



TE/XGA Series Transient Voltage Surge Suppressor / SPD



Performance Specifications

- Surge Capacity

	L-N	L-G	N-G
160kA /phase	80k	80k	120k Standard
240kA /phase	120k	120k	120k Optional
- UL 1449 Second Edition Listed, UL 1283 Recognized, and CUL
- UL 1449 Listed 200kA SCCR
- 200KAIR Rated Fusing
- Less than ½ Nanosecond Response Time
- 5000 Category C3 (C High) Impulses with <10% Drift

Environmental Specifications

- Relative Humidity Range: 0 - 95% Non-Condensing
- Operating Frequency: 47 - 63 Hz
- Operating Temperature: -40° C to +65° C

Standard Configuration

- External Mount NEMA 1 Standard Enclosure (Other enclosures available)
- Standard Size: 12" x 12" x 6" (Options may increase Enclosure Size)
- Weight: 25 Lbs.

Design Features

- Designed, Manufactured, & Tested consistent with:
 - IEEE C62.41.1-2002, C62.41.2-2002, and C62.45-2002
 - ANSI/IEEE C62.41-1991 and C62.45-1992
 - NEMA LS-1
 - NEC 285.6
- High Energy Parallel Design for Category C3 and C High Applications
- For External Mounting next to Switchgear, Motor Control Centers, or Panelboards
- AC Sinewave Tracking Filter with EMI/RFI Filtering up to -50dB from 100kHz to 100MHz
- Individually Fused Suppression Modes
- Thermal Cutout in each Mode
- Typical connection: #6 AWG and 30 - 60A Breaker
- Busbar Connection
- Solid State Bi-directional
- Redundant LEDs to Indicate Loss of Protection or Circuit Fully Operational
- Audible Alarm with Silence Switch

Quality

- 5 Year Warranty - Includes Unlimited Module Replacement
- Burn-in Tested Prior to Shipment
- Short Circuit Current Rating 200,000 rms Symmetrical Amperes (UL Listed)

Each surge suppression mode is individually fused and utilizes APT's Patented TranSafe™ Circuitry

Suppression elements are encapsulated in APT's UL Listed and Patented Ceramgard®



TE/(x)XGA/(zz)

x = Voltage Code, zz = Options

UL Suppressed Voltage Rating (SVR)

Model	Service Voltage	L-N	L-G	N-G	L-L	MCOV
TE/1XGA	240V/120 Split Phase	330	330	330	600	150
TE/11XGA	120V Single Phase	330	330	330		150
TE/12XGA	240V Single Phase	800	800	800		275
TE/2XGA	208Y/120V Three Phase, WYE	330	330	330	600	150
TE/3XGA	240V/120V Three Phase, High-Leg, DELTA	330/600	330/600	330	800/600	150/275
TE/4XGA	480Y/277V Three Phase, WYE	600	600	600	1200	320
TE5XGA	480V Three Phase, DELTA		1500		1500	575
TE/51XGA	480V Three Phase, Corner Grounded, DELTA		1500		1500	575
TE/6XGA	240V Three Phase, DELTA		800		800	275
TE/61XGA	240V Three Phase, Corner Grounded, DELTA		800		800	275
TE/7XGA	380Y/220V Three Phase, WYE	600	600	600	1200	320
TE/8XGA	600Y/347V Three Phase, WYE	1000	1000	900	1800	420
TE/9XGA	600V Three Phase, DELTA		1500		1800	750
TE/91XGA	600V Three Phase, Corner Grounded, DELTA		1500		1500	750

Ordering information for Optional Features should be appended to the model number and separated by a slash (/). Example: TE/2XGA/240/DS

Available Options:

- /240** Module Option increases the surge current capacity from 160kA/phase to 240kA/phase
- /DS** Integral Disconnect Switch when a spare breaker is not available for connecting the suppressor, order with an internal disconnect (Increases enclosure size to 16" x 14" x 6" [LxWxD])
Other disconnect options available
- /DC** The Dry Contacts monitor each phase providing a summary alarm. The contacts are terminated in a DB-9 connector
- /RM** Remote Monitor with indicator lights and audible alarm is available for use with the Dry Contact Option
- /SC** Surge Counter Option monitors the occurrence of transients entering the facility through the suppressor and is supplied with a long life Super Cap to provide power to the Counter in the event of a power failure
- /2S** Dual LCD Surge Counter, separate counter for L-N and L-G Modes
- /FM** Flush Mount option replaces the standard surface mount enclosure
- /12** NEMA 12 enclosure
- /3R** NEMA 3R enclosure
- /04** NEMA 4 enclosure
- /4X** NEMA 4X Non-Metallic enclosure
- /4S** NEMA 4X Stainless Steel enclosure



TE/XGA Series

Silicon Avalanche Diode Hybrid System Transient Voltage Surge Suppressor / SPD



Performance Specifications

- Surge Capacity

	L-N	L-G	N-G
90kA/phase	50k	40k	120k Optional
130kA/phase	50k	80k	120k Optional
170kA/phase	50k	120k	120k Optional
- UL 1449 Second Edition Listed, UL 1283 Recognized, and CUL
- UL 1449 Listed 200kA SCCR
- 200KAIR Rated Fusing
- Less than 1/2 Nanosecond Response Time
- 5000 Category C3 (C High) Impulses with <10% Drift

Environmental Specifications

- Relative Humidity Range: 0 - 95% Non-Condensing
- Operating Frequency: 47 - 63 Hz
- Operating Temperature: -40° C to +65° C

Standard Configuration

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- Weight: 25 Lbs.

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- For External Mounting next to Switchgear, Motor Control Centers, or Panelboards
- AC Sinewave Tracking Filter with EMI/RFI Filtering up to -50dB from 100kHz to 100MHz
- Individually Fused Suppression Modes
- Thermal Cutout in each Mode
- Typical connection: #6 AWG and 30 - 60A Breaker
- Bussbar Connection
- Solid State Bi-directional
- Redundant LEDs to Indicate Loss of Protection or Circuit Fully Operational
- Audible Alarm with Silence Switch

Quality

- 5 Year Warranty - Includes Unlimited Module Replacement
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TE/2XGA	208Y/120V Three Phase, WYE	330	330	330	600	150
TE/3XGA	240V/120V Three Phase, High-Leg, DELTA	330/600	330/600	330	800/600	150/275
TE/4XGA	480Y/277V Three Phase, WYE	600	600	600	1200	320
TE/7XGA	380Y/220V Three Phase, WYE	600	600	600	1200	320

NOTE: TE/(x)XGA(/170, /130, or /090) Option = The 170/130/090 determines the unit is Hybrid with the SAD primary and the MOV secondary protection, standard options follow the kA option.

Ordering information for Optional Features should be appended to the model number and separated by a slash(/). Example: TE/2XGA/170/SC/3R = 120/208, 170kA, SAD, with Surge Counter and 3R Enclosure
TE/4XGA/090/DC = 277/480, 90kA, SAD, with Dry Contact

Available Options:

- /090** Module Option
- /130** Module Option
- /170** Module Option
- /DS** Integral Disconnect Switch when a spare breaker is not available for connecting the suppressor, order with an internal disconnect (Increases enclosure size to 16" x 14" x 6" [LxWxD])
Other disconnect options available
- /DC** The Dry Contacts monitor each phase providing a summary alarm. The contacts are terminated in a DB-9 connector
- /RM** Remote Monitor with indicator lights and audible alarm is available for use with the Dry Contact Option
- /SC** Surge Counter Option monitors the occurrence of transients entering the facility through the suppressor and is supplied with a long life Super Cap to provide power to the Counter in the event of a power failure
- /2S** Dual LCD Surge Counter, separate counter for L-N and L-G Modes
- /FM** Flush Mount option replaces the standard surface mount enclosure
- /12** NEMA 12 enclosure
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- /04** NEMA 4 enclosure
- /4X** NEMA 4X Non-Metallic enclosure
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