

SURGE PROTECTIVE DEVICE (SPD)

Cat. No. 55240-ASA: Single Phase 120/240V AC, 50/60Hz
Cat. No. 55208-ASA: 3 Phase 120/208V AC WYE, 50/60Hz or 240V AC Delta, 50/60Hz
Cat. No. 55480-ASA: 3 Phase 277/480V AC WYE, 50/60Hz or 480V AC Delta, 50/60Hz



PK-93718-10-02-0A

INSTALLATION

ENGLISH

WARNING AND CAUTIONS:

- TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS
- INSTALLATION OF TYPE 1 SPDs DEVICES MUST BE PERFORMED BY AN ELECTRICIAN.
- TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER** BY REMOVING SERVICE METER, OR DISCONNECTION OF SERVICE SUPPLY BY UTILITY. TEST THAT THE POWER IS OFF BEFORE WIRING!
- THIS SPD IS A TYPE 1 DEVICE WHICH IS DESIGNED FOR USE WITH LIGHTNING PROTECTION SYSTEMS (UL 96A).
- THIS SPD MAY NOT SURVIVE SUSTAINED OVERVOLTAGES.
- USE THIS DEVICE WITH **COPPER OR COPPER CLAD WIRE ONLY**.
- THESE DEVICES ARE NOT TO BE USED WITH A HI-LEG DELTA VOLTAGE CONFIGURATION.

INTRODUCTION

Transient voltage surges are short-term deviations from a desired voltage level or signal that can occur at any time. Such changes can result in an electronic device malfunction, or cause extensive damage. Also termed "spikes", these occurrences take place as a result of magnetic field/inductive coupling or whenever the line current is interrupted. They can originate from either inside a facility, or derive from outside utility lines. Sources within a facility involve loads that are switched, such as electric motors that are turned ON and OFF and are addressed by devices applied at point-of-use equipment.

DESCRIPTION

Leviton's 55240-ASA, 55208-ASA, and 55480-ASA are the first line of protection designed to safeguard homes and small commercial establishments from external sources of high voltage spikes. These TYPE 1 devices are connected between each of the two incoming Lines and Neutral.

SPECIFICATIONS

- ETL listed TYPE 1 device.
- Suppression in accordance with recommendations of ANCI/IEEE C62.11 and NEC 285.
- 40mm TPMOV fused SPD circuitry for all lines to Neutral.
- SPD enclosed in NEMA type 3R case for outdoor installation.
- Alarm is activated whenever either line loses surge protection.
- Green LED indicates surge protection is stable.
- Red LED indicates protection has failed.

LOCATION AND MOUNTING

- Locate the SPD between the meter and the main service circuit breaker panel or connect at weather head of overhead service.
- Mount the SPD so the Line and Neutral connections can be made while keeping hook-up leads as short and straight as possible. Avoid sharp bends and turns, which will degrade the performance of the SPD. The weight of the SPD should be supported to avoid unnecessary stress on the wiring connections.
- The SPD should be mounted to an electrical box or enclosure. **DO NOT** connect directly to electrical conduit.

TO INSTALL

IMPORTANT: TYPE 1 SPD devices should be supplemented with additional load side SPDs for maximum protection.

- RESTORE POWER**, if necessary.
- Measure voltage at installation location between each Line and Neutral. System voltage must not exceed the specified maximum continuous RMS voltage listed on the SPD label.
- TURN OFF POWER** at the installation location (usually by removing service to meter or disconnection of service supply by utility).
- Switch all distribution panel circuit breakers to OFF position to reduce possibility of accidental voltage on the circuit.
- Connect the SPD White (Neutral) wire to the Neutral service conductor, a grounding electrode conductor, or the equipment grounding terminal in the service equipment.
For Cat. No. 55240-ASA: Connect Line 1 to one of the SPD's Black wires and Line 2 to the remaining Black wire. Refer to Figure 1.
For Cat. No. 55208-ASA & 55480-ASA: Connect Line 1 to one of the SPD's Black wires, connect Line 2 to one of the remaining Black wires and Line 3 to the remaining Black wire. Refer to **Fig. 2**.
NOTE: Keep hook-up leads as short and straight as possible.
- Restore power to SPD and switch circuit breakers to "ON" position to reconnect load. Verify that the Green LED is lit. **INSTALLATION IS COMPLETE.** If Green LED is not lit and instead Red LED is lit, then re-check installation. Replace unit as required.

Fig. 1 - 55240-ASA

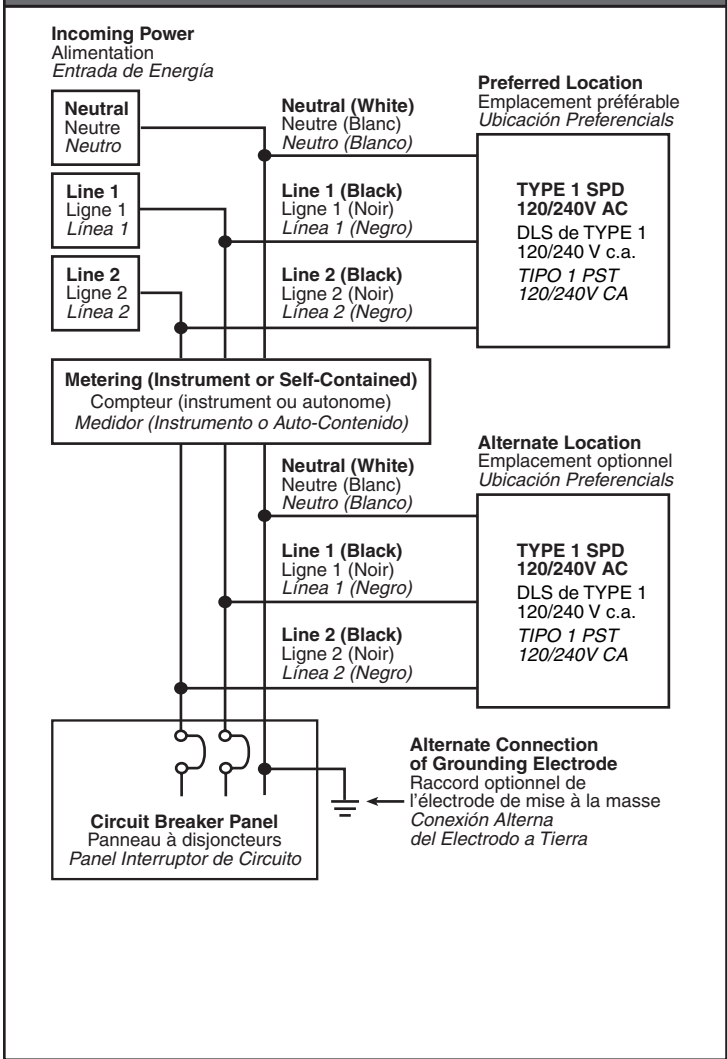
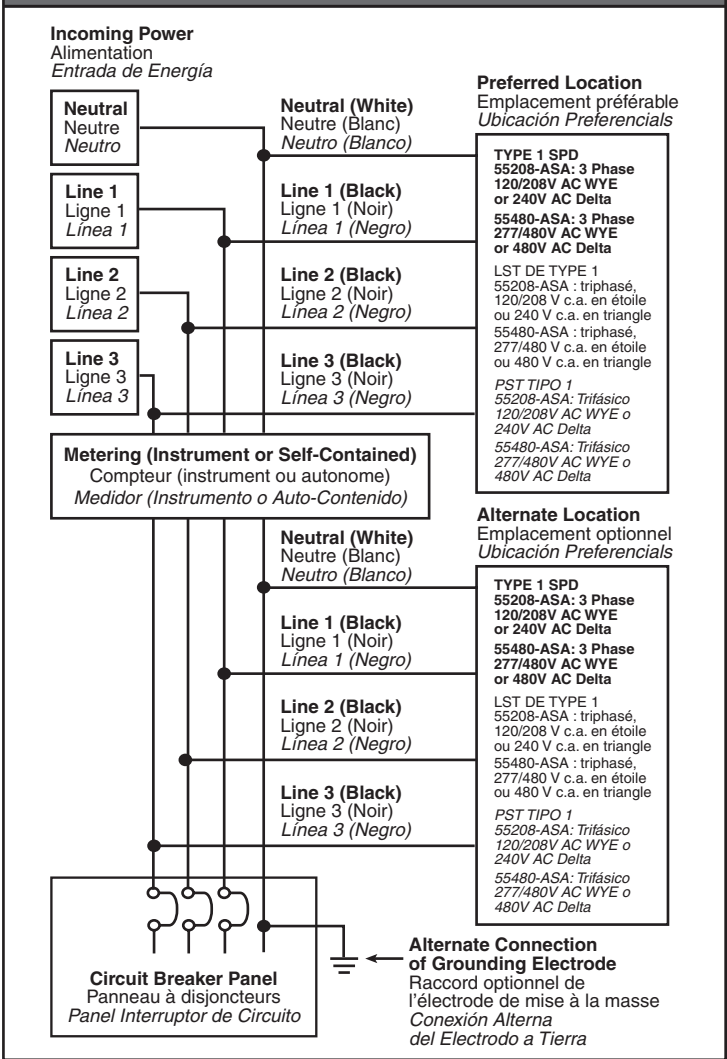


Fig. 2 - 55208-ASA, 55480-ASA



LIMITED LIFETIME WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use during the lifetime of the product. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 201 North Service Road, Melville, N.Y. 11747**. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

