

Surge Protection Device - Surge Protective Device, 3-Mode, 120/240 VAC 1Ph, Type 1 or Type 2, Outdoor, Connected Equipment Warranty 3yr \$7,500

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

APPLICATIONS

- ▶ Distribution Panel
- ▶ Service Entrance
- ▶ HVAC Equipment Protection

TECHNICAL DATA

General	
Model Number	AG3000
Description	Surge Protective Device, 3-Mode, 120/240 VAC 1Ph, Type 1 or Type 2, Outdoor, Connected Equipment Warranty 3yr \$7,500
UPC Code	078275130678
Brand	Intermatic
Country of Origin (Intermatic)	MEXICO
Warranty Period	3-Year limited
Connected Equipment Warranty Period	3-Year limited
Connected Equipment Warranty Coverage (USD)	7500
Surge Protection Type	1; 2
Electrical Specifications	
Modes of Protection	3 (L1-N, L2-N, L1-L2)
Short Circuit Current Rating	100 kA
Nominal Discharge Current	20 kA
Maximum Surge Current Rating Per Phase	50 kA
Surge Protection Technology	TPMOV®
Maximum Continuous Operating Voltage (L-G)	150
Maximum Continuous Operating Voltage (L-L)	300
Maximum Continuous Operating Voltage (L1-N/G)	150
Voltage Protection Rating (L-L)	1200
Voltage Protection Rating (L1-N/G)	700

Phase	Single
Voltage	120/240 VAC Single-Phase

Control Specifications

Undervoltage Pickup [120 VAC] (VAC)	104
Undervoltage Pickup [208 VAC] (VAC)	180
Undervoltage Pickup [240 VAC] (VAC)	208
Surge Protection LED Indicator	Green

Mechanical Specifications

Number of Wire Leads	3
Enclosure Type	Indoor/outdoor type 4X

Dimensions

Product Dimensions (H x W x D) in	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
Unit Carton Dimensions (H x W x L) in	4.5 x 2 x 4.25 in

Environmental Specifications

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

UL Certification	cULus
Other Certifications and Compatibilities	HVACR
UL Standard	Ansi/UL 1449 4th Edition
California Proposition 65	DEHP

DRAWINGS AND DIAGRAMS

Residential

Type 1
Before
Panel

Type 2
After
Panel

Type 3
Direct
Plug-in

Industrial

Type 1
Before
Panel

Type 2
After
Panel

Type 3
Direct
Plug-in

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.

AG3000
SCALE 1:1

Main Breaker
2-Pole, 20 A circuit
breaker shown

A=Black (Line)
B=Black (Line)
C=Grounded/Neutral (White)

AG3000 Wiring Diagram - Type 1
240 VAC

AC Disconnect
L1 (black)
Grounded/Neutral (white)
L2 (black)
Main Service Panel
AG3000

Main Breaker
2-Pole, 20 A circuit
breaker shown

A=Black (Line)
B=Black (Line)
C=Grounded/Neutral (White)

AG3000 Wiring Diagram - Type 1
120 VAC

AC Disconnect
L1 (black)
Grounded/Neutral (white)
Main Service Panel
AG3000