

Installation Instructions

AHW120/240-25-H1 AC Surge Protective Device (SPD)



ELECTRICAL SHOCK HAZARD – Before installing this unit, turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position.

ATTENTION!

- Installation must be performed only by a properly trained operator or an electrician.
- National electrical installation rules must be followed.
- The unit must be used only as a surge protector and according to the conditions described in this document.
- Surge protectors must be selected in relation to a dedicated AC network (see Technical Data).

Specifications

Model: AHW120/240-25-H1

Service Voltage: 120/240 Volt Split Phase

Nominal Discharge Current: 10,000 Amps (Each mode)

AC Protection Modes: L-L, L-G

Installation Point: Electrical Panel, Electrical Disconnect

Size: 53.0X38.8 mm

Short Circuit Current Rating (SCCR): 200,000 Amps

Weight: 108±10 g

Mounting Hole: $\Phi 22.4 \pm 0.2$ mm

Maximum Continuous Operating Voltage (MCOV): L-G: 150 Vac, L-L: 300 Vac

Diagnostics: Green LED ON = Surge Protective Device OK

Green LED OFF = Surge Protective Device needs to be replaced

Electrical Panel Installation

Keep the surge protection wires as short as possible to increase the response time and effectiveness.

1. Turn off main breaker.
2. Confirm the SPD is rated for your electrical system.
3. Install in accordance with article 285 of NEC.
4. Remove the front cover from the electrical panel.
5. Remove a knockout from the electrical panel.
 - i. Mount the unit through the knockout to the side of the electrical panel.
 - ii. Remove the retaining ring on the unit.
 - iii. Feed the wires into the electrical panel.
 - iv. Re-secure the retaining ring.
6. Route the green wire to the grounding lug and secure.
7. Connect the two black wires to the closest two-pole breaker.
8. Close cover on the panel.

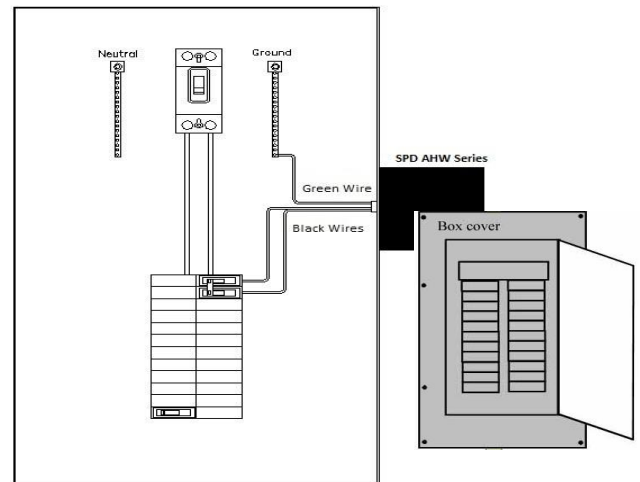


Fig 1

Mounting Method:

SPDs intended for use in enclosures or inside building (Fig 1)

1. SPDs installed in outdoor enclosure (Fig 2)

Notice: After installing, the cable shall not be under direct sunlight to avoid expediting aging of the insulating layer.

Specifications are subject to change without notice.



Fig 2

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