



Titan 40W Transient Voltage Surge Suppressor (TVSS)



INTRODUCTION

The TITAN 40W Surge Protective Device (SPD) is designed to provide protection at service entrance panels, load centers or electronic compartments.

INSTALLATION

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 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.
- Do not apply petroleum-based products to non-metallic parts.

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

WARNING

Not for use on ungrounded systems.

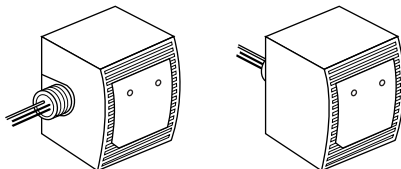
Failure to follow these instructions can result in death or serious injury.

CAUTION

HAZARD OF EQUIPMENT DAMAGE.

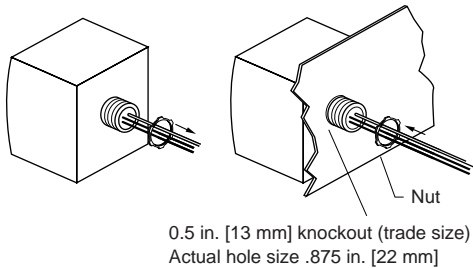
Megger® or hi-potential tests will damage this surge protective device. Turn off all power supplying the equipment and isolate the surge protective device before testing.

Failure to follow these precautions can result in equipment damage.



NOTE: These installation instructions apply to both side-mount and back mount 40W models.

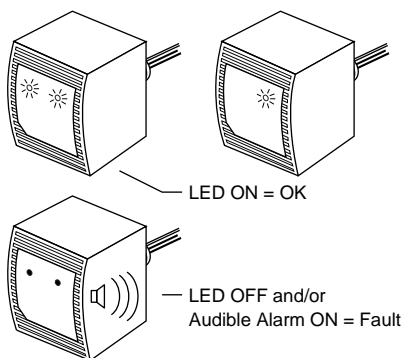
Figure 1: Mounting Unit



NOTE: The Surge Protective Device must be installed in an accessible location (not within walls).

Figure 2: Mounting Unit

TROUBLESHOOTING



NOTE: Audible Alarm not included on LT models.

Figure 4: Diagnostic Operation

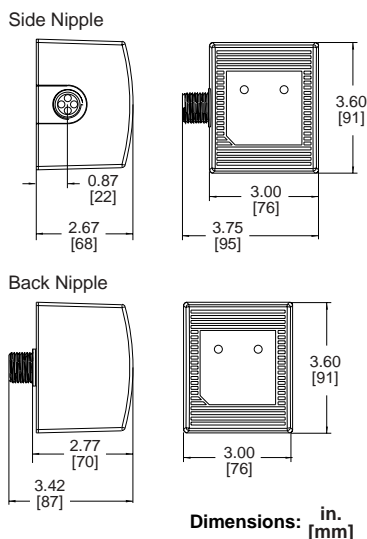


Figure 5: Dimensions

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1. Turn off all power supplying this equipment before working on or inside equipment.
2. For mounting, see Figure 1 and Figure 2.
3. Confirm SPD 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 circuit breakers to the #10 AWG wire (30 Amps maximum).
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. Keep conductor length as short as possible with no sharp bends.
8. Do not loop or coil wires.
9. Use on solidly grounded systems only.

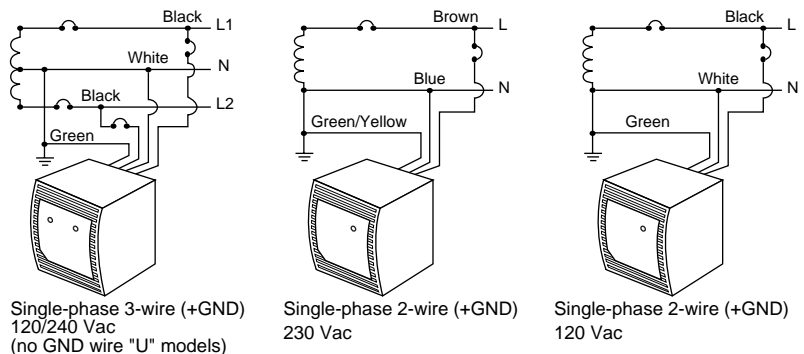


Figure 3: Wiring Diagrams

Diagnostic Operation

- LED ON = OK (see Figure 4).
- LED OFF and/or Audible Alarm ON = Fault. Check breakers and connections. Verify line voltage at point of SPD connection; if all correct replace SPD.

General Specifications

Max Surge Current	40 kA/Phase
Short Circuit Current Rating	22 kA (120/240 V), 5 kA (230 V)
EMI/RFI Noise Rejection	Up to -30 dB
Housing Rating	Type 4X
Product Weight	1.2 lbs
Connection Method	Parallel, #10 AWG Stranded Wire
Thermal Fusing	Yes
Operating Temperature	-40° to +160° F (-40° to +70° C)
Operating Frequency	50/60 Hz
Diagnostics	Green Status LED, Audible Alarm
Product Standards	cULus to UL 1449-2nd Ed and to CSA C22.2 No. 8-M1986, IEC 61643-1

Model	Voltage	Mounting	Diagnostics
T40WB120/240Y	120/240	Back Nipple	Two LEDs, Audible Alarm
T40WS120/240Y	120/240	Side Nipple	Two LEDs, Audible Alarm
T40WB120/240YLT	120/240	Back Nipple	Two LEDs Only
T40WS120/240YLT	120/240	Side Nipple	Two LEDs Only
T40WB120Y	120	Back Nipple	LED, Audible Alarm
T40WS120Y	120	Side Nipple	LED, Audible Alarm
T40WB230Y	230	Back Nipple	LED, Audible Alarm
T40WS230Y	230	Side Nipple	LED, Audible Alarm
T40WB230YLT	230	Back Nipple	LED Only
T40WS230YLT	230	Side Nipple	LED Only
T40WB240U	120/240	Back Nipple	Two LEDs, Audible Alarm
T40WS240U	120/240	Side Nipple	Two LEDs, Audible Alarm