

GENERAL DESCRIPTION

The **SPD150 / SPD60** surge protection devices incorporate the latest in protection technology and ease of installation. These devices are designed to dissipate the harmful energy produced by lightning strikes and other power line transients commonly found in HVAC installations. These voltage transients can be very damaging to the equipment, shortening its life and reducing its efficiency.

All SPD150 / SPD60 surge protection devices incorporate a visual indication—**GREEN LED**--that lets the user know that the equipment is being protected. In addition, these devices incorporate a second visual indicator—**RED LED**—which indicates the presence of electrical power. When both visual indicators are ON, the device is powered and the load is protected. When the GREEN indicator is OFF but the RED indicator is ON, the load is powered but not protected. If the RED indicator is OFF, power to the load is missing but protection may still be available so the user should check the electrical panel first.

A variety of attachment options allows the busy contractor to effectively protect his customer's equipment in the shortest possible time.

INSTALLATION INSTRUCTIONS

WARNING : RISK OF ELECTRICAL SHOCK

Completely read these instructions before installing. Installation and service to be performed by a qualified licensed electrician.

Note:

1. These are TYPE 2 devices intended to be connected to the load side of the service panel. TYPE 2 devices are designed to be installed with over-current protection.

2. Suitable for use on a circuit capable of delivering no more than 20,000 rms symmetrical amperes.

All SPD150 / SPD60 protection devices include two black wires and one white Grounded / Neutral wire. The recommended place of installation is at the electrical panel servicing the load. Since surge protectors work by shunting the voltage spikes to ground, it is imperative that proper grounding be provided as required by local electrical codes.

For 120 / 240 VAC installations, connect each black lead to each of the hot lines and the Grounded / Neutral white wire to the neutral bus bar as shown in the figures.

For 120 VAC installations, connect both black leads to the line (**hot**) and the Grounded / Neutral white lead to the neutral bus bar. This type of installation is commonly found at individual pieces of equipment.

Connection may also be made to the neutral/ground bus bar if no separate ground bus bar is provided.

All conductor lengths should be as short as possible and bends should not be sharp; a 4" bend radius or wider is recommended.

For best performance use #12 AWG leads, 240V, 20A, 2 pole circuit breakers.

The SPD150 / SPD60 surge protectors can be installed by removing a knockout from the disconnect or the panel box, inserting the nipple end and the wires of the surge protector through the exposed hole and tightening the retaining ring nut. These devices can also be installed using the tabs at the top of the housing and the sheet metal screws provided.

SPECIFICATIONS

SPD60

Service Type	120 / 240 single phase, 50 or 60 Hz
Maximum Surge Current	60,000 Amps
Response Time	< 5n seconds
Connection Method	Hardwired parallel to load
Installation Point	Electrical Disconnect or Electrical Panel
AC Protection Modes	Line - Line and Line - Ground
Indication	Green LED (ON) active protection and Red LED (ON) power applied
Approvals	UL - 1449 3rd Edition
Housing	High Impact ABS
Weight	1.0 lb (500 g)

SPD150

Service Type	120 / 240 single phase, 50 or 60 Hz
Maximum Surge Current	100,000 Amps
Response Time	< 5n seconds
Connection Method	Hardwired parallel to load
Installation Point	Electrical Disconnect or Electrical Panel
AC Protection Modes	Line - Line and Line - Ground
Indication	Green LED (ON) active protection and Red LED (ON) power applied
Approvals	UL - 1449 3rd Edition
Housing	High Impact ABS
Weight	1.0 lb (500 g)




WARNING

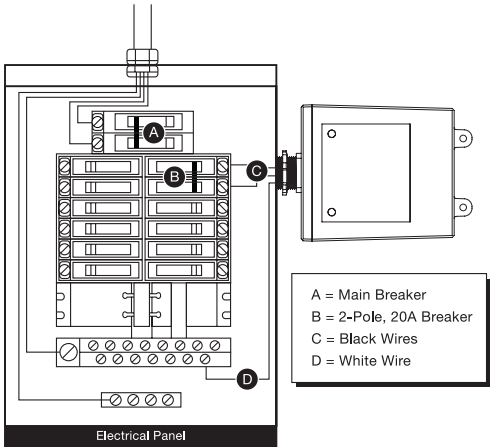


Turn off main power to the service disconnect when installing directly to the load. Turn off main breaker when installing to the service panel. Always verify with a meter before proceeding with the installation.

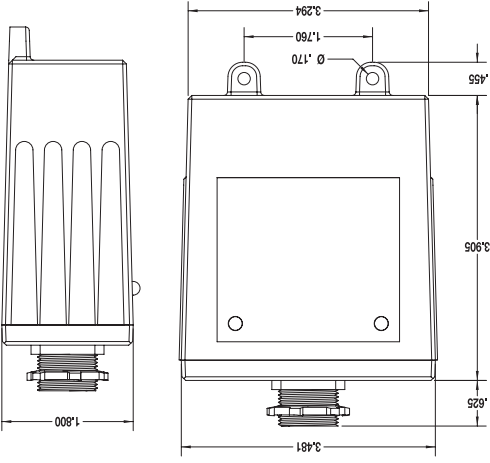
TECHNICAL SUPPORT

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Technical Support
 1-800-277-3808 (Toll-free)
Warranty
 3 year warranty

 UL / 1449 3rd edition
 Certificate number: 48U 12 12 83288 001

INSTALLATION TO ELECTRICAL PANEL



UNIT DIMENSIONS



INSTALLATION TO A / C DISCONNECT

