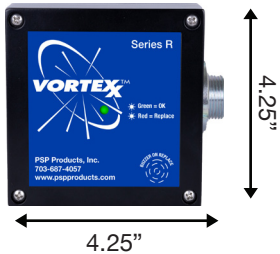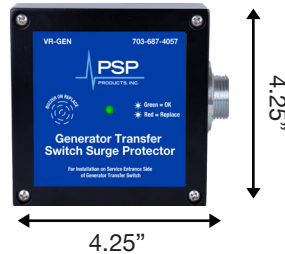## VR-120 Surge Protectors

4.25"
4.25"

VR-GEN Surge Protectors

4.25"
4.25"

IMPORTANT: FLAT BLADE TERMINALS MUST BE INSTALLED UNDER MAIN CONDUCTOR AND NOT BETWEEN THE CONDUCTOR AND LUG SCREW TERMINAL TO CONFORM TO PROPER INSTALLATION STANDARDS. USE ONLY THE TERMINALS SUPPLIED, IF TERMINALS ARE DAMAGED OR MISSING CONTACT PSP PRODUCTS FOR REPLACEMENTS.

Installation Instructions

1. Confirm VR device is rated for your system by comparing voltage measurements to the line voltage on the product label.
2. Turn off all power supplying this equipment before working on or inside the equipment.
3. See installation diagrams below and match to your specific installation type.
4. If installing on a breaker, use a 20A-60A breaker and verify lug on breaker provides solid connection to SPD wiring.
5. In some jurisdictions, provided flat tabs can be used in the bottom of the lug.
6. As a Type 1, no breaker is required.
7. Install in accordance with all pertinent articles of the National Electric Code.
8. Confirm that the electrical terminals used to attach this device are identified for these conductors.
9. Keep conductor length as short as possible with no sharp bends.
10. Do not loop or coil wires.
11. Ensure a high quality ground is in place.
12. Turn on all power supplying this equipment.
13. Verify diagnostic indicator is illuminated and no audible alarm is present.
14. Install cover and/or close door on equipment fixture.
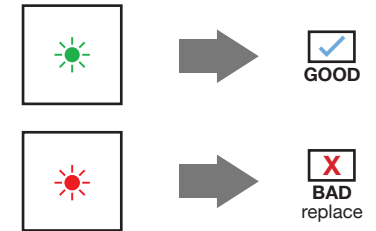
⚠️ **Technical Assistance: 703-687-4057**

Important: Risk of electrical shock.
This device should only be installed by qualified personnel
.

	P/N
-40/+185°F max. -40/+85°C max. IP66	VR-120 VR-GEN

AC Network	
Nominal Voltage	120VAC
Max. Operating Voltage (MCOV)	150VAC
Max. Discharge Current (Imax)	120kA
Nominal Discharge Current (In)	20kA

Installation Notes

- Designed to allow installation inside of electrical panel using optional L-bracket.
- Designed to allow installation inside of a finished wall using optional flush mount cover.

 → ✓ **GOOD**

 → ✗ **BAD** replace

Diagnostic Operation

- LED GREEN = Normal operation
- LED RED = Fault, check phase voltage and connections. If OK, replace unit.
- Audible Alarm ON = Fault, check phase voltage and connections. If OK, replace unit.
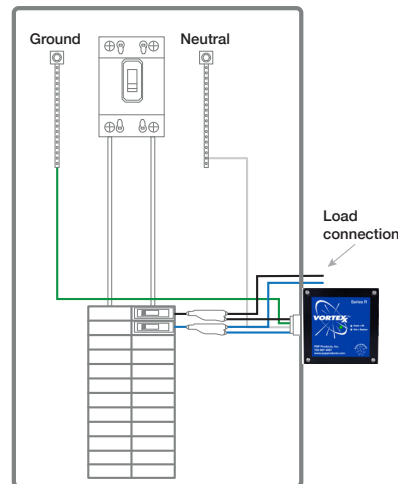
Diagram A Type 1 Installed on Occupied Breaker

Ground Neutral
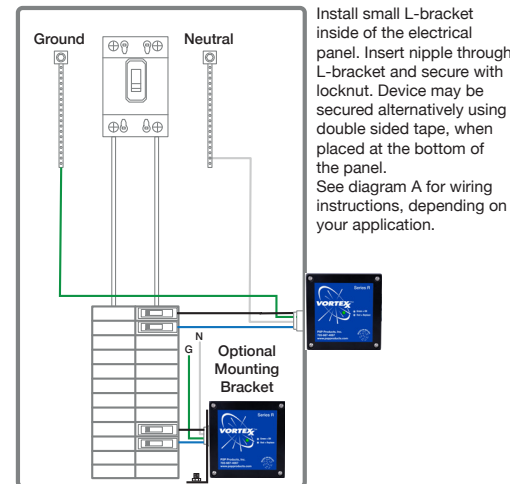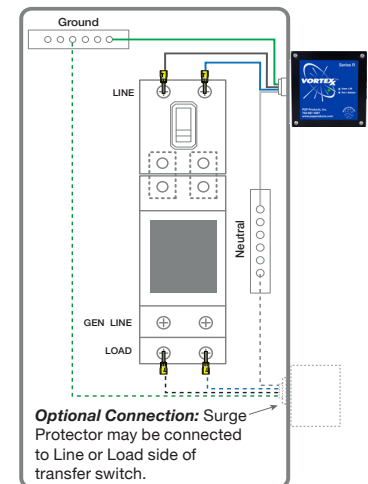Load connection

Diagram B Internal Panel Mount

Ground Neutral
N
G Optional Mounting Bracket

Install small L-bracket inside of the electrical panel. Insert nipple through L-bracket and secure with locknut. Device may be secured alternatively using double sided tape, when placed at the bottom of the panel.
See diagram A for wiring instructions, depending on your application.

Diagram C Type 1 Install: Transfer Switch with Piggyback Connectors or Ring Terminals

Ground
LINE
Neutral
GEN LINE
LOAD

Optional Connection: Surge Protector may be connected to Line or Load side of transfer switch.

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5.6.25