

GE Consumer & Industrial  
Power Quality



**GeneratorJoe**

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# ZTG Series

Low-Voltage Automatic Transfer Switches



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GE Zenith's ZTG Series switches are built for standard applications requiring the dependability and ease of operation found in a power contactor switch.

- Ratings 40 to 3000 amps (2, 3 or 4 poles)
- UL 1008 listed at 480 VAC
- CSA certified at 600 VAC (200-260 amp - 480V)
- IEC listed at 480V
- Double throw, mechanically interlocked contactor mechanism
- Electrically operated, mechanically held
- Designed for emergency and standby applications
- Available in standard (ZTG) or delayed transition (ZTGD) models

ZTG switches are equipped with GE Zenith's next-generation MX150 microprocessor panel, which controls the operation and displays the status of the transfer switch's position, timers and available sources. As an embedded digital controller, the MX150 offers high reliability and ease of unattended operation across a range of applications. The MX150 features include:

- Timer and voltage/frequency settings adjustable without disconnection from the power section
- Built-in diagnostics with an LCD display for immediate troubleshooting
- LED/LCD indicators for ease of viewing and long life
- Nonvolatile memory—clock battery backup not required for standard switch operation
- Processor and digital circuitry isolated from line voltage
- Inputs optoisolated for high electrical immunity to transients and noise
- Communications network interface



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#### Fully Approved

- UL, CSA and IEC listed
- Ringing wave immunity per IEEE 472 (ANSI C37.90A)
- Conducted and Radiated Emissions per EN55022 Class B (CISPR 22) (Exceeds EN55011 & MILSTD 461 Class 3)
- ESD immunity test per EN61000-4-2 Class B (Level 4)
- Radiated RF, electromagnetic field immunity test per EN61000-4-3 (ENV50140) 10v/m
- Electrical fast transient/burst immunity test per EN61000-4-4
- Surge immunity test per EN61000-4-5 IEEE C62.41 (1.2 X 50µs, 0.5 & 4 kV)
- Conducted immunity test per EN61000-4-6 (ENV50141)
- Voltage dips and interruption immunity EN61000-4-11

#### Design and Construction Features

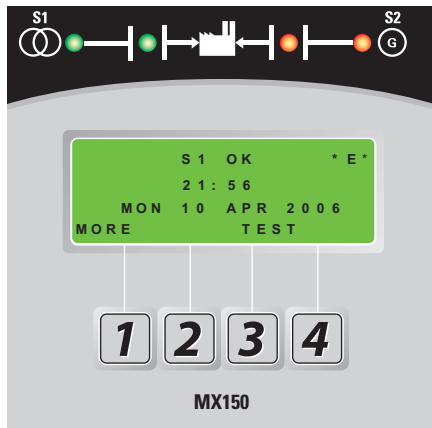
- Close differential 3 phase under-voltage sensing of Source 1 (normal)—factory standard setting 90% pickup, 80% dropout (adjustable); under-frequency sensing of Source 1 factory setting 95% pickup (adjustable)
- Voltage and frequency sensing of the Source 2 (emergency)—factory standard setting 90% pickup voltage, 95% pickup frequency (adjustable)
- Test switch (fast test/load/no load) to simulate Source 1 (normal) failure—automatically bypassed should the Source 2 (emergency) fail
- NEMA Type 1 enclosure is standard—also available in open style or NEMA Types 3R, 4, 4X or 12



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## MX150 Control Panel



Front View

## Standard Features (MSTDG Option Pkg.)

<b>6/P</b>	Test Switch, Momentary
<b>A3</b>	Auxiliary Contact: Closed when the switch is in the Source 2 position (S2)
<b>A4</b>	Auxiliary Contact: Closed when the switch is in the Source 1 position (S1)
<b>CALIBRATE</b>	Capabilities are available for Frequency and AB, BC, CA Phase to Phase voltage for both Sources
<b>CDT</b>	Daily 7, 14, 28 timed exercise (CDT memory backup battery included), pushbutton/timer operation
<b>E</b>	Engine Start Contact
<b>EL/P</b>	Event Log of 16 Events that track date, time, reason and action taken
<b>J1E</b>	Adjustable under frequency sensor for S2
<b>K/P</b>	Voltage and Frequency Indication for S1 and S2
<b>L</b>	Indicating LED Pilot Lights: <b>L1</b> Indicates switch in S2 position <b>L2</b> Indicates switch in S1 position <b>L3</b> Indicates S1 source available <b>L4</b> Indicates S2 source available
<b>P1</b>	Time Delay to Engine Start
<b>Q2</b>	Peak Shave / Remote Load Test
<b>R50</b>	In-Phase Monitor, self-adjusting
<b>T</b>	Time Delay on Retransfer to Normal: To delay retransfer to S1 (immediate retransfer on S2 failure).
<b>R2E</b>	Under voltage sensing of S2
<b>S13</b>	Microprocessor activated commit / no commit on transferring to S2.
<b>U</b>	Time Delay for Engine Cool Down: Allows engine to run unloaded after switch retransfer to S1
<b>W</b>	Time Delay on Transfer to Emergency: To delay transfer to S2 after availability
<b>YEN</b>	Pushbutton Bypass of T & W Timers

When specified for use with a ZTGD Series delayed transition switch, the control panel also includes the following:

<b>DT</b>	Time Delay from Neutral Switch Position to S1 on Retransfer.
<b>DW</b>	Time Delay from Neutral Switch Position to S2
<b>LN/P</b>	Center-Off position/Off Delay Timing indicating lights

## Additional Standard Features (MEXEG Option Pkg.)

<b>CDP</b>	Clock Exerciser Load/No Load (Replaces CDT Exerciser Option)
<b>VI</b>	Voltage Imbalance Monitor (Three Phase)



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## ZTG Series Ordering Information

MODEL/TYPE	CONTROL PANEL	APPLICATION	AMPERE SIZE	SWITCHED POLES	ENCLOSURE TYPE	OPERATIONAL VOLTAGE	ACCESSORIES
Z T G 0 0 0	A 0	0	0 0 4	B	0 1	A B	M S T D
Standard (Open Transition)	Entelli-Switch 150 Microprocessor Control Unit	Utility - Generator	40 amps	2 Poles	Type 1 Enclosed	Consult Table Below	M E X E
Z T G D 0 0 0	U	Utility - Utility	0 0 8	E	1 2		M A N O
Delayed Transition	Gen to Gen	80 amps	3 Poles	Type 12 Enclosure	3 R		Then choose additional accessories
	G	100 amps	4 Poles	Type 3R Enclosure	4 0		6A
		150 amps		Type 4 Enclosure	4 X		6AP
		200 amps		Type 4X Enclosure	0 0		A1
		225 amps		Open Style Unit			A1E
		260 amps					A3
		400 amps					A4
		600 amps					A62
		800 amps				ATGEW-X	
		1000 amps				CTAP	
		1200 amps				DS	
		1600 amps				HT	
		2000 amps				LCM	
		2600 amps				M90	
		3000 amps				M90A	
						M90B	
						M91	
						M91A	
						M91B	
						MCM	
						OCVR-1SG	
						OCVR-1SS	
						T3/W3	
						UMD	
						VI	
						None	

### Switch Types

- Standard:** Unless otherwise noted, the standard switch with quick transfer will be supplied.
- Delayed Transition:** When ordered as the ZTGD, the delayed transition switch offers time delay during transfer from one position to the other. This is primarily for transfer of large motor or inductive loads. The operation of the delayed transition switch is totally independent of the synchronism of the power sources, eliminating the need for in-phase monitors or extensive motor-disconnect control wiring between the transfer switch and motor control centers.

### Example

ZTG000A00040F-ZEC01ZVC40MSTD

This number string shows the correct format for a ZTG Series Automatic Transfer Switch with an MX150 microprocessor control unit, Utility - Generator, 400 amps, 4 pole, NEMA Type 1 enclosure, 120/208V 3 $\phi$ , 4 wire, 60 Hz system with the standard group of accessories.

### UL 1008 Withstand and Closing Ratings

Please refer to GE Zenith Controls Bulletin TB-1102.

A	B	Voltage	Phase	Config.	Hz
1	0	120	1	2 wire	60
2	0	120/240	1	3 wire	60
2	1	120/208	3	3 wire	60
3	0	240	3	3 wire	60
3	1	208	3	3 wire	60
3	2	220	3	3 wire	50
3	3	120/240	3	4 wire	50
3	4	110/220	3	4 wire	60
3	5	139/240	3	4 wire	60
3	8	120/240	3	4 wire	60
4	0	120/208	3	4 wire	60
4	1	127/220	3	4 wire	60
4	2	127/220	3	4 wire	50
5	0	480	3	3 wire	60
5	1	440	3	3 wire	60
5	2	440	3	3 wire	50
5	5	460	1	3 wire	50
5	7	480	1	2 wire	60
5	8	254/440	3	4 wire	60
6	0	575	3	3 wire	60
6	1	347/600	3	4 wire	60
7	0	277/480	3	4 wire	60
7	1	277	1	2 wire	60
7	4	266/460	3	4 wire	60
7	5	460	3	3 wire	60
8	0	120/240	2	4/5 wire	60
8	2	380	1	2 wire	50
9	0	240/416	3	4 wire	60
9	1	220/380	3	4 wire	60
9	2	220/380	3	4 wire	50
9	3	240/416	3	4 wire	50
9	7	380	3	3 wire	60

**Note:** Operating voltage must be specified at time of order. Only the most common voltages are shown above.



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## Options

<b>6A</b>	Test Switch, Maintained
<b>6AP</b>	Test Switch, Maintained Programmable
<b>A1</b>	Auxiliary Contact, operates on Source 1 line failure
<b>A1E</b>	Auxiliary Contact, operates on Source 2 line failure
<b>A3</b>	Auxiliary Contacts: Closed when the transfer switch is in Source 2 position.
<b>A4</b>	Auxiliary Contacts: Closed when the transfer switch is in Source 1 position.
<b>A62</b>	Sequential Universal Motor Load Disconnect Circuit. Normally closed Auxiliary contacts for Motor Loads. Open 0-60 seconds prior to transfer, after transfer, or both in either direction then reclose in timed sequence after transfer.
<b>ATGEW-X</b>	Extended annual parts and labor warranty (1-4 years for a total of 5 years max.)
<b>CTAP</b>	Alarm panel on transfer to emergency w/silence button & light
<b>DS</b>	Inhibits transfer in either direction when in inhibit. Allows automatic operation when in Auto (Standard on 800A and above)
<b>HT</b>	Heater and Thermostat
<b>LCM</b>	LonWorks Communication Module
<b>MCM</b>	Modbus RTU Communication Module

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### M90 Series Power Measurement Meters (Not available in NEMA 4 enclosure)

<b>M90</b>	EPM2000 True RMS Digital Meter with display (Amps, Volts, Power, Energy, Power Factor and Frequency). 3 Line LED Display. 50/60 Hz Universal Operation. 1 or 3 phase. Standard Modbus RTU RS485 communications capability. 40 - 1200 Amps.
<b>M90A</b>	Adds Pre-Wiring for Enervista Viewpoint Monitoring of M90 Accessory & ATS Status using Modbus RS485 Serial Communications
<b>M90B</b>	Adds Pre-Wiring for Enervista Viewpoint Monitoring of M90 Accessory & ATS Status using Ethernet TCP/IP Communications
<b>M91</b>	EPM6000 True RMS Digital Meter with display (Amps, Volts, Power, Energy, Power Factor and Frequency, THD). Certified energy and demand metering. Meets ANSI C12.20 and IEC 687 Accuracy Classes. Front IrDA Port Laptop Connection. Standard Modbus RTU RS485 or DNP 3.0 communications capability.
<b>M91A</b>	Adds Pre-Wiring for Enervista Viewpoint Monitoring of M91 Accessory & ATS Status using Modbus RS485 Serial Communications
<b>M91B</b>	Adds Pre-Wiring for Enervista Viewpoint Monitoring of M91 Accessory & ATS Status using Ethernet TCP/IP Communications



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<b>OCVR-1SG</b>	Lockable see-through microprocessor cover for NEMA 3R or 12
<b>OCVR-1SS</b>	Lockable see-through microprocessor and meters cover for NEMA 3R or 12
<b>T3/W3</b>	Elevator Pre-Signal Auxiliary Contacts: Open 0-60 seconds prior to transfer to either direction, re-closes after transfer.
<b>UMD</b>	Universal Motor Load Disconnect Circuit: Auxiliary Contact opens 0-5 minutes prior to transfer in either direction, re-closes after transfer. Can be configured by end user for Pre-transfer, Post-transfer, or both.
<b>VI</b>	Voltage Imbalance Monitor (Three Phase)

### NOTE:

For additional options or other configurations, contact the GE Zenith factory.

## Reference Charts

Testing Standards	
UL, CSA and IEC listed	UL 1008, CSA 22.2 No. 178, IEC 947-6-1
Ringling wave immunity	IEEE 472 (ANSI C37.90A)
Conducted and Radiated Emissions	EN55022 Class B (CISPR 22) (Exceeds EN55011 & MILSTD 461 Class 3)
ESD immunity test	EN61000-4-2 Class B (Level 4)
Radiated RF, electromagnetic field immunity test	EN61000-4-3 (ENV50140) 10v/m
Electrical fast, transient/burst immunity test	EN61000-4-4
Surge immunity test	EN61000-4-5 IEEE C62.41 1.2 X 50µs, 0.5 to 4 kV
Conducted immunity test	EN61000-4-6 (ENV50141)
Voltage dips and interruption immunity	EN61000-4-11

AL/CU UL Listed Solderless Screw-Type Terminals for External Power Connections			
Switch Size (Amps)	Normal, Emergency and Load Terminals		
	Cables per Pole	Range of Wire Sizes	
40	1	#8 to 3/0 AWG	8-85 mm
80			
100			
150			
200, 225			
260			
400			
600	2	#2 AWG to 600 MCM	33-304 mm
800, 1000, 1200	4		
1600, 2000, 2600, 3000	8		

Standard MX150 Control Setting Ranges			
	Control Function	Range	Factory Setting
MSTDG	Source 1 Line Sensing – Under-voltage Dropout/Pickup	75-98% 85-100%	80% 90%
	Source 2 Line Sensing – Under-voltage Dropout/Pickup	75-98% 85-100%	80% 90%
	Source 2 Line Sensing – Under-frequency Dropout/Pickup	88-98% 90-100%	90% 95%
	Time Delay – Engine Start (Acc. P1)	0-10 seconds	3 seconds
	Time Delay – Engine Cool Down (Acc. U)	0-60 minutes	5 minutes
	Time Delay – Transfer to Source 2 (Acc. W)	0-5 minutes	1 second
	Time Delay – Retransfer to Source 1 (Acc. T)	0-60 minutes	30 minutes
	Time Delay – Motor Disconnect or Transfer Presignal (Acc. UMD, or T3/W3)	0-60 seconds	20 seconds
	Delayed Transition Time Delays (DT, DW)	0-10 minutes	5 seconds
	Event Exerciser (CDT)	5-60 min.-1,7,14 or 28 days load or no load	20 min. - 7 days no load
MEXEG	Programmable Event Exerciser (CDP)	365 day cycle, load or no load	0 min. - 7 days no load
	Voltage Imbalance (VI)	5-20% nominal; 10-30 sec.	10% Fail, 8% Restore; 30 sec.
Options	Elevator Pre-Signal (T3/W3)	0-60 seconds	20 seconds
	Sequential Motor Load Disconnect (A62)	0-5 minutes	20 seconds
	Motor Load Disconnect (UMD)	0-60 seconds	5 seconds





ZTG and ZTGD Model, Dimensions and Weight									
Model	Ampere Rating	Poles	NEMA 1			Ref. Figure	Weight		Application Notes
			Height (A)	Width (B)	Depth (C)		Open Type	NEMA 1	
ZTG	40, 80	2, 3	24 (61)	18 (46)	11 (28)	A	21 (10)	57 (26)	1 - 6
		4					21 (10)	60 (27)	
	100, 150	2, 3	24 (61)	18 (46)	11 (28)	A	21 (10)	57 (26)	1 - 6
		4					21 (10)	60 (27)	
	200, 225	2, 3	24 (61)	18 (46)	11 (28)	A	21 (10)	57 (26)	1 - 6
		4					21 (10)	60 (27)	
	260, 400	2, 3	46 (117)	24 (61)	14 (36)	A	70 (32)	175 (80)	1 - 5
		4					75 (34)	180 (82)	
600	2, 3	66 (168)	24 (61)	19.5 (50)	B	165 (75)	400 (450)	1 - 5, 7	
	4					185 (84)	450 (204)		
800, 1000, 1200	2, 3	74 (188)	40 (102)	19.5 (50)	B	190 (86)	455 (206)	1 - 5, 7	
	4					210 (95)	540 (245)		
1600, 2000	3	90 (229)	35.5 (90)	48 (122)	C	345 (156)	1010 (458)	1 - 5, 7-8	
	4					450 (204)	1160 (526)		
3000	3	90 (229)	35.5 (90)	48 (122)	C	465 (211)	1010 (458)	1 - 5, 7-8	
	4					670 (304)	1160 (526)		
ZTGD	40, 80	2, 3	46 (117)	24 (61)	14 (36)	A	21 (10)	57 (26)	1 - 6
		4					21 (10)	60 (27)	
	100, 150	2, 3	46 (117)	24 (61)	14 (36)	A	21 (10)	57 (26)	1 - 6
		4					21 (10)	60 (27)	
	200, 225	2, 3	46 (117)	24 (61)	14 (36)	A	21 (10)	57 (26)	1 - 6
		4					21 (10)	60 (27)	
	260, 400	2, 3	46 (117)	24 (61)	14 (36)	A	80 (36)	220 (100)	1 - 5
		4					85 (39)	230 (102)	
600	2, 3	66 (168)	24 (61)	19.5 (50)	B	185 (84)	400 (181)	1 - 5, 7	
	4					205 (93)	450 (204)		
800, 1000, 1200	2, 3	74 (188)	40 (102)	19.5 (50)	B	210 (95)	475 (215)	1 - 5, 7	
	4					230 (104)	560 (254)		
1600, 2000	3	90 (229)	35.5 (90)	48 (122)	C	365 (166)	1010 (458)	1 - 5, 7-8	
	4					470 (204)	1160 (526)		
3000	3	90 (229)	35.5 (90)	48 (122)	C	485 (220)	1130 (513)	1 - 5, 7-8	
	4					690 (313)	1395 (633)		

### Application Notes:

- Metric dimensions (cm) and weights (kg) shown in parentheses adjacent to English measurements.
- Includes 1.25" door projection beyond base depth. Allow a minimum of 3" additional depth for projection of handle, lights, switches, pushbuttons, etc.
- All dimensions and weights are approximate and subject to change without notice.
- Packing materials must be added to weights shown. Allow 15% additional weight for cartons, skids, crates, etc.
- Special enclosure (NEMA 3R, 4, 4X, 12, etc.) dimensions and layouts may differ. Consult factory for details.
- A ZTG(D) 40-225A, when ordered with the following options, will require a larger enclosure of 46"x 24"x 14.13" (HxWxD): A62(T), Digital Meter, HT, OCVR-1SG, OCVR-1SS.
- Add 3" in height for removable lifting eyes.
- Ventilation louvers on side and rear of enclosure at 1600-3000 amps. One set of louvers must be clear for airflow with standard cable connections.

### Reference Figures

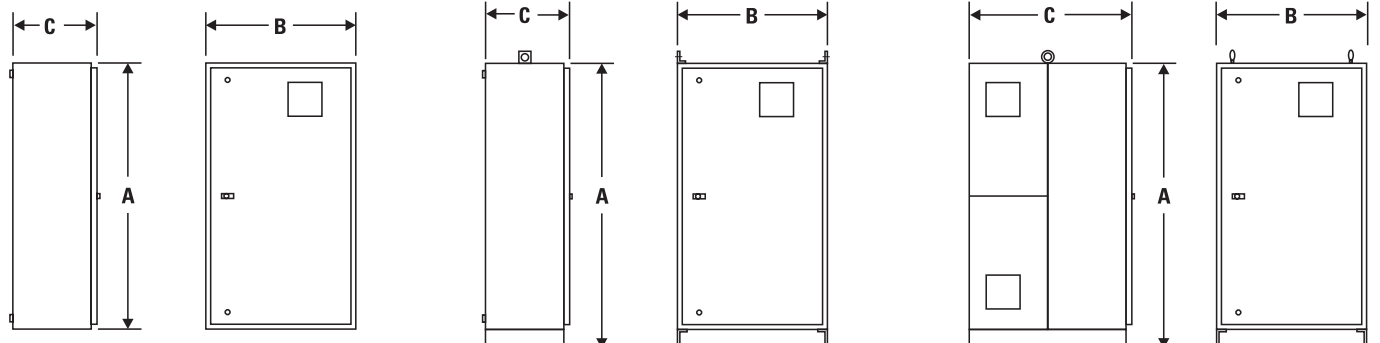


Figure A

Figure B

Figure C



## Extensive Customer Service and Support

Supported by a worldwide network of factory-trained Authorized Service Centers, our Technical Service Representatives can provide you with field service, equipment parts and preventive maintenance.

Because emergency power systems are required to operate under the most adverse circumstances, site personnel may be called upon at any time to make decisions regarding the operation of the system, therefore training of these personnel is critical to the future of any installation.

GE Zenith Controls offers a variety of training options including on-site classes for project personnel, factory instruction on your equipment prior to shipment and service schools covering transfer switches and switchgear systems.

## Product Overview

When you purchase emergency power equipment, reliability and quality are a necessity. GE Zenith Controls is committed to providing the highest level of quality demanded by the industry. Our complete product line will allow you to specify a total power management system while maintaining overall compatibility and the most comprehensive warranty in the industry.

## Committed to the Customer

All team members at GE Zenith are aware of the critical situations in which our products are called upon to perform. With that understanding comes an obligation beyond merely fulfilling an order or turning out a product. Serving that obligation is our mission at GE Zenith Controls.

GE Zenith's team works with you from the first phone call through completed start-up. Then, working hand in hand with the consulting engineer, the contractor and the facility owner/operator, we'll ensure that the system fulfills both current and future needs.

"Commitment to our customer" has been GE Zenith's driving force for more than 75 years in the power control industry. This same sense of purpose and responsibility will continue as we address future power control challenges.



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# UL 1008 Withstand & Closing Ratings

When used with Specific Coordinated Breakers!!

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	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		F14C	#N/A	F14B/C	#N/A	#N/A		F14B	#N/A	#N/A	30,000		200						
225	F14	50,000	50,000	no F14		50,000		50,000		no F14		50,000		30,000	50,000	30,000		225						
260		50,000	50,000	no F14		50,000		50,000		no F14		50,000		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		50,000	50,000	no F14		50,000	F14	50,000	50,000	50,000		400								
600	ZTS2	65,000	ZTS2	65,000	ZTS2	65,000	ZTS2	65,000	ZTS2	65,000		F14	50,000	50,000	50,000		600							
800		65,000	65,000	ZTS2		65,000	ZTS2	65,000	ZTS2	65,000	ZTS2		65,000	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	#N/A		1,000					
1,200		85,000	85,000	ZTS		85,000		85,000		85,000		85,000		85,000		85,000			85,000	85,000	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			#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
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	#N/A		#N/A		#N/A		#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)

NOTE: THIS IS A PARTIAL EXCERPT FROM TECHNICAL BULLETIN TB1102. FOR MORE INFORMATION ON SPECIFIC COORDINATED BREAKER USE, PLEASE REQUEST THE COMPLETE DOCUMENT TB-1102



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## GE Zenith Controls

### GE Zenith ZTG Series

#### Automatic Transfer Switch • Limited Warranty

**GE Zenith warrants the ZTG Series Automatic Transfer Switch products against defective workmanship for a period of one year.**

The obligation of GE Zenith under the duration of this warranty is limited to having repaired or replaced, at GE Zenith's factory, free of all charges except transportation costs, such apparatus as shall prove defective during the period aforesaid, because of defective material and workmanship.

GE Zenith makes no other guarantees or warranties, express, statutory or implied, of any kind whatsoever with respect to any apparatus purchased, and any implied warranty of merchantability or fitness for a particular purpose is hereby disclaimed by GE Zenith and excluded from any agreement made by GE Zenith's acceptance and acknowledgment of buyer's purchase order. Written authorization must be obtained from GE Zenith before returning for repair or replacement, any apparatus purchased. GE Zenith products are not for consumer use. GE Zenith expressly disclaims all warranties on any of its apparatus which may be included in any products normally used for personal, family or household purposes.

GE Zenith will assume no responsibility or accept invoices for unauthorized repairs to, or replacement of apparatus purchased, even though such apparatus may be defective. In no case will any responsibility which GE Zenith may have, extend to any apparatus or parts not manufactured by GE Zenith.

GE Zenith will not be responsible for any damage of any kind whatsoever not covered by the foregoing express warranty. Particularly, but without limiting the foregoing, GE Zenith will not be responsible for damage to any apparatus purchased which shall be occasioned whether intentionally or otherwise by improper installation or by attempts to operate such apparatus beyond the capacity thereof, or for any consequential damages howsoever occasioned, whether such damages shall be by way of loss of profits or in any other way related to the purchase, delay in shipment, use inability to use or misuse of said apparatus or otherwise.

This warranty applies only to ZTG series transfer switch products, rated 600 volts or less, sold at the published prices in effect on January 1, 1996 and thereafter and is subject to GE Zenith's service terms and conditions. For a complete outline of customer rights and details regarding policy, procedures, and limitations, please refer to **Limited Warranty and Extended Service Coverage Guide O-5034**.

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