

Introduction

Since 1980, Eaton's Innovative Technology has provided Surge Protective Devices (SPDs) to power quality equipment users around the world. Whatever your electrical surge protection need may be, Eaton's Innovative Technology has a Surge Protective Device to fill it!

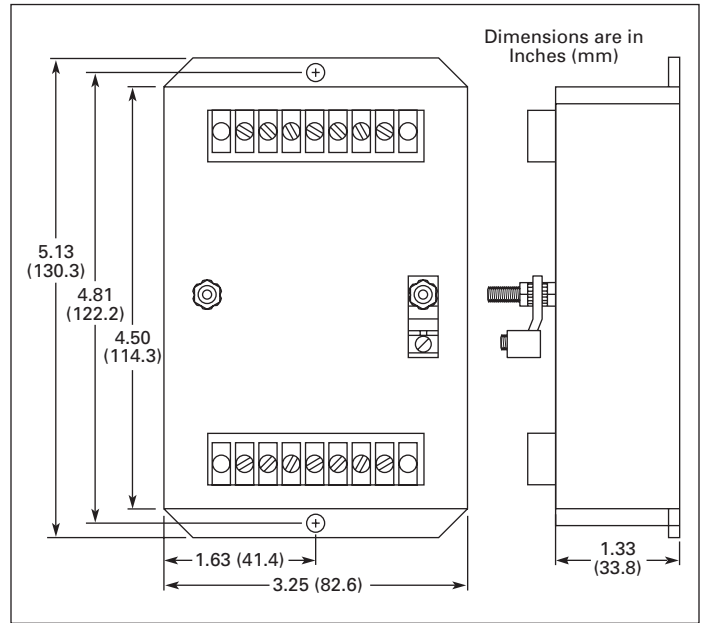
General Features

- Description — Terminal strip connected Data-Line surge protective device, 20 kA peak surge current per pair
- Application — 1, 2 or 3 pair data, signal and 4 – 20 mA current loop circuits, ISDN lines
- Warranty — 5-Year Free Replacement
- Manufacturer Qualifications — ISO® 9001:1994 Quality System Certification BSI FM 30833

Mechanical and Electrical Features

- Enclosure — ABS Plastic UL® 94V-0
- Connection — Wire clamping box terminals
 - Line(s): #18 – 22 AWG (0.8 – 0.3 mm²)
 - Ground: #6 – 12 AWG (13.3 – 3.3 mm²)
- Weight — ≈1 lb (0.46 kg)
- Operating Temperature — -40°F (-40°C) to +140°F (+60°C)
- Circuit Design — Series connected, series protected, multi-stage hybrid circuitry providing Line-Line (paired), Line-Ground and Shield-Ground protection.
- Capacitance — L-L, L-G 250 µf; Shd-G 8 µf
- Maximum Continuous Operating Current — 560 mA

- Data Rate — Up to 2.0 Mbps
- Frequency Range — dc: 20 MHz
- Response Time — ≤1 nanosecond
- Series Resistance — 5 ohms per line
- Protection Modes — L-L (normal mode), L-G, Shd-G (common mode)



Performance Data

IEC 10 x 700 µS Impulse *

ANSI/IEEE C62.41-1991 Measured Limiting Voltage *

Model	Maximum Continuous Operating Voltage (Vpk)	IEC 10 x 700 µS Impulse *			ANSI/IEEE C62.41-1991 Measured Limiting Voltage *	
		500 V 20 A	1 kV 40 A	2 kV 80 A	B3/C1 Impulse Wave 6 kV, 3 kA	C3 Impulse Wave 20 kV, 10 kA
DxS5-2ML †	5 L-L, 5 L-G 71 Shd-G	<12, <12	<12, <12	<12, <12	30, 50 170	50, 30 290
DxS15-2ML †	15 L-L, 15 L-G 71 Shd-G	<25, <25	<25, <25	<25, <25	30, 50 170	40, 50 290
DxS33-2ML †	36 L-L, 36 L-G 1 Shd-G	<50, <50	<50, <50	<50, <50	60, 70 170	70, 90 290
DxS53-2ML †	54 L-L, 54 L-G 71 Shd-G	<75, <75	<75, <75	<75, <75	90, 90 170	120, 150 290
DxS140-2ML †	144 L-L, 144 L-G 71 Shd-G	<160, <160	<160, <160	<160, <160	250, 250 170	200, 300 290

* Test environment: static, positive polarity. All voltages are peak (±10%), time base = 1 ms.
† "x" = 2 for 2 wire, 4 for 4 wire and 6 for 6 wire.

Eaton Corporation
Innovative Technology TVSS Products
 1000 Cherrington Parkway
 Moon Township, PA 15108-4312
 USA
 Phone: 1-800-525-2000
 Web: www.itvss.com

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