



INSTALLATION INSTRUCTIONS

Model CD1-024R Surge/Brownout/Short Cycle Protective Device

IMPORTANT SAFETY INSTRUCTIONS • THOROUGHLY READ AND SAVE THESE INSTRUCTIONS

⚠ WARNING Risk of Fire or Electric Shock

- Disconnect power at the circuit breaker(s) or disconnect switch(es) before installing or servicing.
- Installation and service to be performed by a qualified licensed HVAC technician or licensed electrician.
- More than one circuit breaker or disconnect switch may be required to de-energize the equipment before servicing.
- Installation and/or wiring must be in accordance with national and local electrical code and/or Canadian Electrical Code requirements.
- For wet location installations, product should be mounted to a raintight enclosure.
- This device features an internal protection that will disconnect the surge protective component, but will maintain power to the load—now unprotected. If this is undesirable for the application, follow the manufacturer's instructions for replacing the device.
- Do NOT mount device nipple side up.
- This product is not designed for rigid conduit mounting.

NOTICE This unit contains no serviceable parts.

The *Compressor Defender™* protects HVAC Compressors (Scroll & Reciprocating), and the electronics inside central air conditioners, heat pumps, light commercial packaged rooftop units, and mini-splits from under/overvoltage conditions, surge events, and system short cycling caused from AC power interruptions.

Specs

- Input voltage: 120/208-240 VAC, 60 Hz
- MCOV (Max Continuous Overvoltage):
L-N/G: 150 V L-L: 300 V
- Type 3 Outdoor Enclosure
- In (Nominal Discharge Rating) : 20 kA
- SCCR (Short Circuit Current Rating): 100 kA
- T-stat Normally Closed Relay, 24 VAC
- Output Current Rating: 2 A @ 24 VAC
- VPR (Voltage Protection Rating):
L-N/G: 700 L-L:1200
- Type 2 SPD
- Intended for indoor/outdoor use
- Operating Temp: -40° F to 158° F
(-40° C to 70° C)

Installing the Compressor Defender™

A typical installation of the *Compressor Defender™* connects to the load side of the electrical service panel and is intended to be installed with over current protection up to 60 amps to the device. The wire gauge size should be 10 AWG with a minimum wire length of 6 inches to a maximum of 20 inches from the nipple out.

NOTE: The *Compressor Defender™* does not have to be reset after a surge or brownout event.

1. Disconnect condensing unit power at circuit breaker(s), the AC disconnect, and at the 24 VAC thermostat circuit.
2. Mount the *Compressor Defender™* making sure the 24 VAC wire is mounted below the nipple. See Figure 1.

NOTE: Ensure conductor lengths are as short and straight as possible for best performance. Do not coil excess wire. The SPD functions best if all bends in wires are rounded, ideally to a 4 inch radius. Hard 90° bend will reduce efficiency. Cut all leads to the correct length.

NOTE: If you want to install the *Compressor Defender™* inside a condensing unit, drill two holes in the sheet metal and then insert the L clip on the *Compressor Defender™* over the holes and secure the connection with two customer supplied sheet metal screws. See Figure 2.

Installation Manual Of Cd1

JS Bruner



Installation Manual Of Cd1:

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