

Installation Instructions for SYC-120/240-T2 and SYC-120-T2 Hardwired Unit

These products are designed for the protection of 120V and 120/240V single-phase equipment. The units may be installed by qualified, licensed personnel at a location approved in NEC (2008) and by state and local codes and statutes. These units are listed as Type 2 SPDs (UL1449-2009) with SCCR of 10kA and an In of 10kA.

A) General Installation Notes for ALL Installations

1. To assure safe installation; prior to installation; measure the voltage on each phase and verify that they meet the specifications on the SPD.
2. Type 2 SPDs are designed for installation on the load side of the service equipment over-current device.
3. Shut off the power to the location at which you are installing the device.
4. If installing inside panel, secure in a clear area, positioned to keep the leads as short as possible.
5. Secure the SPD unit prior to connection. Connect through ½” knockout on panel or disconnect.
6. Mounting tabs are provided on the enclosure. Always install as close as possible to the connection point and trim the leads as short as possible.
7. The white ground wire should be installed first onto the neutral/ground lugs or bus bar.
8. The black wires should then be connected to the “hot” wires/lugs/breaker. Recommended breaker is a 2 pole, 240V, 20-40A for the 120/240 model and 1 pole, 120V, 20-40A for the 120V model .
9. Secure and check all connections. Turn on the power. All LED lights should be lit at this time.

B) Breaker Panel Installation Notes

Shut off the power to the panel at which you are installing the device by turning off the main breaker.
Turn off the breaker to which you are going to install the SPD.
Install the 120/240-T2 on the load side of a two-pole 240V circuit breaker (20A-40A recommended).
Install the 120-T2 on the load side of a single pole 120V circuit breaker (20A-40A recommended).
Turn on the main breaker.
Turn on the breaker onto which you have installed the SPD.

C) Disconnect Switch Installation Notes

Verify that power is off to load side of disconnect.
Connect the wiring to the load side of fusing, lugs or bus bar.
Connect white wire first, then the two black wires.
Turn on the disconnect. All LED lights should be lit at this time.