

## SYSTEM FEATURES



- Provides surge protection against harmful transient voltages that exceed the nominal operating voltage of AC and DC critical dedicated control loads
- Ideal for protecting the PLC's, Building management systems, OEM & systems integration controls and other microprocessor-based loads
- Compact, fail-safe design allows flexible installation into electrical/control panels
- Dual Component-Level Fusing (CLF) standard
- Enhanced Transient Filter (ETF) standard
- 15-year Unlimited Free Replacement Warranty
- Reduce lockups, glitches and reprogramming issues

## PRODUCT SPECIFICATIONS

### GENERAL SPECIFICATIONS

**Maximum Rated Surge Current:** 40kA per phase  
**Application:** ANSI.IEEE C62.41 Location C, B & A  
**Design:** Ultra compact, fail-safe design with dual component-level fusing  
**Warranty:** 15-Year Unlimited Free Replacement  
**Safety Listing:** ETL recognized component under UL 1449 3rd Edition as a type 4 SPD, cETL, and under UL 1283 as an electromagnetic filter.

### ELECTRICAL SPECIFICATIONS

**Input Power Frequency:** 47-64Hz  
**Maximum Continuous Operating Current:** 15 amps  
**Modes of Discrete Suppression Circuitry:**  
 All modes L-N, L-G & N-G  
**Response Time:** < 1 nanosecond  
**Standard Monitoring:** Status indicating light  
**Short Circuit Current Rating:** 100kAIC short circuit current rating with a 15 amp max Class T fuse

### MECHANICAL SPECIFICATIONS

**Dimensions:** 3.94"H x 2.80"W x 2.28"D  
**Enclosure:** ABS Plastic UL94-5VA  
**Connection Method:** Hard-wired via box terminals #22AWG - #14 AWG  
**Mounting Method:** Screw down or Din-Rail mounted.  
**Operating Temperature:** -40° C to 70° C (-40° F to 160° F)  
**Weight:** 1.00 lbs. (0.45 kg)

### LTE PERFORMANCE SPECIFICATIONS

ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002 Measured Limited Voltage

Model Number <i>(Working Voltage)</i>	Mode	B3/C1		
		A1 Ring Wave 2kV, 67A 180° Phase Angle	A3 Ring Wave 6kV, 200A 180° Phase Angle	Impulse Wave 6kV, 3kA 90° Phase Angle
TK-LTE24-15A-DIN2 <i>(5-30 VAC)</i> <i>(5-38 VDC)</i>	L-N	28V	92V	148V
	L-G	28V	92V	188V
	N-G	28V	84V	160V
TK-LTE48-15A-DIN2 <i>(25-50 VAC)</i> <i>(24-65 VDC)</i>	L-N	28V	96V	164V
	L-G	28V	96V	188V
	N-G	28V	92V	164V
TK-LTE120-15A-DIN2 <i>(48-150 VAC)</i> <i>(48-200 VDC)</i>	L-N	28V	108V	444V
	L-G	28V	104V	440V
	N-G	24V	100V	456V
TK-LTE250-15A-DIN2 <i>(120-260 VAC)</i> <i>(120-300 VDC)</i>	L-N	28V	96V	744V
	L-G	32V	96V	828V
	N-G	28V	100V	772V

All voltages are peak values (+10%) from the zero reference point at the phase angles referenced above using a 10 µs/div display rate and 500MS/s sampling rate. Specifications subject to change without notice, see web site [www.tpssurge.com](http://www.tpssurge.com) for latest revisions.

### EMI/RFI FILTER ATTENUATION—MIL STANDARD 220B

Frequency	Attenuation
1kHz	2dB
10kHz	13dB
100kHz	31dB
1MHz	32dB
10MHz	20dB
20MHz	15dB
Max. attenuation	33dB @ 500kHz

All measurements in inches [mm]

