

The Bourns® Model 1530-1 Series Commercial PoE Ethernet Surge Protectors incorporate state-of-the-art gas discharge tube and surge limiting technologies to provide the highest protection level offered by Bourns. The Model 1530-1 Series is designed to meet applicable Telcordia GR-1089 Level 1 and Level 2 Surge and AC Power Fault specifications on the data signal line while allowing operations up to 35 watts (employing both Mode A and B combination) at 57 volts. The Model 1530-1 Series enclosure is flame retardant and manufactured with a high impact resistant plastic.

Characteristics

Test methods per UL 497B, GR-1089, CSA C22.2, IEC 61000-4-5, and IEEE 802.3at.

Parameter	Commercial Model 1530-1	
DC Breakdown on Data Lines	150 V Typical Input / 7 V Typical Output	
DC Breakdown - Power Lines	< 200 V Typ.	
Power Rating	35 W	
Line Series Resistance (Loop)	~ 6 Ω Typ.	
Line Series Balance	0.5 Ω Typ. / 1.0 Ω Max	
Capacitance Line to Line @ 1 MHz	10 pF Typ.	
BER Performance Testing 10/100/1000 Mbps	> 100 meters	
Surge Response Time	< 1 µs	
Surge Limiting Performance Let-Through Voltage Let-Through Current	< 60 V < 1 A	
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 ¹ Combo – 10/1000 µs, 100 A	1 operation 1 operation > 10 operations	
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	
Storage and Effective Temperature	-40 to +65 °C	
UL Flame Rating	94 V0	
Ingress Protection Ratings	20	

Notes:

UL Listed component, UL File E153537

1) Fuse may fail open and disconnect from circuit.

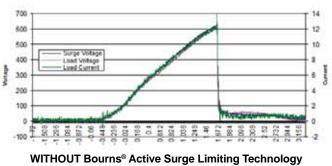


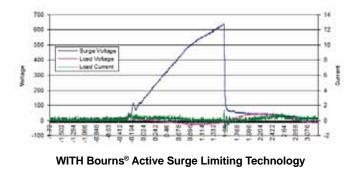
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1530-1 Series PoE Ethernet Surge Protector

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Performance Graphs





- * With impulse input @ 10/1000 µs, 1.5 kV, 100 A.
- Applied to inputs Tip (A) or Ring (B) in reference to Ground (Earth) and measured at outputs Tip (A) or Ring (B) in reference to Α. Ground (Earth) with 50 ohms load.
- В. Applied between inputs Tip (A) or Ring (B) and measured between outputs Tip (A) or Ring (B) with 50 ohms load.

Wiring / Pin-Out Information

(Default T568B Wiring Scheme Silkscreened on PCB.)

Pin No.	T568A Wire Color	T568B Wire Color	Data Line Information	Power Line Information
Pin 1	White / Green Stripe	White / Orange Stripe	TxRx A+	DC +
Pin 2	Green Solid	Orange Solid	TxRx A-	DC +
Pin 3	White / Orange Stripe	White / Green Stripe	TxRx B+	DC -
Pin 6	Orange Solid	Green Solid	TxRx B-	DC -
Pin 4	Blue Solid	Blue Solid	TxRx C+	DC +
Pin 5	White / Blue Stripe	White / Blue Stripe	TxRx C-	DC +
Pin 7	White / Brown Stripe	White / Brown Stripe	TxRx D+	DC -
Pin 8	Brown Sollid	Brown Sollid	TxRx D-	DC -

How to Order

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Model Number	
1530-1D	DIN Rail Mount. No Ground Wire
1530-1D-W	DIN Rail Mount, with Ground Wire
1530-1-W	Wall Mount, with Ground Wire
1000 1 W	

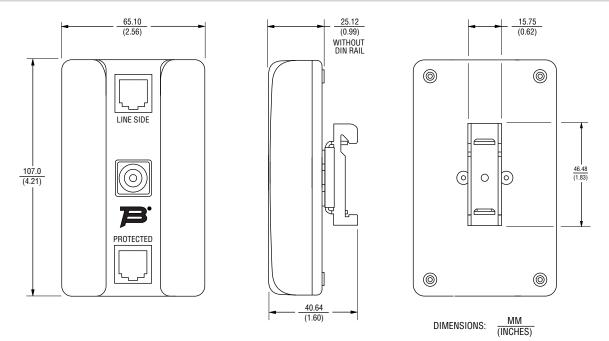
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Product Dimensions



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