

LoadTrack LT-20A

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: 20kA 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 4th Edition as a type 4 SPD, cETL, and under UL1283 as an electromagnetic filter.

ELECTRICAL SPECIFICATIONS

Input Power Frequency: 47-64Hz

Maximum Continuous Operating Current: 20 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 20 amp max Class T fuse, and 5kAIC with a 20 amp breaker.

MECHANICAL SPECIFICATIONS

Dimensions: 3.94"L x 1.40"W x 2.28"H Enclosure: Polycarbonate Rated V0

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)

Options:

Dry Relay Contacts: add suffix "-R". Form C (N/O, N/C) relay contacts rated at 1 amp at 120VAC



LT PERFORMANCE SPECIFICATIONS

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

				B3/C1
		A1 Ring Wave	A3 Ring Wave	Impulse Wave
Model Number	Mode	2kV, 67A	6kV, 200A	6kV, 3kA
(Working Voltage)		180° Phase Angle	180° Phase Angle	90° Phase Angle
TK-LT24-20A-DIN2	L-N	44V	83V	152V
(5-30 VAC)	L-G	75V	91V	173V
(5-38 VDC)	N-G	50V	85V	173V
TK-LT48-20A-DIN2	L-N	44V	115V	197V
(25-50 VAC)	L-G	97V	145V	225V
(24-65 VDC)	N-G	49V	117V	193V
TK-LT120-20A-DIN2	L-N	47V	127V	438V
(48-150 VAC)	L-G	92V	239V	496V
(48-200 VDC)	N-G	47V	128V	470V
TK-LT250-20A-DIN2	L-N	49V	130V	851V
(120-275 VAC)	L-G	90V	234V	955V
(120-300 VDC)	N-G	48V	130V	960V

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	1dB
10kHz	5dB
100kHz	29dB
1MHz	32dB
10MHz	8dB
20MHz	9dB

All measurements in inches [mm]

