

**WARNING AND CAUTIONS:**

- TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE WIRING!
- TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH ELECTRICAL CODES AND REGULATIONS
- IT IS RECOMMENDED THAT CATALOG NOS. 32000/42000 SPD UNITS BE INSTALLED BY AN ELECTRICIAN.
- USE THIS DEVICE WITH COPPER OR COPPER CLAD WIRE ONLY.

**DESCRIPTION**

Leviton's 32000/42000 SPD Panel Protection Systems are high performance Surge Protective Devices. The 32000/42000 units are designed for use at the service entrance, sub-distribution or branch circuit panels. The 42000 units include additional filtering for reducing the effects of transients and unwanted high frequency noise. Diagnostics provide visual, audible and remote contacts (Relay Leads) for the monitoring of protection status.

**DESIGN FEATURES**

- UL 1449 Listed
- 32000 Series compatible with Decora Home Control equipment
- Hybrid component suppression design
- SPD protection on all phases
- Common mode N-G SPD protection for Wye configured AC systems
- All "DY3" models may be used on either Delta or Wye systems as sold
- Audible and visual failure indicators for diagnostic monitoring
- Provided with Remote Monitoring Dry Contacts
- 3/4 in (1.9 cm) nipple for close proximity wire connections
- Convenient surface mounting

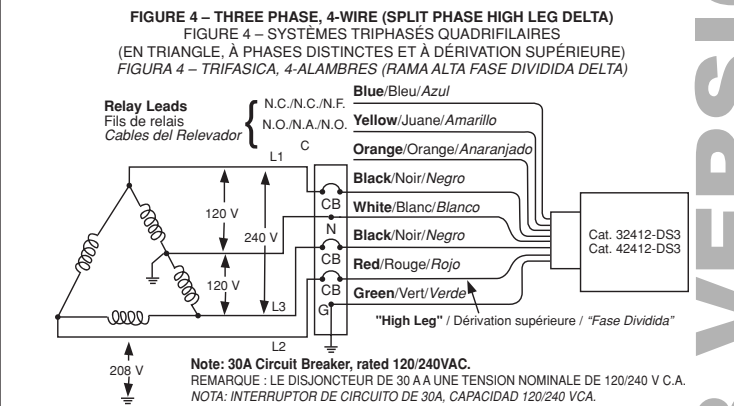
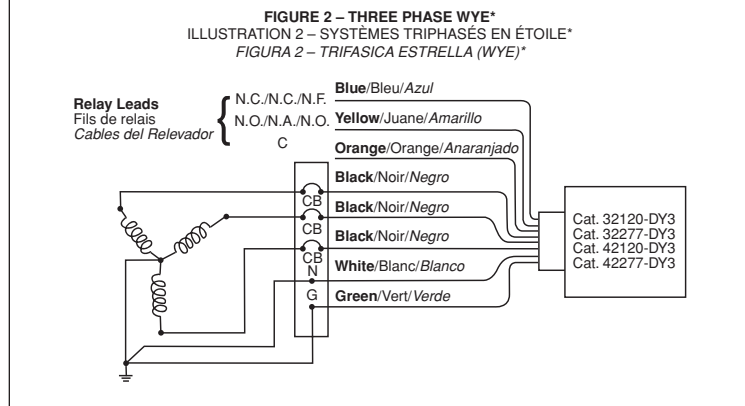
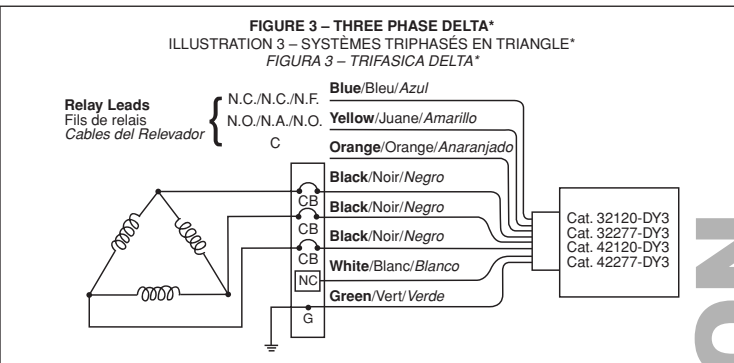
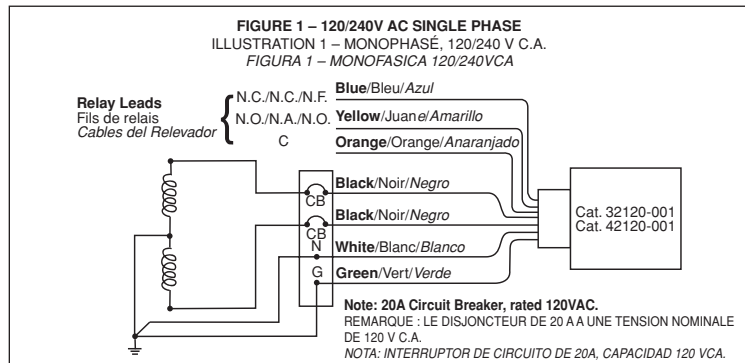
**TO INSTALL**

1. Identify the device or load to be protected. Locate the SPD unit as close as possible to the electrical panel serving the loads to be protected to minimize the effects of connection lead-length resistance and inductance.
2. Identify the electrical system in use, Delta or Wye, and system voltage (L-L, L-N).  
**NOTE:** Matching the SPD model and electrical system line voltage is critical! Identify the system to be protected by measuring L-N and L-L voltages. Use extreme caution while making voltage measurements! If you are unsure of the type of electrical system in use or the system voltage, stop and contact an electrician.  
Confirm that the maximum measured voltage does not exceed the maximum continuous line voltage specified for the 32000/42000 units to be installed or damage will occur. See the Model Data table for applicable voltage system applications. **Figures 1-4** illustrate the wiring connections for each 32000/42000 unit configuration.
3. **Disconnect:** Leads from the SPD unit must be connected to the power mains through a branch circuit breakers (independent single-pole preferred). See figures 1, 2, 3 and 4 for corresponding circuit breakers. When the SPD shares a 3-pole ganged breaker, National Electric Code (NEC) and local requirements shall prevail (Not applicable in Canada-shared breaker is not allowed by CEC).  
**NOTE:** The total connection length between the branch power lines and the SPD should be as short as possible. Leads from the SPD units should be bundled together and secured with cable ties when possible. For best suppression, the cable and some cable ties may be cut down from the supplied length to allow for a shorter installation path.
4. Mount the SPD units securely. The 32000/42000 units have a flange for surface mounting. Direct panel mounting applications should utilize a 3/4 in (1.9 cm) conduit knockout hole.
5. When attaching the SPD connection leads to the power lines, all connection leads from the SPD unit should be cut to a length which provides the shortest path to the power line. Avoid sharp bends. Lead wire insulation should not be cut or damaged.
6. The suppressor's Black wires may be connected to L1, L2 and L3 without regard to phase, except for the 3 Phase, 4-Wire (High Leg Delta) connection. In this connection, either of the two Black wires may be connected to L1 and L3 without regard to phase, but the Red wire must be connected to L2.
7. The White wire should be connected to the system's Neutral bus on Wye systems. On Delta systems without Neutral, the White wire end should be insulated (capped with a wire connector), taped and moved aside. For Delta Systems with Neutral (3 Phase, 4 Wire, Split Phase, High Leg), connect White wire to Neutral.
8. The Green wire is attached internally to the 32000/42000 unit's metal enclosure. The Green wire must be grounded to the panel's ground bus, a direct ground conduit connection to the panel, or both.  
**For isolated ground systems:** Connect the Green wire to the panel, or use the conduit ground.  
**Do not connect the Green wire to isolated ground conductor(s).**
9. Activate the system by turning power ON (closing any main and SPD circuit breakers). The Green indicator lights should be ON. If indicator lights are not ON, consult an electrician.
10. Failure indication may occur due to excessive transients, a direct lightning strike or loss of power due to a tripped circuit breaker. If any of these events occur, one or more Green LEDs will be OFF, the Red LED will flash and the audible tone will be activated. When power is applied to the SPD unit and one or more Green LEDs are OFF, the unit has failed and must be replaced.

**REMOTE DIAGNOSTICS**

The unit is provided with form C ( 1 N.O. and 1 N.C. ) relay contact for remote indication of loss of protection. Connection to contact is provided via 18AWG, 600V rated leads. Remote Diagnostic circuitry rated at 7 Amps at 240VAC or 30VDC. Lead designations are: N.O. = Yellow, N.C. = Blue and Common, C = Orange.

General Data for: Cat. Nos. 32000/42000 SPD Devices	
Données générales sur les gammes 32000 et 42000	
Datos Generales para Dispositivos PST Modelos 32000/42000	
Cat. No.	Rated Line Voltage (VRMS)
N° de cat.	Tension de ligne nominale (RMSV)
No. de Cat.	Tensión Nominal de Línea (RMSV)
32120-001	<b>120/240 VAC Single Phase</b>
42120-001	120/240 V c.a. monophasé
	120/240 VCA Monofásica
32120-DY3	<b>120/208 VAC 3-Phase WYE</b>
42120-DY3	<b>208 VAC 3-Phase Delta</b>
	<b>220 VAC 3-Phase Delta</b>
	120/208 V c.a. triphasé, en WYE
	208 V c.a. triphasé, Delta
	220 V c.a. triphasé, Delta
	120/208 VCA Trifásico estrella (WYE)
	208 VCA Trifásico Delta
	220 VCA Trifásico Delta
32412-DS3	<b>120/240 VAC Split Phase High-Leg Delta</b>
42412-DS3	120/240 V c.a. diphasé-triphasé, Delta
	120/240 VCA Bifásico-Trifásico Delta
32277-DY3	<b>277/480 VAC 3-Phase WYE</b>
42277-DY3	<b>220/380 VAC 3-Phase WYE</b>
	<b>240 VAC 3-Phase Delta</b>
	<b>480 VAC 3-Phase Delta</b>
	277/480 V c.a. triphasé, en WYE
	220/380 V c.a. triphasé, en WYE
	240 V c.a. triphasé, Delta
	480 V c.a. triphasé, Delta
	277/480 VCA Trifásico estrella (WYE)
	220/380 VCA Trifásico estrella (WYE)
	240 VCA Trifásico Delta
	480 VCA Trifásico Delta



\*Note: 30A Circuit Breaker, rated 120VAC for catalogs 32120-DY3, 42120-DY3. Rated 277V for catalogs 32277-DY3, 42277-DY3.  
\*REMARQUE : LE DISJONCTEUR DE 30 A A UNE TENSION NOMINALE DE 120 V C.A. POUR LES MODÈLES 32120-DY3 ET 42120-DY3, ET DE 277 V POUR LES MODÈLES 32277-DY3 ET 42277-DY3.  
\*NOTA: INTERRUPTOR DE CIRCUITO DE 30A, CAPACIDAD 120 VCA PARA CATALOGOS 32120-DY3, 42120-DY3. CAPACIDAD 277 V PARA CATALOGOS 32277-DY3, 42277-DY3.

**Relay Data for all devices: Relay Contacts rated 7A-240 VAC resistive load.**  
Données relatives aux relais de tous les dispositifs : cintacts aux valeurs nominales de 7 A-240 V c.a., charge résistive.  
Datos del Relevisor para todos los productos: La capacidad de los contactos del relevisor es de 7A -240VCA carga resistiva.

**LIMITED 5 YEAR WARRANTY AND EXCLUSIONS**  
Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit [www.leviton.com](http://www.leviton.com) or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

