

# INSTALL INSTRUCTIONS

## D150X-2403D

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

### APPLICATION

Type 1 SPD for hardwired installation on a 240 VAC 3 phase Delta electrical service.

### INSTRUCTIONS:

**Caution:** Measure all voltages to verify applied voltage does not exceed the voltage rating of the unit. Reference the Expected System Voltages chart below. Improper installation voids the warranty.

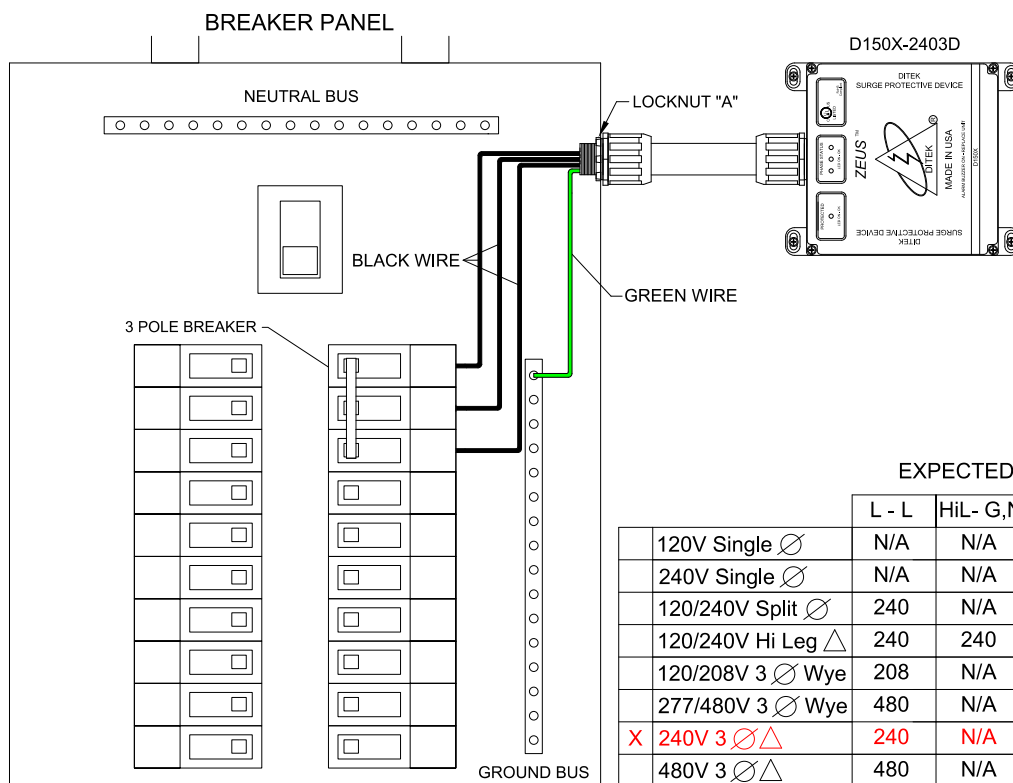
**NOTE:** Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical Amperes. Recommended circuit breaker size is 30 Amps. This SPD contains no serviceable parts.

1. Turn off the power at the main breaker or service disconnect before beginning installation.
2. Remove front cover from the electrical panel.
3. Determine the ideal mounting position of the SPD by orienting the unit as close as possible to the position of the circuit breaker selected for the SPD connection.
4. Remove a 3/4" knockout in the electrical panel or drill a 3/4" NPT hole in the electrical panel.
5. See the Illustrations Page on the back side of this document for instructions on assembling the included liquid-tight conduit and connector. The conduit length can be cut down shorter if desired.
6. Remove "Locknut A" from the conduit connector.
7. Feed all wires, conduit and 3/4" NPT connector through the knockout hole in the panel, and finally tighten "Locknut A" on the conduit connector.
8. Connect the Ground wire (Green) to the Ground bus inside of the panel.
9. Connect the (3) Phase wires (Black) to the load side of the 3-pole circuit breaker.
10. Securely mount the enclosure with appropriate anchors by 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.

**Audible Alarm Operation:** This SPD includes an audible alarm that will sound when the unit has self-sacrificed and is no longer providing protection. To silence the audible alarm, power to the SPD needs to be turned off via the circuit breaker or service disconnect.

**Dry Contact Connection:** This is a Form C Dry Contact Circuit, 0.9A, 240VAC maximum input. Normally Open (NO)=Black Wire, Common (COM)= Red Wire, Normally Closed (NC)=White Wire.

**Note:** Remote Alarm Wires To Be Connected To Class 1 Circuits Only.





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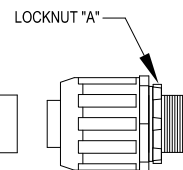
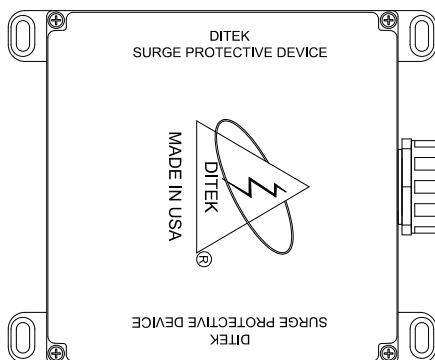
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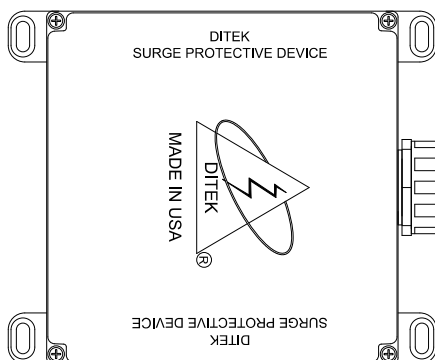
## Illustrations Page

# INSTALLATION

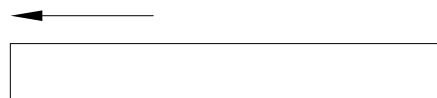
STEP 1



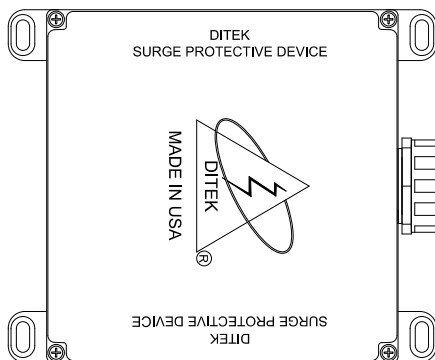
STEP 2



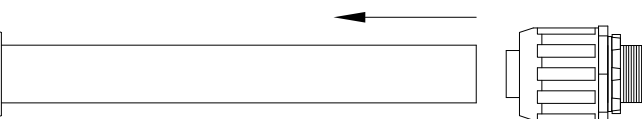
PUSH CONDUIT INTO CONNECTOR  
UNTIL IT LOCKS IN PLACE



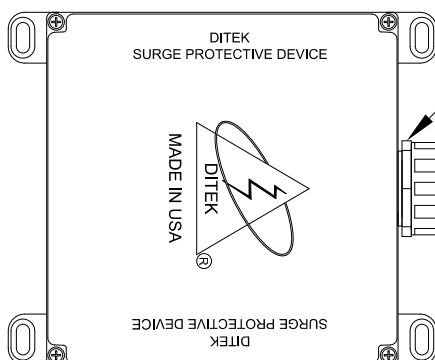
STEP 3



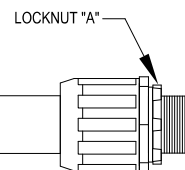
PUSH CONNECTOR INTO CONDUIT  
UNTIL IT LOCKS IN PLACE



STEP 4



**CAUTION: DO NOT LOOSEN OR REMOVE  
THIS NUT. THIS IS FACTORY SEALED TO  
PREVENT WATER INTRUSION.**



TO REMOVE CONDUIT, UNSCREW  
THIS CONNECTOR AND PULL THE  
CONDUIT AWAY FROM CONNECTOR  
BASE. TO REPLACE, REPEAT THE  
PREVIOUS STEPS.