



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

INSTALL INSTRUCTIONS

D50-CM

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 and grounded, by a licensed contractor, per the applicable requirements of the NEC.

APPLICATION: Type 1 SPD for hardwired parallel installations on 120/240 VAC Split phase circuits, connected on the line side of the main breaker or disconnect.

Type 2 SPD for hardwired parallel installations on 120/240 VAC Split phase circuits, connected on the load side of the main breaker or disconnect.

Expected system voltages: L1-G = 120VAC, L2-G = 120VAC, L1-L2 = 240VAC

INSTRUCTIONS:

Caution: Measure all voltages to insure applied voltage does not exceed the voltage rating of the unit. Improper installation voids the warranty. This unit must be connected in parallel with the equipment to be protected.

NOTE: Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical amperes. This SPD contains no serviceable parts.

Pre Install Actions:

1. Turn off main power before beginning the installation.
2. Remove the front cover from panel.
3. Remove the 3/4" knockout on the side of the panel box closest to the point of install.
4. Unscrew nut from unit, leaving the washer in place.
5. Feed all wires through the knockout hole then through nut. Tighten the nut to secure the unit to the panel. Make sure the washer is sandwiched between the unit and the panel.
6. Connect the green (Ground) wire to the ground bus.
7. Always have one common ground per system to eliminate the possibility of a differential in ground potentials.
8. 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.

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.

Type 1 Installation:

Intended for installation between the secondary of the service transformer and the line side of the service equipment overcurrent device, as well as the load side, including watt-hour meter socket enclosures and intended to be installed without an external overcurrent protective device. Connect the phase (Black) wires to the line side of the main, making sure the leads are as short as possible (Ground being the shortest). Refer to the Illustrations Page for wiring diagrams.

Type 2 Installation:

Intended for installation on the load side of the service equipment overcurrent device. Connect the phase (Black) wires to the load side of the main, making sure the leads are as short as possible (Ground being the shortest). For best performance connect the phase wires to a 2-pole, 20A circuit breaker rated 240V minimum. Refer to the Illustrations Page for wiring diagrams.

Post Install Actions:

After all connections have been made and no hazards exist, replace cover and restore power.

Maintenance:

Perform periodic inspections to verify the indicator LED is on. If the LED is off than surge protection is compromised and the unit must be replaced.

DITEK Technical Support Available 24/7

1-888-472-6100

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Drawn By: R. Mitchell 2-6-15

Approved By: H. Tu 3-17-15

Revised By: K. Nguyen 3-17-15

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INSTALLATION



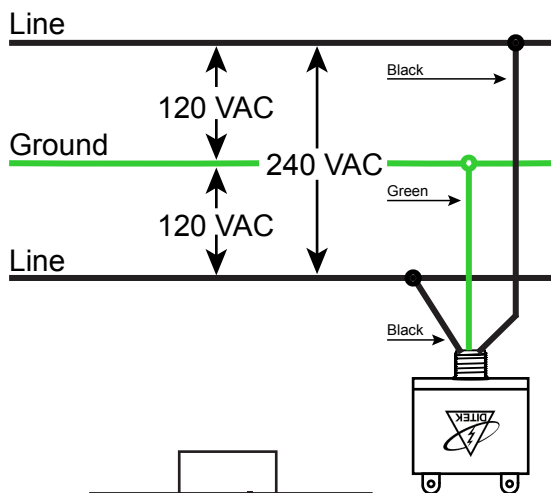
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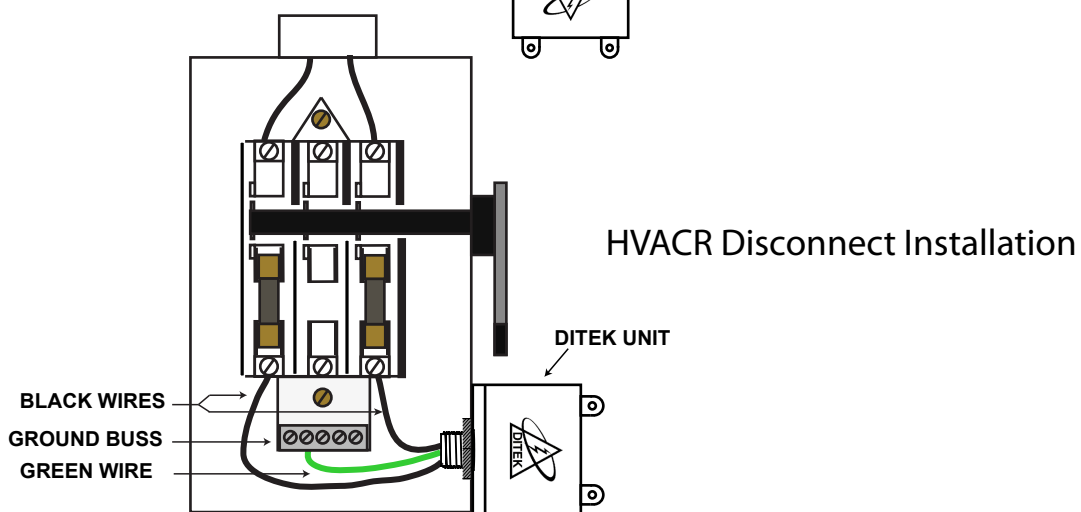
D50-CM

Illustrations Page

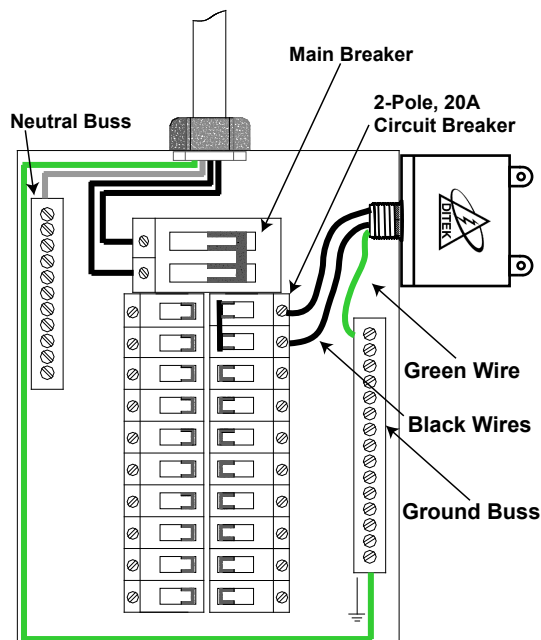
INSTALLATION



Wiring Diagram



HVACR Disconnect Installation



Panel Installation

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