

Individual Circuit Power Filter & Surge Suppressor

LT

TPD Power Filter absorbs, dissipates and removes harmful transient voltages traveling on AC & DC power circuits reducing lockups, glitches and reprogramming issues.

Improve power quality for your sophisticated electronic loads. **Rebooting, reprogramming and replacing processors, circuit boards and components** can be a never-ending battle. **Occasional glitches** in the system are as simple as equipment locking up or turning on and off without user input to **wide spread damage during a severe lightning storm**. Microprocessors read information through current pulses as binary code (0s and 1s). As different pieces of equipment, appliances and components turned on and off, voltage and current pulses, known as transients, are generated. These pulses of energy are distributed throughout every piece of equipment in the system. Depending upon the size and frequency of these pulses, the problems will vary. As microprocessors try to function, these transient pulses of energy will cause lock-ups where data can become lost or corrupted. **Larger pulses will cause catastrophic failure while smaller pulses degrade the life and reliability of these systems and controls.**

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 3rd Edition as a type 4 SPD, cETL, and under UL 1283 as an electromagnetic filter.
- Input Power Frequency: 47-64Hz
- Maximum Continuous Operating Current: 15 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 15 amp max Class T fuse
- Dimensions: 3.94"H x 1.40"W x 2.28"D
- Enclosure: ABS Plastic UL94-5VA
- Connection Method: Hard-wired via box terminals #28AWG - #12 AWG for 15A; #28AWG - #12 AWG for 20A & 30A;
- 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)
- Dry Relay Contacts: add suffix "-RC". Form C (N/O, N/C) relay contacts rated at 1 amp at 120VAC

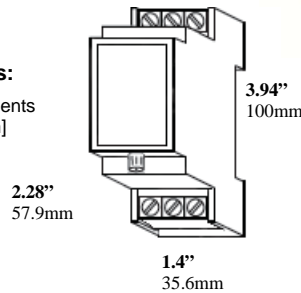
EMI/RFI FILTER ATTENUATION

MIL STANDARD 220B

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

Dimensions:

All measurements in inches [mm]



- AV Racks
- Network Racks
- Automation
- Lighting Systems
- Landscape Lighting
- LED's
- Gates
- Pumps
- HVAC
- Air Handlers
- PLC Controls

LT SERIES

TK - LT xxx - yyA - DIN2

Fill in "xxx" with 24, 48, 120 or 250 Volt Option

Fill in "yy" with 15, 20 or 30 Amp Option

Model # Examples:

- TK-LT120-15A-DIN2
- TK-LT120-20A-DIN2
- TK-LT120-30A-DIN2

LT FILTER & SURGE 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-LT24-yyA-DIN2 (5-30 VAC) (5-38 VDC)	L-N	44V	83V	152V
	L-G	75V	91V	173V
	N-G	50V	85V	173V
TK-LT48-yyA-DIN2 (25-50 VAC) (24-65 VDC)	L-N	44V	115V	197V
	L-G	97V	145V	225V
	N-G	49V	117V	193V
TK-LT120-yyA-DIN2 (48-150 VAC) (48-200 VDC)	L-N	47V	127V	438V
	L-G	92V	239V	496V
	N-G	47V	128V	470V
TK-LT250-yyA-DIN2 (120-260 VAC) (120-300 VDC)	L-N	49V	130V	851V
	L-G	90V	234V	955V
	N-G	48V	130V	960V

Specifications subject to change without notice, see web site www.totalprotectiondesign.com or latest revisions.

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.totalprotectiondesign.com for latest revisions.

Need additional assistance?
Call Technical Support
1-800-604-9980
www.totalprotectiondesign.com

Tech Note: For proper grounding and installation techniques please refer to installation manual.

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