

SYSTEM FEATURES



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

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 2kA/pair

Applications:

- Dial-up – 10, 12, 23, or 25 pairs
- T1/E1, HDSL, CDSL, & ISDN – 2 (last 4 wire position), 12, or 25 pairs
- DDS, leased, and dedicated lines – 2 pairs (last 4 wire position)

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/pair

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

Response Time: < 1 nsec

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: 1.75 lbs. (0.79 kg) – 12 pair units
3.16 lbs. (1.43 kg) – 25 pair units

MDP PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode	MCOV (peak)	Maximum Operating Frequency	Max Data Rate	Let-Through Volt IEC 10 x 700 µs Impulse 2kV / 80A
TK-CT-190MDPxx	L-L	190V	80MHz	16Mbps	240V
	L-G	190V			240V
TK-CT-240MDPxx	L-L	240V	10MHz	2Mbps	260V
	L-G	240V			260V
TK-CT-240MDPyy/2A	L-L	240V/190V ¹	10MHz	2Mbps	260V/240V ¹
	L-G	240V/190V ¹			16Mbps ¹
TK-CT-240MDPyy/2B	L-L	240V/160V ¹	10MHz	2Mbps	260V/230V ¹
	L-G	240V/160V ¹			10MHz

All voltages are peak values (+10%).

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

xx = 12 for 12 pair and 25 for 25 pair. yy = 10 for 10 pair and 23 for 23 pair.

¹ values for last two pair

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

MDP AVAILABLE CONFIGURATIONS

Model Number	No of Pair	Applications
TK-CT-190MDP12	12	190V T1/E1 (12 pair)
TK-CT-240MDP12	12	240V Dial-Up (12 pair)
TK-CT-240MDP10/2A	12	240V Dial-Up (first 10 pair) & 190V T1/E1 (last 2 pair)
TK-CT-240MDP10/2B	12	240V Dial-Up (first 10 pair) & 160V DDS (last 2 pair)
TK-CT-190MDP25	25	190V T1/E1 (25 pair)
TK-CT-240MDP25	25	240V Dial-Up (25 pair)
TK-CT-240MDP23/2A	25	240V Dial-Up (first 23 pair) & 190V T1/E1 (last 2 pair)
TK-CT-240MDP23/2B	25	240V Dial-Up (first 23 pair) & 160V DDS (last 2 pair)

FREE REPLACEMENT

