

## SYSTEM FEATURES



- Provides surge protection against harmful transients traveling on telephone lines.
- Compact footprint allows for installation flexibility
- 10-Year Unlimited Free Replacement Warranty
- Twelve and Twenty Five pair units.
- Modular fail-safe design.
- Install on data lines with a max data rate of 16Mbps.
- UL Listed 497A as Secondary Telephone Protector

## PRODUCT SPECIFICATIONS

### GENERAL SPECIFICATIONS

**Maximum Rated Surge Current:** 2kA per pair

**Applications:** All major telephone line protocols including dial-up (POTS), ADSL, HSDL, ISDN, T1/E1, DDS, leased, and dedicated lines. 12 or 25 Pair Punch Down Block for phone lines transmitting up to 16Mbps.

**Design:** Multistage hybrid fail-safe design

**Warranty:** 10-Year Unlimited Free Replacement

**Safety Listing:** UL Listed 497A as Secondary Telephone Protector

### ELECTRICAL SPECIFICATIONS

**Strength:** 2kA per pair

**Maximum Data Rate:** 16Mbps

**Mode of Protection:** All modes: tip-ring, tip-ground, & ring-ground

**Response Time:** < 1 nanosecond

**Number of Protected Circuit:** 12 pair (24 wire) or 25 pair (50 wire)

**Series Resistance:** <1 ohm

### MECHANICAL SPECIFICATIONS

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

**Case A (12 pair):** 6"H x 3"W x 3"D

**Case B (25 pair):** 13"H x 3"W x 3"D

**Enclosure Type:** 66 Punch Down Block, metal bottom & ABS upper

**Connection Method:** Standard Punch Down; #12-22 AWG

**Mounting Method:** Mounting bracket

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

**Weight:** Case A 1.50 lbs. (0.79kg) - 12 pair units  
Case B 3.16 lbs. (1.43kg) - 25 pair units

### MDP PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode	MCOV (peak)	Pairs (Wires)	Let-Through Volt IEC 10 x 700 $\mu$ s Impulse 2kV / 80A
TK-CT2-190MDP12	L-L	190V	12 Pair	240V
	L-G	190V	(24 Wire)	240V
TK-CT2-190MDP25	L-L	190V	25 Pair	240V
	L-G	190V	(50 Wire)	240V

All voltages are peak values (+10%).

Test environment: static, positive polarity, time base = 1 ms

Specifications subject to change without notice, see web site [www.tpssurge.com](http://www.tpssurge.com) for latest revisions.

