	60A	SEP				
		150A	SEP				
		250A	PEL				

## Specific Breaker Model Types

600A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	240V, 3 and 1-phase only	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, PDG2		
		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, 3VA63, 3VA53	
				600A	SHLD6, 3VA64, 3VA54	
			200	125A	CED6	
				250A	CFD6, HHFD6, HHFXD6, 3VA62, 3VA52	
400A	SCJD6					
600A	SCLD6					
Fused	50	600A	Class RK1 fuses			
		800A	300V Class T-fuses			
	100	400A	Class RK1 fuses			
		600A	300V Class T-fuses			
200	400A	300V Class T-fuses				



## Specific Breaker Model Types

800-1200A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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	
				1200	XT7L	
			150	600	T5V, XT5V	
			General Electric	50	1200	SKH
				65	600	SGL
					1200	SKP, SKL
			100	600	SGP	
			Allen Bradley	35	400	140G-K
		65		400	140G-K	
		Schneider	50	1200	PK, RL, RJ, RK	
				600	LJ	
				800	MJ	
			65	1200	PL, PJ	
				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, PDG4	
				1200	NGH, HND, CHND	
				1600	RGH	
			100	400	KDC, PDG3	
				600	LGC, LDC, CLDC, PDG3	
			150	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	HND6, HNXD6, 3VA67, 3VA57	
				1600	CPD6, HPD6, HPXD6, 3VA68, 3VA58	
2000	3VA69, 3VA59					
100	400	3VA63, 3VA53				
	600	3VA64, 3VA54				
	600/800	3VA65, 3VA55				
	800	CMD6				
	1000	3VA66				
	1200	CND6				
150	400	CJD6, SCJD6, 3VA63				
	600	CLD6, SCLD6, 3VA64				
Fused	100	2000		CLASS L fuses		
		600	CLASS RK5 fuses			
	200	800	CLASS J & T fuses			
		1200	CLASS L fuses			

## Specific Breaker Model Types

800-1200A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type	
ZTX (ZXO)  ZTG (ZGO, ZGD)  ZTS (ZSAO, ZSAD)	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	
				1200	XT7L, XT7H	
			150	600	T5H, XT5H	
				200	600	T5V, T5L, XT5V, XT5L
			800		XT6H	
			General Electric	65	600	SGH
		1200			SKH	
		100		600	SGL	
			1200	SKP, SKL		
		200	600	SGP		
		Schneider	50	1200	RL, RJ, RK	
				600	LG	
			65	800	MJ, MG	
				1200	PL, PJ, PK	
			100	600	LJ	
			125	600	LL	
		200	600	LR		
		Eaton	50	1200	NGS	
				65	400	KD, CKD
					600	LD, CLD
					800	HMDL, CHMDL, MDL, CMDL
				1200	NGH, HND, CHND, ND, CND	
			1600	RGH		
			85	600	LGS	
				100	400	HKD, CHKD, PDG3
			600		LGH, HLD, CHLD, PDG3	
			800		PDG4	
			200	400	KDC, PDG3	
				600	LGX, LGU, LGC, LDC, CLDC, PDG3	
		Siemens	65	400	JD6, JXD6, SJD6	
				600	LD6, LXD6, SLD6	
				800	MD6, MXD6, LMD6, LMXD6	
				1200	HND6, NXD6	
				1600	PD6, PXD6	
			100	400	HJD6, HJXD6, SHJD6, 3VA63, 3VA53	
				600	HLD6, HLXD6, SHLD6	
				600/800	3VA65, 3VA55	
				800	HMD6, HMXD6	
				1200	HND6, HNXD6, 3VA67, 3VA57	
1600	HPD6, HPXD6, 3VA68, 3VA58					
200	2000		3VA69, 3VA59			
	400		CJD6, SCJD6, 3VA63			
	600		CLD6, SCLD6, 3VA64, 3VA65			
	800		CMD6			
	1000	3VA66				
1200	CND6					
1600	CPD6					
Fused	200	800	CLASS T fuses			

## Specific Breaker Model Types

### 800-1200A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type		
ZTX (Z XO)	480V, 1-phase only	ABB	25	600	T5N		
			35	600	T5S, XT5N		
				800	XT6N		
			50	600	XT5S		
				800	XT6S		
			1200	XT7L, XT7H, XT7H, XT7S			
		65	600	T5H, XT5H			
			800	XT6H			
		ZTG (ZGO, ZGD)	480V, 1-phase only	General Electric	100	600	T5L, XT5L
					150	600	T5V, XT5V
					35	600	SGH
		ZTS (ZSAO, ZSAD)	480V, 1-phase only	General Electric	50	1200	SKH, SKL, SKP
65	600				SGL		
100	600				SGP		
	480V, 1-phase only	Allen Bradley	35	400	140G-K		
			65	400	140G-K		

### 800-1200A 3 or 4 pole Zenith T-series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA)	Max. Breaker Amp.	Breaker Type
ZTX (Z XO)	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			
ZTG (ZGO, ZGD)	240V, 1-phase only	General Electric	50	1200	SKH, SKL, SKP
			65	600	SGH
			100	600	SGL
			200	600	SGP
ZTS (ZSAO, ZSAD)	240V, 1-phase only	General Electric	50	1200	SKH, SKL, SKP
			65	600	SGH

## Specific Breaker Model Types

100-1200A 3 or 4 pole Zenith T-Series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA) RMS SYMM AMPS x 1000	Max. Breaker Amp.	Breaker Type
ZBTS (ZSBO, ZSBD)	480V 3-phase ONLY	ABB	65	600	T5H, XT5H
				800	T6H, XT6H
				1200	T7H, XT7L, XT7H
			100	600	T5L, XT5L
				1200	XT7L
		150	600	T5V, XT5V	
		GENERAL ELECTRIC	65	600	SGL
				1200	SKP, SKL
			100	SGP	
		EATON	65	600	LGH, HLD, CHLD
				800	HMDL, CHMDL
				1200	NGH, HND, CHND
				1600	RGH
		100	600	LGC, LDC, CLDC	
		SCHNEIDER	65	600	LJ
				800	MJ
				1200	PL, PJ
				100	LL
		SIEMENS	65	600	HLD6, HLXD6, SCLD6
				800	HMD6, HMXD6
				1200	HND6, HNXD6
				1600	CPD6, HPD6, HPXD6
100	800		CMD6		
	1200		CND6		
FUSED			100	2000	CLASS L fuses
			200	600	CLASS RK5 fuses
				800	CLASS J & T fuses
				1200	CLASS L fuses

## Specific Breaker Model Types

100-1200A 3 or 4 pole Zenith T-Series transfer switches

ABB Zenith Model Family	Max Rated Voltage	Breaker Manufacturer	Max Coordinated Breaker Rating (kA) RMS SYMM AMPS x 1000	Max. Breaker Amp.	Breaker Type
ZBTS (ZSBO, ZSBD)	240V 3-phase ONLY	ABB	65	600	T5N, XT5N
				800	T6N, XT6N
				1200	XT7S, T7S
			100	600	T5S, XT5S
				800	XT6S
				1200	XT7L, XT7H
			150	600	T5H, XT5H
				200	600
			800		XT6H
		GENERAL ELECTRIC	65	600	SGH
				1200	SKH
			100	600	SGL
				1200	SKP, SKL
		EATON	65	600	LD, CLD
				800	HMDL, CHMDL, MDL, CMDL
				1200	NGH, HND, CHND, ND, CND
			85	600	LGS
		100		600	LGH, HLD, CHLD
		SCHNEIDER	65	600	LG
				800	MJ, MG
				1200	PL, PJ, PK
			100	600	LJ
		SIEMENS	65	600	LD6, LXD6, SLD6
				800	MD6, MXD6, LMD6, LMXD6
				1200	ND6, NXD6
			100	600	HLD6, HLXD6, SHLD6
				800	HMD6, HMXD6
1200	HND6, HNXD6				
FUSED	200	800	CLASS T fuses		

## Specific Breaker Model Types

400-1200A closed transition Zenith T-Series transfer switches

ABB Zenith Model Family	Amp	UL Short-Time Rating (STR)	Any Breaker Rating (A) (WCR)	Max voltage	Max coordinated Breaker Rating (A)	Breaker Manufacturer	Max Breaker Amperage	Breaker Type	Current Limiting Fuse Rating (A)	Max Fuse Size
ZTSCT (ZSAC)	400-1200	-	50000 0.050s	480V	85 000	Eaton	1600A	PB, HND	200,000 (Class L)	3000A
						ITE/Siemens	800A	CMD6		
							1200A	CND6		
							1600A	CPD6, HPD6		
						GE	1200A	SKL, SKP, SKS		
					ABB	1200A	XT7			
					65 000	ABB	800A	XT6		
						Schneider	1200A	PJ		
						Eaton	800A	HMDL, HMDLB, NB TRI PAC, NGH, NGC		
							1200A	NGH, HND, CHND		
			1600A	RGH						
			42000 0.050s	600V	65 000	Eaton	800a	NB Tri Pac		
						Schneider	1600A	RDC, CRDC, PC, PCC, PB Tri Pac		
							1200A	NC, NE, NX		
						ITE/Siemens	1600A	PCF, PEF, PHF, PXF		
							800A	CMD6, SCMD6		
					1200A		CND6, SCND6			
					GE	1600A	CPD6, HPD6, HRD6			
						800A	THP, THC, TB8, SKP8			
						1200A	SKP			
1600A	THP, THC, TRP									
MG	1600A	MP16H1, MP16H2, MC16H1								
35 000	ABB	800A	XT6							
65 000	ABB	1200A	XT7							

1600-3000A Zenith T-series transfer switches

ABB Zenith Model Family	Amp	UL Short-Time Rating (STR)	Any Breaker Rating (A) (WCR)	Max voltage	Max coordinated Breaker Rating (A)	Breaker Manufacturer	Max Breaker Amperage	Breaker Type	Current Limiting Fuse Rating (A)	Max Fuse Size
ZTG (ZGAO)	1000 (ZBTS CT only) 1200 (ZBTS CT only) 1600 2000 2600 3000	65000 <sup>1</sup> 0.50s	100000 <sup>1</sup> 0.050s	480V	100 000	Any Breaker	-	Any Breaker	200,000 (Class L)	4000A
ZTGD (ZGAD)										
ZTS (ZSAO)										
ZTSD (ZSAD)										
ZTSCT (ZSAC)										
ZBTS (ZSBO, ZSBD, ZSBC)										

1: rating Z(B)TS, Z(B)TSD, and Z(B)TSC only

**Each ATS has Rating Label per UL 1008 Marking Requirements as Shown in Figure 1.**

**600 AMPS (3 & 4-pole unit)**

Suitable for control of motors, electric discharge lamps, tungsten filament lamps and electric heating equipment where the sum of motor full-load ampere ratings and the ampere rating of other loads do not exceed the ampere rating of the switch and the tungsten load does not exceed 30 percent of switch rating.  
 Rated Frequency: 50/60 Hz

**SHORT CIRCUIT RATINGS WHEN USING SPECIFIC CIRCUIT BREAKERS/ FUSES**

When protected by a circuit breaker of specific manufacturer, type, and ampere rating as marked below, this Transfer Switch is suitable for use in a circuit capable of delivering the Short-Circuit current at the maximum voltage marked below. When protected by a fuse of the specific fuse class and maximum ampere rating as marked below, this Transfer Switch is suitable for use in a circuit capable of delivering the Short-Circuit current at the maximum voltage marked.

**TABLE A: 480V Max. Rated for UL, 3-phase only.**

MFR	RMS SYMM AMPS x 1000	Max. Amp.	Type
ABB	35	125A	XT2S
	35	250A	XT4S, T4S
	35	600A	T5S, XT5S
	35	800A	T6N
	50	125A	XT2H
	50	250A	XT4H, T4H
	50	600A	T5H, XT5H, XT5H
	50	800A	T6S, T6H, T6L
	100	125A	XT2L
	100	250A	XT4L, T4L
	100	600A	T5L, XT5L
	200	125A	XT2V
	200	250A	XT4V, T4V
	200	600A	T5V, XT5V
GENERAL ELECTRIC	35	250A	SFH
	35	600A	SGH
	50	150A	SEL
	50	250A	SFL
	65	600A	SGL, SGP
	100	150A	SEP
100	250A	SFP	
SCHNEIDER	35	125A	EGB, BG
	35	150A	HG
	35	250A	JG
	50	125A	EJB, BJ
	50	150A	HJ
	50	250A	JJ
	50	600A	LG
	65	600A	LJ
	100	150A	HL
	100	250A	JL
	100	600A	LL
	200	150A	HR
	200	250A	JR
	200	600A	LR

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Figure 1. (Label shown for reference only)







—  
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