

## Surge Protection Device - HVAC Surge Protective Device

Item AG3000



### PRODUCT DESCRIPTION

Power surges are the silent killer for home appliances and HVAC equipment. Most homeowners protect their electronics, but leave more valued equipment unprotected. Surges can wipe out equipment and leave you searching for answers. Search no more. The easy-to-install AG3000 Surge Protective Device (SPD) is the perfect add-on for HVAC equipment. A green LED indicator provides the status of protection. Trusted, state-of-the-art TPMOV® (Thermally Protected Metal Oxide Varistor) technology eliminates the potentially hazardous failure modes that are commonly associated with standard MOV technology. UL Listed to ANSI/UL 1449, 4th Edition.

### FEATURES

- ▶ Three modes of protection: L-G, L-L, L-N
- ▶ TPMOV® surge protection technology
- ▶ Green LED indicator provides status of protection
- ▶ Type 4X watertight and UV resistant plastic enclosure
- ▶ 3-year product warranty
- ▶ \$7,500 connected equipment warranty for 3 years
- ▶ UL Listed to ANSI/UL 1449 4th edition
- ▶ Three modes of protection: L-G, L-L, L-N
- ▶ TPMOV® surge protection technology
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### APPLICATIONS

- ▶ Boilers
- ▶ Hydronic Heating
- ▶ Heat Pumps
- ▶ Furnaces
- ▶ Central Air Conditioning
- ▶ Air Handlers
- ▶ Mini-splits
- ▶ Instantaneous Water Heaters

### TECHNICAL DATA

#### General

Model Number	AG3000
Description	HVAC Surge Protective Device
UPC Code	078275130678
Brand	Intermatic
Country of Origin (Intermatic)	MEXICO
Warranty	3-year
Connect Equipment Warranty Period	3-year
Connected Equipment Warranty Coverage (USD)	\$7,500

#### Mechanical Specifications

Number of Wire Leads	3
Enclosure Type	Indoor/Outdoor Type 4X

#### Electrical Specifications

Voltage Configuration (Single Phase)	120 VAC, 50 Hz; 240 VAC, 50 Hz; 120 VAC, 60 Hz; 240 VAC, 60 Hz
Modes of Protection	3 (L1-N, L2-N, L1-L2)
Nominal Discharge Current	20 kA
Maximum Continuous Operating Voltage (L-G)	150
Maximum Continuous Operating Voltage (L-L)	300
Maximum Continuous Operating Voltage (L1-N/G)	150
Short Circuit Current Rating	100 kA
Voltage Protection Rating (L-L)	1200
Wiring Option	Wire Leads
Voltage Protection Rating (L1-N/G)	700
Surge Protection	TPMOV®
Phase	Single

#### Control Specifications

Has Module Power Switch	False
Surge Protection Type	1; 2
Surge Protection LED Indicator	Green

#### Environmental Specifications

Operating Temperature	-40 °F to 158 °F / (-40 °C to 70 °C)
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#### Standards and Certifications

UL Certification	cULus
RoHS Certification	True
Other Certifications	HVACR
UL Certification (Type 1)	US SPD Type 1; Canada SPD Type 1
UL Certification (Type 2)	US SPD Type 2
UL Standard	Ansi/UL 1449 4th Edition
California Proposition 65	DEHP

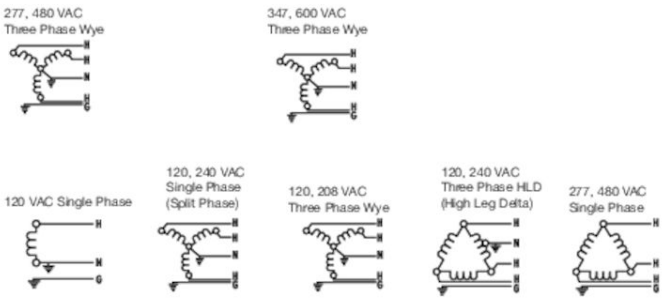
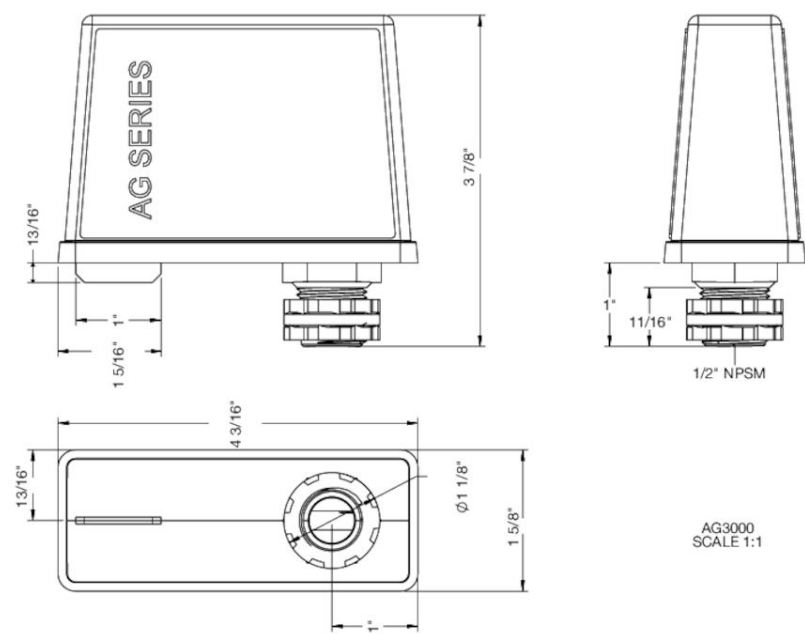
#### Dimensions

Product Dimensions (H x W x D)	3 7/8 x 1 5/8 x 4 3/16 in
Wire Lead Length (in)	18
Wire Size Max	#10 AWG, Tinned Copper

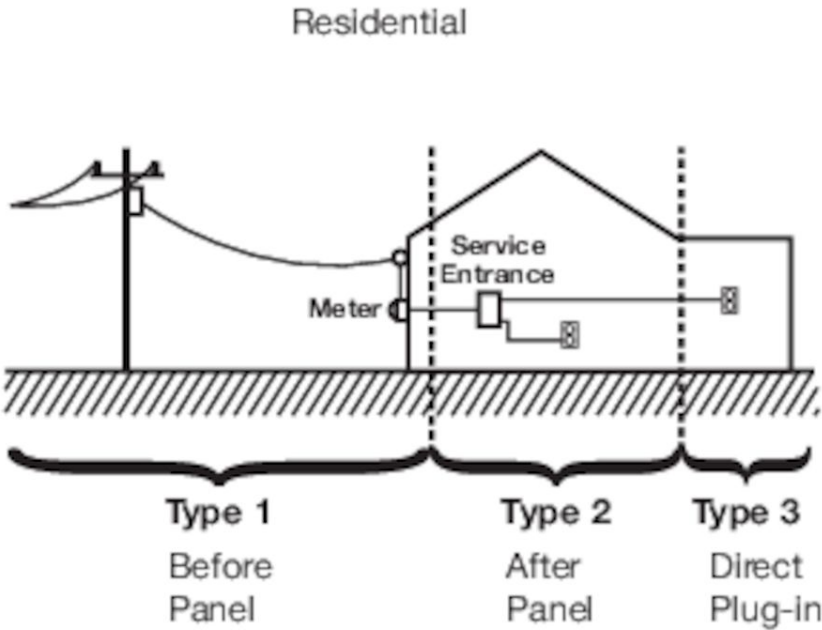
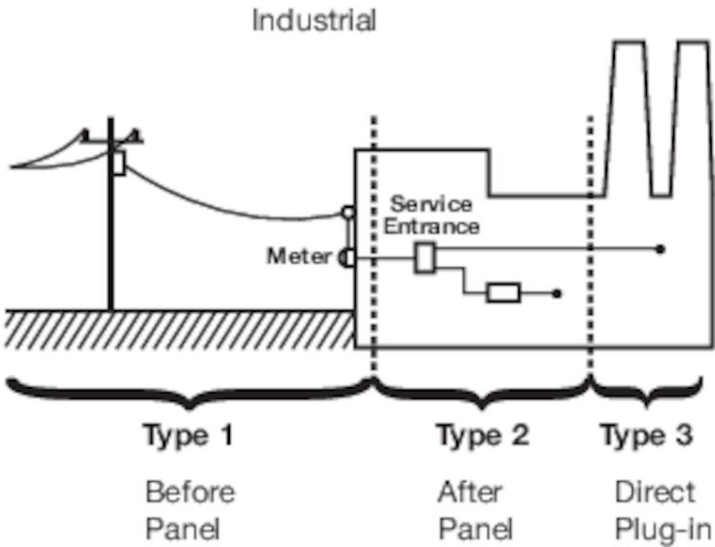
#### Packaging

Shipping Weight (lbs)	0.65
Shipping Weight (kg)	0.295
Unit Carton Height (in)	4.5
Unit Carton Width (in)	2
Unit Carton Length (in)	4.25

CIRCUIT DIAGRAMS



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.



WIRING DIAGRAM

