



Omni-Phase OSW and OSE Transient Voltage Surge Suppressor (TVSS)



INTRODUCTION

The Omni-Phase OSW and OSE Surge Protective Devices (SPD) are designed to provide protection at the service entrance, branch panels or other critical locations.

PRECAUTIONS

DANGER

HAZARD OF ELECTRIC SHOCK, BURN OR EXPLOSION.

- This equipment must be installed and serviced only by qualified electrical personnel in accordance with National and Local Electrical Codes.
- Turn off all power supplying this equipment before working on or inside enclosure containing this equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

WARNING

Not for use on ungrounded systems.

Failure to follow these instructions can result in death or serious injury.

CAUTION

HAZARD OF EQUIPMENT DAMAGE.

- Megger[®] or hi-potential tests will damage this surge protective device. Turn off all power supplying the equipment and isolate the surge protective device before testing.

Failure to follow these precautions can result in equipment damage.

INSTALLATION

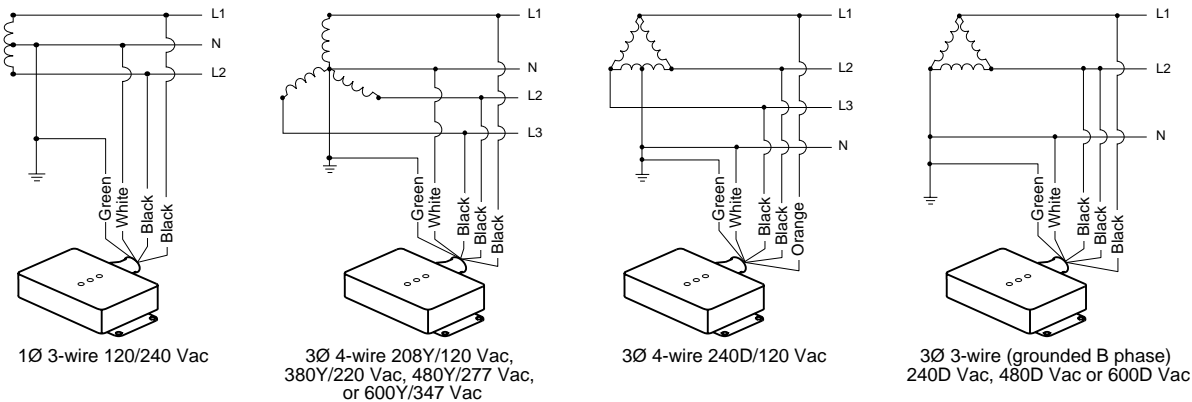
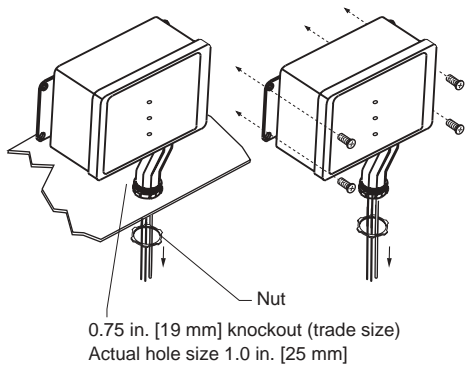
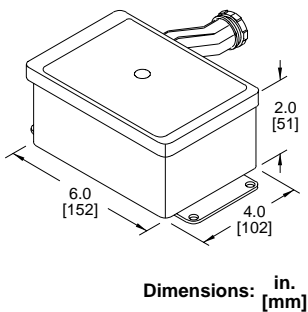


Figure 1: Wiring Diagrams



NOTE: The surge protective device must be installed in an accessible location (not within walls).

Figure 2: Mounting Unit



Dimensions: in. [mm]

Figure 4: Dimensions

1. Turn off all power supplying this equipment before working on or inside any enclosure containing this equipment.
2. Identify proper location for surge protective device. Locate as close as possible to the panel being protected. Mount unit securely, as close to the electrical connection as possible. See Figure 2 for mounting instructions.
NOTE: The surge protective device must be installed in an accessible location (not within walls).
3. Confirm surge protective device is rated for your system by comparing voltage measurements to the Line Voltage (L-L, L-N) on the product label.
4. Install in accordance with National and Local Electrical Codes and match branch circuit breakers to the size of wire being used (up to 30 A circuit breaker).
5. Confirm that the electrical terminals used to attach this device are identified for these conductors.
6. Twist conductors 1/2 turn or more for every 12 inches of length.
7. Do not loop or coil wires. Be sure to maintain adequate wire bending space per NFPA 70 2002 Edition, article 408.35.
8. Use on solidly grounded systems only.

Diagnostic Operation

- LED ON = Normal operation (see Figure 3)
- LED OFF (one or more) = Fault. Check phase voltage, circuit breakers and connections. If OK replace unit.

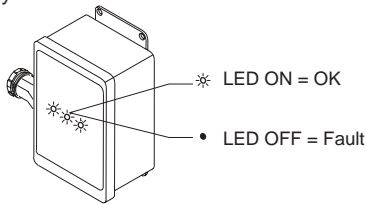


Figure 3: Diagnostic Operation

General Specifications

Max Surge Current	80 kA/Phase
Short Circuit Current Rating	5 kA, 600 V Maximum
Housing Rating	NEMA Type 1
Product Weight	3.05 lbs. (1.38 kg)
Connection Method	Parallel, #10 AWG Stranded Wire
EMI/RFI Noise Rejection	Up to -35 dB (OSW only)
Operating Temperature	-40° to +140°F (-40° to +60°C)
Operating Frequency	50/60/400 Hz
Diagnostics	Green Status LEDs
Product Standards	eULus to UL 1449-2nd Ed, CSA C22.2 No. 0-M91