



Engineering Application Information Withstand and Closing Ratings

The Purpose of Testing and Unit Ratings



GE Zenith ZTS series automatic transfer switches 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 GE Zenith currently holds under UL 1008.

NFPA 110 Standard for Emergency and Standby Power Systems, Section 4-2.2, 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 current 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 significant changes in April of 1989 regarding the labeling requirements of transfer switches. Prior to that date there had been concern over coordination with some protective devices. UL clarified the labeling procedure and now 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 and insulated case circuit breakers; these tests are performed for a duration of 3 cycles on units 225 amps and greater, and for 1.5 cycles on 40-150 amp units (with an optional 3 cycle duration for units up to 150 amps; note the three cycle rating on 150 amp and below units is optional as UL has determined that all breakers in this size clear in less than 1.5 cycles). The “Umbrella” or “Any Breaker” rating is therefore the actual UL requirement and definition of the ATS industry 3 cycle (or 1.5 as noted) withstand and closing rating, and should not to be confused with additional, non UL 1008 labeled “withstand only” tests.



The ZTS family of transfer switches has maintained an industry-leading role in ratings from the time of its introduction. Today all ZTS products are labeled with an “umbrella” (any molded case breaker) rating as well as some higher specific breaker levels 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 keep in mind that unless a transfer switch bears an umbrella breaker approval for use with any molded case 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 of the fact that these levels are normally not UL labeled ratings.

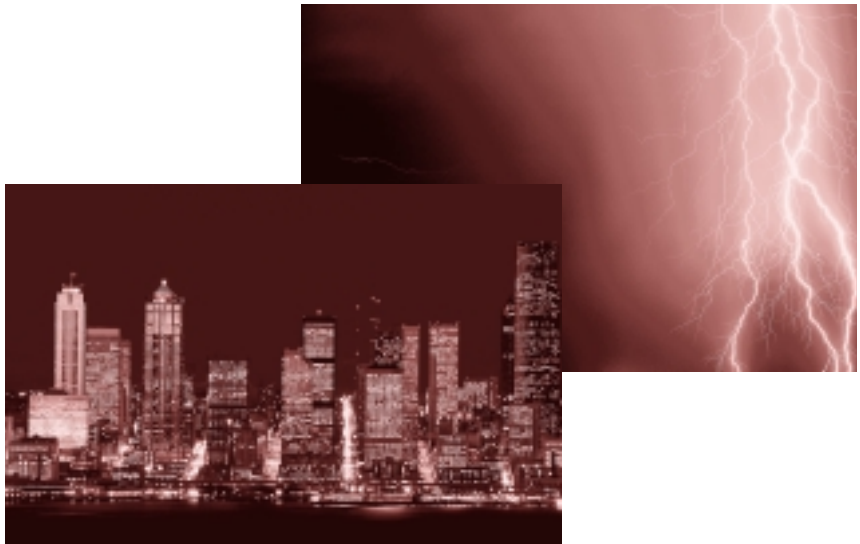


GeneratorJoe

The ZTS/ZTG Switch Families

- **ZTS Automatic Transfer Switches**
40 - 4000 amps
- **ZTSD Delayed Transition Switches**
40 - 4000 amps
- **ZTSCT Closed Transition Switches**
100 - 4000 amps
- **ZBTS Transfer/Bypass Switches**
100 - 4000 amps
- **ZBTSCT Delayed Transfer/Bypass Switches**
100 - 4000 amps
- **ZBTSCT Closed Transition Transfer/Bypass Switches**
100 - 4000 amps
- **ZTG Automatic Transfer Switches**
40 - 3000 amps
- **ZTGD Delayed Transition Switches**
40 - 3000 amps
- **ZTGSE/ZTGDSE Standard & Delayed Service Entrance Switches**
40 - 3000 amps
- **ZTX Automatic Transition Switches**
40 - 400 amps

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December 3, 1997

Zenith Controls, Inc.
Mr. Paul Stephan
830 West 40th Street
Chicago, IL 60609

Our Reference: E23911, E67544

Subject: Automatic Transfer Switches, Bypass/Isolation
Switches

Dear Paul:

This letter summarizes Zenith Control's Listing of Automatic Transfer Switches and Bypass/Isolation Switches per UL 1008 for use on emergency or standby systems. See attached Appendix.

Each Zenith Automatic Transfer Switch and Bypass Isolation Switch is UL Listed for use in 480 V maximum applications provided the total current is within the ATS rating and the withstand current rating is suitable for the application.

The Zenith ATS rating is based on total system or motor load application. Thus, they are 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 ratings of the other loads do not exceed the ampere rating of the switch and the tungsten load does not exceed 30 percent of the switch rating. Additional 100 percent tungsten ratings are noted on Chart A.

A Zenith Automatic Transfer Switch for each ATS rating (Appendix) completed successfully the overload, heat rise, endurance and dielectric withstand as required by UL 1008. The heat rise test was performed after the endurance test at the request of the manufacturer. Each ATS (WCR) withstand closing test (Appendix) was performed on a previously untested sample.

If you should have any questions of the above, please do not hesitate to contact us.

Very truly yours,

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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** – 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.

NOTE: For diagrams of typical current wave forms, see **Figure 1** and **Figure 2**.

Comparison of Terms

The following values have all been used to describe identical circuit conditions:

- Available Short Circuit Current RMS 120,000 amps
- Peak Let Through Current (½ cycle) 30,000 amps
- Peak Asymmetrical Current 56,000 amps
- Peak Symmetrical Current 40,000 amps
- Withstand Rating 3 Cycles RMS 28,000 amps

What do these numbers mean? They mean that a switch was tested at 28,000 amps RMS Sym for 3 cycles; the

switch also had a projected peak symmetrical current of 40,000 amps for less than ½ cycle and a peak asymmetrical current of 56,000 amps for less than ½ cycle. The switch has been tested in a system that has an available capacity of 120,000 amps RMS.

How should a manufacturer rate a switch? Preferably by submitting test data which is reported as outlined by UL 1008 specifications. This data calls for RMS symmetrical readings based on specific test parameters. Other figures may be misleading.

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.

GE Zenith 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.

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.
- “Trick” reporting is eliminated.

Blow-On Effects of Short Circuit Currents on 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.

Available Fault Current

Available fault current information can often be supplied by the utility company. If this information is not available, approximate fault current can be calculated by knowing the transformer impedance (usually 2 to 5% of full load ampere rating of the transformer).

For a single phase system, transformer let through current is: (where Z is transformer impedance in percent divided by 100)

$$I = \frac{\text{kVA (of trans)} \times 1000}{Z \times \text{Line Volts}}$$

For three phase systems:

$$I = \frac{\text{kVA} \times 1000}{1.73 Z \times \text{Line Volts}}$$

EXAMPLE:

500 kVA transformer
2.5% Impedance
480 Volts, 3 phase

$$\frac{500 \times 1000}{1.73 (.025) (480)} = 24,085 \text{ amps}$$

This figure is somewhat lower if a long run of cable introduces a substantial volt drop.

Available fault current determine the rating that a transfer must meet.



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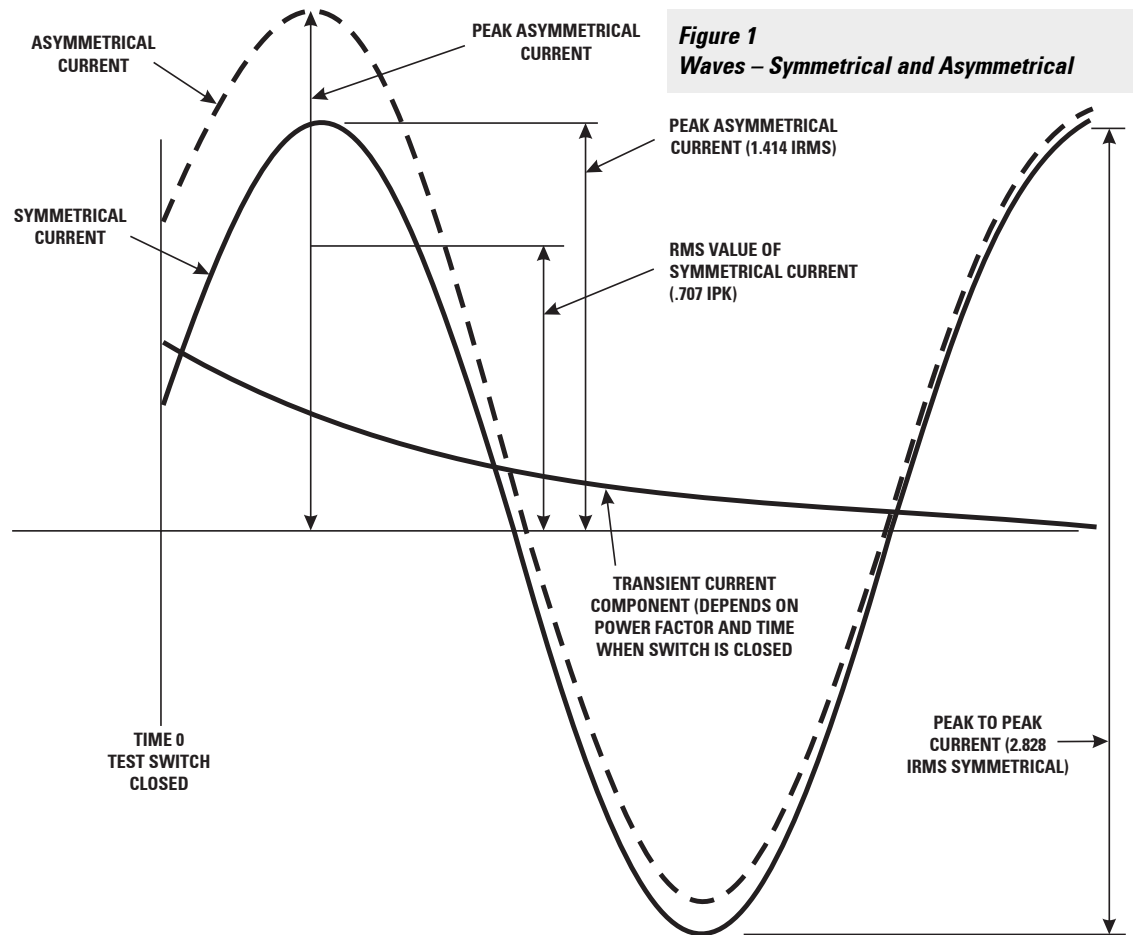


Figure 1
Waves – Symmetrical and Asymmetrical

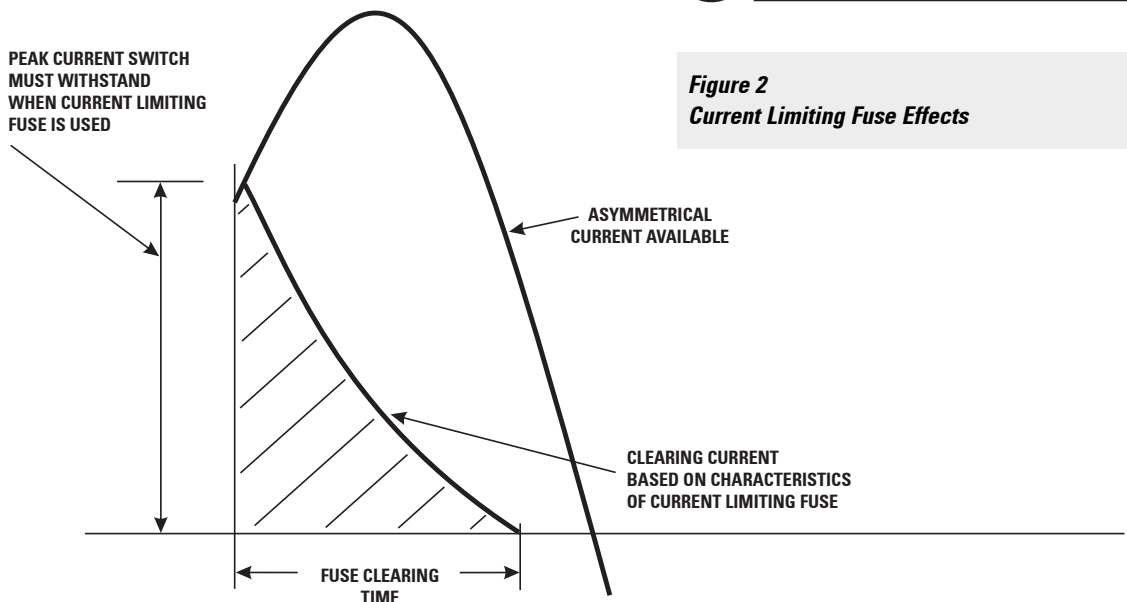


Figure 2
Current Limiting Fuse Effects

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UL 1008 Withstand & Closing Ratings

Maximum Circuit Amps at 480 VAC

Includes ZTG 260A Upgrade (in process)

GE Zenith Controls, Chicago, IL

17 June 2003, Compiled by Steve Mecker

Amps	ZTS		ZTSD		ZTSCT		ZBTS		ZBTSD		ZBTSCT		ZTG		ZTGD		ZTX		Amps					
40	F17	30,000	F14B	50,000	no F14		#N/A		#N/A		no F14		F17	30,000	F14B	50,000	F17	30,000	40					
80		30,000		50,000	no F14		#N/A		#N/A		no F14			30,000		50,000		30,000	80					
100		30,000		50,000	no F14		#N/A		#N/A		no F14			30,000		50,000		30,000	100					
150		30,000		50,000	no F14		#N/A		#N/A		no F14			30,000		50,000		30,000	150					
200	#N/A		#N/A	#N/A	#N/A		#N/A		#N/A		#N/A		#N/A	#N/A	#N/A	#N/A	30,000	200						
225	F14	50,000	F14C	50,000	no F14		#N/A		#N/A		no F14		F14	30,000	F14B	50,000	F14	30,000	225					
260		50,000		50,000	no F14		#N/A		#N/A		no F14			35,000		50,000		#N/A	260					
300		#N/A		#N/A	#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A	50,000	300				
400		50,000		50,000	no F14		#N/A		#N/A		no F14			#N/A		50,000		50,000	50,000	400				
600	ZTS2	65,000	ZTS2	65,000	ZTS2	65,000	ZTS2	65,000	ZTS2	65,000	ZTS2	65,000	F14	50,000	ZTS2	65,000	ZTS2	65,000	600					
800		65,000		65,000		65,000	ZBTS	85,000	ZBTS	85,000	ZBTS	85,000		ZTS2		65,000		65,000	800					
1,000	ZTS	85,000	ZTS	85,000	ZTS	85,000	ZBTS	85,000	ZBTS	85,000	ZBTS	85,000	ZTS	85,000	ZTS	85,000	ZTS	85,000	1,000					
1,200		85,000		85,000		85,000	ZBTS	85,000	ZBTS	85,000	ZBTS	85,000		ZTS		85,000		85,000	1,200					
1,600	ZTS	100,000	ZTS	100,000	ZTS	100,000	ZBTS	100,000	ZBTS	100,000	ZBTS	100,000	ZTS	100,000	ZTS	100,000	ZTS	#N/A	1,600					
2,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000			100,000	100,000	100,000	100,000	100,000	2,000
2,600		100,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000			100,000	100,000	100,000	100,000	100,000	2,600
3,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000			100,000	100,000	100,000	100,000	100,000	3,000
4,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	#N/A	#N/A	#N/A	#N/A	4,000							

UL references:

- ZTS -- E23911, Vol. 4, Sec. 10 (1,000-1,200A), Sec. 12 (1,600-2,000A), Sec. 11 (2,600-3,000A), Sec. 15 (4,000A).
- ZTS2 -- E23911, Vol. 4, Sec. 9 (600- 800A).
- ZBTS -- E67544, Vol. 1, Sec. 5 (800-1,200A), Sec. 8 (1,600-3,000A), Sec. 9 (4,000A)

Automatic Transfer Switch Withstand & Closing Ratings

GE Zenith Controls, Chicago, IL

Data compiled by Steve Mecker (09 June 2003)

	GEZC Label	GE Zenith Model No.	UL 1008 ZTS Switch Rating	Current Limiting Fuse			Specific Coordinated Breaker Rating			Any Molded Case Breaker Rating		Minimum UL 1008 Ratings (Table 34.1)
				Maximum Fuse Size, Amps	Maximum Circuit Amps at 480 VAC (UL)	Maximum Circuit Amps at 600 VAC (CSA)	Maximum Circuit Breaker Size, Amps	Maximum Circuit Amps at 480 VAC (UL)	Maximum Circuit Amps at 600 VAC (CSA)	Maximum Circuit Amps at 480 VAC (UL)	Maximum Circuit Amps at 600 VAC (CSA)	
1.01	V-1824	ZTS4	40	50	200,000	200,000	400	30,000	22,000	10,000	10,000	5,000
1.02	V-1824	ZTS8	80	100	200,000	200,000	400	30,000	22,000	10,000	10,000	5,000
1.03	V-1824	ZTS10	100	125	200,000	200,000	400	30,000	22,000	10,000	10,000	5,000
1.04	V-1824	ZTS15	150	200	200,000	200,000	400	30,000	22,000	10,000	10,000	10,000
1.05	V-1870	ZTS22	225	300	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
1.06	V-1870	ZTS26	260	350	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
1.07	V-1870	ZTS40	400	600	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
1.08	V-1287	ZTS60	600	750	200,000	150,000	800	65,000	50,000	50,000	42,000	12,000
1.09	V-1929	ZTS80	800	1,000	200,000	#N/A	1,600	65,000	#N/A	50,000	#N/A	16,000
1.10	V-1288	ZTS100	1,000	1,250	200,000	150,000	1,600	85,000	65,000	50,000	42,000	20,000
1.11	V-1288A	ZTS120	1,200	1,500	200,000	150,000	1,600	85,000	65,000	50,000	42,000	24,000
1.12	V-1291	ZTS160	1,600	2,000	200,000	150,000	2,500	100,000	85,000	100,000	85,000	32,000
1.13	V-1291	ZTS200	2,000	2,500	200,000	150,000	2,500	100,000	85,000	100,000	85,000	40,000
1.14	V-1291	ZTS300	3,000	4,000	200,000	150,000	4,000	100,000	85,000	100,000	85,000	60,000
1.15	V-1825	ZTS400	4,000	6,000	200,000	150,000	5,000	100,000	85,000	100,000	85,000	80,000
2.01	V-2002	ZTSD4	40	50	200,000	200,000	800	50,000	42,000	35,000	35,000	5,000
2.02	V-2002	ZTSD8	80	100	200,000	200,000	800	50,000	42,000	35,000	35,000	5,000
2.03	V-2002	ZTSD10	100	125	200,000	200,000	800	50,000	42,000	35,000	35,000	5,000
2.04	V-2002	ZTSD15	150	200	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
2.05	V-2002	ZTSD22	225	300	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
2.06	V-2002	ZTSD26	260	350	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
2.07	V-2002	ZTSD40	400	600	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
2.08	V-1287	ZTSD60	600	750	200,000	200,000	800	65,000	50,000	50,000	42,000	16,000
2.09	V-1929	ZTSD80	800	1,000	200,000	#N/A	1,200	65,000	#N/A	50,000	#N/A	16,000
2.10	V-1288	ZTSD100	1,000	1,250	200,000	200,000	1,600	85,000	65,000	50,000	42,000	20,000
2.11	V-1288A	ZTSD120	1,200	1,500	200,000	200,000	1,600	85,000	65,000	50,000	42,000	24,000

2.12	V-1291	ZTSD160	1,600	2,000	200,000	200,000	2,500	100,000	85,000	100,000	85,000	32,000
2.13	V-1291	ZTSD200	2,000	2,500	200,000	200,000	2,500	100,000	85,000	100,000	85,000	40,000
2.14	V-1291	ZTSD300	3,000	4,000	200,000	200,000	4,000	100,000	85,000	100,000	85,000	60,000
2.15	V-1825	ZTSD400	4,000	6,000	200,000	200,000	5,000	100,000	85,000	100,000	85,000	80,000

3.01	V-2044	ZBTS10	100	125	200,000	200,000	800	50,000	42,000	35,000	35,000	5,000
3.02	V-2044	ZBTS15	150	200	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
3.03	V-2044	ZBTS22	225	300	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
3.04	V-2044	ZBTS26	260	350	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
3.05	V-2044	ZBTS40	400	600	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
3.06	V-1287	ZBTS60	600	750	200,000	150,000	800	65,000	50,000	50,000	42,000	12,000
3.07	V-1288	ZBTS80	800	1,000	200,000	150,000	1,600	85,000	65,000	50,000	42,000	16,000
3.08	V-1288	ZBTS100	1,000	1,250	200,000	150,000	1,600	85,000	65,000	50,000	42,000	20,000
3.09	V-1288A	ZBTS120	1,200	1,500	200,000	150,000	1,600	85,000	65,000	50,000	42,000	24,000
3.10	V-1291	ZBTS160	1,600	2,000	200,000	150,000	2,500	100,000	85,000	100,000	85,000	32,000
3.11	V-1291	ZBTS200	2,000	2,500	200,000	150,000	2,500	100,000	85,000	100,000	85,000	40,000
3.12	V-1291	ZBTS300	3,000	4,000	200,000	150,000	4,000	100,000	85,000	100,000	85,000	60,000
3.13	V-1825	ZBTS400	4,000	6,000	200,000	150,000	5,000	100,000	85,000	100,000	85,000	80,000

4.01	V-1824	ZTG4	40	50	200,000	200,000	400	30,000	22,000	#N/A	#N/A	5,000
4.02	V-1824	ZTG8	80	100	200,000	200,000	400	30,000	22,000	#N/A	#N/A	5,000
4.03	V-1824	ZTG10	100	125	200,000	200,000	400	30,000	22,000	#N/A	#N/A	5,000
4.04	V-1824	ZTG15	150	200	200,000	200,000	400	30,000	22,000	#N/A	#N/A	10,000
4.05	V-1824	ZTG22	225	300	200,000	200,000	800	30,000	22,000	#N/A	#N/A	10,000
4.06	V-1870	ZTG26	260	350	200,000	200,000	800	50,000	42,000	#N/A	#N/A	10,000
4.07	V-1870	ZTG40	400	600	200,000	200,000	800	50,000	42,000	#N/A	#N/A	10,000
4.08	V-2021	ZTG60	600	#N/A	#N/A	#N/A	800	50,000	#N/A	#N/A	#N/A	12,000
4.09	V-1929	ZTG80	800	1,000	200,000	#N/A	1,200	65,000	50,000	#N/A	#N/A	16,000
4.10	V-1288	ZTG100	1,000	1,250	200,000	150,000	1,600	85,000	65,000	#N/A	#N/A	20,000
4.11	V-1288A	ZTG120	1,200	1,500	200,000	150,000	1,600	85,000	65,000	#N/A	#N/A	24,000
4.12	V-1291	ZTG160	1,600	2,000	200,000	150,000	2,500	100,000	85,000	#N/A	#N/A	32,000
4.13	V-1291	ZTG200	2,000	2,500	200,000	150,000	2,500	100,000	85,000	#N/A	#N/A	40,000
4.14	V-1291	ZTG300	3,000	4,000	200,000	150,000	4,000	100,000	85,000	#N/A	#N/A	60,000
4.15	V-1825	ZTG400	4,000	6,000	200,000	150,000	5,000	100,000	85,000	#N/A	#N/A	80,000

5.01	V-2002	ZTGD4	40	50	200,000	200,000	800	50,000	42,000	#N/A	#N/A	5,000
5.02	V-2002	ZTGD8	80	100	200,000	200,000	800	50,000	42,000	#N/A	#N/A	5,000
5.03	V-2002	ZTGD10	100	125	200,000	200,000	800	50,000	42,000	#N/A	#N/A	5,000
5.04	V-2002	ZTGD15	150	200	200,000	200,000	800	50,000	42,000	#N/A	#N/A	10,000
5.05	V-2002	ZTGD22	225	300	200,000	200,000	800	50,000	42,000	#N/A	#N/A	10,000

5.06	V-2002	ZTGD26	260	350	200,000	200,000	800	50,000	42,000	#N/A	#N/A	10,000
5.07	V-2002	ZTGD40	400	600	200,000	200,000	800	50,000	42,000	#N/A	#N/A	10,000
5.08	V-2021	ZTGD60	600	#N/A	#N/A	#N/A	800	50,000	#N/A	#N/A	#N/A	12,000
5.09	V-1929	ZTGD80	800	1,000	200,000	#N/A	1,200	65,000	#N/A	#N/A	#N/A	16,000
5.10	V-1288	ZTGD100	1,000	1,250	200,000	150,000	1,600	85,000	65,000	#N/A	#N/A	20,000
5.11	V-1288A	ZTGD120	1,200	1,500	200,000	150,000	1,600	85,000	65,000	#N/A	#N/A	24,000
5.12	V-1291	ZTGD160	1,600	2,000	200,000	150,000	2,500	100,000	85,000	#N/A	#N/A	32,000
5.13	V-1291	ZTGD200	2,000	2,500	200,000	150,000	2,500	100,000	85,000	#N/A	#N/A	40,000
5.14	V-1291	ZTGD300	3,000	4,000	200,000	150,000	4,000	100,000	85,000	#N/A	#N/A	60,000

6.01	V-1824	ZTX4	40	50	200,000	#N/A	400	30,000	#N/A	#N/A	#N/A	5,000
6.02	V-1824	ZTX8	80	100	200,000	#N/A	400	30,000	#N/A	#N/A	#N/A	5,000
6.03	V-1824	ZTX10	100	125	200,000	#N/A	400	30,000	#N/A	#N/A	#N/A	5,000
6.04	V-1824	ZTX15	150	200	200,000	#N/A	400	30,000	#N/A	#N/A	#N/A	10,000
6.05	V-1824	ZTX20	200	300	200,000	#N/A	400	30,000	#N/A	#N/A	#N/A	10,000
6.06	V-1824	ZTX22	225	300	200,000	#N/A	400	30,000	#N/A	#N/A	#N/A	10,000
6.07	V-1870	ZTX30	300	400	200,000	#N/A	800	50,000	#N/A	#N/A	#N/A	10,000
6.08	V-1870	ZTX40	400	500	200,000	#N/A	800	50,000	#N/A	#N/A	#N/A	10,000

7.01	#N/A	ZTSCT4	40	Consult Factory								
7.02	#N/A	ZTSCT8	80									
7.03	#N/A	ZTSCT10	100									
7.04	#N/A	ZTSCT15	150									
7.05	#N/A	ZTSCT22	225									
7.06	#N/A	ZTSCT26	260									
7.07	#N/A	ZTSCT40	400									
7.08	V-1287	ZTSCT60	600	750	200,000	150,000	800	65,000	50,000	50,000	42,000	16,000
7.09	V-1929	ZTSCT80	800	1,000	200,000	#N/A	1,200	65,000	#N/A	50,000	#N/A	16,000
7.10	V-1288	ZTSCT100	1,000	1,250	200,000	150,000	1,600	85,000	65,000	50,000	42,000	20,000
7.11	V-1288A	ZTSCT120	1,200	1,500	200,000	150,000	1,600	85,000	65,000	50,000	42,000	24,000
7.12	V-1291	ZTSCT160	1,600	2,000	200,000	150,000	2,500	100,000	85,000	100,000	85,000	32,000
7.13	V-1291	ZTSCT200	2,000	2,500	200,000	150,000	2,500	100,000	85,000	100,000	85,000	40,000
7.14	V-1291	ZTSCT300	3,000	4,000	200,000	150,000	4,000	100,000	85,000	100,000	85,000	60,000
7.15	V-1825	ZTSCT400	4,000	6,000	200,000	150,000	5,000	100,000	85,000	100,000	85,000	80,000

8.01	V-2044	ZBTSD10	100	125	200,000	200,000	800	50,000	42,000	35,000	35,000	5,000
8.02	V-2044	ZBTSD15	150	200	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
8.03	V-2044	ZBTSD22	225	300	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
8.04	V-2044	ZBTSD26	260	350	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000
8.05	V-2044	ZBTSD40	400	600	200,000	200,000	800	50,000	42,000	35,000	35,000	10,000

8.06	V-1287	ZBTSD60	600	750	200,000	150,000	800	65,000	50,000	50,000	42,000	12,000
8.07	V-1288	ZBTSD80	800	1,000	200,000	150,000	1,600	85,000	65,000	50,000	42,000	16,000
8.08	V-1288	ZBTSD100	1,000	1,250	200,000	150,000	1,600	85,000	65,000	50,000	42,000	20,000
8.09	V-1288A	ZBTSD120	1,200	1,500	200,000	150,000	1,600	85,000	65,000	50,000	42,000	24,000
8.10	V-1291	ZBTSD160	1,600	2,000	200,000	150,000	2,500	100,000	85,000	100,000	85,000	32,000
8.11	V-1291	ZBTSD200	2,000	2,500	200,000	150,000	2,500	100,000	85,000	100,000	85,000	40,000
8.12	V-1291	ZBTSD300	3,000	4,000	200,000	150,000	4,000	100,000	85,000	100,000	85,000	60,000
8.13	V-1825	ZBTSD400	4,000	6,000	200,000	150,000	5,000	100,000	85,000	100,000	85,000	80,000

8.15	#N/A	ZBTSCT10	100	Consult Factory								
8.16	#N/A	ZBTSCT15	150									
8.17	#N/A	ZBTSCT22	225									
8.18	#N/A	ZBTSCT26	260									
8.19	#N/A	ZBTSCT40	400									
8.20	V-1287	ZBTSCT60	600	750	200,000	150,000	800	65,000	50,000	50,000	42,000	12,000
8.21	V-1288	ZBTSCT80	800	1,000	200,000	150,000	1,600	85,000	65,000	50,000	42,000	16,000
8.22	V-1288	ZBTSCT100	1,000	1,250	200,000	150,000	1,600	85,000	65,000	50,000	42,000	20,000
8.23	V-1288A	ZBTSCT120	1,200	1,500	200,000	150,000	1,600	85,000	65,000	50,000	42,000	24,000
8.24	V-1291	ZBTSCT160	1,600	2,000	200,000	150,000	2,500	100,000	85,000	100,000	85,000	32,000
8.25	V-1291	ZBTSCT200	2,000	2,500	200,000	150,000	2,500	100,000	85,000	100,000	85,000	40,000
8.26	V-1291	ZBTSCT300	3,000	4,000	200,000	150,000	4,000	100,000	85,000	100,000	85,000	60,000
8.27	V-1825	ZBTSCT400	4,000	6,000	200,000	150,000	5,000	100,000	85,000	100,000	85,000	80,000



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Drawing reference

Amp	Any Breaker	Maximum Coordinated Breaker Rating	Coordinated Breaker Model Types		Max MCCB Breaker Ampere Size	Current Limiting Fuse Rating	Fuse Class	Maximum Fuse Size [A]		
ZTS series, 40-150A, 480V										
V-1824 40 80 100 150	10,000	30,000	Cutler-Hammer	150A FDC, HFD 250A HJD, JDC 400A HKD, KD, KDB, KDC, LA Tripac, LCL	400	200,000	J	400		
			General Electric	100A TB1 150A SEL, SEP, TEL, THLC1 225A TFL, THLC2 250A SFL, SFP 400A SGL4, SGP4, TB4, THJK4, THLC4, TJJ, TJK4, TLB4						
			Siemens	125A CED6, HED4, HED6 250A CFD6, FD6, FXD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, JD6, JXD6, SCJD6 SHJD6, SJD6						
			Square D	150A FC, FI 250A KC, KH, KI 400A LA, LC, LE, LH, LI, LX, LXI						
ZTS series, 40-150A, 600V										
V-1824 40 80 100 150	10,000	22,000	Cutler-Hammer	150A FDC, HFD 250A HJD, JDC 400A HKD, KD, KDB, KDC, LA Tripac, LCL	400	200,000	J	400		
			General Electric	100A TB1 150A SEL, SEP, TEL, THLC1 225A TFL, THLC2 250A SFL, SFP 400A SGL4, SGP4, TB4, THJK4, THLC4, TJJ, TJK4						
			Siemens	125A CED6 250A CFD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, JD6, JXD6, SCJD6, SHJD6, SJD6						
			Square D	150A FI 250A KA, KH, KI 400A LA, LC, LE, LH, LI, LX, LXI						
ZTS series, 225-400A, 480V										
V-1870 225 250 400	35,000	50,000	Cutler-Hammer	250A HJD, JDC 400A CHKD, HKD, KDC, LA Tripac, LCL 600A CHLD, CLDC, HLD, LDC	800	200,000	J	600		
								100,000	RK5	600
								100,000	RK1	600

				800A NB Tripac				
			General Electric	250A SFL, SFP, TFL, THLC2 400A SGL4, SGP4, TB4, THLC4, TLB4 600A SGL6, SGP6, TB6, TJL1S-6S, TJL4V, TKL4V 800A SKH8, SKL8, SKP8, TB8				
			Merlin Gerin	250A CF250H, CF250L 400A CJ400H, CJ400L, CK400H, CK400N 600A CJ600H 800A CK800H, CK800N				
			Siemens	250A CFD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6 600A CLD6, HHL6, HHLXD6, HLD6, SCLD6, SHLD6 800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6				
			Square D	250A KC, KI 400A --- 600A LC, LE, LI, LX, LXI 800A ME, MH, MX				

ZTS series, 225-400A, 600V

V-1870

225 250 400	35,000	42,000	Cutler-Hammer	250A --- 400A KDC, LA Tripac, LCL 600A CLDC, LDC 800A NB Tripac	800	200,000	J	600
			General Electric	250A THLC2 400A SGL4, SGP4, TB4, THLC4 600A SGL6, SGP6, TB6 800A SKL8, SKP8, TB8				
			Merlin Gerin	250A CF250L 400A CJ400L, CK400H 600A --- 800A CK800H				
			Siemens	250A CFD6 400A CJD6, HHJD6, HHJXD6, SCJD6 600A CLD6, HHL6, HHLXD6, SCLD6 800A CMD6, HMD6, HMXD6, SCMD6, SHMD6				
			Square D	250A KI 400A --- 600A LI, LXI 800A ---				

ZTS series, 600A, 480V

V-1287

600	50,000	65,000	Cutler-Hammer	600A CHDC, CLDC, HLD, LDC 800A CHMDL, DSL206, HMDL, NB Tripac	800	200,000	L	750
			General Electric	600A TB6, TJL, SGL6, SGP6 800A TB8, TC, THC, THP, TP, SKL8, SKP8		200,000	RK5	750
			Siemens	600A CLD6, HLD6, SCLD6, SHLD6		200,000	RK1	750

				800A CMD6, HMD6, SCMD6, SHMD6					
				Square D	600A LC, LE, LI, LX, LXI				
					800A ME, MH, MX, NC, NE, NX				
ZTS series, 600A, 600V									
V-1287	600	42,000	50,000	Cutler-Hammer	600A CLDC, LDC	800	150,000	L	750
					800A DSL206, NB Tripac		150,000	J	750
				General Electric	600A TB6, SGL6, SGP6		150,000	RK5	750
					800A TB8, THC, THP, SKP8		150,000	RK1	750
				Siemens	600A CLD6, SCLD6				
					800A CMD6, HMD6, SCMD6, SHMD6				
				Square D	600A LI, LXI				
					800A NC, NE, NX				
ZTS series, 800A, 480V									
V-1929	800	50,000	65,000	Cutler-Hammer	800A CHMDL, HMDL, NB Tripac	1,200	200,000	L	1,200
					1,200A CHND, CNDC, HND, NDC				
				General Electric	800A TB8, TC, THC, THP, TKL85, TP, SKL8, SKP8				
					1,200A TKL12S, SKL12, SKP12				
				Siemens	800A CMD6, HMD6, SCMD6, SHMD6				
					1,200A CND6, HND6, SCND6, SHND6				
				Merlin Gerin	800A ---				
					1,200A CK1000L				
				Square D	800A ME, MH, MX				
					1,200A NC, NE, NX				
ZTS series, 800A, 600V									
				Consult factory					
ZTS series, 1,000-1,200A, 480V									
V-1288	1,000	50,000	85,000	Cutler-Hammer	800A NB Tripac	1,600	200,000	L	3,000
V-1288A	1,200				1,200A CNDC, NDC				
					1,600A CRDC, PB Tripac, PC, PCC, RDC				
				General Electric	800A SKP8, TB8, THC, THP				
					1,200A SKP12				
					1,600A THC, THP, TRP				
				Merlin Gerin	800A ---				
					1,200A CK1000L				
					1,600A CMI600				
				Siemens	800A CMD6, SCMD6				
					1,200A CND6, SCND6				
					1,600A CPD6				
				Square D	800A ---				
					1,200A NC, NE, NX				
					1,600A PCF, PEF, PHF, PXF				
ZTS series, 1,000-1,200A, 600V									

V-1288	1,000	42,000	65,000	Cutler-Hammer	800A NB Tripac	1,600	150,000	L	3,000
V-1288A	1,200				1,200A --- 1,600A CRDC, PB Tripac, PC, PCC, RDC				
				General Electric	800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP				
				Merlin Gerin	800A --- 1,200A --- 1,600A MC16H1, MP16H1, MP16H2				
				Siemens	800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6, HPD6, HRD6				
				Square D	800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF				
ZTS series, 1,600-2,000A, 480V									
V-1291	1,600 2,000	100,000	100,000	Any		4,000	200,000	L	2,500
ZTS series, 1,600-2,000A, 600V									
V-1291	1,600 2,000	85,000	85,000	Any		4,000	150,000	L	2,500
ZTS series, 2,600-3,000A, 480V									
V-1291	2,600 3,000	100,000	100,000	Any		4,000	200,000	L	4,000
ZTS series, 2,600-3,000A, 600V									
V-1291	2,600 3,000	85,000	85,000	Any		4,000	150,000	L	4,000
ZTS series, 4,000A, 480V									
V-1825	4,000	100,000	100,000	Any		5,000	200,000	L	6,000
ZTS series, 4,000A, 600V									
V-1825	4,000	85,000	85,000	Any		5,000	200,000	L	6,000



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Drawing reference

V-2002

V-2002

Amp	Any Breaker	Maximum Coordinated Breaker Rating	Coordinated Breaker Model Types	Max MCCB Breaker Ampere Size	Current Limiting Fuse Rating	Fuse Class	Maximum Fuse Size [A]	
ZTSD series, 40-400A, 480V								
40	35,000	50,000	ABB 150A --- 250A --- 400A JHB 600A --- 800A ---	800	200,000	J	600	
80								
100								
150								
225								
260			Cutler-Hammer 150A FDC, HFD 250A HJD, JDC 400A CHKD, HKD, KDC, LA Tripac, LCL 600A CHLD, CLDC, HLD, LDC 800A NB Tripac					
400								
								General Electric 150A THLC1, SEL, SEP 250A SFL, SFP, TFL, THLC2 400A SGL4, SGP4, TB4, THLC4, TJL, TLB4 600A SGL6, SGP6, TB6, TJL1S-6S, TJL4V, TKL4V 800A SKH8, SKL8, SKP8, TB8
			Merlin Gerin 150A --- 250A CF250H, CF250L 400A CJ400L, CJ400H, CK400H, CK400N 600A CJ600H 800A CK800H, CK800N					
			Siemens 150A --- 250A CFD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6 600A CLD6, HHL6, HHLXD6, HLD6, SCLD6, SHLD6 800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6					
			Square D 150A --- 250A KC, KI 400A LC, LE, LI, LX, LXI 600A LC, LE, LI, LX, LXI 800A ME, MH, MX					
ZTSD series, 40-400A, 600V								
40	35,000	42,000	ABB 150A --- 250A --- 400A JHB, MHB 600A --- 800A ---	800	200,000	J	600	
80								
100								
150								
225								

260 400			Cutler-Hammer	150A FDC 250A JDC 400A HKD, KDC, LA Tripac, LCL 600A CLDC, LDC 800A NB Tripac				
			General Electric	150A THLC1 250A THLC2 400A SGL4, SGP4, TB4, THLC4 600A SGL6, SGP6, TB6 800A SKL8, SKP8, TB8				
			Merlin Gerin	150A --- 250A CF250L 400A CJ400L, CK400H, CK400L, CK400N, CK400NN 600A --- 800A CK800H				
			Siemens	150A --- 250A CFD6 400A CJD6, HHJD6, HHJXD6, HJD6, HLD6, SCJD6 600A CLD6, HHL6, HHLXD6, SCLD6 800A CMD6, HMD6, HMXD6, SCMD6, SHMD6				
			Square D	150A --- 250A KI 400A LC, LE, LI, LX, LXI 600A LI, LXI 800A ---				

ZTSD series, 600A, 480V

V-1287	600	50,000	65,000	Cutler-Hammer	600A CHDC, CLDC, HLD, LDC 800A CHMDL, DSL206, HMDL, NB Tripac	800	200,000	L	750	
				General Electric	600A TB6, TJL, SGL6, SGP6 800A TB8, TC, THC, THP, TP, SKL8, SKP8				J	750
				Siemens	600A CLD6, HLD6, SCLD6, SHLD6 800A CMD6, HMD6, SCMD6, SHMD6				RK1	750
				Square D	600A LC, LE, LI, LX, LXI 800A ME, MH, MX, NC, NE, NX				RK5	750

ZTSD series, 600A, 600V

V-1287	600	42,000	50,000	Cutler-Hammer	600A CLDC, LDC 800A DSL206, NB Tripac	800	150,000	L	750	
				General Electric	600A TB6, SGL6, SGP6 800A TB8, THC, THP, SKP8				J	750
				Siemens	600A CLD6, SCLD6 800A CMD6, HMD6, SCMD6, SHMD6				RK5	750
				Square D	600A LI, LXI 800A NC, NE, NX				RK1	750

V-1929

800	50,000	65,000	Cutler-Hammer	800A CHMDL, HMDL, NB Tripac 1,200A CHND, CNDC, HND, NDC	1,200	200,000	L	1,200
			General Electric	800A TB8, TC, THC, THP, TKL85, TP, SKL8, SKP8 1,200A TKL12S, SKL12, SKP12				
			Siemens	800A CMD6, HMD6, SCMD6, SHMD6 1,200A CND6, HND6, SCND6, SHND6				
			Merlin Gerin	800A --- 1,200A CK1000L				
			Square D	800A ME, MH, MX 1,200A NC, NE, NX				

ZTSD series, 800A, 600V

Consult factory

ZTSD series, 1,000-1,200A, 480VV-1288
V-1288A

1,000 1,200	50,000	85,000	Cutler-Hammer	800A NB Tripac 1,200A CNDC, NDC 1,600A CRDC, PB Tripac, PC, PCC, RDC	1,600	200,000	L	3,000
			General Electric	800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP				
			Merlin Gerin	800A --- 1,200A CK1000L 1,600A CM1600				
			Siemens	800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6				
			Square D	800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF				

ZTSD series, 1,000-1,200A, 600VV-1288
V-1288A

1,000 1,200	42,000	65,000	Cutler-Hammer	800A NB Tripac 1,200A --- 1,600A CRDC, PB Tripac, PC, PCC, RDC	1,600	150,000	L	3,000
			General Electric	800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP				
			Merlin Gerin	800A --- 1,200A --- 1,600A MC16H1, MP16H1, MP16H2				
			Siemens	800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6, HPD6, HRD6				
			Square D	800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF				

ZTSD series, 1,600-2,000A, 480V											
V-1291	1,600 2,000	100,000	100,000	Any				4,000	200,000	L	2,500
ZTSD series, 1,600-2,000A, 600V											
V-1291	1,600 2,000	85,000	85,000	Any				4,000	150,000	L	2,500
ZTSD series, 2,600-3,000A, 480V											
V-1291	2,600 3,000	100,000	100,000	Any				4,000	200,000	L	4,000
ZTSD series, 2,600-3,000A, 600V											
V-1291	2,600 3,000	85,000	85,000	Any				4,000	150,000	L	4,000
ZTSD series, 4,000A, 480V											
V-1825	4,000	100,000	100,000	Any				5,000	200,000	L	6,000
ZTSD series, 4,000A, 600V											
V-1825	4,000	85,000	85,000	Any				5,000	200,000	L	6,000



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V-1824

Amp	Any Breaker	Maximum Coordinated Breaker Rating	Coordinated Breaker Model Types	Max MCCB Breaker Ampere Size	Current Limiting Fuse Rating	Fuse Class	Maximum Fuse Size [A]
ZTG series, 40-225A, 480V							
40	#N/A	30,000	Cutler-Hammer 150A FDC, HFD	#N/A	200,000	J	400
80			250A HJD, JDC				
100			400A HKD, KD, KDB, KDC, LA Tripac, LCL				
150			General Electric 100A TB1				
200			150A SEL, SEP, TEL, THLC1				
225			225A TFL, THLC2 250A SFL, SFP 400A SGL4, SGP4, TB4, THJK4, THLC4, TJJ, TJK4, TLB4				
			Siemens 125A CED6, HED4, HED6 250A CFD6, FD6, FXD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, JD6, JXD6, SCJD6 SHJD6, SJD6				
			Square D 150A FC, FI 250A KC, KH, KI 400A LA, LC, LE, LH, LI, LX, LXI				

V-1824

ZTG series, 40-225A, 600V							
40	#N/A	22,000	Cutler-Hammer 150A FDC, HFD	#N/A	200,000	J	400
80			250A HJD, JDC				
100			400A HKD, KD, KDB, KDC, LA Tripac, LCL				
150			General Electric 100A TB1				
200			150A SEL, SEP, TEL, THLC1				
225			225A TFL, THLC2 250A SFL, SFP 400A SGL4, SGP4, TB4, THJK4, THLC4, TJJ, TJK4				
			Siemens 125A CED6 250A CFD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, JD6, JXD6, SCJD6, SHJD6, SJD6				
			Square D 150A FI 250A KA, KH, KI 400A LA, LC, LE, LH, LI, LX, LXI				

V-1870

ZTG series, 260-400A, 480V							
260	#N/A	50,000	Cutler-Hammer 250A HJD, JDC	#N/A	200,000	J	600
400			400A CHKD, HKD, KDC, LA Tripac, LCL		100,000	RK5	600

				600A CHLD, CLDC, HLD, LDC 800A NB Tripac		100,000	RK1	600
			General Electric	250A SFL, SFP, TFL, THLC2 400A SGL4, SGP4, TB4, THLC4, TLB4 600A SGL6, SGP6, TB6, TJL1S-6S, TJL4V, TKL4V 800A SKH8, SKL8, SKP8, TB8				
			Merlin Gerin	250A CF250H, CF250L 400A CJ400H, CJ400L, CK400H, CK400N 600A CJ600H 800A CK800H, CK800N				
			Siemens	250A CFD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6 600A CLD6, HHL6, HHLXD6, HLD6, SCLD6, SHLD6 800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6				
			Square D	250A KC, KI 400A --- 600A LC, LE, LI, LX, LXI 800A ME, MH, MX				

ZTG series, 260-400A, 600V

v-1870

260 400	#N/A	42,000	Cutler-Hammer	250A --- 400A KDC, LA Tripac, LCL 600A CLDC, LDC 800A NB Tripac	#N/A	200,000	J	600
			General Electric	250A THLC2 400A SGL4, SGP4, TB4, THLC4 600A SGL6, SGP6, TB6 800A SKL8, SKP8, TB8				
			Merlin Gerin	250A CF250L 400A CJ400L, CK400H 600A --- 800A CK800H				
			Siemens	250A CFD6 400A CJD6, HHJD6, HHJXD6, SCJD6 600A CLD6, HHL6, HHLXD6, SCLD6 800A CMD6, HMD6, HMXD6, SCMD6, SHMD6				
			Square D	250A KI 400A --- 600A LI, LXI 800A ---				

ZTG series, 600A, 480V

v-2021

600	#N/A	50,000	ABB	150A --- 250A --- 400A JHB	#N/A	#N/A	#N/A	#N/A
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				600A --- 800A ---				
				150A FDC, HFD 250A HJD, JDC 400A CHKD, HKD, KDC, LA Tripac, LCL 600A CHLD, CLDC, HLD, LDC 800A NB Tripac				
			General Electric	150A SEL, SEP, THLC1 250A SFP, SFP, TFL, THLC2 400A SGL4, SGP4, TB4, THLC4, TJL, TLB4 600A SGL6, SGP6, TB6, TJL1S-6S, TJL4V, TKL4V 800A SKL8, SKH8, SKP8, TB8				
			Merlin Gerin	150A --- 250A CF250H, CF250L 400A CJ400H, CJ400L, CK400H, CK400N 600A CJ600H 800A CK800H, CK800N				
			Siemens	150A --- 250A CFD6, HFD6 400A CJD6, HJD6, HHJD6, HHJXD6, SCJD6, SHJD6 600A CLD6, HLD6, HHL6, HHLXD6, SCLD6, SHLD6 800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6				
			Square D	150A --- 250A KI, KC 400A LC, LE, LI, LX, LXI 600A LC, LE, LI, LX, LXI 800A ME, MH, MX				

ZTG series, 800A, 480V

V-1929

800	#N/A	65,000	Cutler-Hammer	800A CHMDL, HMDL, NB Tripac 1,200A CHND, CNDC, HND, NDC	#N/A	200,000	L	1,200
			General Electric	800A TB8, TC, THC, THP, TKL85, TP, SKL8, SKP8 1,200A TKL12S, SKL12, SKP12				
			Siemens	800A CMD6, HMD6, SCMD6, SHMD6 1,200A CND6, HND6, SCND6, SHND6				
			Merlin Gerin	800A --- 1,200A CK1000L				
			Square D	800A ME, MH, MX 1,200A NC, NE, NX				

ZTG series, 800A, 600V

Consult factory

ZTG series, 1,000-1,200A, 480V

V-1288

V-1288A

1,000	#N/A	85,000	Cutler-Hammer	800A NB Tripac	#N/A	200,000	L	3,000
1,200				1,200A CNDC, NDC				

			1,600A CRDC, PB Tripac, PC, PCC, RDC					
			General Electric 800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP					
			Merlin Gerin 800A --- 1,200A CK1000L 1,600A CML600					
			Siemens 800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6					
			Square D 800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF					
ZTG series, 1,000-1,200A, 600V								
V-1288 V-1288A	1,000 1,200	#N/A	65,000	Cutler-Hammer 800A NB Tripac 1,200A --- 1,600A CRDC, PB Tripac, PC, PCC, RDC	#N/A	150,000	L	3,000
				General Electric 800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP				
				Merlin Gerin 800A --- 1,200A --- 1,600A MC16H1, MP16H1, MP16H2				
				Siemens 800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6, HPD6, HRD6				
				Square D 800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF				
ZTG series, 1,600-2,000A, 480V								
V-1291	1,600 2,000	#N/A	100,000	Any	#N/A	200,000	L	2,500
ZTG series, 1,600-2,000A, 600V								
V-1291	1,600 2,000	#N/A	85,000	Any	#N/A	150,000	L	2,500
ZTS series, 2,600-3,000A, 480V								
V-1291	2,600 3,000	#N/A	100,000	Any	#N/A	200,000	L	4,000
ZTG series, 2,600-3,000A, 600V								
V-1291	2,600 3,000	#N/A	85,000	Any	#N/A	150,000	L	4,000

Drawing reference

Amp	Any Breaker	Maximum Coordinated Breaker Rating	Coordinated Breaker Model Types		Max MCCB Breaker Ampere Size	Current Limiting Fuse Rating	Fuse Class	Maximum Fuse Size [A]
ZTGD series, 40-400A, 480V								
V-2002 40 80 100 150 225 260 400	35,000	50,000	ABB	150A ---	800	200,000	J	600
				250A ---				
				400A JHB				
				600A ---				
				800A ---				
				Cutler-Hammer				
			Cutler-Hammer	250A HJD, JDC				
				400A CHKD, HKD, KDC, LA Tripac, LCL				
				600A CHLD, CLDC, HLD, LDC				
				800A NB Tripac				
			General Electric	150A THLC1, SEL, SEP				
				250A SFL, SFP, TFL, THLC2				
				400A SGL4, SGP4, TB4, THLC4, TJL, TLB4				
				600A SGL6, SGP6, TB6, TJL1S-6S, TJL4V, TKL4V				
				800A SKH8, SKL8, SKP8, TB8				
			Merlin Gerin	150A ---				
				250A CF250H, CF250L				
				400A CJ400L, CJ400H, CK400H, CK400N				
				600A CJ600H				
				800A CK800H, CK800N				
Siemens	150A ---							
	250A CFD6, HFD6							
	400A CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6							
	600A CLD6, HHL6, HHLXD6, HLD6, SCLD6, SHLD6							
	800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6							
Square D	150A ---							
	250A KC, KI							
	400A LC, LE, LI, LX, LXI							
	600A LC, LE, LI, LX, LXI							
	800A ME, MH, MX							
ZTGD series, 40-400A, 600V								
V-2002 40 80 100 150	35,000	42,000	ABB	150A ---	800	200,000	J	600
				250A ---				
				400A JHB, MHB				
				600A ---				

225			800A ---					
260			Cutler-Hammer	150A FDC 250A JDC 400A HKD, KDC, LA Tripac, LCL 600A CLDC, LDC 800A NB Tripac				
400			General Electric	150A THLC1 250A THLC2 400A SGL4, SGP4, TB4, THLC4 600A SGL6, SGP6, TB6 800A SKL8, SKP8, TB8				
			Merlin Gerin	150A --- 250A CF250L 400A CJ400L, CK400H, CK400L, CK400N, CK400NN 600A --- 800A CK800H				
			Siemens	150A --- 250A CFD6 400A CJD6, HHJD6, HHJXD6, HJD6, HLD6, SCJD6 600A CLD6, HHL6, HHLXD6, SCLD6 800A CMD6, HMD6, HMXD6, SCMD6, SHMD6				
			Square D	150A --- 250A KI 400A LC, LE, LI, LX, LXI 600A LI, LXI 800A ---				

ZTGD series, 600A, 480V

v-2021

600	#N/A	50,000	ABB	150A --- 250A --- 400A JHB 600A --- 800A ---	#N/A	#N/A	#N/A	#N/A
			Cutler-Hammer	150A FDC, HFD 250A HJD, JDC 400A CHKD, HKD, KDC, LA Tripac, LCL 600A CHLD, CLDC, HLD, LDC 800A NB Tripac				
			General Electric	150A SEL, SEP, THLC1 250A SFP, SFP, TFL, THLC2 400A SGL4, SGP4, TB4, THLC4, TJL, TLB4 600A SGL6, SGP6, TB6, TJL1S-6S, TJL4V, TKL4V 800A SKL8, SKH8, SKP8, TB8				
			Merlin Gerin	150A --- 250A CF250H, CF250L				

			400A CJ400H, CJ400L, CK400H, CK400N 600A CJ600H 800A CK800H, CK800N					
			Siemens 150A --- 250A CFD6, HFD6 400A CJD6, HJD6, HHJD6, HHJXD6, SCJD6, SHJD6 600A CLD6, HLD6, HHL6, HHLXD6, SCLD6, SHLD6 800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6					
			Square D 150A --- 250A KC, KI 400A LC, LE, LI, LX, LXI 600A LC, LE, LI, LX, LXI 800A ME, MH, MX					
ZTGD series, 600A, 600V								
			Consult factory					
ZTGD series, 800A, 480V								
V-1929	800	#N/A	65,000	Cutler-Hammer 800A CHMDL, HMDL, NB Tripac 1,200A CHND, CNDC, HND, NDC General Electric 800A TB8, TC, THC, THP, TKL85, TP, SKL8, SKP8 1,200A TKL12S, SKL12, SKP12 Siemens 800A CMD6, HMD6, SCMD6, SHMD6 1,200A CND6, HND6, SCND6, SHND6 Merlin Gerin 800A --- 1,200A CK1000L Square D 800A ME, MH, MX 1,200A NC, NE, NX	#N/A	200,000	L	1,200
ZTGD series, 800A, 600V								
			Consult factory					
ZTGD series, 1,000-1,200A, 480V								
V-1288 V-1288A	1,000 1,200	#N/A	85,000	Cutler-Hammer 800A NB Tripac 1,200A CNDC, NDC 1,600A CRDC, PB Tripac, PC, PCC, RDC General Electric 800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP Merlin Gerin 800A --- 1,200A CK1000L 1,600A CMI600 Siemens 800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6 Square D 800A --- 1,200A NC, NE, NX	#N/A	200,000	L	3,000

1,600A PCF, PEF, PHF, PXF										
ZTGD series, 1,000-1,200A, 600V										
V-1288	1,000	#N/A	65,000	Cutler-Hammer	800A NB Tripac	#N/A	150,000	L	3,000	
V-1288A	1,200				1,200A --- 1,600A CRDC, PB Tripac, PC, PCC, RDC					
				General Electric	800A SKP8, TB8, THC, THP					
					1,200A SKP12 1,600A THC, THP, TRP					
				Merlin Gerin	800A --- 1,200A --- 1,600A MC16H1, MP16H1, MP16H2					
				Siemens	800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6, HPD6, HRD6					
				Square D	800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF					
ZTGD series, 1,600-2,000A, 480V										
V-1291	1,600	#N/A	100,000	Any			#N/A	200,000	L	2,500
	2,000									
ZTGD series, 1,600-2,000A, 600V										
V-1291	1,600	#N/A	85,000	Any			#N/A	150,000	L	2,500
	2,000									
ZTGD series, 2,600-3,000A, 480V										
V-1291	2,600	#N/A	100,000	Any			#N/A	200,000	L	4,000
	3,000									
ZTGD series, 2,600-3,000A, 600V										
V-1291	2,600	#N/A	85,000	Any			#N/A	150,000	L	4,000
	3,000									

Drawing reference

V-1824

V-1870

Amp	Any Breaker	Maximum Coordinated Breaker Rating	Coordinated Breaker Model Types		Max MCCB Breaker Ampere Size	Current Limiting Fuse Rating	Fuse Class	Maximum Fuse Size [A]
ZTX series, 40-225A, 480V								
40 80 100 150 200 225	#N/A	30,000	Cutler-Hammer	150A FDC, HFD 250A HJD, JDC 400A HKD, KD, KDB, KDC, LA Tripac, LCL	#N/A	200,000	J	400
			General Electric	100A TB1 150A SEL, SEP, TEL, THLC1 225A TFL, THLC2 250A SFL, SFP 400A SGL4, SGP4, TB4, THJK4, THLC4, TJJ, TJK4, TLB4				
			Siemens	125A CED6, HED4, HED6 250A CFD6, FD6, FXD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, JD6, JXD6, SCJD6 SHJD6, SJD6				
			Square D	150A FC, FI 250A KC, KH, KI 400A LA, LC, LE, LH, LI, LX, LXI				
ZTX series, 300-400A, 480V								
300 400	#N/A	50,000	Cutler-Hammer	250A HJD, JDC 400A CHKD, HKD, KDC, LA Tripac, LCL 600A CHLD, CLDC, HLD, LDC 800A NB Tripac	#N/A	200,000 100,000 100,000	J RK5 RK1	600 600 600
			General Electric	250A SFL, SFP, TFL, THLC2 400A SGL4, SGP4, TB4, THLC4, TLB4 600A SGL6, SGP6, TB6, TJL1S-6S, TJL4V, TKL4V 800A SKH8, SKL8, SKP8, TB8				
			Merlin Gerin	250A CF250H, CF250L 400A CJ400H, CJ400L, CK400H, CK400N 600A CJ600H 800A CK800H, CK800N				
			Siemens	250A CFD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6 600A CLD6, HHL6, HHLXD6, HLD6, SCLD6, SHLD6 800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6				
			Square D	250A KC, KI 400A --- 600A LC, LE, LI, LX, LXI 800A ME, MH, MX				

Drawing reference

Amp	Any Breaker	Maximum Coordinated Breaker Rating	Coordinated Breaker Model Types	Max MCCB Breaker Ampere Size	Current Limiting Fuse Rating	Fuse Class	Maximum Fuse Size [A]					
ZTSCT series, 100-400A, 480V & 600V												
40			Consult factory									
80												
100												
150												
225												
260												
400												
ZTSCT series, 600A, 480V												
V-1287	600	50,000	65,000	Cutler-Hammer	600A CHDC, CLDC, HLD, LDC	800	200,000	L	750			
					800A CHMDL, HMDL, DSL206, NB Tripac					J	750	
				General Electric	600A TB6, TJL, SGL6, SGP6					200,000	RK5	750
					800A TB8, TC, THC, THP, TP, SKL8, SKP8					200,000	RK1	750
				Siemens	600A CLD6, HLD6, SCLD6, SHLD6							
		800A CMD6, HMD6, SCMD6, SHMD6										
		Square D	600A LC, LE, LI, LX, LXI									
			800A ME, MH, MX, NC, NE, NX									
ZTSCT series, 600A, 600V												
V-1287	600	42,000	50,000	Cutler-Hammer	600A CLDC, LDC	800	150,000	L	750			
					800A DSL206, NB Tripac					J	750	
				General Electric	600A TB6, SGL6, SGP6					150,000	RK5	750
					800A TB8, THC, THP, SKP8					150,000	RK1	750
				Siemens	600A CLD6, SCLD6							
		800A CMD6, HMD6, SCMD6, SHMD6										
		Square D	600A LI, LXI									
			800A NC, NE, NX									
ZTSCT series, 800A, 480V												
V-1929	800	50,000	65,000	Cutler-Hammer	800A CHMDL, HMDL, NB Tripac	1,200	200,000	L	1,200			
					1,200A CHND, CNDC, HND, NDC							
				General Electric	800A TB8, TC, THC, THP, TKL85, TP, SKL8, SKP8							
					1,200A TKL12S, SKL12, SKP12							
				Siemens	800A CMD6, HMD6, SCMD6, SHMD6							
		1,200A CND6, HND6, SCND6, SHND6										
		Merlin Gerin	800A ---									
			1,200A CK1000L									

			Square D	800A ME, MH, MX 1,200A NC, NE, NX						
ZTSCT series, 800A, 600V										
			Consult factory							
ZTSCT series, 1,000-1,200A, 480V										
V-1288 V-1288A	1,000 1,200	50,000	85,000	Cutler-Hammer	800A NB Tripac 1,200A CNDC, NDC 1,600A CRDC, PB Tripac, PC, PCC, RDC	1,600	200,000	L	3,000	
				General Electric	800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP					
				Merlin Gerin	800A --- 1,200A CK1000L 1,600A CM1600					
				Siemens	800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6					
				Square D	800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF					
ZTSCT series, 1,000-1,200A, 600V										
V-1288 V-1288A	1,000 1,200	42,000	65,000	Cutler-Hammer	800A NB Tripac 1,200A --- 1,600A CRDC, PB Tripac, PC, PCC, RDC	1,600	150,000	L	3,000	
				General Electric	800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP					
				Merlin Gerin	800A --- 1,200A --- 1,600A MC16H1, MP16H1, MP16H2					
				Siemens	800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6, HPD6, HRD6					
				Square D	800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF					
ZTSCT series, 1,600-2,000A, 480V										
V-1291	1,600 2,000	100,000	100,000	Any			4,000	200,000	L	2,500
ZTSCT series, 1,600-2,000A, 600V										
V-1291	1,600 2,000	85,000	85,000	Any			4,000	150,000	L	2,500

ZTSCT series, 2,600-3,000A, 480V												
V-1291	2,600 3,000	100,000	100,000	Any					4,000	200,000	L	4,000
ZTSCT series, 2,600-3,000A, 600V												
V-1291	2,600 3,000	85,000	85,000	Any					4,000	150,000	L	4,000
ZTSCT series, 4,000A, 480V												
V-1825	4,000	100,000	100,000	Any					5,000	200,000	L	6,000
ZTSCT series, 4,000A, 600V												
V-1825	4,000	85,000	85,000	Any					5,000	200,000	L	6,000



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Drawing reference

Amp	Any Breaker	Maximum Coordinated Breaker Rating	Coordinated Breaker Model Types	Max MCCB Breaker Ampere Size	Current Limiting Fuse Rating	Fuse Class	Maximum Fuse Size [A]
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ZBTS, ZBTSD series, 100-400A, 480V

For ZBTSCT series, consult factory

V-2044

100 150 225 260 400	35,000	50,000	Cutler-Hammer	250A HJD, JDC 400A CHKD, HKD, KDC, LA Tripac, LCL 600A CHLD, CLDC, HLD, LDC 800A NB Tripac	800	200,000 100,000 100,000	J RK1 RK5	600 600 600
			General Electric	250A SFL, SFP, TFL, THLC2 400A SGL4, SGP4, TB4, THLC4, TLB4 600A SGL6, SGP6, SGPA, TB6, TJL1S-6S, TJL4V, TKL4V 800A SKH8, SKL8, SKP8, TB8				
			Merlin Gerin	250A CF250H, CF250L 400A CJ400H, CJ400L, CK400H, CK400N 600A CJ600H 800A CK800H, CK800N				
			Siemens	250A CFD6, HFD6 400A CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6 600A CLD6, HHL6, HHLXD6, HLD6, SCLD6, SHLD6 800A CMD6, HMD6, HMXD6, MD6, MXD6, SCMD6, SHMD6, SMD6				
			Square D	250A KC, KI 400A --- 600A LC, LE, LI, LX, LXI 800A ME, MH, MX				

ZBTS, ZBTSD series, 225-400A, 600V

For ZBTSCT series, consult factory

V-2044

100 150 225 260 400	35,000	42,000	Cutler-Hammer	250A --- 400A KDC, LA Tripac, LCL 600A CLDC, LDC 800A NB Tripac	800	200,000	J	600
			General Electric	250A THLC2 400A SGL4, SGP4, TB4, THLC4 600A SGL6, SGP6, TB6 800A SKL8, SKP8, TB8				
			Merlin Gerin	250A CF250L 400A CJ400L, CK400H 600A --- 800A CK800H				

			Siemens	250A CFD6 400A CJD6, HHJD6, HHJXD6, SCJD6 600A CLD6, HHL6, HHLXD6, SCLD6 800A CMD6, HMD6, HMXD6, SCMD6, SHMD6					
			Square D	250A KI 400A --- 600A LI, LXI 800A ---					

ZBTS, ZBTSD, ZBTSCT series, 600A, 480V

V-1287	600	50,000	65,000	Cutler-Hammer	600A CHDC, CLDC, HLD, LDC 800A CHMDL, HMDL, DSL206, NB Tripac	800	200,000	L	750			
				General Electric	600A TB6, TJL, SGL6, SGP6 800A TB8, TC, THC, THP, TP, SKL8, SKP8					200,000	RK5	750
				Siemens	600A CLD6, HLD6, SCLD6, SHLD6 800A CMD6, HMD6, SCMD6, SHMD6					200,000	RK1	750
				Square D	600A LC, LE, LI, LX, LXI 800A ME, MH, MX, NC, NE, NX							

ZBTS, ZBTSD, ZBTSCT series, 600A, 600V

V-1287	600	42,000	50,000	Cutler-Hammer	600A CLDC, LDC 800A DSL206, NB Tripac	800	150,000	L	750			
				General Electric	600A TB6, SGL6, SGP6 800A TB8, THC, THP, SKP8					150,000	J	750
				Siemens	600A CLD6, SCLD6 800A CMD6, HMD6, SCMD6, SHMD6					150,000	RK5	750
				Square D	600A LI, LXI 800A NC, NE, NX					150,000	RK1	750

ZBTS, ZBTSD, ZBTSCT series, 800-1,200A, 480V

V-1288 V-1288A	800 1,000 1,200	50,000	85,000	Cutler-Hammer	800A NB Tripac 1,200A CNDC, NDC 1,600A CRDC, PB Tripac, PC, PCC, RDC	1,600	200,000	L	3,000
				General Electric	800A SKP8, TB8, THC, THP 1,200A SKP12 1,600A THC, THP, TRP				
				Merlin Gerin	800A --- 1,200A CK1000L 1,600A CM1600				
				Siemens	800A CMD6, SCMD6 1,200A CND6, SCND6 1,600A CPD6				
				Square D	800A --- 1,200A NC, NE, NX 1,600A PCF, PEF, PHF, PXF				

ZBTS, ZBTSD, ZBTSCT series, 800-1,200A, 600V

V-1288	800	42,000	65,000	Cutler-Hammer	800A NB Tripac	1,600	150,000	L	3,000
V-1288A	1,000				1,200A ---				
	1,200				1,600A CRDC, PB Tripac, PC, PCC, RDC				
				General Electric	800A SKP8, TB8, THC, THP				
					1,200A SKP12				
					1,600A THC, THP, TRP				
				Merlin Gerin	800A ---				
					1,200A ---				
					1,600A MC16H1, MP16H1, MP16H2				
				Siemens	800A CMD6, SCMD6				
					1,200A CND6, SCND6				
					1,600A CPD6, HPD6, HRD6				
				Square D	800A ---				
					1,200A NC, NE, NX				
					1,600A PCF, PEF, PHF, PXF				
ZBTS, ZBTSD, ZBTSCT series, 1,600-2,000A, 480V									
V-1291	1,600	100,000	100,000	Any		4,000	200,000	L	2,500
	2,000								
ZBTS, ZBTSD, ZBTSCT series, 1,600-2,000A, 600V									
V-1291	1,600	85,000	85,000	Any		4,000	150,000	L	2,500
	2,000								
ZBTS, ZBTSD, ZBTSCT series, 2,600-3,000A, 480V									
V-1291	2,600	100,000	100,000	Any		4,000	200,000	L	4,000
	3,000								
ZBTS, ZBTSD, ZBTSCT series, 2,600-3,000A, 600V									
V-1291	2,600	85,000	85,000	Any		4,000	150,000	L	4,000
	3,000								
ZBTS, ZBTSD, ZBTSCT series, 4,000A, 480V									
V-1825	4,000	100,000	100,000	Any		5,000	200,000	L	6,000
ZBTS, ZBTSD, ZBTSCT series, 4,000A, 600V									
V-1825	4,000	85,000	85,000	Any		5,000	200,000	L	6,000

Application Worksheet

Item Number	Available Fault Current	Ampere Rating	Circuit Protection Type	GE Zenith Transfer Switch Rating
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:



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