INSTALLATION INSTRUCTIONS

Model 83905
Surge Protective Device

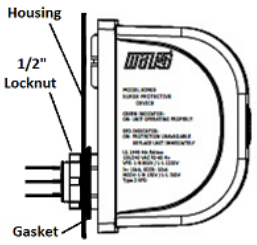
IMPORTANT SAFETY INSTRUCTIONS, SAVE THESE INSTRUCTIONS

WARNING

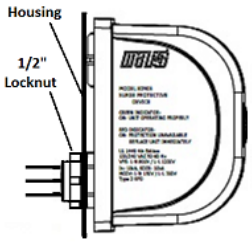
Risk of Electrical Shock

Attention: Risqué De Choc-Ne Pas Ouvrir

- **Thoroughly read instructions before installing unit.**
- **Installation and Service to be performed by a Qualified Licensed Electrician.**
- **Intended for indoor and outdoor use.**
- **All wiring must comply with all state and local electrical codes including the National Electrical Code and/or Canadian Electrical Code.**
- **This unit contains no serviceable parts.**
- ***Attention: Aucune piece remplacable ou reparable.***
- **This product does not protect against direct lightning strikes.**
- **Suitable for use on a circuit capable of delivering not more than 10,000 rms amperes 120 volts per line.**
- **In all applications, NEC recommended maximum Ground resistance should not exceed 25 ohms. Verify ground resistance prior to installation.**



Outdoor Installation



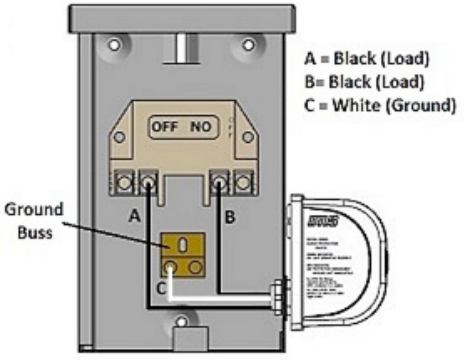
Indoor Installation

HVAC Disconnect Installation for SPD 83905

1. Turn off main breaker to panel / equipment the protector is to be installed and verify power is off with appropriate meter.
Remove the ½" knockout on the side of the disconnect box. **Do not use the bottom knockouts as this may allow water entry and void product warranty.**
2. Remove the retaining locknut from the nipple on the SPD83905.
Feed the wires and nipple into the ½" knockout hole. Use appropriate hardware if unit is to be installed outdoors
Secure the SPD in place with the lock nut.
3. Connect the two black wires as shown in illustrations.
4. Connect the white wire to neutral/ground buss bar.
5. Ensure all wiring is correct and securely fastened.
Turn on main breaker and verify green LED is "ON".

1. Periodically check LED status lights confirming unit is functioning properly.

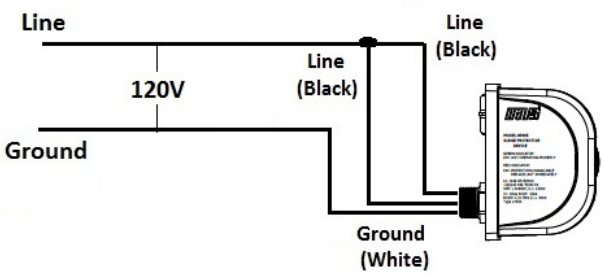
HVAC Disconnect Box
120/240Vac three wire w/ground Installation



120V two wire installation of the SPD 83905

1. **Turn off all power to the equipment the surge protector is to be installed and verify power is off with appropriate meter.**
2. Connect the two black wires of the SPD 83905 to the equipment black wire, and ensure wiring is securely fastened.
3. Connect the white of the SPD 83905 to the equipment neutral/ground wire and ensure wiring is securely fastened.
4. Restore power and verify green LED is "ON".
5. Periodically check LED status lights confirming unit is functioning properly.

120Vac two wire single phase w/ground Installation



Installation tips: For best performance ensure conductor length is as short as possible. Hard 90 degree bends will reduce effectiveness.