

SYSTEM FEATURES



- Provides surge protection against harmful transients traveling on data and communications lines.
- Compact footprint allows for installation flexibility
- 10-Year Unlimited Free Replacement Warranty
- Two, Four, Six, Eight and Ten wire units.
- 10V, 15V, 24V, 48V, & 120V configurations.
- Install on data and signal lines carrying <400mA current with a max data rate of 10Mbps. For power applications over 400mA use LT series.

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 18kA per pair **Applications:** RS232, RS422/423/485 data, 4-20 mA

current loop circuits and signal lines **Design:** Multistage hybrid fail-safe design

Warranty: 10-Year Unlimited Free Replacement

Safety Listing: ETL listed to UL497B

ELECTRICAL SPECIFICATIONS

Strength: 18kA per pair; 9kA per wire

Maximum Operating Frequency: 50MHz

Maximum Continuous Amperage: 400mA

Mode of Protection: Line-line and line-ground.

Options: RJ-45 connectors—add suffix "RJ"

(available for units with 8 wires only) **Response Time:** < 1 nanosecond

Number of Protected Circuit: 1-5 pair (2-10 wire)

Series Resistance: 2.4 ohm per wire

Model Number	Protection Mode	MCOV (peak)	Max Data Rate	Let-Through Volt IEC 10 x 700 µs Impulse 2kV / 80A	Let-Through Volt ANSI/IEEE C3 Impulse 20kV / 10kA
TK-CT2-120SLPx	L-L	130V	10Mbps	180V	160V
	L-G	130V		180V	160V
TK-CT2-48SLPx	L-L	56V	10Mbps	65V	62V
	L-G	56V		65V	62V
TK-CT2-24SLPx	L-L	35V	10Mbps	38V	41V
	L-G	35V		38V	41V
TK-CT2-15SLPx	L-L	15V	10Mbps	41V	39V
	L-G	15V		41V	39V
TK-CT2-10SLPx	L-L	10V	10Mbps	24V	22V
	L-G	10V	-	24V	22V

All voltages are peak values (+10%). Test environment: static, positive polarity, time base = 1 ms $^{\circ}$

x = 2 for 2 wire, 4 for 4 wire, 6 for 6 wire, 8 for 8 wire and 10 for 10 wire.

SLP Performance Specifications

Specifications subject to change without notice, see web site www.tpssurge.com for latest revisions.

MECHANICAL SPECIFICATIONS

Dimensions (approx): Two enclosure sizes depending on the number of circuits

Case A (1-2 pair): 2.885"H x 2.130"W x 1.130"D **Case B (3-5 pair):** 4.375"H x 2.885"W x 1.230"D

Enclosure Type: High-impact, non-metallic UL 94-5V flame resistant rated

Connection Method: Screw terminal connector; #12-30

Mounting Method: All units come standard with a universal mounting bracket that allows the units to be screw or Din-Rail mounted (horizontally or vertically).

Operating Temperature: -40° C to 85° C (-40° F to 185° F)

Weight: 0.50 lbs.—0.75 lbs. (0.23 kg—0.34 kg) depending on number of circuits.





SLP AVAILABLE CONFIGURATIONS

Model Number	Number of Wires	Applications	
TK-CT2-120SLP2	2		
TK-CT2-120SLP4	4		
TK-CT2-120SLP6	6	120V Control/Signal Circuit	
TK-CT2-120SLP8 ¹	8		
TK-CT2-120SLP10	10		
TK-CT2-48SLP2	2		
TK-CT2-48SLP4	4		
TK-CT2-48SLP6	6	48V 4-20mA Current Loop	
TK-CT2-48SLP8 ¹	8		
TK-CT2-48SLP10	10		
TK-CT2-24SLP2	2		
TK-CT2-24SLP4	4		
TK-CT2-24SLP6	6	RS232 and 24V 4-20mA Current	
TK-CT2-24SLP8 ¹	8	Loop	
TK-CT2-24SLP10	10		
TK-CT2-15SLP2	2		
TK-CT2-15SLP4	4		
TK-CT2-15SLP6	6	Circuit rated at 15V or below,	
TK-CT2-15SLP8 ¹	8	such as RS485 Data	
TK-CT2-15SLP10	10		
TK-CT2-10SLP2	2		
TK-CT2-10SLP4	4		
TK-CT2-10SLP6	6	Circuit rated at 10V or below,	
TK-CT2-10SLP8 ¹	8	such as RS422, RS423	
TK-CT2-10SLP10	10		

¹RJ-45 option available for 8 wire units - add "RJ" suffix

For Technical Support:

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