



INSTALL INSTRUCTIONS

DTK-120HW

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 or Type 2 SPD for hardwired installation on a 120 VAC single phase electrical circuit.

INSTRUCTIONS

Caution: Measure all voltages to verify 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, when protected by a 20A circuit breaker rated 120 Volts minimum. This SPD contains no serviceable parts.

NOTE: This SPD incorporates an LED indicator that must be on when correct voltage is applied. If the LED is out, surge protection is compromised and the unit should be replaced.

1. Turn off the power before beginning installation.
2. Remove, or drill, a 3/4" NPT knockout on the side of panel box, alarm control panel or junction box.
3. Unscrew nut from unit.
4. Feed all wires and the DTK-120HW nipple through knockout hole, then through nut, and tighten nut securing the unit.
5. For **ALARM/CONTROL PANEL INSTALLATION**, refer to diagram #1. In this application, the DTK-120HW's leads must be trimmed as short as possible to the connection point. Use a 3-position barrier strip, or twist-on wire connectors for Line and Neutral conductors and a multi-position grounding bus bar for Ground conductors. Barrier strip and connectors are not provided. Allow the unit reaction time by maintaining no less than 3' of conductor length between the connection point and the equipment it is protecting.
6. For **ELECTRICAL PANEL INSTALLATION**, refer to diagram #2. In this application, connect the DTK-120HW to the load side of the circuit breaker feeding the equipment. Ensure the leads are as short as possible with the ground wire being the shortest of all. If the circuit breaker is listed for 2 conductors, secure the SPD phase wire (Black) directly to the breaker terminal along with the Phase wire feeding the equipment. If the circuit breaker is not listed for 2 conductors, a short "pigtail" wire must be added that is the same wire gauge size as the Phase wire feeding the equipment. The SPD Phase wire (Black) is then terminated in parallel with the "pigtail" wire from the breaker and the Phase wire feeding the equipment using an appropriate wire connector or tap.
7. For **JUNCTION BOX INSTALLATION**, refer to diagram #3. In this application, ensure the DTK-120HW's leads are trimmed as short as possible to the connection point. Use twist-on wire connectors for Line and Neutral conductors and a multi-position grounding bus bar for Ground conductors, or a 3-position barrier strip. Barrier strip and connectors are not provided. Allow the unit reaction time by maintaining no less than 3' of conductor length between the connection point and the equipment it is protecting.
8. After all connections have been made and no hazards exist, restore power.



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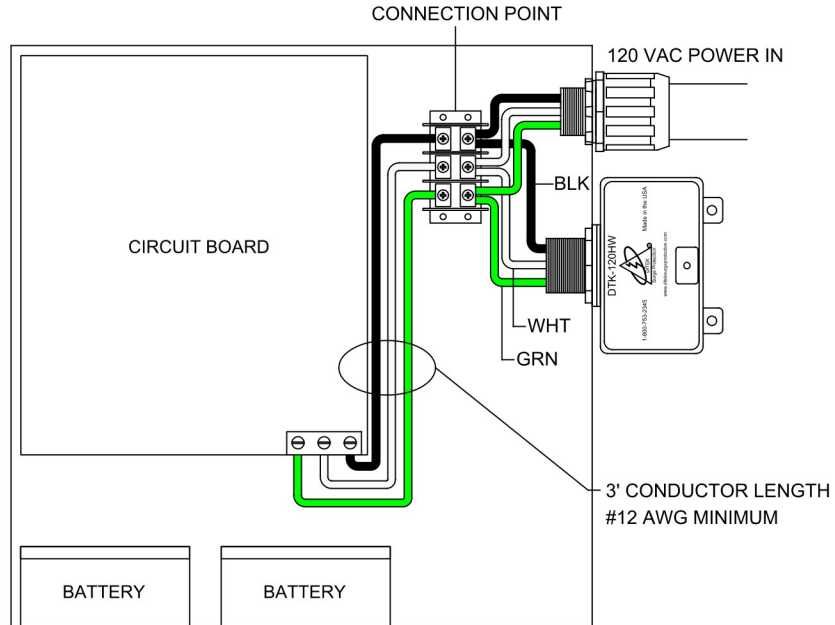
INSTALLATION

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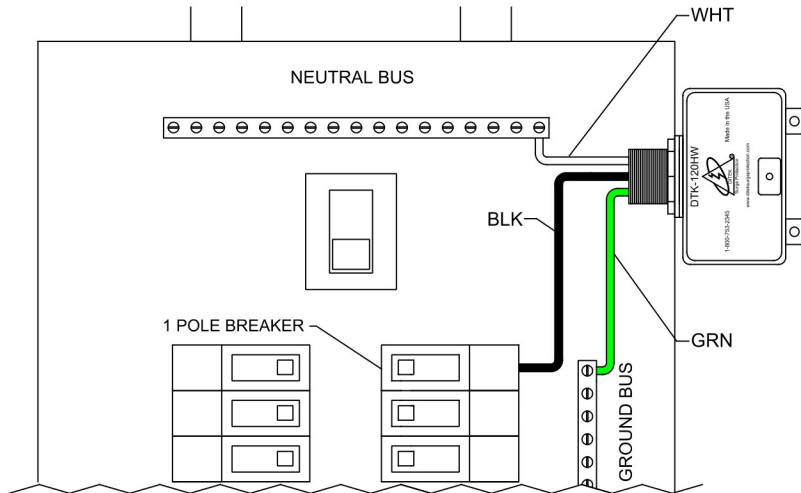
DTK-120HW

Illustrations Page

ALARM / CONTROL PANEL INSTALLATION DIAGRAM #1



ELECTRICAL PANEL / DISCONNECT INSTALLATION DIAGRAM #2



JUNCTION BOX INSTALLATION DIAGRAM #3

