



TE/HP Series Transient Voltage Surge Suppressor/SPD



Meets Feb 2007 UL changes:
UL 1449 Second Edition Revision
(UL 1449 Rev '2.5')

Performance Specifications

- Surge Capacity L-N N-G
120kA/phase 120k 120k Standard
160kA/phase 160k 160k Optional
- **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 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 Modules
- Thermal Cutout in each Module
- 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 - Unlimited Module Replacement
- Burn-in Tested Prior to Shipment
- Short Circuit Current Rating 200,000 rms Symmetrical Amperes (UL Listed)
- APT's Quality Management System is ISO 9001:2000 Certified

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



TE/(x)HP/(zz)

x = Voltage Code, zz = Options

Model	Service Voltage	UL 1449 Suppressed Voltage Rating (SVR)				MCOV
		L-N	L-G	N-G	L-L	
TE/1HP	240V/120 Split Phase	330		330	700	150
TE/11HP	120V Single Phase	330		330		150
TE/12HP	240V Single Phase	600		600		275
TE/2HP	208Y/120V Three Phase, WYE	330		330	700	150
TE/3HP	240V/120V Three Phase, High-Leg, DELTA	330/700		330	700/1200	150/275
TE/4HP	480Y/277V Three Phase, WYE	700		600	1200	320
TE/5HP	480V Three Phase, DELTA		1500		1500	575
TE/51HP	480V Three Phase, Corner Grounded, DELTA		1500		1500	575
TE/6HP	240V Three Phase, DELTA		700		700	275
TE/61HP	240V Three Phase, Corner Grounded, DELTA		700		700	275
TE/7HP	380Y/220V Three Phase, WYE	700		600	1200	320
TE/8HP	600Y/347V Three Phase, WYE	1000		900	1800	420
TE/9HP	600V Three Phase, DELTA		1500		1800	750
TE/91HP	600V Three Phase, Corner Grounded, DELTA		1500		1800	750

Note: /CL Option Not Available on TE/8, 9, 91

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

Available Options:

- /CL** Module Option increases the surge current capacity from 120kA/phase to 160kA/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 Terminal Strip
- /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 (Increases enclosure size as indicated in /DS Option above)
- /FM** Flush Mount Option replaces the standard surface mount 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