TE/XGA Series

Transient Voltage Surge Suppressor/SPD

Performance Specifications

- Surge Capacity (L-N, N-G, L-G)
  160kA/phase
  240kA/phase
- **UL 1449 Third Edition Testing Completed**
- **UL 1449 Second Edition Revision Listed (UL 1449 Rev '2.5' Listed)**
- UL 1283 Fourth Edition Listed
- UL Listed to Canadian safety standards
- 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 (-40° F) to +65° C (+149° F)

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
- Large Block Utility Grade 40mm MOVs
- High Energy Parallel Design for Category C3 applications, the highest exposure to surge activity
- 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
- Solid State Bi-directional
- Redundant LEDs to Indicate Loss of Protection or Circuit Fully Operational
- Audible Alarm with Silence Switch

Quality

- 10 Year Warranty
- Burn-in Tested Prior to Shipment
- Short Circuit Current Rating 200,000 rms Symmetrical Amperes (UL Listed)
- ISO 9001:2000 Quality Management System

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

Suppression elements are encapsulated in UL Listed and Patented Ceramgard®

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NEMA Member

CE

TE/(x)XGA/(zz)/M

x = Voltage Code, zz = Options

Model	Service Voltage	*UL 1449 Suppressed Voltage Rating (SVR)* 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
TE/5XGA	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/M**

Available Options:

/240 Module Option increases the surge current capacity from 160kA/phase to 240kA/phase
/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 - diagnostic display inside enclosure
/04 NEMA 4 enclosure - diagnostic display inside enclosure
/4X NEMA 4X Non-Metallic enclosure - diagnostic display inside enclosure - visible through door
/4S NEMA 4X Stainless Steel enclosure - diagnostic display inside enclosure

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