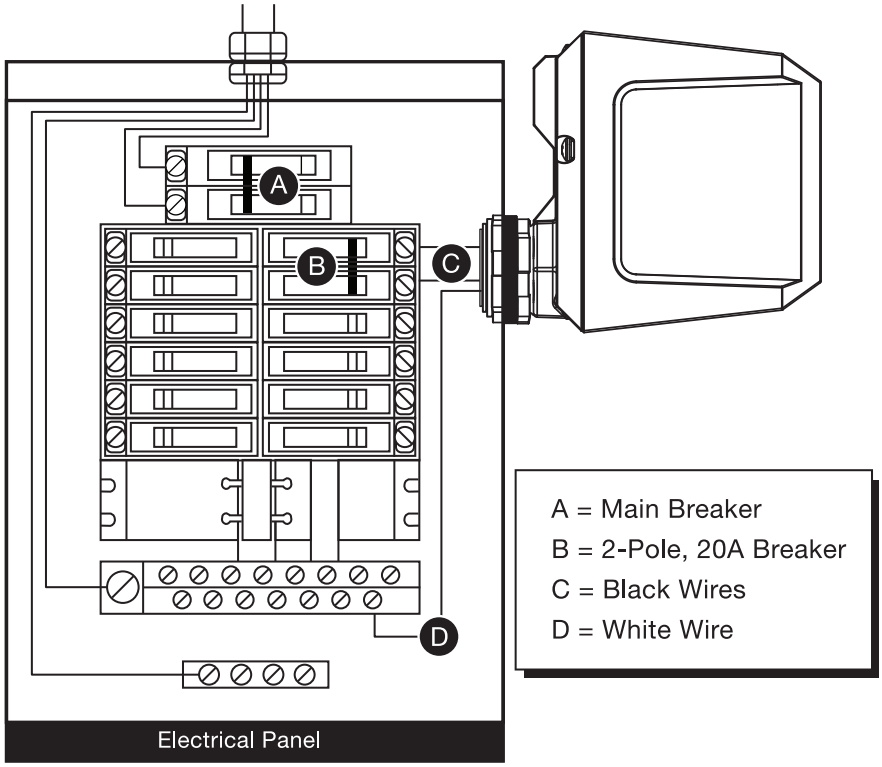
WARNING: RISK OF ELECTRICAL SHOCK
Completely read these instructions before installing. Installation and service to be performed by a qualified licensed technician. Confirm TPSPD is rated for the paticular installation by comparing voltage measurements to the Line Voltage (L-L, L-N) on the product label.

VISUAL INDICATOR
The TPSPD incorporates a **GREEN LED** visual indicator that lets the user know the equipment is being protected. When the **GREEN LED** indicator is OFF the connected equipment is not protected and surge protection device needs to be replaced.

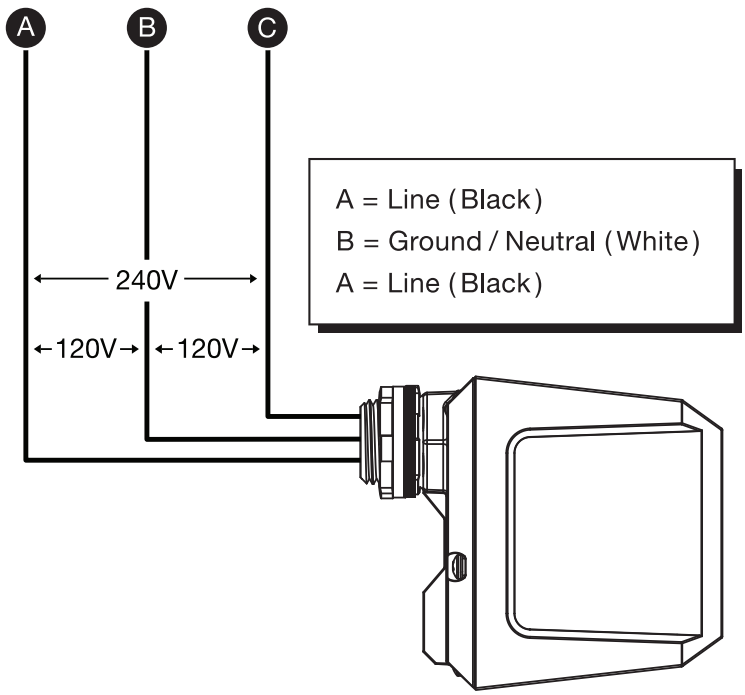
INSTALLATION INSTRUCTIONS
The TPSPD surge protectors can be installed by removing a knockout from the disconnect or the panel box, inserting the nipple end and the wires of the surge protector through the exposed hole and tightening the retaining ring nuts. All conductor lengths should be as short as possible and bends should not be sharp; a 4˝ bend radius or wider is recommended. **DO NOT LOOP OR COIL WIRES.**

ELECTRICAL PANEL (240 VAC CONNECTION)
All TPSPD protection devices include two black wires and one white Grounded / Neutral wire. The recommended place of installation is at the electrical panel servicing the load. Since surge protectors work by shunting the voltage spikes to ground, it is imperative that proper grounding be provided as required by local electrical codes. Use on solidly grounded systems only.



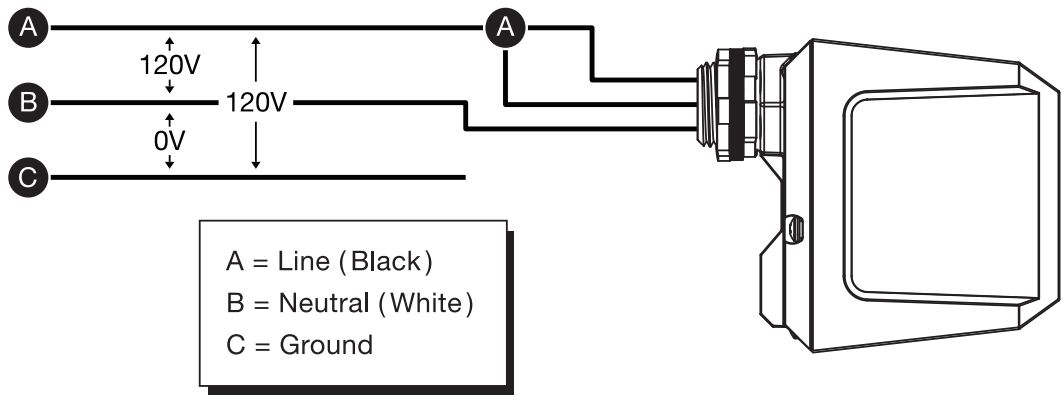
AC DISCONNECT (240 VAC 3 - WIRE GROUNDED NEUTRAL CONNECTION)
For 240 VAC installations, connect one BLACK lead to L1 and the other to L2 and WHITE wire to the GROUND BUS BAR or GROUNDED NEUTRAL BUS BAR.

AC DISCONNECT (120 VAC 2 - WIRE SINGLE PHASE WITH SEPARATE GROUND CONNECTION)
For 120 VAC installations, connect one BLACK wire to the HOT lead, the other BLACK wire to the NEUTRAL leg and the WHITE wire to the GROUND BUS. Connection may also be made to the neutral / ground bus bar if no separate ground bus bar is provided.



Note:

1. **TYPE 1 device will be connected between the secondary of the service transformer and the line side of the service panel. Type 1 is intended to be installed without over current protection.**
2. **This is a TYPE 2 device intended to be connected to the load side of the service panel on a circuit with an over current protection (20A fuse or circuit breaker).**
3. **Suitable for use on a circuit capable of delivering no more than 20,000 rms symmetrical amperes.**



HAZARD OF ELECTRICAL SHOCK, EXPLOSION OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.
- This equipment must be effectively grounded per all applicable codes. Use an equipment-grounding conductor to connect this equipment to the power system ground.

CAUTION: LOSS OF SURGE SUPPRESSION - Turn off all power supplying the equipment and isolate the surge protective device before Megger® or hi-potential testing

WARNING: INADEQUATE GROUNDING HAZARD - Do not use on ungrounded systems

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN DEATH OR SERIOUS INJURY

CPS Products, Inc. ("CPS") warrants, to the original purchaser only, its 5-2-1 SPD Series Surge Protectors to be free from defects in assembly, materials and workmanship for 3 years (36 months) from the date of purchase or 39 months from the date of manufacture, if earlier. If the product should fail during the warranty period it will be repaired or replaced (at our option) at no charge.

This warranty does not apply to products that have been altered, misused, exposed to extreme heat or cold or submerged. 5-2-1 Surge Protectors are not warranted against damage due to direct lighting strikes, electrical voltage exceeding published product specifications (continuous over-voltage), utility "overcurrent" or "fallen neutral" conditions.

5-2-1 Surge Protectors must be installed by a qualified licensed technician (HVAC / Electrician) according to the installation instructions as detailed in the relevant product manual. These products are designed to shunt voltage spikes to ground so it is imperative that proper grounding be provided as required by local electrical codes. All building wiring must conform to applicable federal, state and local electrical codes.

The 5-2-1® TPSPD has a three year product warranty and connected equipment warranty. Please register online at www.five-two-one.com