

DLP-36B with DLM

Extra Heavy Duty Surge Suppression Device

Multi-wire protection for Instrumentation, Telecom and Telco equipment

1.0 GENERAL

1.1 DESCRIPTION

These specifications describe the electrical and mechanical requirements for a rapid- responding transient voltage surge suppressor. The specified surge protective device shall provide effective high-energy surge diversion of transient over-voltages on Instrumentation, Telecom and Telco conductors, up to 25 pairs. Tested & certified per UL 497. The specified surge protective device shall provide:

- 10,000A (8/20us) surge current/line, ratings must be independently tested & verified.
- All signal lines protected with respect to chassis ground.
- Must be provided in a NEMA 12, 14 gauge steel enclosure.
- Wires must be terminated to RJ21X connector (50 pins).
- TWENTY YEAR WARRANTY. Replacement units are sent from factory, located in Deer Park, New York, USA.

1.2 STANDARDS

The specified suppressor shall be designed, manufactured, tested and installed in compliance with:

- Institute of Electrical and Electronic Engineers IEEE-472
- Federal Communications Commission Docket 68
- Bellcore standards 974 and 1089
- National Fire Protection Association (NFPA 20, 70, 75 and 78)
- Underwriters Laboratories (UL-497A and 497B) listed
- CAN/C22.2 No. 8-M1986; CSA Electrical Certification Notice No. 516

1.3 PROTECTED EQUIPMENT ELECTRICAL REQUIREMENTS

1.3.1 Environmental Requirements

A. Operating Requirements:

1. Operating temperature range shall be -40 to +71 degrees C (-40 to +160 degrees F).
2. Storage temperature range shall be -40 to +85 degrees C.
3. Operation shall be reliable in an environment with 0% to 95% non-condensing relative humidity.
4. The system shall be capable of operation up to an altitude of 13,000 feet above sea level.

1.3.2 Electrical Requirements

A. Electrical Requirements:

1. Grounding of each circuit is directly through NEMA enclosure.
2. Clamp voltages available shall be 6,25,60 and 200 Volts and the attenuation less than 1 db @ 70 MHz.

3. The transient suppression capability shall be bi-directional and suppress both positive and negative impulses.
4. The suppressor shall be designed so as to minimize the internal surge path impedance. Direct point-to-point internal wiring is inherently inductive and not acceptable. Connection to the protected device shall be constructed as shown in the installation notes for best performance.
5. Equipment shall be as manufactured by MCG Surge Protection; Model: DLP-36B with required protection cards: DLM or engineering department approved equal with supporting data.

2.0 MODEM, FACSIMILE, TELCO PROTECTION SYSTEM

- A. Protection Cards (DLM):** The protection circuits shall be provided on plug-in, pluck out cards, (2 circuits/card). Maximum 25 cards per unit Each circuit shall be protected by a high-speed avalanche diode and a gas discharge tube. Protector will be made available, with no additional cost to user, UL 497A (fused for accidental crossing of power and signal lines) or UL 497B (no fuse). Care should be taken to adhere to installation notes supplied with protector for optimum protection.
- B. Enclosure:** NEMA 12, 14 gauge steel . Provided with base PC board to accommodate 25 DLM cards. Includes F/F RJ21X connectors.
- C. Dimensions:** 8.0"x 8.0" x 4.0"

3.0 INSTALLATION AND MAINTENANCE

- A.** The unit shall be installed in accordance with the manufacturer's printed instruction to maintain warranty. All local and national codes must be observed.
- B.** Units shall be installed as close as possible to the device to which it is connected
- C.** Detailed installation/maintenance notes shall be provided to insure safety of maintenance personnel.
- D.** Repair time should not exceed 5 minutes.

4.0 20 YEAR WARRANTY

Manufacturer to provide 20-year warranty to cover repair or replacement with a new device. Manufacturer to provide no cost replacement of DLP-36B. Restrictions apply. See "Warranty & Limitations of Liability", document part No. 299-200-06.