

Introduction

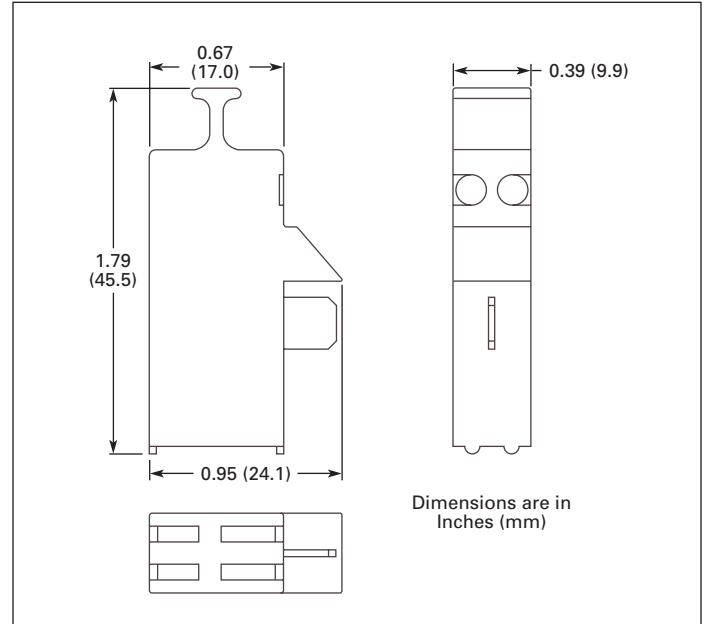
Since 1980, Eaton's Innovative Technology has provided Surge Protective Devices (SPDs) to power quality equipment users around the world. Whatever your electrical surge protection need may be, Eaton's Innovative Technology has a Surge Protective Device to fill it!

General Features

- Description — Type 66 Punchdown block-mounted, secondary, telephone- or data-line overvoltage/current surge protection devices
- Application — Secondary data or telecom protection for voice grade applications, 10 Mbps Ethernet and high-speed Token Ring networking installations. Each bridging module protects one pair
- Warranty — 5-Year Free Replacement
- Listings — UL® 497A
- Designed to — Commercial Building Telecomm. Wiring Standard ANSI/EIA/TIA-568
- Manufacturer Qualifications — ISO® 9001: 1994 Quality System Certification BSI FM 30833

Mechanical and Electrical Features

- Enclosure — Molded Plastic
- Connection — Press fit onto punchdown block tabs. Press fit for ground onto available ground strips.
- Weight — ≈1 lb (0.4 kg)
- Operating Temperature — -40°F (-40°C) to +185°F (+85°C)
- Circuit Design — Solid-state voltage protection, coupled with fusing for protection against high current
- Data Rate — Up to CAT 3 / 10 Mbps / 10Base-T digital, up to 100 MHz analog
- Protection Modes — Tip-Ground, Ring Ground
- Response Time — <1 nanosecond
- Maximum Continuous Operating Current — 350 mA
- Operating Voltage Ranges — 19 V – 131 V


Application Guide: Choosing the Right Bridge Clip

1. Measure the peak dc signal voltage of the telecom/data equipment.
2. Measure the peak ac voltage of the telecom/data equipment ($V_{rms} \times 1.41$).
3. Add the values obtained in (1) and (2) to determine peak voltage requirements.
4. Match the peak voltage requirement to the appropriate Bridge Clip. Select the Bridge Clip based on the standoff voltage. For example, equipment with 36 Vdc peak signal voltage and peak ac voltage of 95 V would require a BC-180 (36 + 95 = 131).
5. If desired, connect the selected Bridge Clip modules to a 6-unit (I.T. Model BC-GB6) or 25-unit (I.T. Model BC-GB25) Grounding Strip.

Performance Data

Model	Standoff Voltage	dc Breakover Voltage	Suggested Application	IEC 10 x 700 Impulse	
				500 V L-G, L-L	1 kV L-G, L-L
BC-27	19 V	27 V	Voice, Low-Speed Data Transmission	40, 70	40, 70
BC-68	50 V	68 V	Voice, Token Ring LAN, 10Base-T LAM	80, 160	80, 160
BC-140	102 V	140 V		130, 200	130, 200
BC-180	131 V	180 V		180, 200	180, 200

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

Innovative Technology is a registered service mark of Eaton Corporation. UL is a federally registered trademarks of Underwriters Laboratories Inc. ISO is the registered trademark and sole property of the International Organization for Standardization.

