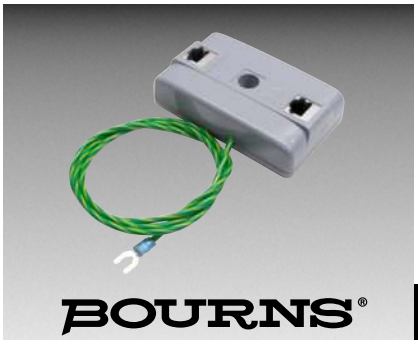


BOURNS®

Features

- GDT/TBU® High-Speed Protector technology
- Low impulse let-through
- High surge current rating
- Available in isolated and grounded versions
- 10/100/1000 data compatibility
- 5 kV isolation
- UL Listed per UL 497B (File: E153537)

Applications

- Data communications
- Highly exposed Ethernet
- 1000 Base-T Gigabit Ethernet
- Indoor/controlled environment installations
- Telecommunications and industrial installations

1500 Series Gigabit Ethernet SPD

General Information

The 1500 Series Ethernet Surge Protective Device (SPD) incorporates multiple Bourns® circuit protection technologies. These technologies are designed to work together to provide an unmatched level of surge protection for exposed Ethernet applications. The 1500 Series is designed to meet key surge and AC power cross requirements of GR-1089-Core Issue 6. The isolated model is designed to withstand voltages up to 5 kV.

The 1500 Series is available as a wall mount unit with optional DIN Rail hardware.

Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Characteristics

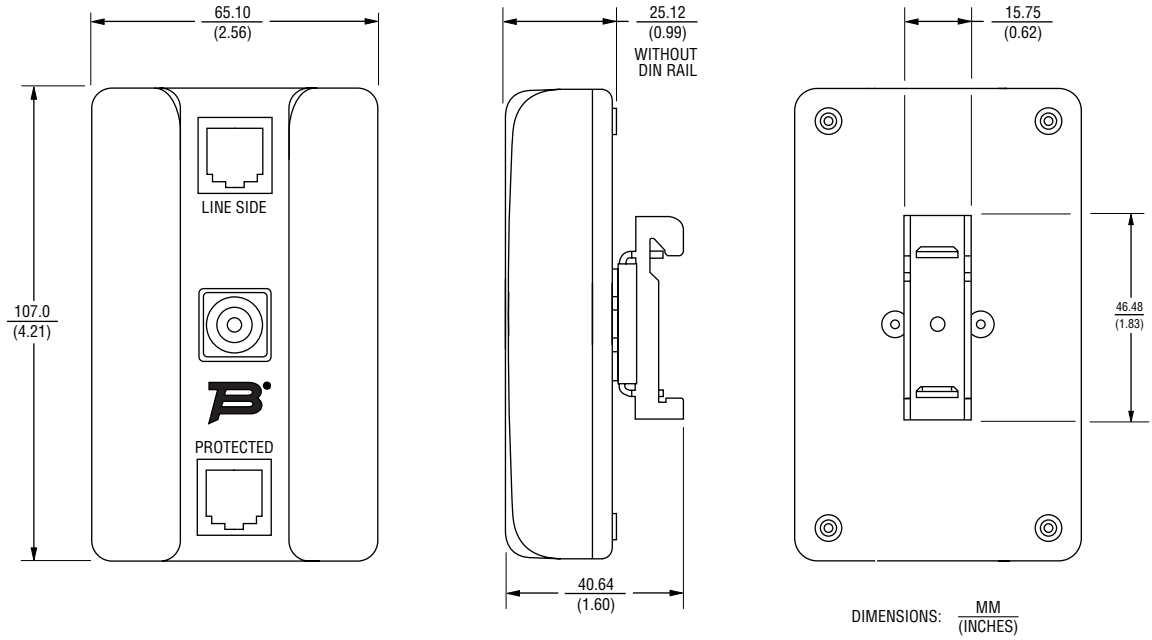
Test methods per UL 497B, GR-1089 Issue 6, and CSA C22.2.

Parameter	Isolated Version	Grounded Version
DC Breakdown Line to Line	150 V Typical Input / 7 V Typical Output	
DC Breakdown Line to Ground	N/A	150 V Typ.
Line Series Resistance (Loop)	12 Ω Typ.	
Line Series Balance	0.5 Ω Typ. / 1.0 Ω Max	
Capacitance Line to Line @ 1 MHz	N/A	10 pF Typ.
Time-to-block (t_{block})	<1 μs	
First Level Surge 1 kV – 10/1000 μs, 100 A 2.5 kV – 2/10 μs, 500 A 800 V – 1.2/50 μs, 8/20 μs Combo Wave	 >10 operations >10 operations >10 operations	
Second Level Surge 2.5 kV – 2/10 μs, 500 A, Inductive Kick[1] 6 kV / 3 kA – 1.2/50 μs, 8/20 μs Combo Wave[1]	 1 operation 1 operation	
First Level Power Fault 220 mA Below Protection Threshold 600 V / 1 A / 1 Second 1000 V / 1 A / 1 Second 425 V / 0.5 A / 4 Seconds	 15 minutes > 60 operations > 60 operations > 1 operation	
Second Level Power Fault 120 V / 25 A[1] 425 V / 40 A / 1.5 Second[1] 425 V / 7 A / 5 Seconds[1] 425 V / 2.2 A[1]	 15 minutes 1 operation 1 operation 15 minutes	
BER Performance Testing 10/100 Mbps 1 Gbps	 > 100 meters Up to 100 meters	
Storage and Operating Temperature	-40 to +65 °C	
Ground Connection	Screw Lug or DIN Rail Clip	

Notes:
Isolated version does not require a ground connection.
1) Fuse may fail open and disconnect from circuit.

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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Product Dimensions



How To Order

1500 - X Y - W

Model Number Designator

Configuration
- 1 = Isolated*
- 2 = Grounded

Hardware Options
- S = Screw Lug
- D = DIN Rail

Ground Wire (Optional)
- W = #14 AWG Ground Wire, 3 Ft.

* Isolated unit requires no ground.

Agency Recognition

Agency	Category	Agency File No.
UL LISTED	UL 497B	E153537

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