

High Energy High Speed Data Line Models

Network Data Circuit protection device with Discrete All-Mode Protection



"Power Quality is our Only Business"

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The High Energy High Speed Data Line devices are designed to protect data transmission circuits. These devices are intended for installation near the equipment to be protected and mounted as close to the electrical power source of the equipment as possible so as to allow for a common grounding point for grounding.

This device is available for two to sixteen wire data line connections (1 to 8 pair) accomplished by using the terminal strips provided, making your installation a breeze. Ground lugs are provided on the face of the unit to insure a low impedance ground discharge path.

The unique design of these devices makes them among the most versatile TVSS devices on the market with superior performance specs and a warranty that is second to none.

GENERAL

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| Description: | Series wired transient voltage surge suppressor with encapsulated Optimal Response Network™ circuitry for protection of data circuits. |
| Application: | Designed for use data, signal and current loop circuits to protect data transmission system equipment from damaging transients generated between terminals and equipment in the data collection/transmission system. |
| Warranty: | 25 Years Unlimited Free Replacement |

MECHANICAL

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| Enclosure: | Plastic, UL 94V-0 |
| Mounting: | External mounting feet. DIN mounting feet (DIN option) |
| Connection Method: | Wire clamping box terminals located at the input and output sides of the device. Wire size: Lines #18-22 AWG, Ground #6-12 AWG. |
| Shipping Weight: | 1 to 5 lbs |

CIRCUITRY

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| Circuit Design: | Series wired hybrid design incorporating discrete all mode protection and utilizing our encapsulated Optimal Response Network™ design to provide lowest possible let-through voltages. All suppression circuits are encapsulated in our high dielectric compound to assure long component life and complete protection from the environment and/or vibration. |
| Protection Modes: | Dedicated protection components and circuitry for each mode. Discrete L-L (Normal Mode) and L-G, Shield-G (Common Mode) |

PERFORMANCE

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|--|----------------------------|
| Maximum Continuous Operating Voltage: | 7.5, 15, 36, 54, and 140 V |
| Maximum Continuous Operating Current: | 500 mA |
| Series Resistance: | 5 Ohms per wire |
| Maximum Data Rate: | 10 Mbps |
| Peak Surge Current per Pair: | L-L 10 kA, L-G 10 kA |
| Response Time: | < 1 ns |

| Let-Through Voltages Using ANSI/IEEE C62.45 & C62.41.1 / C62.41.2 Test Environment: Static, positive polarity. All voltages are peak ($\pm 10\%$). | | | | |
|---|---------------------------------------|--------------------------------------|------------------------|----------------------------------|
| Model | Maximum Continuous Operating Voltages | Maximum Continuous Operating Current | Test Mode | B3/C1 Impulse Wave 6 kV, 3 kA |
| ST-D5-2X ST-D5-4X ST-D5-6X ST-D5-8X ST-D5-12X | 7.5 V 7.5 V 70 V | 500 mA | L-G L-L Shield-G | < 20 V < 20 V < 280 V |
| ST-D15-2X ST-D15-4X ST-D15-6X ST-D15-8X ST-D15-12X | 15 V 15 V 70 V | 500 mA | L-G L-L Shield-G | < 30 V < 30 V < 280 V |
| ST-D33-2X ST-D33-4X ST-D33-6X ST-D33-8X ST-D33-12X | 36 V 36 V 70 V | 500 mA | L-G L-L Shield-G | < 50 V < 50 V < 280 V |
| ST-D53-2X ST-D53-4X ST-D53-6X ST-D53-8X ST-D53-12X | 54 V 54 V 70 V | 500 mA | L-G L-L Shield-G | < 60 V < 60 V < 280 V |
| ST-D140-2X ST-D140-4X ST-D140-6X ST-D140-8X ST-D140-12X | 140 V 140 V 70 V | 500 mA | L-G L-L Shield-G | < 220 V < 220 V < 240 V |

Note: 4 pair (8 conductor and larger) models do not include Shield terminals.

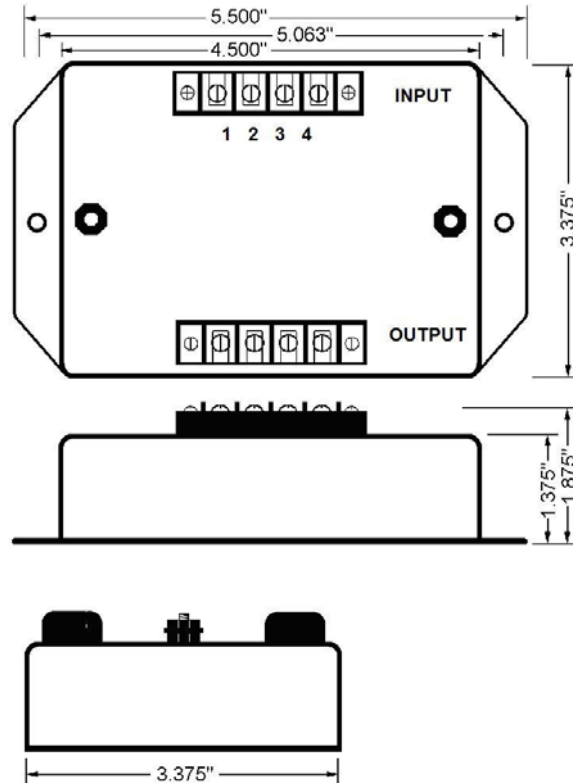


Image is ST-D##-4X Model

Actual unit can vary from picture

Models **ST-D##-12X** and above require a larger enclosure, approx. 6.40" L x 4.62" W x 2.28" D