5.0 Warranty

Eaton warrants these products for a period of 2 years from the date of delivery to the purchaser to be free from defects in both workmanship and materials. Eaton assumes no risk or liability for results of the use of the products purchased from it, including but without limiting the generality of the foregoing: (1) The use in combination with any electrical or electronic components, circuits, systems, assemblies, or any other materials or substances; (2) Unsuitability of any product for use in any circuit or assembly. Purchaser’s rights under the warranty shall consist solely of requiring Eaton to repair, or at Eaton’s sole discretion, replace, free of charge, F.O.B. factory, and defective items received at said factory within said term determined by Eaton to be defective. The giving of or failure to give any advice or recommendations by Eaton shall not constitute any warranty by or impose any liability upon Eaton.

The foregoing constitutes the sole and exclusive liability of Eaton and is in lieu of any and all other warranties expressed, implied or statutory as to the merchantability, fitness for purpose sold, description, quality, productiveness or any other matter. In no event shall Eaton be liable for special or consequential damages or for delay in performance of the warranty. This warranty does not apply if the product has been misused, abused, altered, tampered with, or used in applications other than specified on the nameplate. At the end of the warranty period, Eaton shall be under no further warranty obligation expressed or implied. The product covered by this warranty certificate will be returned collect. If Eaton finds the return to be a manufacturer’s defect, the product will be returned prepaid.

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2.0 Installation
Refer to Section 1.2 and look at the label on the SPD to verify that the SPD’s voltage rating and wiring configuration matches that of the electrical system. Use an AC voltmeter to measure the system’s line voltage to ensure that the correct model of SPD is being installed. Damage to the SPD may result if it is connected to an electrical system of a higher voltage or different wiring configuration.

2.1 Mounting
The SPD is to be mounted directly to the electrical panel.

IMPORTANT!
- Choose a mounting location for the SPD that provides the shortest and straightest possible wiring (but not less than six inches lead length) from the SPD to the electrical system connections. Excessive lead length and sharp bends will degrade SPD performance.
- If the electrical system uses an isolated ground, the SPD must be isolated from ground using insulated conduit fittings.
- When using conduit, avoid using 90° elbows and keep the conduit run as short and straight as possible.

Mount the SPD directly to the electrical panel using an appropriate gasket (not included) between the SPD and enclosure wall.

For NEMA 4X installation, install appropriate customer supplied gasket between SPD and enclosure wall.

2.2 Wiring

IMPORTANT!
- Be sure to follow all national, state, and local electrical codes when making wiring connections.
- When connecting the wires from the SPD to the electrical system, cut the wires as short as possible. Every inch of additional wire increases the let-through voltage and reduces protection.
- To maximize the SPD’s performance, twist and bind the wires together to reduce the impedance of the wire (one twist/inch).
- If the system utilizes an isolated ground, the SPD’s ground wire must be connected to the system’s isolated ground bus.

1. Locate the electrical system’s applicable wiring diagram in Section 2.3. Reference this wiring diagram as necessary in Steps 2, 3, and 4.
2. Connect the SPD’s ground wire (green) to the system’s ground connection. Delta and Wye only.
3. Connect the SPD’s neutral wire (white) to the system’s neutral connection (not required for 3-phase Delta and Wye systems).
4. Connect the SPD’s phase A, B, and C wires (black) to the system’s corresponding phase A, B, and C connections according to applicable national, state, and local electrical codes.

2.1.1 Conduit Installation
When mounting the SPD outdoors, use weatherproof conduit and fittings to maintain the enclosure’s NEMA 4X rating. See Figure 2-2.

![Figure 2-2. Conduit Installation](image)

Avoid sharp bends in conduit and longer than necessary wire lengths. Keep conduit length as short and straight as possible.

2.3 SPD Wiring Diagrams

### Single-Phase (120, 240)

![Diagram](image)

### Split Phase (240S)

![Diagram](image)

### 3-Phase Delta (240D, 480D)

![Diagram](image)

### 3-Phase Wye + Ground (208Y, 480Y, 600Y)

![Diagram](image)

3.0 Operation

3.1 Power Up and System Checkout
Apply system power. The Green LED should light. If the connected LED does not light, remove power, check connections, and test again. If the LED still does not light, contact your supplier.

3.2 Routine Operation
After system power has been applied, the SPD automatically begins to protect down-stream electrical devices from damaging voltage transients. With all phase voltages present, the LED indicator reports the status of the protection elements and is active when all of them are intact and providing protection. Any loss of protection is signaled when the LED turns from Green to Red.

The device is not repairable and contains no user serviceable parts. If the unit fails, as evidenced by the LED turning Red, the unit must be replaced. Please contact your distributor as the SPD may be under warranty.

**WARNING! SHOCK HAZARDS:**

DO NOT use the Suppression Circuit Status LEDs as an indication of the presence or absence of system phase voltages.