

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 #16AWG - #8 AWG
Mounting Method: Screw down or Din-Rail mounted.
Operating Temperature: -40° C to 85° C (-40° F to 185° 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	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 <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-LTE250-30A-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 for latest revisions.

EMI/RFI FILTER ATTENUATION—MIL STANDARD

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

All measurements in inches [mm]

