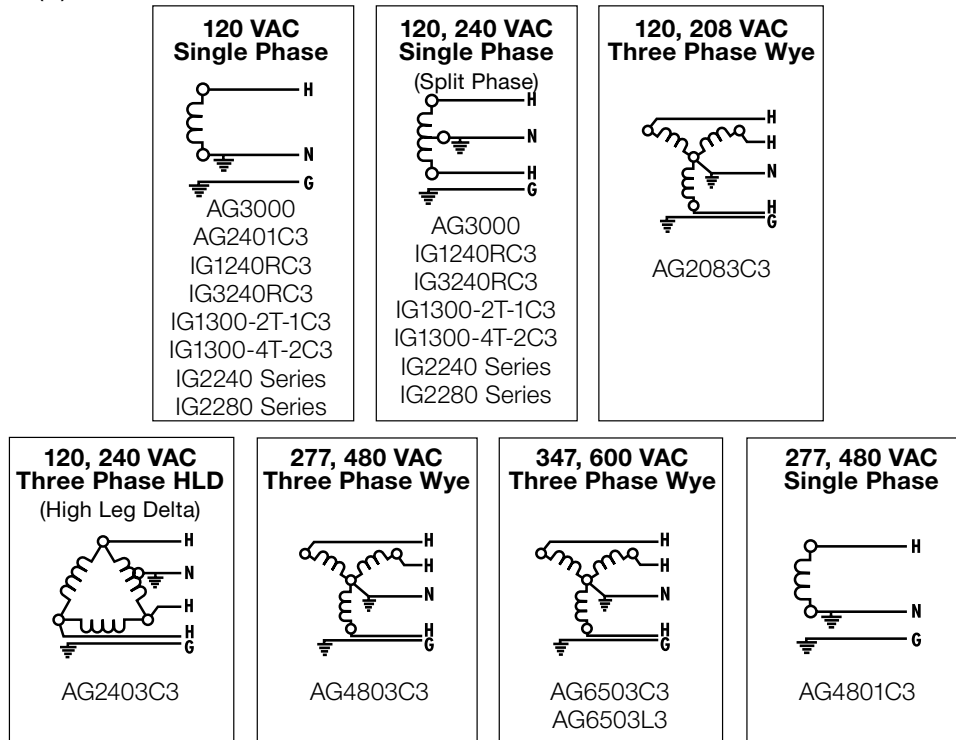


## Common Voltage Configurations

The wiring diagrams below illustrate the common voltage configurations for Intermatic surge products. Locate the desired voltage configuration and surge protector part number, and then go to the applicable product page to order the desired item(s).



*Note: All SPDs protect against surges that travel along the electrical pathway and are not applicable to direct lightning strikes that travel down non-electrical paths. Be sure to have at least a 20 A dual pole breaker(s) to help prevent the circuits from shorting. Type 1 SPDs are normally mounted before panels, which would not include a breaker.*

## Surge Glossary

**Maximum Continuous Operating Voltage (MCOV):** The maximum RMS voltage that may be applied to each mode of a surge protection device. (Listed on the product)

**Modes Of Protection:** Electrical paths within a system which an SPD offers defense against surge events. Examples of protection include, Line to Neutral (L-N), Line to Ground (L-G), Line to Line (L-L) and Neutral to Ground (N-G). (Listed on the product)

**Nominal Discharge Current (In):** Peak value of the current through the SPD having a current wave shape of 8/20 where the SPD remains functional after 15 surges. (Listed on the product)

**Nominal System Voltage:** The voltage level at which a system normally operates. Nominal system voltages include, but are not limited to, 120, 208, 240, 277, 347, 480, 600 VAC. (Listed on the product)

**Short Circuit Current Rating (SCCR):** The measurement of how much current the electrical system can supply during a fault condition. This value determines where an SPD may be installed. (Listed on the product)

**Surge:** A sudden and sharp increase of current or voltage within electric circuits.

**Surge Protective Device (SPD):** A device used to limit a surge on equipment by diverting or limiting it. SPDs were previously known as Transient Voltage Surge Suppressors or secondary surge arresters.

**Voltage Protection Rating (VPR):** The value assigned by UL which specifies the measured limited voltage value of the SPD. VPR rating is formally known as the "suppressed voltage rating". (Listed on the product)

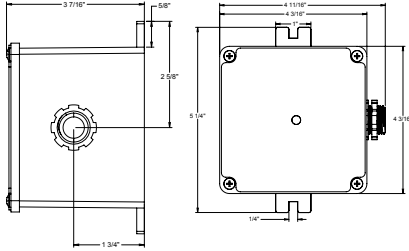
# Surge Protection

Type 1 or 2 SPD for Residential and Light Commercial



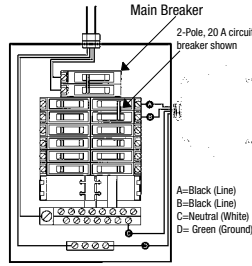
IG3240RC3

## Dimensions

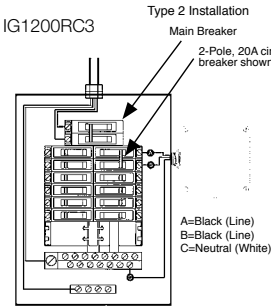


## Type 2 Installation

IG1240RC3/IG3240RC3



IG1200RC3



## IG Series, SPD

Type 1 or Type 2 SPD

The IG Series Surge Protective Devices (SPD) are designed for a variety of applications. A green LED indicator provides status of protection. Trusted, state-of-the-art TPMOV® (Thermally Protected Metal Oxide Varistor) surge protection technology eliminates the potentially hazardous failure modes that are commonly associated with standard MOV technology. Type 1 applications include outdoor installations before service entrances and utility meter cabinets. Type 2 applications include installations after service entrances. CSA certified to ANSI/UL 1449, 3rd Edition.

### Applications

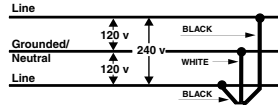
- Residential • Light Commercial

### Features

- Three or six modes of surge protection depending on model
- TPMOV® surge protection technology
- Green LED indicator provides status of protection
- Type 3R rainproof enclosure for indoor/outdoor applications in plastic or metal
- 3, 5 or 10-year product warranties
- \$7,500, \$10,000 or \$25,000 connected equipment warranties on appliances and electronics
- CSA certified to ANSI/UL 1449, 3rd Edition

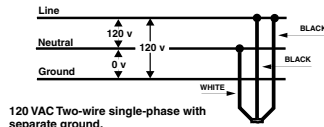
## Type 1 Installation

IG1200RC3



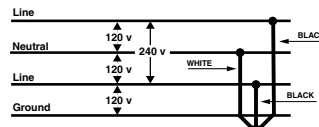
120/240 VAC Three-wire with grounded neutral.  
Found at Service Entrances and Meter Cans.

IG1200RC3



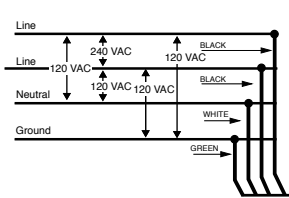
120 VAC Two-wire single-phase with separate ground.  
Found at connections for individual pieces of equipment such as pumps and single-phase motors.  
NOTE: Both Black wires connect to Line.

IG1200RC3



120/240 VAC Three-wire with separate ground.  
Found in Main Disconnect Switches, Main Distribution panels, Load Centers Sub panels and equipment locations.

IG1240RC3/IG3240RC3



Model #	Modes of Protection	MCOV* (V)	VPR** (V)	No. of Leads/ Length	Lead Gauge	Product Warranty	Connected Equip Warranty
<b>Outdoor Type 3R Plastic</b>							
<b>IG1200RC3</b>	3 (L1-N, L2-N, L1-L2)	L1-N/G 150 V L-L 300 V	L1-N/G 700 V L-L 1200 V	3/30"	#12 AWG, Tinned Copper	3-year	3-year /\$7,500
<b>IG1240RC3</b>	6 (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)	L-G, L-L 300 V L-N, N-G 150 V	L-L 1200 V L-G 1200 V L-N 700 V N-G 700 V	4/30"	#12 AWG, Tinned Copper	5-year	5-year /\$10,000
<b>Outdoor Type 3R Metal</b>							
<b>IG3240RC3</b>	6 (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)	L-G, L-L 300 L-N, N-G 150	L-L 1200 V L-G 1200 V L-N 700 V N-G 700 V	4/30"	#12 AWG, Tinned Copper	10-year	10-year /\$25,000

\*Maximum Continuous Operating Voltage

\*\*Voltage Protection Rating



Ratings	
<b>Service Voltage</b>	120-240 VAC, 50 Hz; 120-240 VAC, 60 Hz
<b>Phase</b>	Single
<b>SPD Type</b>	1 or 2
<b>In†</b>	20 kA
<b>SCCR††</b>	100 kA
<b>Surge Protection Technology</b>	TPMOV®
<b>Operating Temperature</b>	-31° F to 185° F (-35° C to 85° C)
<b>Dimensions</b>	See Drawings Above

† Nominal Discharge Current

†† Short Circuit Current Rating

## Accessories

Flush Mount Kit for IG1200RC3 / IG1240RC3	IG1240FMP33
Flush Mount Kit for IG3240RC3	IG3240FMP33



IG1240FMP33



IG3240FMP33