

# 51200 Transmitter Protection Assembly



The 51200 Transmitter Protection Assembly (TPA) is installed at a building location where cable management systems are installed. The 51200 is used at the cable of origin in the cable vault or at the building entry point to safely originate a fiber optic cable armor. The assembly is pre-wired in an enclosure to allow for easy installation at the building entry location. The assembly provides maximum protection against 60 Hz induced power line currents and high voltage transient surges on cable armors.

## Features

- Available in single or dual line units
- Pre-wired to simplify office installation
- Rated at .5 amp continuous AC current
- Fiberglass polyester enclosure which meets NEMA and CSA standards for electrical enclosures
- Provides low impedance ground path for high transient voltages
- Provides low impedance ground path for 60 Hz induced voltages
- Hybrid surge suppression circuitry
- Failsafe circuitry design



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# Specifications

| ITEM  | QUANTITY/SPECIFICATION  | NOTES                         |
|---|---|-------------------------------|
| <b>Inputs</b>   |   |                               |
| Capacitance   | < 30 pF   | Line to ground                |
| <b>Protection</b>   |   |                               |
| DC Breakdown Voltage  | 265 – 600 VDC   |                               |
| Impulse Breakdown   | 500V (Typical) at 100 V/μsec<br>750V (Max)                        |                               |
| Impulse Current Rating  | 40,000 A  | 8x20 μs impulse, single cycle |
| AC Current Rating (Momentary)                                       | 10 A  | 60Hz AC, 1s application       |
| AC Voltage Rating (Continuous)                                      | 175 VAC   | 60Hz AC continuous            |
| <b>Induced Voltage Filtering</b>                                    |   |                               |
| Voltage Reduction Ration (typical)<br>(Zsource = 200Ω, IF = 500 ma) | 7:1   | VI / Vf                       |
| Maximum Voltage (Continuous)  | 20 V  | AC RMS                        |
| (5 min.)  | 250 V   | AC RMS                        |
| Clamping Voltage (typical)  | 15 V  | AC RMS                        |
| Impedance (nominal)   | 30 Ω @ 60 Hz<br>(I = 500 ma)<br>1200 Ω @ 30 Hz<br>7000 Ω @ 512 Hz |                               |
| <b>Physical</b>   |   |                               |
| Dimensions  | 14" x 12" x 7"<br>(35.6 cm x 30.5 cm x 17.8 cm)                   |                               |
| Weight  | 14.5 lbs<br>(6.6 kg)  |                               |
| <b>Model Number(s)</b>  | 51200 TPA   |                               |

AVAILABLE IN SINGLE OR DUAL LINE UNITS

PRE-WIRED TO SIMPLIFY OFFICE INSTALLATION

RATED AT .5 AMP CONTINUOUS AC CURRENT

FIBERGLASS POLYESTER ENCLOSURE WHICH MEETS NEMA AND CSA STANDARDS FOR ELECTRICAL ENCLOSURES

PROVIDES LOW IMPEDANCE GROUND PATH FOR HIGH TRANSIENT VOLTAGES

PROVIDES LOW IMPEDANCE GROUND PATH FOR 60 HZ INDUCED VOLTAGES

HYBRID SURGE SUPPRESSION CIRCUITRY

FAILSAFE CIRCUITRY DESIGN

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