



DITEK Corporation  
ONE DITEK CENTER  
1720 Starkey Road  
Largo, FL 33771

# INSTALL INSTRUCTIONS

D50-277/4803Y, D100-277/4803Y

This Surge Protective Device (SPD) is a high performance device, designed to provide protection for sensitive electronic loads connected to service panels, fire panels, or where the SPD is directly connected to the electronic device. Maximum protection will only be achieved if the SPD is properly installed.

Please read and follow the installation instructions carefully.

**NOTICE:** This SPD should be installed by a licensed contractor in accordance with the National and Local Electrical Codes and the following instructions.

## APPLICATION

Type 1 SPD, Type 2 SPD for hardwired parallel installations on 277/480 VAC three phase circuits.

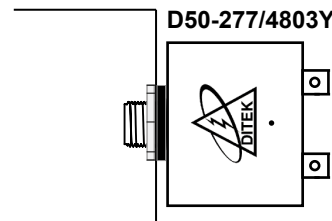
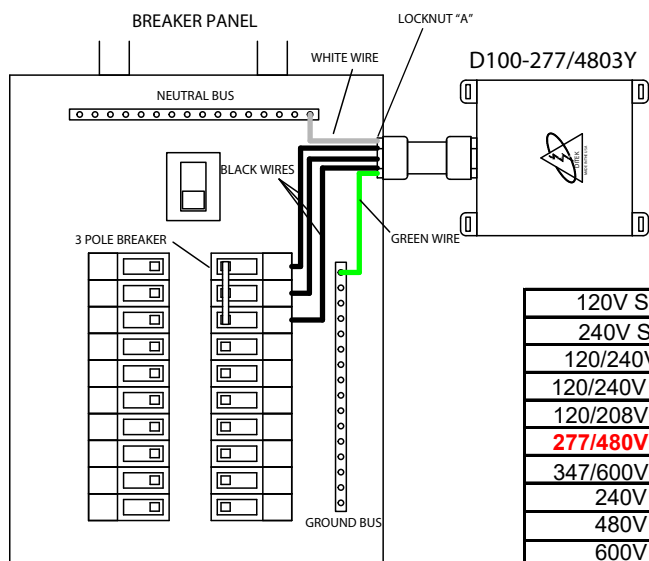
## INSTRUCTIONS:

**Caution:** Measure all voltages to insure applied voltage does not exceed the voltage rating of the unit. Improper installation voids the warranty.

**NOTE:** Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical Amperes.

This SPD Contains no serviceable parts.

1. Turn off the power at the circuit breaker or main disconnect before beginning installation.
  2. Remove front cover from the panel.
  3. Remove 1/2" knockout on side of panel box for D100 models, 3/4" knockout for D50 model.
  4. Make sure the leads are as short as possible with the ground wire being the shortest of all.
  5. For D100 models, Unscrew locknut "A" from the Push-On Connector. The flexible conduit between the connectors can be cut down to size as necessary. See the Illustrations Page on the back side of this document for more information.  
For D50 models, remove 3/4" locknut, leaving the washer in place.
  6. Feed all wires and the nipple through knockout hole then through nut, tighten nut securing the unit.
  7. Connect the Ground wire (Green) to the ground bus making sure the ground wire is as short as possible.
- Ground Resistance Rule:** Max ground resistance is 25 ohms, 5 ohms or less is optimum. This cannot be an assumed value and must be measured to assure proper grounding.
8. Connect the Neutral wire (White) to the Neutral bus of the panel.
  9. Connect the Phase wires (Black) to the line side or load side of the Phase A, Phase B and Phase C, 3 pole breaker.
  10. Securely mount the enclosure using the mounting feet located at each corner.
  11. After all connections have been made and no hazards exist, replace panel cover and restore power.
  12. This device features an internal protection that will disconnect the surge protective component but will maintain power to the load - now unprotected. If this situation is undesirable for the application, follow the manufacturer's instructions for replacing the device.



### Expected System Voltages

|                         | L - L      | HiL-G,N   | L - G              | L - N      | N - G    |
|-------------------------|------------|-----------|--------------------|------------|----------|
| 120V Single Ø           | NA         | NA        | 120                | 120        | 0        |
| 240V Single Ø           | NA         | NA        | 240                | 240        | 0        |
| 120/240V Split Ø        | 240        | NA        | 120                | 120        | 0        |
| 120/240V Hi Leg Δ       | 240        | 240       | 120                | 120        | 0        |
| 120/208V 3 Ø Wye        | 208        | NA        | 120                | 120        | 0        |
| <b>277/480V 3 Ø Wye</b> | <b>480</b> | <b>NA</b> | <b>277</b>         | <b>277</b> | <b>0</b> |
| 347/600V 3 Ø Wye        | 600        | NA        | 347                | 347        | 0        |
| 240V 3 Ø Δ              | 240        | NA        | 240 <sub>Max</sub> | NA         | 0        |
| 480V 3 Ø Δ              | 480        | NA        | 480 <sub>Max</sub> | NA         | 0        |
| 600V 3 Ø Δ              | 600        | NA        | 600 <sub>Max</sub> | NA         | 0        |

Drawn By: B. Aycock 5-19-16

Revised By: R. Mitchell 4-14-2020 **1-888-472-6100** [www.diteksurgeprotection.com](http://www.diteksurgeprotection.com)

**DITEK Technical Support Available 24/7**

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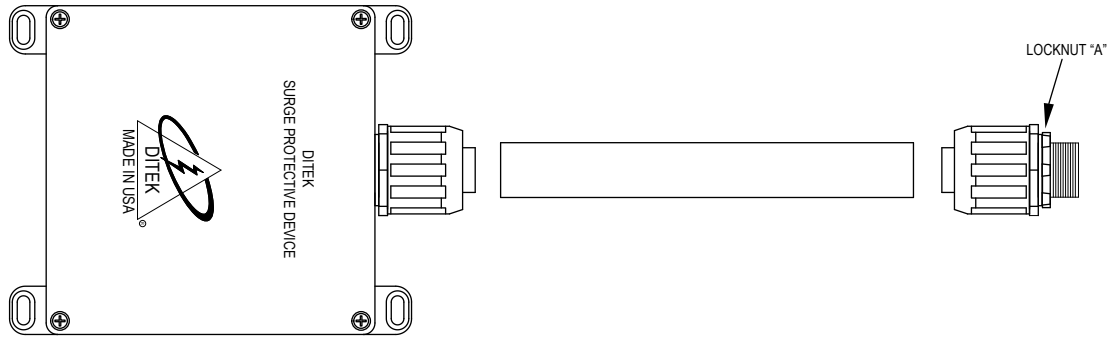
# INSTALL INSTRUCTIONS

D100-277/4803Y

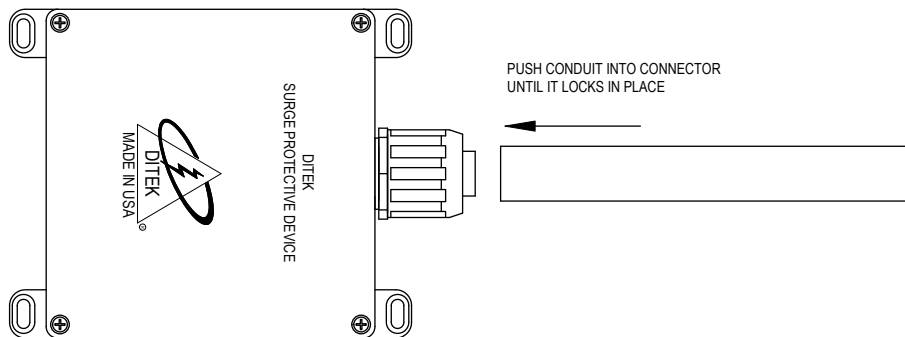
## Illustrations Page

INSTALLATION

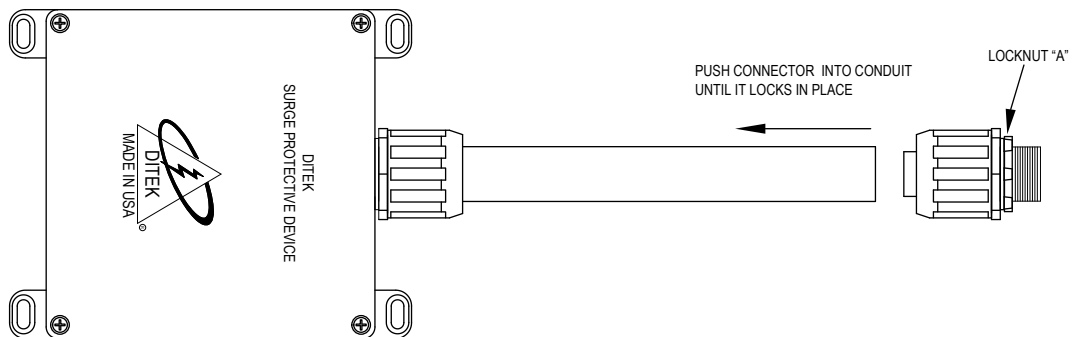
STEP 1



STEP 2



STEP 3



STEP 4

