



TITAN

SURGE PROTECTIVE DEVICES

INSTALLATION INSTRUCTIONS: TITAN 16DT, TITAN 65DR

This EFI Surge Protection Device (SPD) is a high-performance surge protection device, designed to provide protection for sensitive electronic loads. Maximum protection will only be achieved if the SPD is properly installed. Please read the installation instructions carefully and follow the instructions.

NOTICE: For installation by a qualified electrician in accordance with National and Local Electrical Codes and the following instructions.

PRECAUTIONS

⚠ CAUTION

RISK OF ELECTRIC SHOCK

Disconnect power before installing. Never wire energized electrical components. Do not cut wires until SPD is mounted and wire lengths have been verified.

(Note: On these SPD units the installing electrician supplies the wires. Improved performance can be achieved by using larger gauge wire.)

INSTALLATION

- 1. Verify line voltage** by measuring L-N, L-G and L-L in your system. Confirm that the SPD is rated for your system by comparing it to the table shown below or on the product label. The (MCOV) maximum continuous operating voltage specifications must not be exceeded.
- 2. Identify proper location for SPD.** Locate as close as physically possible to equipment being protected. Mount securely. Mount as close to the electrical connection as possible avoiding excess distance and sharp bends in the wires.
- 3. Connect proper ground.** All units must be grounded via a ground wire from the suppressor to the nearest ground lug. In isolated ground systems connect the isolated ground to the suppressor ground.
- 4. Connect neutral conductor** (if applicable). Measure and trim the neutral conductor to be as straight and short as possible. Connect the neutral conductor from the suppressor to the neutral lug in the panel or equipment.
- 5. Connect phase conductor(s).** With the electrical power OFF, measure and trim the phase conductor(s) to be as straight and short as possible. Never coil or push aside excess wire length.

Connect phase conductors from the suppressor to a properly rated overcurrent device according to the wire size being used. Overcurrent devices are rated as follows:

#14 AWG Wire = 15 Amps

#12 AWG Wire = 20 Amps

6. Activate unit. When power is applied, diagnostic light will indicate that each phase is protected. If light does not illuminate, recheck the phase, neutral and ground connections and fuses.

7. Audible Alarm (DR units only). The alarm will sound if circuit damage has occurred, if product has been installed incorrectly, or if power is lost to any one phase. If alarm sounds on installation, recheck all connections.

8. The diagnostic connector on the 65DR series is a signal port. A 12 Volt 5 mA signal is sent out of this port for use with a remote monitoring system.

Suppressor functioning properly = no signal

Suppressor damage = 12V 5 mA signal

MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)

System Voltage	MCOV
120 Vac Grounded Neutral	150 Vac (L-N)
230 Vac	320 Vac (L-N)
200 Vac 3ø	360 Vac (L-G)
400 DR	640 Vac (L-L)
400 DT	540 Vac (L-G)
600 Vac	780 Vac (L-L)