For the purpose of this Instruction Leaflet, a qualified person:
(a) is familiar with the subject equipment and the hazards involved with their application, use, administration and maintenance.
(b) is trained and authorized to de-energize, clear, ground, and tag circuits and equipment in accordance with established safety practices.
(c) is trained in the proper care and use of personal protective equipment such as rubber gloves, hard hat, safety glasses or face shields, arc-flash clothing, etc., in accordance with established safety practices.
(d) is trained to render first aid.
(e) has received safety training to recognize and avoid the hazards involved.
(f) has the skills and knowledge pertaining to the construction and operation of this equipment and its installation.

Signal words
The signal words “DANGER,” “WARNING,” “CAUTION” and “NOTICE” (along with their assigned symbol) throughout this manual indicate the degree of hazard the user may encounter. These symbols and words are defined as:

DANGER Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
WARNING Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE Indicates a hazardous situation which, if not avoided, could result in property damage.

Safety concerns
This instruction sheet is not comprehensive. It is assumed the SurgePOD Heavy Duty user will follow established safety precautions for working in an electrical environment. For more information on safety precautions and procedures, consult the following websites:
• National Fire Protection Association (NFPA®) www.nfpa.org
• Underwriters Laboratories (UL) www.ul.com
• National Electrical Mfrs. Association (NEMA®) www.nema.org
• American National Standards Association (ANSI®) www.ansi.org
• Institute of Electrical and Electronics Engineers (IEEE®) www.ieee.org

IMPORTANT
These procedures do not claim to cover all possible details or variations encountered with these SPDs, nor do they provide for all possible conditions that may be encountered. If further information is desired or needed to address any particular issue not covered in this document, contact your Bussmann product representative. The information in this document does not relieve the user from exercising good judgment, nor from using sound safety practices.

Note: Because Eaton has a policy of continuous product improvement, we reserve the right to change design specifications without notice. Should a conflict arise between the general information in this document and the contents of drawings or supplementary material, or both, the latter shall take precedence. For the latest version of this Instruction Leaflet, download “Instruction sheet” from the Bussmann Division website at: www.cooperbussmann.com/Surge.

Specifications (for all units)

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPP40SP3120SN</td>
<td>120 V</td>
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<tr>
<td>SPP40SP2240PN</td>
<td>240 V</td>
</tr>
<tr>
<td>SPP40SP3240DLG</td>
<td>240 V</td>
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<tr>
<td>SPP40SP3480DLG</td>
<td>480 V</td>
</tr>
<tr>
<td>SPP40SP3260WYGG</td>
<td>208 V</td>
</tr>
<tr>
<td>SPP40SP3480WYGG</td>
<td>480 V</td>
</tr>
</tbody>
</table>

Installation Instructions

Important: Read these instructions carefully to assure proper installation. All wiring must comply with all state and local electric codes including the National Electric Code (NEC®) and Canadian Electric Code.

Ensure all fasteners and connections are properly tightened to specified values. Installation in a manner inconsistent with these instructions will void the warranty. To ensure integrity of finished installation, do NOT install the SurgePOD Heavy Duty if it has been dropped or abused during the installation process.

The SurgePOD Heavy Duty SPD contains no user serviceable parts and cannot be repaired. Performing the following may compromise the unit’s performance and will void the warranty.

Do NOT:
• Open or tamper with the unit
• Mgee or hi-pot test the unit
• Install in a system that has a nominal voltage greater than the unit’s rated nominal system voltage
• Installation with lead lengths less than six (6) inches will void the warranty

The contents of this Instruction Leaflet are not part of, nor do they modify, any prior or existing agreement, commitment or relationship. The Cooper Bussmann terms and conditions of sale constitute the entire obligation of Cooper Bussmann. The warranty in the terms and conditions of sale is the sole warranty of Eaton. Any statements in this document do not create new warranties or modify any existing warranty.

Warranty
2 Years**
Maximum operating altitude 12,000 ft

* NEMA 4X rating requires installation with customer supplied gasket between the unit and the enclosure wall.
** See Eaton Bussmann SPD Limited Warranty Statement (3A1502) for details at www.cooperbussmann.com/Surge.

Voltage ratings
SurgePOD™ PRO UL Type 1 surge protective device

EasyID LED status indicator

- **GREEN LED = Good**
  - The circuit is energized and protected.
- **RED LED = Replace**
  - The circuit is energized and unprotected.
- **LED is Out / Unlit:**
  - The unit is most likely deenergized.
  - The unit’s leads are disconnected.
  - The unit is damaged.

Authorized personnel should follow all prescribed lockout/tagout and safety procedures in troubleshooting the cause for the above conditions. Opening SurgePOD PRO enclosure will void UL listing and warranty.

**Mounting**
SurgePOD PRO is a panel mount device. It may also be mounted using a customer supplied bracket or directly onto a female threaded conduit fitting.

**Dimensions — in**

- 3.3/8” x 1.1/16” x 1.1/16”
- 2-1/16” x 2-1/16” x 4-1/8”
- 2-1/16” x 2-1/16” x 3-7/16”
- 2-1/16” x 4-1/16” x 7/8”

**Wiring connections**

- **Single-phase**
  - 120V (L-N) 2 Wire
  - Must be installed within 10 feet (3 m) of a bonded neutral-ground connection per IEEE C62.41-1991.
  - Catalog number: SPP40SP11205N

- **Two-pole with Neutral (split-phase)**
  - 120V (L-N) / 240V (L1-L2), single-phase (split) center tap
  - For installations at or less than 10 feet (3m) from the transformer.
  - Catalog number: SPP40SP2240PN

- **Delta + Ground**
  - 240V, 480V (L-L) 3 wire Delta + Ground
  - Catalog numbers: SPP40SP3240DLG, SPP40SP3480DLG

**Installation Steps**

1. Inspect the unit to determine:
   - It has the correct nominal system and MCOV/ratings and is the correct configuration for the installation (see unit label or table on page 1 for specifications)
   - It is not damaged. If the unit is not correct or is damaged, do not install it. Secure a proper replacement before proceeding with the installation.

2. Deenergize panel or equipment and follow established lockout / tagout procedures.

3. Select a location on the panel or equipment that allows the leads to reach their intended connection points and permits positioning the SurgePOD Heavy Duty so that the LED status indicator is visible. A location that permits the shortest lead lengths is preferred.

4. Remove the locknut from the unit and insert leads through the panel wall to the interior being careful not to damage the conductor insulation. Reinstall locknut and tighten to 20.3 lb-in (2.3N•m).

5. Remove the knockout from the unit and insert leads to the SPD and enclosure wall.

6. For optimum performance, trim the leads to the shortest length possible and avoid sharp bends. Note: lead lengths shorter than six inches will void the warranty. Make wire connections for the type of system being protected and torque terminals to the manufacturer’s specifications.

7. Energize panel or equipment and verify the LED status indicator is ON and Green (see easyID LED status indicators on this page).

**Notes**:
- It has the correct nominal system and MCOV/ratings.
- It is not damaged. If the unit is not correct or is damaged, do not install it. Secure a proper replacement before proceeding with the installation.
- Make wire connections for the type of system being protected and torque terminals to the manufacturer’s specifications. NOTE: Keep SPD leads as short as possible with minimum bending. Lead lengths as close to, but not less than six inches provide optimum performance.
- It is not damaged. If the unit is not correct or is damaged, do not install it. Secure a proper replacement before proceeding with the installation.
- Deenergize panel or equipment and follow established lockout / tagout procedures.
- Select a location on the panel or equipment that allows the leads to reach their intended connection points and permits positioning the SurgePOD Heavy Duty so that the LED status indicator is visible. A location that permits the shortest lead lengths is preferred.
- Remove the locknut from the unit and insert leads through the panel wall to the interior being careful not to damage the conductor insulation. Reinstall locknut and tighten to 20.3 lb-in (2.3N•m).
- If installing outdoors, or an application requiring a NEMA 4X rating, seal the conduit nipple with an appropriate gasket / watertight fitting (not included) between the unit and the enclosure wall.
- For optimum performance, trim the leads to the shortest length possible and avoid sharp bends. Note: lead lengths shorter than six inches will void the warranty. Make electrical connections appropriate for the application (see wiring diagrams on this page). If your electrical system is not represented in the circuit diagrams, contact our Application Engineering for assistance: FuseTech@eaton.com.
- Energize panel or equipment and verify the LED status indicator is ON and Green (see easyID LED status indicators on this page).
- If your electrical system is not represented in the circuit diagrams, contact our Application Engineering for assistance: FuseTech@eaton.com.

**Catalogs**
- SPP40SP11205N
- SPP40SP2240PN
- SPP40SP3240DLG
- SPP40SP3480DLG

**Wiring Diagrams**
- Single-phase:
  - 120V (L-N) 2 Wire
  - Must be installed within 10 feet (3 m) of a bonded neutral-ground connection per IEEE C62.41-1991.
  - Catalog number: SPP40SP11205N

- Two-pole with Neutral (split-phase):
  - 120V (L-N) / 240V (L1-L2), single-phase (split) center tap
  - For installations at or less than 10 feet (3m) from the transformer.
  - Catalog number: SPP40SP2240PN

- Delta + Ground:
  - 240V, 480V (L-L) 3 wire Delta + Ground
  - Catalog numbers: SPP40SP3240DLG, SPP40SP3480DLG

**LED Color/Status Indicators**

- **EasyID LED status indicator**
  - The unit needs replacing.
  - The unit is damaged.
  - The circuit is most likely deenergized.
  - The unit’s leads are disconnected.
  - The unit is damaged.

Authorized personnel should follow all prescribed lockout/tagout and safety procedures in troubleshooting the cause for the above conditions. Opening SurgePOD PRO enclosure will void UL listing and warranty.

**Dimensions**

- 3.3/8” x 1.1/16” x 1.1/16”
- 2-1/16” x 2-1/16” x 4-1/8”
- 2-1/16” x 2-1/16” x 3-7/16”
- 2-1/16” x 4-1/16” x 7/8”

**Wiring Connections**

- **L (Black)**
- **N (White)**
- **L1 (Black)**
- **L2 (Black)**
- **L3 (Black)**
- **N (White)**
- **GND (Green)**
- **Black**
- **Black**
- **White**
- **White**
- **Black**
- **Black**
- **White**
- **White**
- **Green**
- **Green**
- **Black**
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