

LoadTrack LTL 30Amp

SYSTEM FEATURES



- Provides surge protection against harmful transient voltages that exceed the nominal operating voltage of AC 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
- Improved filter performance with a series inductor
- 15-year Unlimited Free Replacement Warranty
- Reduce lockups, glitches and reprogramming issues

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 100kA per phase; 50kA per mode

Application: ANSI.IEEE C62.41 Location C, B & A

Design: Ultra compact, fail-safe design

Warranty: 15-Year Unlimited Free Replacement Safety Listing: Recognized under UL 1449 4th Edition as a type 4 SPD for Type 2 locations, and under UL 1283 as an electromagnetic filter. Unit contains no serviceable parts.

ELECTRICAL SPECIFICATIONS

Input Power Frequency: 47-64Hz

Maximum Continuous Operating Current: 30 amps

Series Inductor: Enhances EMI/RFI filter attenuation

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: 65kAIC short circuit current rating with a 30 amp max breaker

MECHANICAL SPECIFICATIONS

Enclosure: High-impact robust non-metallic

Connection Method: Hard-wired via box terminals #22AWG - #8 AWG

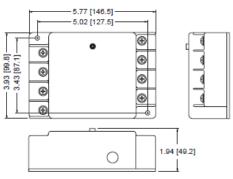
Mounting Method: Multi-point mounting feet.

Operating Temperature: -40° C to 60° C (-40° F to 140° F)

Weight: 2.3 lbs. (1.04 kg)

Dimensions: 3.93"H x 5.77"W x 1.94"D

All measurements in inches [mm]



LTL PERFORMANCE SPECIFICATIONS

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

		A1 Ring Wave	A3 Ring Wave	B3/C1 Impulse Wave
(Working Voltage)		180° Phase Angle	180° Phase Angle	90° Phase Angle
TK-LTL120P-30A <i>L-N MCOV: 150V</i> <i>120V 1-Phase, 2W+G</i>	L-N	35V	93V	396V
	L-G	357V	317V	376V
	N-G	277V	331V	360V
TK-LTL220P-30A <i>L-N MCOV: 300V</i> <i>240V 1-Phase, 2W+G</i>	L-N	41V	110V	750V
	L-G	515V	563V	662V
	N-G	505V	576V	662V
TK-LTL277P-30A <i>L-N MCOV: 320V</i> 277V 1-Phase, 2W+G	L-N	40V	121V	883V
	L-G	494V	744V	798V
	N-G	584V	752V	775V
TK-LTL120S-30A <i>L-N MCOV: 150V</i> <i>120/240V 2-Phase, 3W+G</i>	L-N	36V	91V	401V
	L-G	339V	394V	787V
	N-G	82V	188V	850V
	L-L	320V	349V	394V
TK-LTL220S-30A L-N MCOV: 300V 220/380V 2-Phase, 3W+G	L-N	40V	130V	739V
	L-G	470V	677V	1430V
	N-G	98V	210V	1468V
	L-L	397V	626V	710V
	L-N	43V	127V	865V
TK-LTL277S-30A	L-G	648V	760V	1680V
L-N MCOV: 320V 277480V 2-Phase, 3W+G	N-G	78V	231V	1720V
	L-L	696V	696V	810V

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	4dB
10kHz	11dB
100kHz	31dB
1MHz	32dB
10MHz	20dB
20MHz	15dB
Max. attenuation	54dB @ 1MHz



Made in U.S.A. LTL-V2-1/3/16 © 2016, Total Protection Solutions, LLC. For Technical Support

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