

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: 30 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 30 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 (Working Voltage)	Mode	A1 Ring Wave	A3 Ring Wave	B3/C1
		2kV, 67A 180° Phase Angle	6kV, 200A 180° Phase Angle	Impulse Wave 6kV, 3kA 90° Phase Angle
TK-LTE120-30A-DIN2 (48-150 VAC) (48-200 VDC)	L-N	36V	81V	428V
	L-G	37V	80V	449V
	N-G	36V	81V	460V
TK-LTE250-30A-DIN2 (120-275 VAC) (120-300 VDC)	L-N	36V	81V	840V
	L-G	38V	80V	869V
	N-G	39V	80V	880V

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.tpsurge.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]

