PSP PRODUCTS

Category 3 Hurricane

Panel Surge Protector

Installation Instructions

1. Preparation for Install of Surge Protection Device (SPD)

A. Verify the system voltage and wiring configuration is the same as the enclosed SPD by metering the panel voltage and checking it against the product label located on the SPD.



B. Review the installation area to ensure the proper space is available to properly mount and install the SPD. The enclosure should be mounted no more than 3 feet away from the distribution panel.

C. Check that the building's facility grounding system meets all NEC & CEC requirements as well as local codes. A low resistance ground system is essential to the proper functioning of any SPD. The soil resistance level should be no more than 25 Ohms (less than 5 Ohms is ideal). This can be verified by performing a soil resistivity test.

2. Location of Surge Protection Device (SPD)

For service entrance applications or for feeder/sub-panel applications, install the SPD directly adjacent to swtichgear, panel board or disconnect.

IMPORTANT! Remember to keep conductor lead length to a maximum of 3ft or less.

3. Wiring of Surge Protection Device (SPD)

A. TURN OFF the power to the distribution panel where the SPD will be installed.

Optional: Install a circuit breaker to feed the SPD. This will allow safety personnel to remove power from the device in order to diagnose or service the unit. In addition, the device incorporates internal fusing, UL & CSA approved, that will protect against short circuit fault conditions within the unit.

B. Nipple mount SPD, or install either a rigid or flexible metal conduit between the SPD and the distribution panel.

C. Run wires of SPD to distribution panelboard - *See wiring diagrams for details.*

D. Ensure proper color codes: *Table 1.*

E. Tighten and recheck all connections.

F. If remote monitoring is employed, connect the form "C" contacts to the building monitor system or independent alarm, i.e. addressable relay. Contact relays will accept up to 1A/220 VAC. The dry contact terminals are N/O (normally open), N/C (normally closed) and COM (common). *Diagram 1.*

NOTES: *Check wiring before applying power.*

4. Buttons

A. Reset: Resets the surge counter to zero.

B. Counter: Displays number of surge events.

C. Test: Simulates a fault by lighting up LEDs and playing the audible alarm.

D. Silence: Silences audible alarm when a fault has occurred.

Table 1

Wire	Color
Ground	Green or Green/Yellow
Neutral	White
Hot	Black Orange: High-Leg Delta
L, N Wires #10 AWG, G Wire #8 AWG	

Important: Risk of electrical shock. This device should only be installed by qualified personnel.

Scan the QR code or visit pspproducts.com to learn more about this product's warranty.

Technical Assistance Call: 703-687-4507

Diagram 1

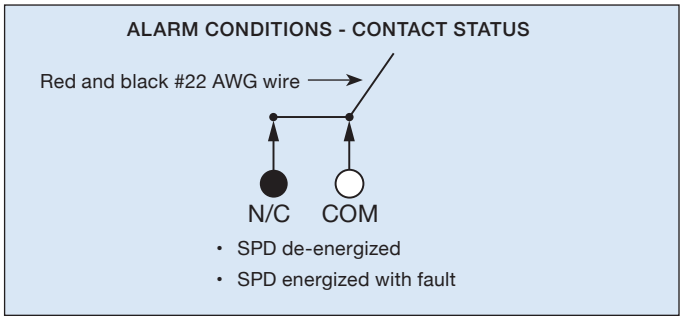


Figure 1

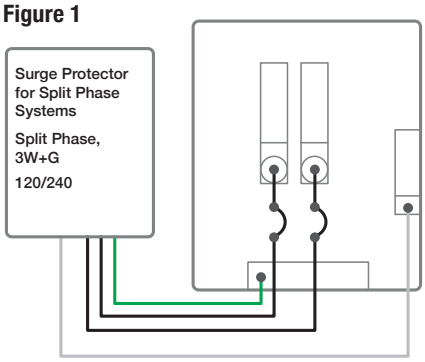


Figure 2*

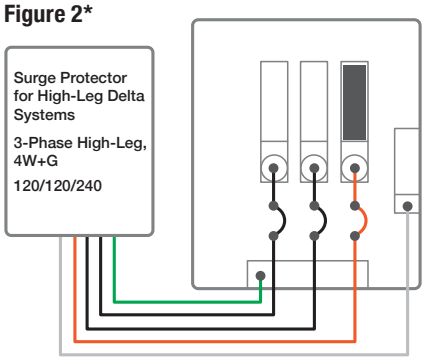


Figure 2. Please verify voltage on all three legs before installing surge protector. Incorrect installation will void warranty.

Figure 3

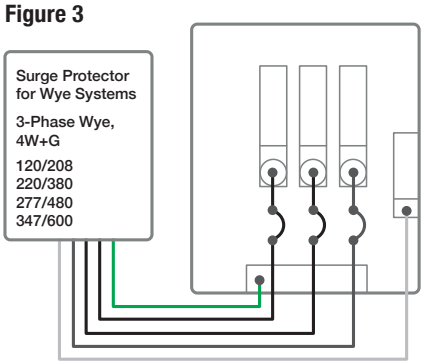
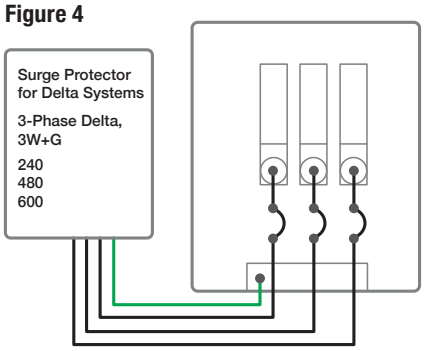
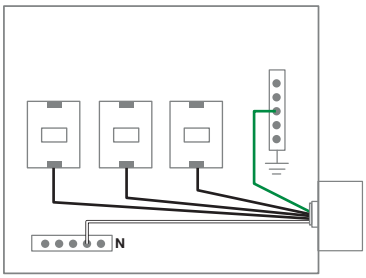
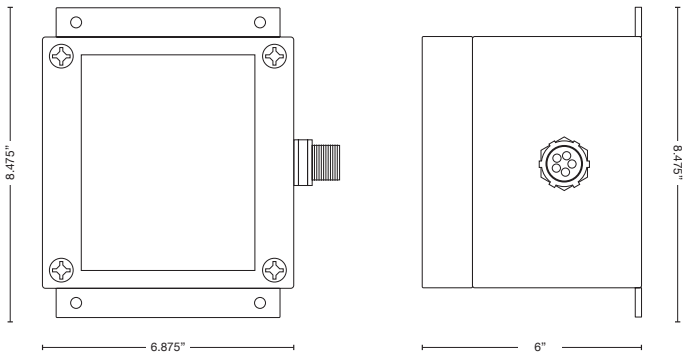


Figure 4



Type 1 Disconnect Installation Diagram





Voltage	Phases	Wires	Neutral	Diagram
120/240 VAC	Split Phase	3W+G	Yes	Fig. 1
120/120/240 VAC	3-Phase High-Leg Delta	4W+G	Yes	Fig. 2
120/208 VAC	3-Phase Wye	4W+G	Yes	Fig. 3
220/380 VAC	3-Phase Wye	4W+G	Yes	Fig. 3
277/480 VAC	3-Phase Wye	4W+G	Yes	Fig. 3
347/600 VAC	3-Phase Wye	4W+G	Yes	Fig. 3
240 VAC	3-Phase Delta	3W+G	No	Fig. 4
480 VAC	3-Phase Delta	3W+G	No	Fig. 4
600 VAC	3-Phase Delta	3W+G	No	Fig. 4