Eaton® PSPD Series

Installation Manual



Powering Business Worldwide

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Chapter 1 Introduction

1.1 Manual Organization

This Installation Manual describes the safe installation, testing and operation of the Eaton® PSPD Series Surge Protective Device (SPD).

1.2 Product Overview

The Eaton PSPD Series protects critical electrical and electronic equipment from damage by power surges. This is done by shunting high energy lightning surges (and other transient disturbances) away from the equipment being protected. It does this in nanoseconds by providing a low impedance surge path to ground while supporting power frequency voltage.

The Eaton PSPD Series is designed to mount on the wall (or other vertical surface) as close as possible to the electrical cabinet. The SPD Series is available in voltage ratings from 120-600V AC, surge current capacity ratings from 50kA to 400kA, and NEMA 1, NEMA 4 or NEMA 4X enclosures.

The Eaton PSPD Series is available in three feature packages (Basic, Standard and Standard with Surge Counter). Each model is available in delta, wye, single phase and split phase wiring configurations.

All Eaton PSPD Series models have been tested and certified by Underwriter's Laboratory (UL®), to comply with UL Standard 1449, 5th Edition.

Eaton's one-port low-voltage surge protective device delta models PSPD120480D3M, PSPD160480D3M and PSPD200480D3M meet the requirements of IEC 61643-11 / EN 61643-11, Part 11: Test Class II, and are intended to be installed in applications with a degree of protection rated IP 20.

1.3 Safety Precautions

⚠WARNING

- Improper installation could cause death, injury and equipment damage. Follow all warnings and cautions. Completely read and understand the information in this manual before attempting to install or operate this equipment.
- Always verify that no voltage is present before proceeding with the task and always follow all safety procedures.
- Shock hazard – do not open. No serviceable parts
- Arc flash during installation could cause injury or death. Use appropriate safety precautions, PPE and equipment for arc flash protection.
- Installing a protection device which is under rated for the electrical system voltage can create a potentially hazardous condition
- Hazardous voltages are present Inside the SPD during normal operation. Follow all safe work practices to avoid electrical shock.

⚠ AVERTISSEMENT!

Risque de decharge electrique – ne pas ouvrir. Aucune pièce remplacable ou réparable

⚠CAUTION

A licensed/qualified electrician must complete all instructions in this manual in accordance with the national electric code (NEC®), state, and local codes, or other applicable country codes. All applicable local electrical codes supersede these instructions.

⚠ IMPORTANT

For use on circuits delivering up to 200,000 RMS amps.

⚠ IMPORTANT

Convient á des circuits producisant au plus 200,000 A EFF.

⚠ IMPORTANT

Check the facility's grounding system. All grounding, bonding and earthing practices must meet NEC, CEC and local approved practices. A poor ground, or a grounding / bonding violation will seriously affect the SPD's ability to function as specified.

1.4 Getting Help

If help is needed with any of the following:

- A question about any of the information in this manual
- A question this manual does not answer

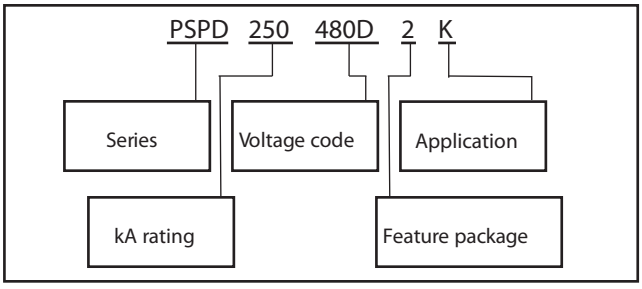
SPD Help:1-800-809-2772 or email SPD@eaton.com

Eaton Help Desk: United States: 1-800-843-9433

1.5 Catalog Numbering System

Each Eaton PSPD Series unit has a name plate that identifies the parameters used for manufacture. These parameters are expressed in letters and numbers, to reflect the Series, kA Rating, Voltage Code, Feature Package, and Application, as shown in Table 1.

Table 1. Catalog Numbering System



For example, a 480 volt Delta (3-wire plus Ground) for use in an panelboard application requires an PSPD model PSPD 250480D2K, where:

PSPD = __PSPD model,

250 = the kA rating (50 – 400 kA),

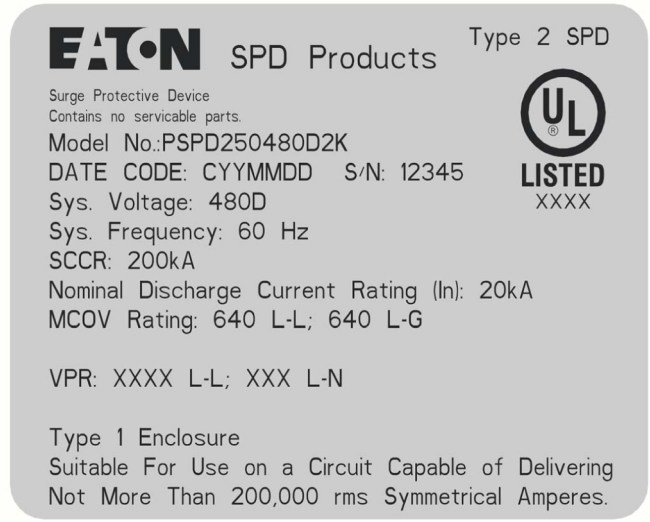
480D = the voltage,

2 = the feature package (Basic, Standard or Standard With Surge Counter)

K = the Application Suffix (NEMA 1 Enclosure).

These numbers appear as part of the product label attached to the front left side of the PSPD. See Figure 1.

Figure 1. Product Labels



1.6 Equipment Testing

⚠WARNING

Conducting dielectric, Megger, or Hi-potential testing with the PSPD installed will cause internal damage to the PSPD. The PSPD will also cause the test to fail.

Every Eaton PSPD Series unit is tested at the factory for dielectric breakdown. No further SPD testing is required for installation.

If you desire to test distribution equipment by performing dielectric, megger, or hi-potential tests, any installed PSPD **must** be disconnected from the power distribution system to prevent damage to the unit.

Follow this procedure to safely disconnect the PSPD:

For PSPDs connected to a circuit breaker or fuse:

- **3-wire Delta PSPDs**: Turn off the circuit breaker or remove the fuses from the fuse holder to isolate the PSPD.
- **Wye and Split phase PSPDs**: Turn off the circuit breaker or remove the fuses from the fuse holder to isolate the PSPD and remove the Neutral connection on Wye connected PSPDs.

Chapter 2 Installation

⚠WARNING

Installing an PSPD that is improperly rated for the electrical system voltage could create a potentially hazardous condition, resulting in injury or equipment damage.

2.1 Preparation for Installation

⚠CAUTION

EATON PSPD series products must be installed or replaced by a qualified electrician to avoid injury or equipment damage.

Before installing a PSPD Series unit, do the following:

- Verify that the area is clear of any dirt, debris or clutter that may hamper the installation process.
- Verify that there is enough space to install the PSPD. See 2.3 *Installation Procedures* for dimensions.
- Confirm that all tools and equipment needed for the installation are available.
- Confirm that the system voltage and wiring configuration is the same as the PSPD you are installing. Check the voltage rating label on the side of the PSPD.

⚠WARNING

Turn off the power supply before working in any electrical cabinet or on any circuit breaker panel. Failure to do so could result in injury or death from electrical shock.

⚠CAUTION

Do not use the PSPD to carry or pass through ground to other devices or leads. Damage to the equipment may result.

NOTICE

– A poor ground, or grounding/bonding violations, could prevent the PSPD from performing as specified.

- Check the facility grounding system. All grounding, bonding, and earthing must meet the NEC and any other national, state and local electrical codes.

2.2 Installation Locations

Eaton's PSPD Series can be installed next to, above, or below any existing electrical enclosure.

The ideal mounting location for the Eaton PSPD Series is as close as possible to the electrical enclosure. The Eaton PSPD Series should be mounted in such a way as to minimize any sharp bends in the wiring conduit.

2.3 Installation Procedures

1. Before mounting the PSPD first determine the ideal location and ensure that the mounting surface is sufficient to support the weight of the PSPD (See Figure 2, Figure 3, Figure 4, Figure 5, and Figure 6 for

model weights). The PSPD should be mounted as close a possible to the electrical enclosure and as close as possible to the wiring connection point within the enclosure. This will ensure a minimum wire length and maximum PSPD performance.

2. Lay out the four enclosure mounting holes using the enclosure dimensions provided in Figure 2, Figure 3, Figure 4, Figure 5, and Figure 6. Drill the appropriate holes per the product dimensions.

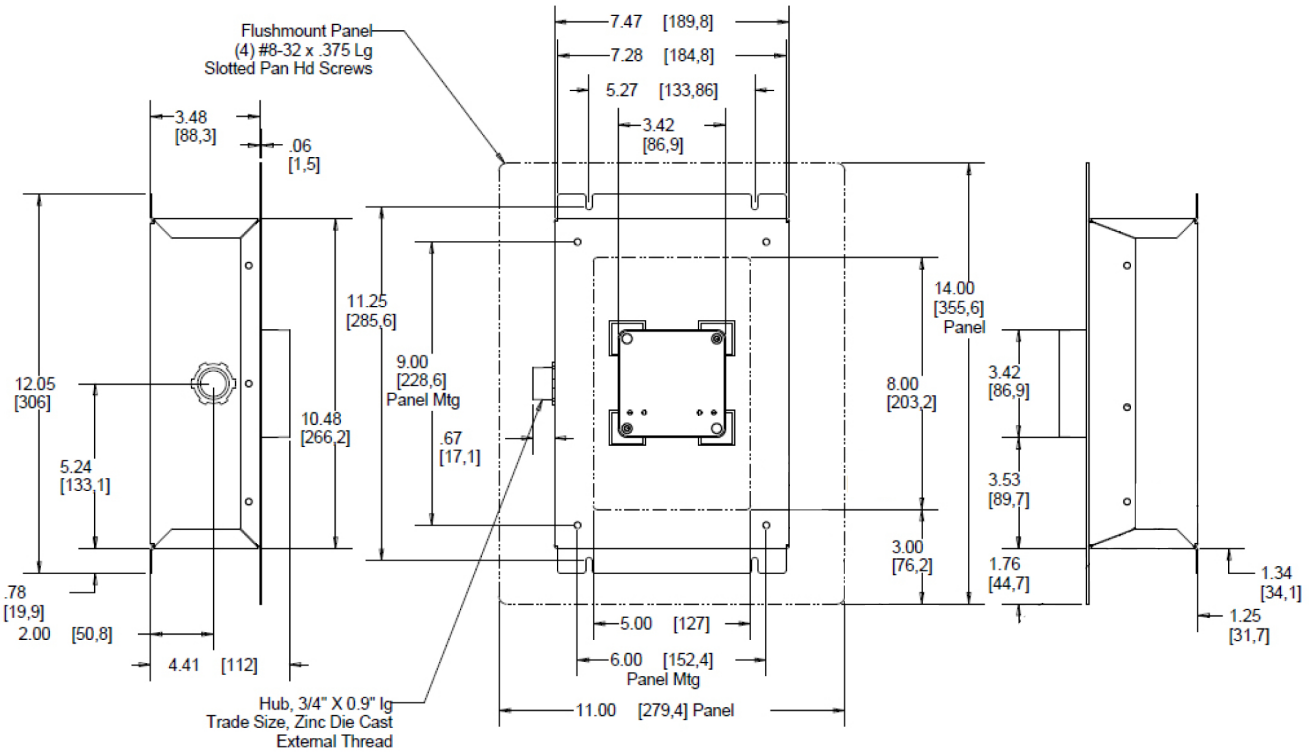
NOTE NEMA 1 enclosures require a #10 fastener.

3. Determine the correct length and install metal conduit onto the PSPD. NEMA 1 PSPDs have a 3/4 inch trade size chase nipple. Route all Phase, Neutral (where applicable), Ground and Form C (where applicable) wires through the conduit.
4. Determine the hole location on the receiving electrical enclosure and either remove the knock-out provided or drill the appropriate size hole at this location. Route the PSPD wires through the enclosure hole and mount the PSPD enclosure.
5. Select the correct wiring diagram for the PSPD you are installing. You must refer to this diagram while wiring the PSPD. See Figure 9 to Figure 13. PSPD Series type 1 and type 2 units do not require over current protection devices, fuses or circuit breakers to operate correctly. All local and national electric codes must be followed during installation and these codes may require protection of the conductors leading to the PSPD unit.
6. Determine the wire length required to make the PSPD Phase connections and cut the wires to the appropriate length. (To maximize PSPD performance, wire length should be as short as possible). Connect the phase wires.

NOTE For wire lengths longer than 4 inches, Phase wires should be twisted once for each 4 inches of wire length to maximize PSPD performance.

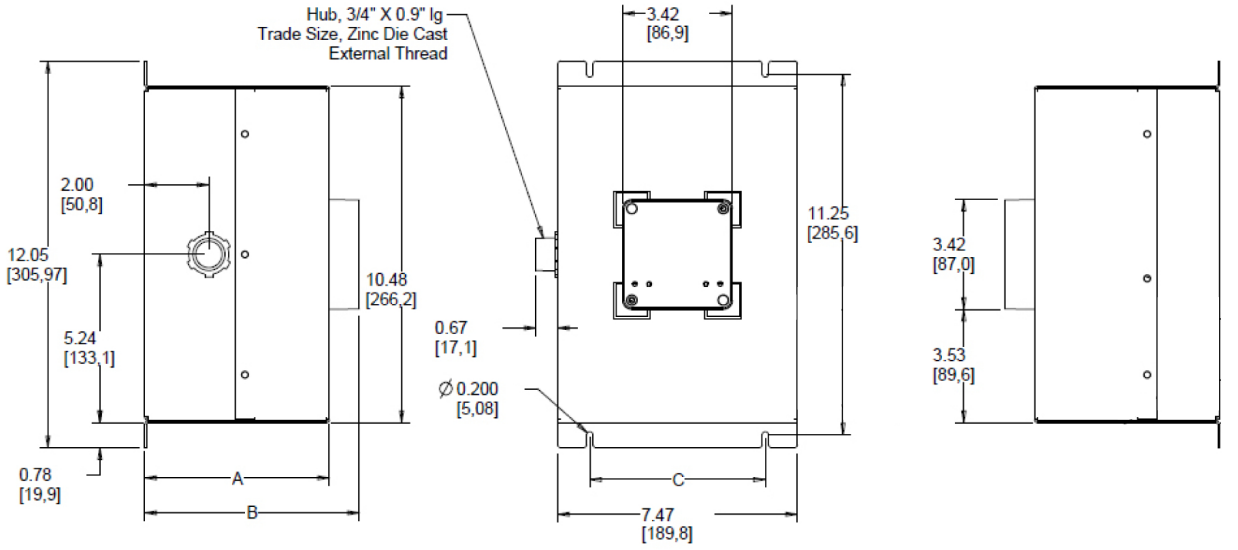
7. Determine the wire length for the Ground and Neutral (where applicable) wires and cut these wires as needed. Again, keep these wires as short as possible to maximize PSPD performance.
8. Standard and Standard with Surge Counter PSPDs provide wiring for Form C relay contacts. This connection can be used for remote monitoring of the PSPD. The Form C contacts are rated at 150 Vac @ 0.46 A or 30 Vdc @ 1 A. Wire the remote monitoring connections per the form C wiring diagram in Figure 8. Follow all NEC, CEC, state and local electrical codes when making these connections.

Figure 2. NEMA (with flushmount) (suffix L)



Weight - 6.8 lb / 3,1 kg

Figure 3. NEMA 1 (suffix K)



	A	B	C
50-200 KA	3.48 / [88,3]	4.41 / [112,0]	5.27 / [133,9]
250-400 KA	5.76 / [146,3]	6.69 / [170,0]	5.47 / [139,0]

Weight - 6.8 lb / 3,1 kg
Weight - 13.5 lb / 6,1 kg

Figure 4. NEMA 4 - 4X (suffix N, P)

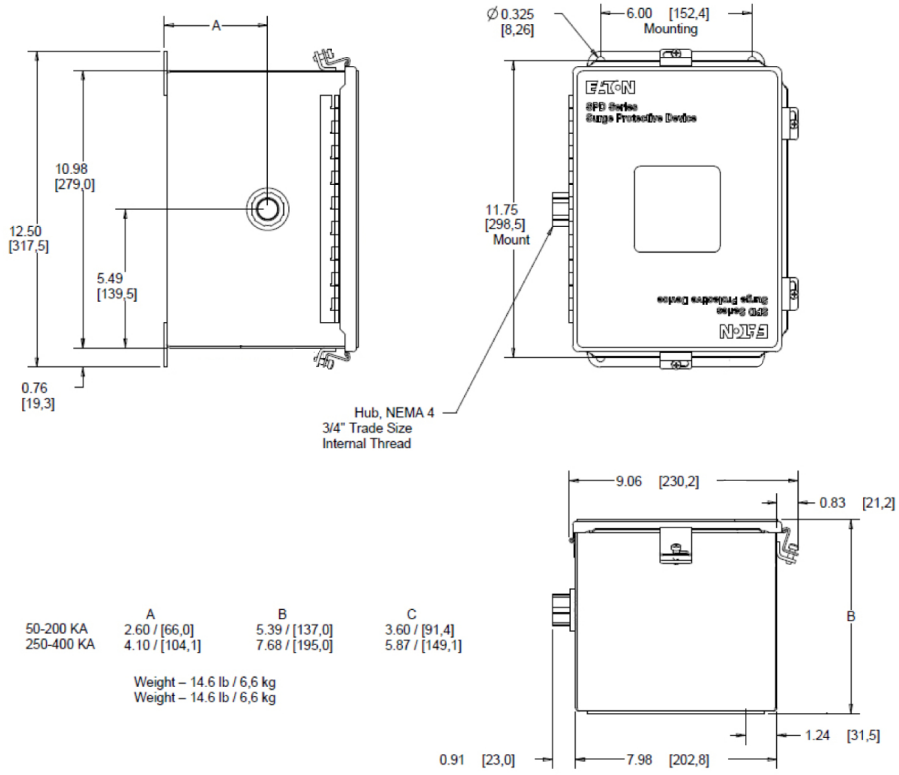
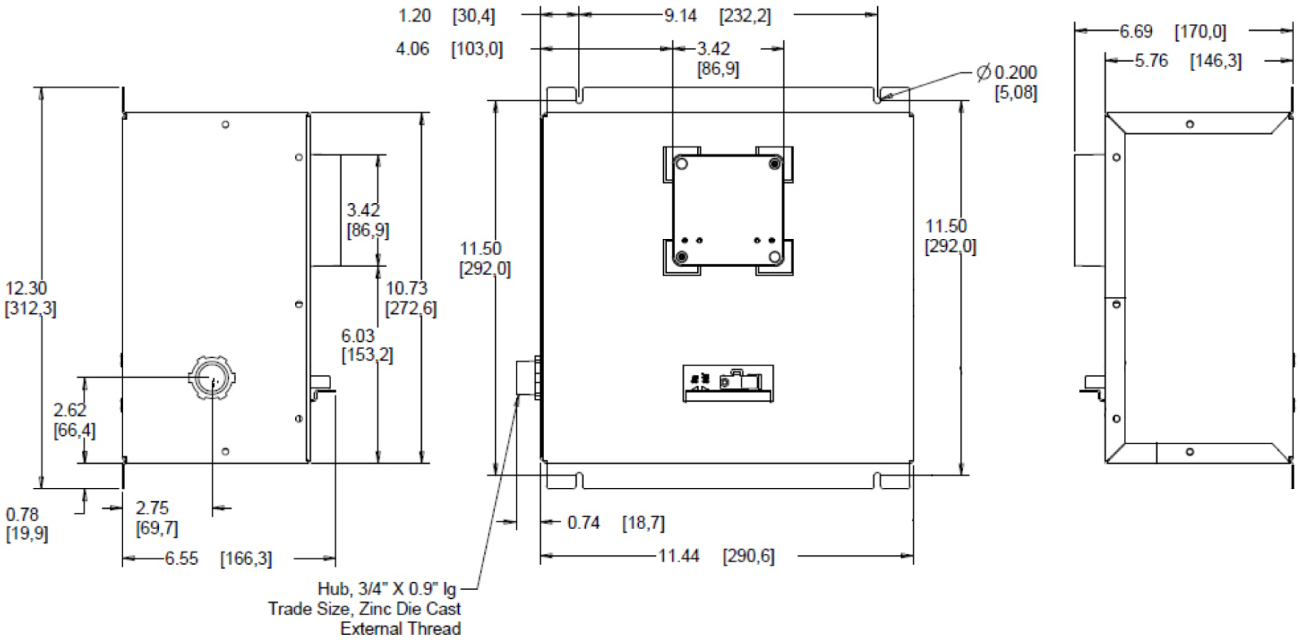
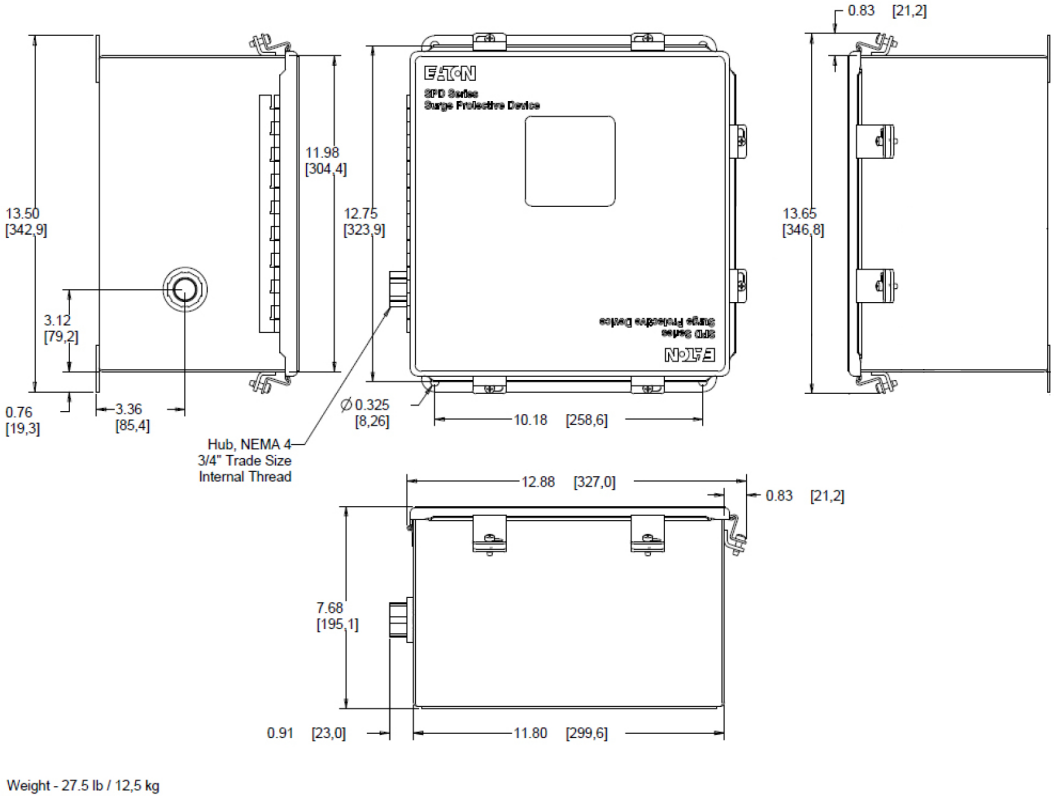


Figure 5. NEMA 1 (with disconnect) (suffix M)



Weight - 14.7 lb / 6,7 kg

Figure 6. NEMA 4-4X (with disconnect) (suffix O, Q) (NEMA 4X not available with Power Xpert SPD)



Weight - 27.5 lb / 12,5 kg

Figure 7. Flush-mount Plate for 50-200 kA Units in a NEMA 1 Rated Enclosure Eaton Catalog P/N: SPDGREYFLUSHMTKIT.

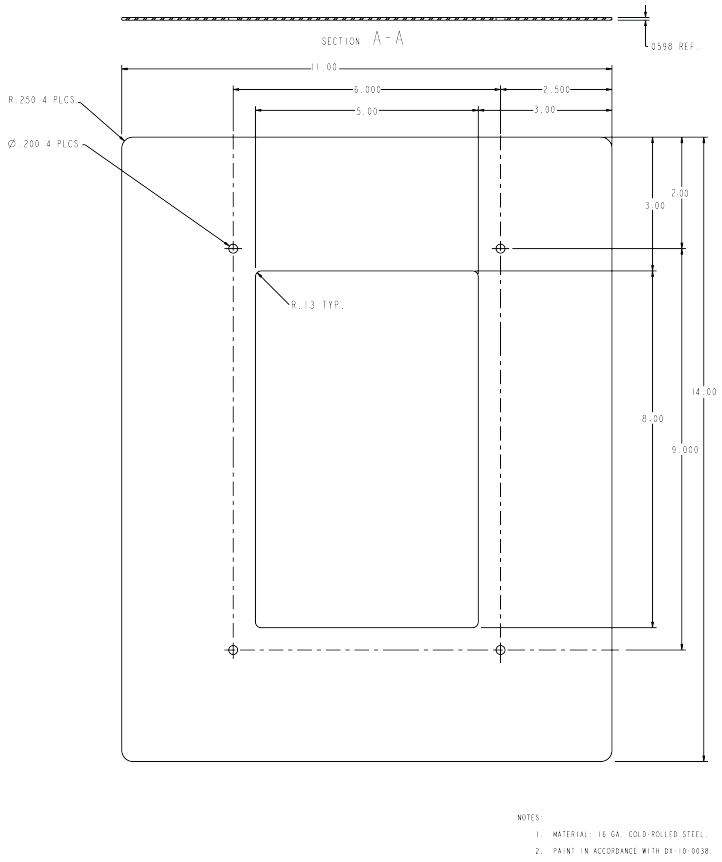


Figure 8. Sidemount Form C Wires

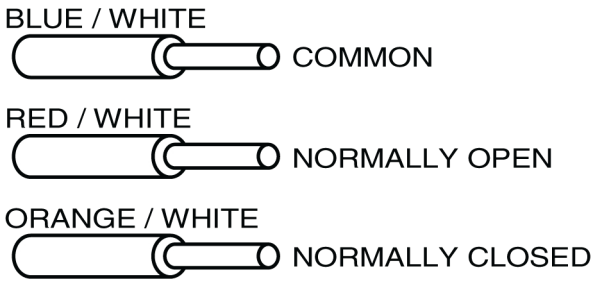


Figure 9. Split Phase Units

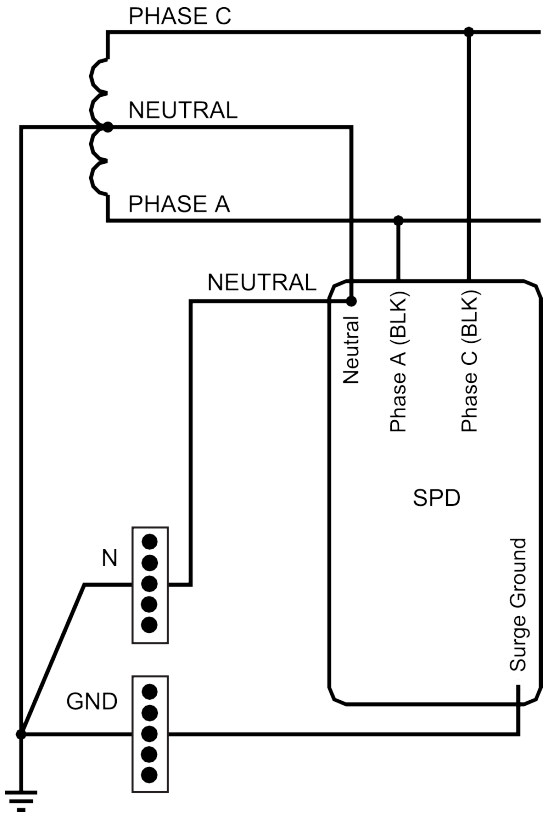
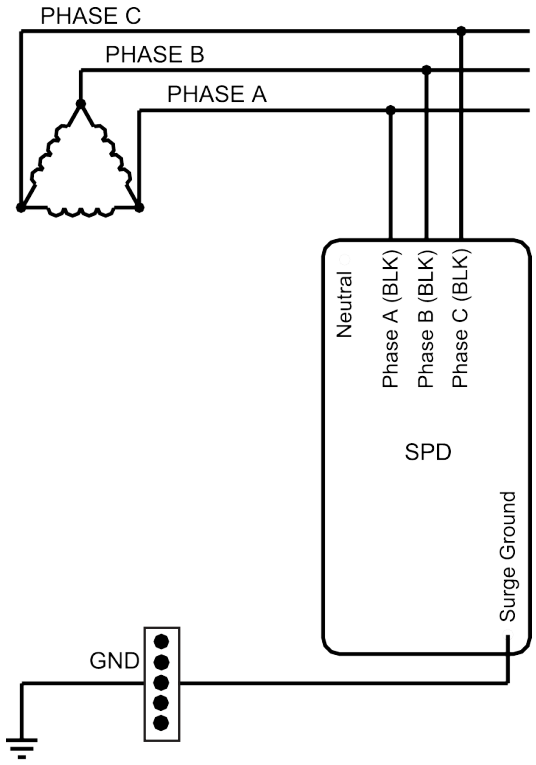


Figure 10. 3-Phase Delta



3-Phase Delta
(No Neutral)

Figure 11. 3-Phase Wye Units

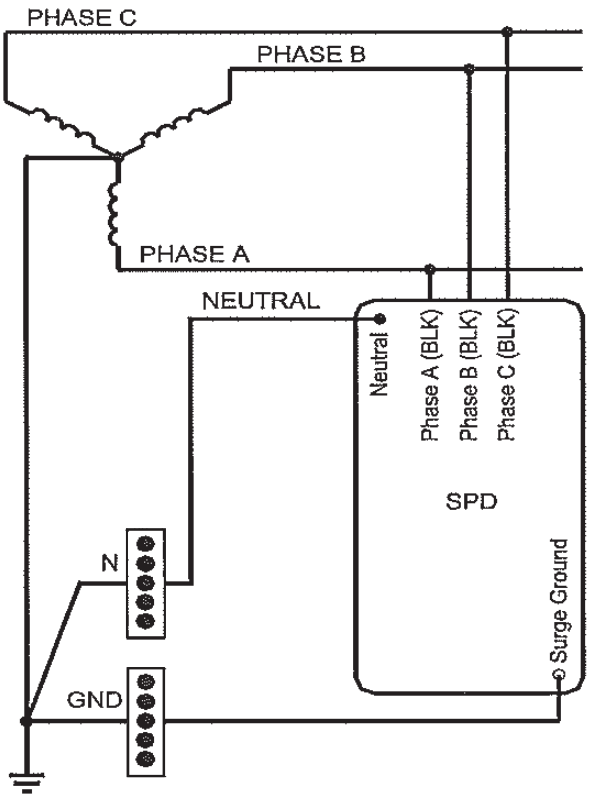
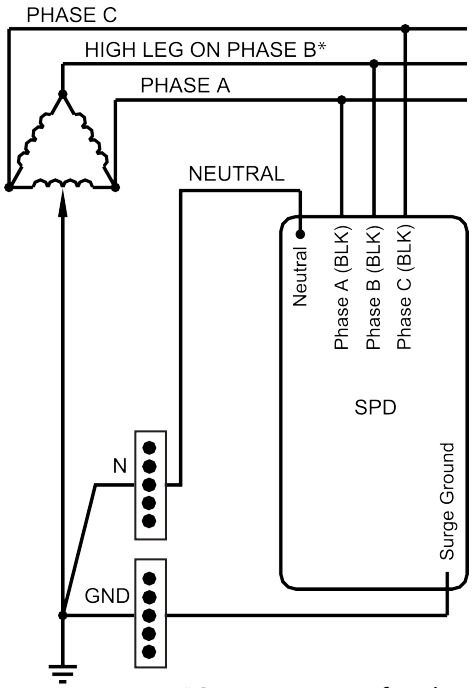


Figure 12. High Leg Delta Units



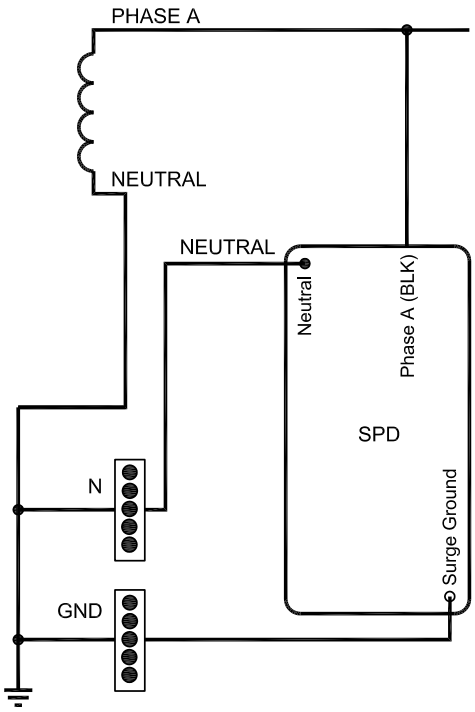
*Contact Factory if High Leg is not on phase B

CAUTION

Damage will occur to the device if the high leg is not on Phase B.

NOTE Please consult the factory for 240 delta high leg applications with high leg on the 'C' phase.

Figure 13. Wiring - Single phase Units (230 L)



Chapter 3 Operating Features

3.1 General

The Eaton PSPD Series comes in three feature packages Basic, Standard and Standard with Surge Counter. The operating specifics of each feature package are described below.

After system power is applied, the PSPD automatically begins protecting downstream electrical equipment from voltage transients.

Twxxx of the four feature packages include a form C relay contact that allows for the remote indication of PSPD status.

3.2 Displays and Indicators

All Eaton PSPD Series units (Basic, Standard and Standard with Surge Counter) use a display panel to indicate system status. The display panel is slightly different for each feature package.

The Basic, Standard, and Standard with Surge Counter display has green and red light emitting diodes (LEDs) to indicate the status of the protection on each phase. Green indicates the phase is fully protected. Red indicates a loss of protection. Wye, split phase and high-leg delta units have an additional set of green/red LEDs to indicate status of neutral/ground protection.

When the LEDs turn red, an audible alarm will also sound on units equipped with an audible alarm.

Specific operating conditions displayed for each Eaton PSPD Series feature package are described in 3.2.1 *Basic Feature Package*.

3.2.1 Basic Feature Package

The Eaton PSPD Basic Feature Package display is shown in Figure 14.

Figure 14. Basic Configuration Display



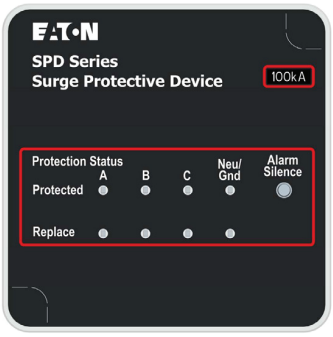
The Basic feature package has the following features:

- Green LEDs: Illumination indicates the phase is fully protected, and operating normally, with all protection active and available. Green LEDs also indicate Neutral to Ground protection on units with a Neutral wire. Green LEDs do not indicate on/off status of power.
- Red LEDs: Illumination indicates a loss of protection, and that one or more protective devices are now inactive and unavailable for that Phase. Red LEDs also indicate Neutral to Ground protection on units with a Neutral wire. Red LEDs do not indicate on/off status of power.

3.2.2 Standard Feature Package

The Eaton PSPD Series Standard Feature Package display is shown in Figure 15.

Figure 15. Standard Feature Package Display



The Standard Feature Package has the following features:

- All features of the Basic Feature Package.
- One form C relay contact rated at 150 Vac at 0.46 A, 30 Vdc at 1A.
- Normal operating conditions. N.O. = OPEN. N.C = CLOSED.
- Loss of protection on any phase or loss of power. N.O. = CLOSED. N.C. = OPEN.
- Audible alarm with Reset push button.
- EMI/RFI filtering.

3.2.3 Standard With Surge Counter Feature Package

The Eaton PSPD Series *Standard With Surge Counter* configuration display panel is shown in Figure 16.

Figure 16. Standard With Surge Counter Feature Package Display



The Standard With Surge Counter Feature Package has the following features:

- All features of the Standard configuration,
- LCD screen that displays surge count.
- Reset button to RESET the surge counter to zero.

Chapter 4 PSPD Display Rotation

The PSPD display can be rotated on the PSPD enclosure, up to 360 degrees. This allows you to position the display for the best visibility regardless of the position in which the PSPD is installed.

Rotations are at 90, 180, and 270 degrees.

Reposition the PSPD display as follows:

1. Remove power from the unit.
2. Remove and discard the perforated overlay material at the two opposite corners of the display.
3. Remove the two Phillips head screws that hold the display.
4. Rotate the display to the desired position. Be careful not to overstress the display ribbon cable.
5. Place the display back onto the PSPD enclosure. Take care not to overstress or crimp the ribbon cable.
6. Replace the two Phillips head screws. Tighten screws to 1.35 Nm (12 in-lbs).
7. Restore power to the unit.

Chapter 5 IEC Approved Models

Eaton's one-port low-voltage surge protective device delta models PSPD120480D3M,P SPD160480D3M and PSPD200480D3M meet the requirements of IEC 61643-11 / EN 61643-11, Part 11: Test Class II, and are intended to be installed in applications with a degree of protection rated IP 20.

The delta models are intended for use with a three-phase TN-S system with PE and neutral distribution, 5 conductor with a minimum 10 AWG or 6 mm^2. The delta models are also intended for use with a three-phase TN-C system with PEN distribution, 4 conductor with a minimum 10 AWG or 6 mm^2. Screws used for connection to ground shall be #10-32 x 3/8" and shall not be zinc or aluminum. This product is not serviceable and contains no replacement parts.

Additional product information and ratings for IEC applications:

- The PSPD contains internal disconnects with a short circuit current rating I_{SCCR} of 200kA.
- Residual current IPE for this product is 5 mA.
- Operating temperature is normal -5°C to 40°C (23°F to 104°F).
- Humidity range is 5% through 95% non-condensing.
- The PSPD may be mounted directly to earthed conductive surface, installed as per this manual.
- Temporary overvoltage rating UT = 402.6 V.
- Withstand or safe failure mode, for tT = 120 minutes, UT = 526 V.
- Modes of protection as marked on a wye SPD = L - L, L - N, L - G(PE), N - G(PE). Modes of protection as marked on a delta SPD = L - L, L - G(PE).

Chapter 6 Troubleshooting

Troubleshooting Feature Packages 1, 2, and 3

Many PSPD failures result from improper installation. Once the SPD is installed properly, it is a highly reliable unit.

If the PSPD does not function properly, first confirm that it is installed properly. See Chapter 2 *Installation*.

If the PSPD malfunctions after it has been routinely operating, refer to Table 2

This Troubleshooting Chart identifies possible causes and solutions to the malfunction. Further assistance may be obtained by calling Eaton's Applications Engineers, at 1-800-809-2772, option 4, sub-option 2, including being directed to the warranty process if applicable.

Table 2. Troubleshooting Chart

Condition	Probable Cause	Solution
Green LEDs ON (1 per phase) and one Green LED ON for Neutral/ Ground Protection	Normal operation	N/A
Audible Alarm OFF, Form C (N.C.) contact in the CLOSED state	Normal operation	N/A
Phase Green LED is OFF, same Phase Red LED is ON, Audible Alarm is ON	Phase protection compromised or lost Extended Temporary Overvoltage (TOV) Significant surge event	Replace SPD Check electrical system for TOV sources, correct, replace SPD Replace SPD
Neutral/Ground Green LED is OFF, Neutral/Ground Red LED is ON, Audible Alarm is ON (for models with Neutral connections)	Neutral/Ground protection is compromised or lost Significant surge event	Replace SPD Replace SPD
All Phase Green LEDs OFF, all phase RED LEDs ON, Audible Alarm is ON	All phase protection is compromised or lost SPD rated voltage is less than system voltage Extended Temporary Overvoltage (TOV) Significant surge event	Replace SPD Replace SPD with correct voltage model Check electrical system for TOV sources, correct, replace SPD Replace SPD
One of the display panel Red LEDs is ON. Audible Alarm is OFF	Audible Alarm Silence button has been depressed and Alarm is silenced	Normal operation If power is cycled and a fault condition still exists, the Audible Alarm will reactivate
All Green and Red LEDs are OFF, LCD display (on Surge Counter models) is OFF	SPD is not connected to a power source	Check system voltage at SPD connection Check SPD connections
One phase has neither a green or red LED lit.	Ribbon cable is not connected properly. Ribbon cable is mis-aligned with connector.	Verify ribbon cable and connector are properly aligned and fully seated together.
All phase LEDs are green, audible alarm is on.	Insufficient voltage to the power supply.	Replace SPD.

Chapter 7 Specifications

Table 3. Specifications

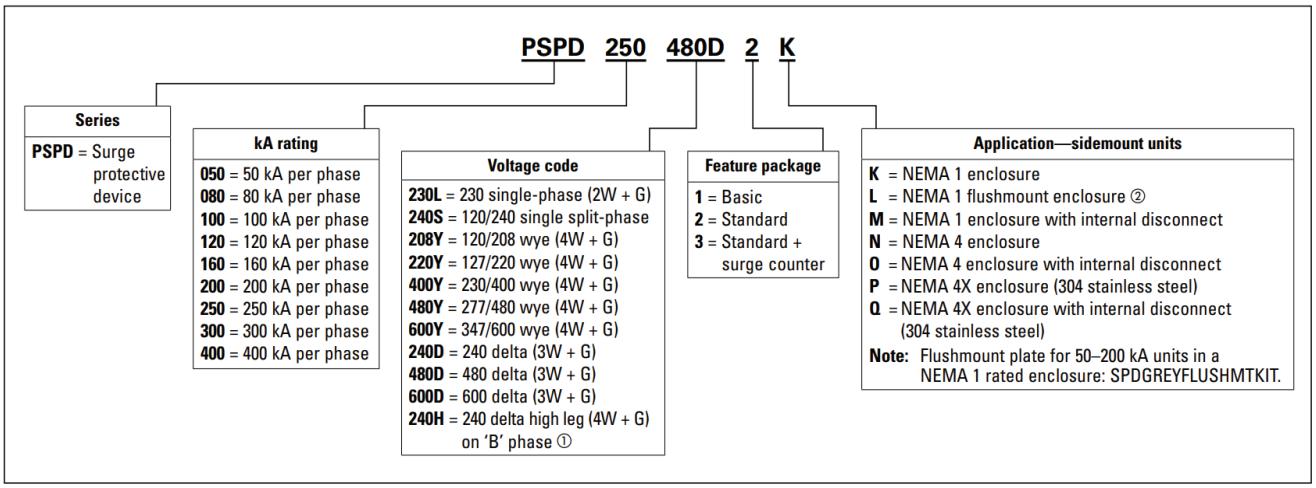
Description	Specification
Surge current capacity per phase	50, 80, 100, 120, 160, 200, 250, 300, 400 kA ratings available
Nominal discharge current (I_n)	20kA
Short circuit current rating (SCCR)	200kA
SPD Type	Basic feature package = Type 1 (can also be used in Type 2 applications) Standard and Standard with Surge Counter feature packages = Type 2
Enclosure Types	NEMA 1, NEMA 4, NEMA 4X (304 SST) (Power Xpert SPD not available in NEMA 4X)
Standard split phase voltages available	120/240
Single phase	230
Three phase wye system voltages available	120/208, 127/220, 230/400, 277/480, 347/600
Three phase delta system voltages	240, 480, 600
Three phase high leg delta system voltages	120/240
Phase wire length	48" of 10AWG extend beyond the conduit hub
Relay wire length (optional)	48" of 14AWG extend beyond the conduit hub
RoHS Compliant	Yes
Internal Disconnect (optional)	Eaton 30 Amp FDC Circuit Breaker, Type MCCB
Input Power Frequency	50/60 Hz, Power Xpert SPD
Power consumption (Basic units) 208Y, 240S, 240D, voltage codes 400Y, 480Y and 480D voltage codes 600Y and 600D voltage codes	 0.5W 1.1W 1.3 W
Power consumption (Standard and Standard with Surge Counter units) 208Y, 220Y, 230L, 240S, 240D, and 240H voltage codes 400Y, 480Y, and 480D Basic voltage codes 600Y and 600D voltage codes	 0.6W 1.7W 2.1 W
Power consumption (Power Xpert SPD units) 208Y, 220Y, 230L, 240S, 240D, and 240H voltage codes 400Y, 480Y, and 480D voltage codes 600Y and 600D voltage codes	 4 W 4 W 4 W
Phase Protection	Single split phase L-N, L-G, N-G, L-L Single phase L-N, L-G, N-G Three phase wye L-N, L-G, N-G, L-L Three phase delta L-G, L-L Three phase high leg delta L-N, L-G, N-G, L-L, H-N, H-G, H-L

Table 3. Specifications (Continued)

Maximum Continuous Operating Voltage (MCOV)	
208Y, 220Y, 240S voltage codes	150 L-N, 300 L-G, 150 N-G, 300 L-L
230L	320 L-N, 640 L-G, 320 N-G
240H	150 L-N, 300 L-G, 150 N-G, 300 L-L, 320 H-N, 470 H-G, 470 H-L
400 and 480Y voltage codes 600Y	320 L-N, 640 L-G, 320 N-G, 640 L-L
600Y voltage code	420 L-N, 420 L-G, 420 N-G, 840 L-L
240D voltage code	300L- L-G, 300 L-L
480D voltage code	640 L-G, 640 L-L
600D voltage code	840 L-G, 840 L-L
Ports	1
Operating temperature	-40° C to 50° C (-40 F to 122° F), Power Xpert Surge protection (-40° C to 50° C), Power Xpert LCD module (-20° C to 70° C)
Operating humidity	5% through 95%, non-condensing
Operating altitude	Up to 16,000 ft (5000 m) Power Xpert SPD up to 6561 ft (2000 m)
Weight	Reference Figure 2- Figure 6
Form C relay contact ratings	150 Vac at 0.46 A, 30 Vdc at 1 A, terminal block connector rated 300 V, 16 A suitable for use with 30-12 AWG solid or stranded copper wire. Torque 5-7 lbs-in.
Form C relay contact logic	Power on, normal state - NO contact = OPEN, NC contact = CLOSED Power off, fault state, - NO contact = CLOSED, NC contact = OPEN
Form C relay contact logic	Power on, normal state - NO contact = OPEN, NC contact = CLOSED Power off, fault state, - NO contact = CLOSED, NC contact = OPEN
Real time clock accuracy, Power Xpert SPD	synchronized when connected to a network via an Ethernet cable, +/- 2 min/month @ 25°C when not connected to a network
EMI/RFI filtering attenuation (Standard and Standard with Surge Counter and Power Xpert SPD)	Up to 50 dB from 10 kHz to 100 MHz
Ethernet port	Data rate 100/10 Mbps, wire type: equal or exceed 5 UTP category 5, use of STP (shielded twisted pair) will improve EMI performance. Connector type: RJ45 modular, ground metal shield
Agency certifications and approvals Feature packages 1, 2, and 3	UL 1449 5th Edition listed, UL 1283 7th Edition (type 2 SPDs only) IEC 61643-11/EN 61643-11, Part 11: Test Class II. See Section 11.0 Ordering guidelines for specific models.
Agency certifications and approvals Feature package 4 (Power Xpert SPD)	cULus certified, UL1449 5th Edition listed, UL1283 7th Edition IEC 61643- 11/EN 61643-11, Part 11: Test Class II. See Section 11.0 Ordering guidelines for specific models.
Warranty	10 years, 15 years if you register on www.eaton.com/spd and then click the warranty registration icon.
ROHS compliant	Yes
Wire length and AWG	Factory pre-wired with 48 inches of #10 AWG wire.

Chapter 8 Ordering Guidelines

Figure 17. Eaton PSPD Series



Example: PSPD250480D2K = PSPD Series, 250 kA per phase, 480D voltage, standard feature package, housed in NEMA 1 enclosure

① Please consult the factory for 240 delta high leg (4W + G) applications with high leg on 'C' phase.

② NEMA 1 flushmount units are available in 50–200 kA ratings only.

** Eaton's delta catalog numbers PSPD120480D3M, PSPD160480D3M and PSPD200480D3M meet the requirements of IEC 61643-11 / EN 61643-11, part 11: Test Class II, and are intended to be installed in applications with a degree of protection rated IP 20.

Chapter 9 Warranty

Eaton warrants these products for a period of 10 years from the date of delivery to the purchaser, 15 years if you register on www. eaton.com/spd and click the warranty registration icon 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 dam- ages 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 can only be repaired or replaced by the factory. For help on troubleshooting the SPD, or for warranty information, call 1-800-809-2772 or email SPD@eaton.com. Repair or replacement units 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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