

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 PLCs, 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
- Recognized under UL 1449 2nd Edition as TVSS, UL 1283 as Electromagnetic Filter and cUL
- 15-Year Unlimited Free Replacement Warranty

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 30kA 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: Recognized under UL 1449 2nd Edition TVSS, cUL, UL 1283 Filter

ELECTRICAL SPECIFICATIONS

Modes of Protection: All modes. L-N, L-G, & N-G
Input Power Frequency: 47-64 Hz
Maximum Continuous Operating Current: 15 amps
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: 3.50"H x 0.89"W x 3.99"D
Enclosure: ABS Plastic UL94-5VA
Connection: Hard-wired via box terminals 22 AWG – 12 AWG conductor
Mounting: Din-Rail
Operating Environment: -40° C to 70° C (-40° F to 160° F); 5% to 95% non-condensing humidity
Weight: 1 lbs (0.45 kg)

AVAILABLE CONFIGURATIONS

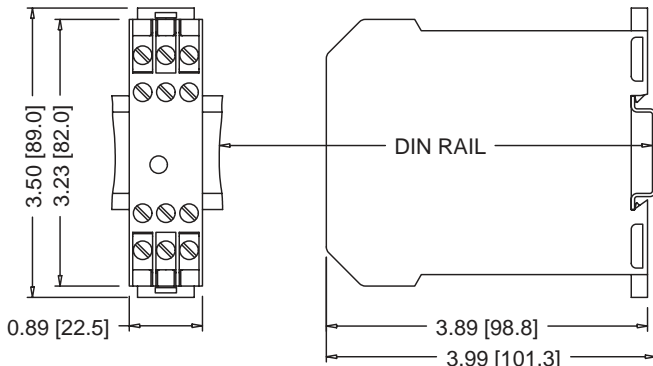
Model Number	Voltage	Configuration
TK-LT24-15A-DIN	24V AC or DC	1ø 2-wire + grd
TK-LT48-15A-DIN	48V AC or DC	1ø 2-wire + grd
TK-LT120-15A-DIN	120V AC or DC	1ø 2-wire + grd
TK-LT250-15A-DIN	250V AC or DC	1ø 2-wire + grd

EMI / RFI FILTER ATTENUATION – MIL STANDARD 220B

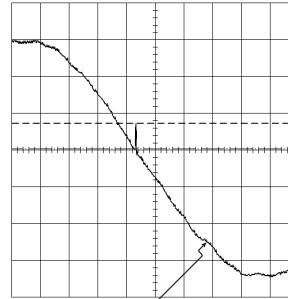
Frequency	Attenuation
1kHz	1 dB
10kHz	5 dB
100kHz	29 dB
1MHz	32 dB
10MHz	8 dB
20MHz	9 dB
Max. attenuation	34 dB @ 495kHz



LoadTrack LT-DIN



All measurements in inches [mm]



AC Sine Wave

- Peak Let-Through Voltage Level - 44V
- Reference Level Zero Crossing of AC Sine Wave

For 120V Configuration

ANSI/IEEE C62.41.1
Category A1 Ring Wave
2000V, 67A Test Plot

L-N Mode, Dynamic,
180° Phase Angle,
Positive Polarity
1 msec/div Horizontal
500 Mega samples/sec
55V/div Vertical

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

Measured Limited Voltage

UL SVR

Model Number	System Voltage	System Configuration	Protection Mode	AC MCOV	Measured Limited Voltage			UL 1449 2nd Edition Suppressed Voltage Ratings
					All Models A1 Ring Wave 2kV, 67A 180° Phase Angle	All Models A3 Ring Wave 6kV, 200A 180° Phase Angle	All Models B3/C1 Impulse Wave 6kV, 3kA 90° Phase Angle	
TK-LT24-15A-DIN	5-30 VAC	1-Phase	L-N	30V	44V	83V	152V	N/A
	5-38 VDC	2-wire+grnd	L-G	30V	75V	91V	173V	N/A
			N-G	30V	50V	85V	173V	N/A
TK-LT48-15A-DIN	24-50 VAC	1-Phase	L-N	50V	44V	115V	197V	N/A
	24-65 VDC	2-wire+grnd	L-G	50V	97V	145V	225V	N/A
			N-G	50V	49V	117V	193V	N/A
TK-LT120-15A-DIN	48-150 VAC	1-Phase	L-N	150V	47V	127V	438V	400V
	48-200 VDC	2-wire+grnd	L-G	150V	92V	239V	496V	400V
			N-G	150V	47V	128V	470V	400V
TK-LT250-15A-DIN	120-275 VAC	1-Phase	L-N	275V	49V	130V	851V	800V
	120-300 VDC	2-wire+grnd	L-G	275V	90V	234V	955V	800V
			N-G	275V	48V	130V	960V	800V

All voltages are peak values ($\pm 10\%$) measured from the zero reference point at the phase angles referenced above using a 10 $\mu\text{s}/\text{div}$ display rate and 500 MS/s sampling rate. Specifications subject to change without notice, see web site, www.TPSSurge.com for latest revisions.