

SYSTEM FEATURES



- Provides surge protection against harmful transient voltages that exceed the nominal operating voltage of telephone line applications
- Fail-safe design
- Each line is protected against surge current impulse up to 2kA/pair
- UL Listed 497A as Secondary Telephone Protector
- Compact footprint and universal mounting bracket allows installation flexibility
- 10-Year Unlimited Free Replacement Warranty

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 2kA per pair

Applications: All major telephone line protocols including dial-up (POTS), ADSL, CDSL, HDSL, ISDN, T1/E1, DDS, leased, and dedicated lines

Design: Multistage hybrid fail-safe design

Warranty: 10-Year Unlimited Free Replacement

Safety Listing: UL Listed 497A Secondary Telephone Protector

ELECTRICAL SPECIFICATIONS

Strength: 2kA/pair

Mode of Protection: All modes: tip-ring, tip-ground, and ring-ground

Response Time: < 1 nsec

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

Series Resistance: < 1 ohm

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 (1-5 pair): #12-22 AWG

Modular Jacks: RJ45 accepts RJ11 (1 pair), RJ14 & RJ45 (2 pair)

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. (0.23kg - 0.34 kg) depending on number of circuits

TLP PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode	MCOV (peak)	Maximum Operating Frequency	Max Data Rate	Let-Through Volt IEC 10 x 700 μ s Impulse 2kV / 80A
TK-CT-240TLPx	L-L L-G	240V 240V	10MHz	2Mbps	260V 260V
TK-CT-190TLPx	L-L L-G	190V 190V	80MHz	16Mbps	240V 240V
TK-CT-160TLPx	L-L L-G	160V 160V	10MHz	2Mbps	230V 230V

All voltages are peak values (+10%).

Test environment: static, positive polarity, time base = 1 ms x = 1 for 1 pair, 2 for 2 pair, 3 for 3 pair, 4 for 4 pair, and 5 for 5 pair
Specifications subject to change without notice, see web site, www.TPSSurge.com for latest revisions.

TLP AVAILABLE CONFIGURATIONS

UNITS WITH TERMINAL BLOCKS

Model Number	No of Pair	Applications
TK-CT-240TLP1-TB	1	240V Dial-Up (POTS)
TK-CT-240TLP2-TB	2	
TK-CT-240TLP3-TB	3	
TK-CT-240TLP4-TB	4	
TK-CT-240TLP5-TB	5	
TK-CT-190TLP1-TB	1	190V T1/E1, ADSL, CDSL, HDSL, ISDN
TK-CT-190TLP2-TB	2	
TK-CT-190TLP3-TB	3	
TK-CT-190TLP4-TB	4	
TK-CT-190TLP5-TB	5	
TK-CT-160TLP1-TB	1	160V DDS, Leased & Dedicated Lines
TK-CT-160TLP2-TB	2	
TK-CT-160TLP3-TB	3	
TK-CT-160TLP4-TB	4	
TK-CT-160TLP5-TB	5	

UNITS WITH RJ CONNECTORS

Model Number	No of Pair	Applications
TK-CT-240TLP2-RJ-POTS	2	240V Dial-Up (POTS)
TK-CT-190TLP1-RJ-ADSL	1	190V ADSL
TK-CT-190TLP4-RJ-T1/E1	4	190V T1/E1

