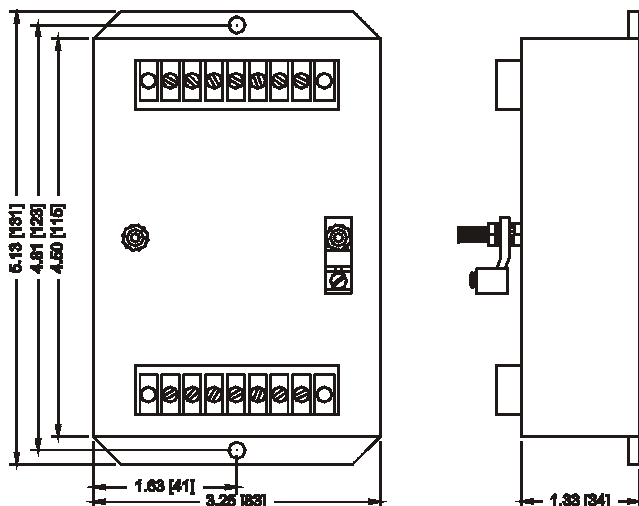


**five  
year  
free**
**REPLACEMENT**
**Warranty**

# Data-Line Models



DIMENSIONS ARE IN INCHES[MM]

## GENERAL SPECIFICATIONS

**Description:** Terminal strip connected Data-Line surge protective device, 10 kA peak surge current per pair

**Application:** 1, 2 or 3 pair data, signal and 4-20 mA current loop circuits, ISDN lines

**Warranty:** Five-Year Free Replacement

**Manufacturer Qualifications:** ISO 9001:1994 Quality System Certification BSI FM 30833

## MECHANICAL SPECIFICATIONS

**Enclosure:** ABS Plastic UL94V-0

**Connection:** Wire clamping box terminals. Line(s) - #18-22 AWG (0.8-0.3 mm<sup>2</sup>). Ground - #6-12 AWG (13.3-3.3 mm<sup>2</sup>)

**Weight:** ≈ 1 lb (0.46 kg)

**Operating Temperature:** -40° F (-40° C) to +140° F (+60° C)

## ELECTRICAL/PERFORMANCE SPECIFICATIONS

**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 250pf; Shd-G 8nf

**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)

Key Performance and Electrical Specifications

Model	Maximum Continuous Operating Voltages (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	<12	<12	<12	30	50
	5 L-G	<12	<12	<12	50	30
	71 Shd-G	--	--	--	170	290
DxS15-2ML**	15 L-L	<25	<25	<25	30	40
	15 L-G	<25	<25	<25	50	50
	71 Shd-G	--	--	--	170	290
DxS33-2ML**	36 L-L	<50	<50	<50	60	70
	36 L-G	<50	<50	<50	70	90
	71 Shd-G	--	--	--	170	290
DxS53-2ML**	54 L-L	<75	<75	<75	90	120
	54 L-G	<75	<75	<75	90	150
	71 Shd-G	--	--	--	170	290
DxS140-2ML**	144 L-L	160	160	160	250	200
	144 L-G	160	160	160	250	300
	71 Shd-G	--	--	--	170	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

**ISO 9001**

Specifications subject to change

(datadim.wmf; datas.doc 11/26/02) ZM02-273