

HVAC

Let our power protection duo safeguard systems from undervoltages, surge and system short cycling.



DID YOU KNOW? We offer NATE-Certified HVAC Technician training.

NATE-certified technicians are trusted for their knowledge of today's increasingly sophisticated heating and cooling systems. Intermatic makes it easy for HVAC technicians to stay up-to-date on the latest technology by offering classes as needed.

>> Contact your Intermatic sales representative for more information.



Fast installation. Unmatched protection.

Today's HVAC equipment is more technologically advanced and expensive; yet, it remains susceptible to damage from poor power quality, such as voltage surges and brownouts. Damage from these types of events are typically not covered in a manufacturer's or extended warranty. Our powerful tag team of the Compressor Defender™ and AG3000 fill the out-of-warranty coverage gap by protecting expensive air conditioning system components and furnaces. Covered components include:

- Compressors and circuit boards in residential and light commercial applications
- Central AC and heat pump condensing unit applications
- High-efficiency furnaces, boilers and ductless mini-splits

The Compressor Defender™ and AG3000 feature:

- State-of-the-art TPMOV® surge protection technology
- Fast, simple, 10-minute or less installation onto disconnects
- Minimize nuisance callbacks to save time and money
- Industry-leading 3-year product warranty and 3-year, \$7,500 connected equipment warranty on the compressor and all electronic parts
- Cost-effective solutions, great upsells for seasonal service promotions
- Meet ANSI/UL Listed 1449, 4th Edition standards
- Together this duo offers complete system surge and brownout protection and peace-of-mind for your customers

Compressor Defender™

Brownout, Surge and Short Cycle Protection — CD1-024R

Rapid Off/On cycling can be extremely hard on an A/C unit's compressor, causing it to restart against high pressures. This strain can overheat and damage the compressor motor windings. Designed specifically for central air conditioners and heat pumps, the Compressor Defender™ is the only all-in-one undervoltage and surge power protection device on the HVAC market for central A/C and heat pump condensing units and their associated motors, controls and components – both electronic and mechanical. It installs easily inside the condensing unit or externally on the outdoor A/C disconnect.

- Instantaneous 5-line cycle* undervoltage response time
- Power Disruption Response Time: 3-line cycles*
- 120/208-240 VAC universal input
- 24 VAC/VDC, 2 A control thermostat output
- Surge and brownout protection with 3-minute short cycle feature
- Two LED indicators provide real time status
- Undervoltage protection complies with AHRI standard 110-2016 Range B Protective Device
- Type 3 UV-resistant plastic enclosure
- Type 2 Surge Protective Device

HVAC Surge Protection — AG3000

Your customers might be shocked to learn that replacement parts in their HVAC system may be covered under warranty, however, labor is not. When a surge occurs, circuit boards, variable speed motors and switches in HVAC systems are all susceptible to costly repairs.

The AG3000 HVAC Surge Protective Device connects to the furnace/air handler disconnect to protect new high-efficiency furnaces, hydronic heating systems, air handlers, central air conditioners, wall-hung boilers, heat pumps and ductless mini-splits from surges.

- Three modes of protection
- Type 1 or Type 2 Surge Protective Device
- Green LED indicator provides status of protection
- Type 4X watertight and UV-resistant plastic enclosure

*Typical Response Time

Residential/Commercial

Rely on the industry's best ratings for whole house surge protection.



DID YOU KNOW? Consumable Modules can be replaced in less than 1 minute!

See how easy and safe it is to replace a Consumable Module. Our video demonstrates each step.

>> Scan this QR code to watch the video.



Homeowners may already have a surge strip for a new computer or flat screen TV. But what about the thousands of dollars they've invested in the kitchen, laundry, garage door opener, smart thermostats, home automation controls, heating and ventilation equipment and specialty lighting? As the electronics we rely on for home and business become "smarter," the components become more complicated to repair.

Protect a home or business owner's investments with surge protective devices that are backed with both product and connected equipment warranties. Intermatic's Type 1 and 2 SPD's offer the industry's best ratings and state-of-the-art surge protection technology.

Surge Protective Device with Consumable Modules

Intermatic's Surge Protective Device with Consumable Modules has received multiple awards, including Category Winner of EC&M's prestigious Product of the Year in 2015. Consumable Modules with LED lights enable quick and easy indication when protection has been compromised. No need to hard-wire in a new SPD; replacing an affected module is as easy as changing a printer cartridge; simply remove the old one and snap in the new!

Our whole house Surge Protective Device (SPD) with Consumable Modules installs onto the main electrical panel and covers a homeowner's big investment equipment, from appliances and computers, to HVAC equipment and TV's.

- State-of-the-art TPMOV® surge protection technology
- Six modes of protection
- Module Power Switch enables convenient disconnection of power at the SPD (IG2240-IMS only)
- Includes three Consumable Modules with LED power and protection status lights
- Type 3R metal rainproof enclosure for indoor or outdoor applications
- 10-year product warranty
- \$25,000 connected equipment warranty for 10 years on appliances and electronics

Hard Wired Surge Protective Devices — IG Series

The IG Series is designed for both indoor and outdoor installations and is ideal for residential and light commercial applications.






- State-of-the-art TPMOV® surge protection technology
- Three or six modes of surge protection depending on model
- Green LED indicator provides status of protection
- Type 3R rainproof enclosure for indoor or 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









Telephone Line or Coax Cable Protection — IG1300 Series

From all-in-one AC/phone/cable (up to multiple lines) to separate telephone (expandable up to 12) and coax modules (expandable up to 6), we've got it covered! The IG1300 Series safeguards telephone lines and coax cables as well as AC power.

- Designed for installations after service entrances in Type 2 applications
- Six modes of protection for AC SPD
- Type 3R plastic rainproof enclosure for indoor/outdoor installations
- UL 497A for telephone protection
- UL 497B for coax protection
- 5-year product warranty
- \$10,000 connected equipment warranty for 5 years on appliances and electronics

Surge Selection Guide

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|--|---|---|---|--|---|---|
| SPD Ratings | IG2240-IMS | IG2280-OM/IM | IG1200RC3 | IG1240RC3 | IG3240RC3 | IG1300-2T/4T (AC, Phone, Coax) |
| SPD Type | 1 or 2 | 2 | 1 or 2 | 1 or 2 | 1 or 2 | 2 |
| Service Voltage | 120/240 VAC 50/60 Hz | 120/240 VAC 50/60 Hz | 120/240 VAC 50/60 Hz | 120/240 VAC 50/60 Hz | 120/240 VAC 50/60 Hz | 120/240 VAC 50/60 Hz |
| Phase | Single | Single | Single | Single | Single | Single |
| Modes of Protection | 6 | 6 | 3 | 6 | 6 | 6 |
| Surge Protection Technology | TPMOV® | TPMOV® | TPMOV® | TPMOV® | TPMOV® | TPMOV® (AC Only) |
| Nominal Discharge Current (kA) | 10 | 20 | 20 | 20 | 20 | 20 |
| Short Circuit Current Rating (kA) | 10 | 100 | 50 | 50 | 50 | 50 |
| Maximum Continuous Operating Voltage (V) | L-N, N-G 150 L-L, L-G 300 | L-N, N-G 150 L-L, L-G 300 | L-N, L-G 150 L-L 300 | L-N, N-G 150 L-L, L-G 300 | L-N, N-G 150 L-L, L-G 300 | L-N, N-G 150 L-L, L-G 300 |
| Voltage Protection Rating (V) | L-L, L-G 1500 L-N 800 N-G 700 | L-L 1200 L-G 1500 L-N 800 N-G 700 | L-L, 1200 L-N, L-G 700 | L-L, L-G 1200 L-N, N-G 700 | L-L, L-G 1200 L-N, N-G 700 | L-L, L-G 1200 L-N, N-G 700 |
| Agency Listing | UL Listed | UL Listed | CSA Certified | CSA Certified | CSA Certified | CSA Certified |
| Product Warranty | 10-year | 10-year | 3-year | 5-year | 10-year | 5-year |
| Connected Equipment Warranty | 10-year/\$25,000 | 10-year/\$25,000 | 3-year/\$7,500 | 5-year/\$10,000 | 10-year/\$25,000 | 5-year/\$10,000 |

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|--|---|---|---|---|--|---|---|---|
| SPD Ratings | Compressor Defender™ | AG3000 | AG2401C3 | AG48013 | AG2083C3 | AG4803C3 | AG6503C3/L3 | AG2403C3 |
| SPD Type | 2 | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 |
| Service Voltage | 120/208-240 VAC 60 Hz | 120/240 VAC 50/60 Hz | 120/240 VAC 50/60 Hz | 277/480 VAC 50/60 Hz | 120/208 VAC 50/60 Hz | 277/480 VAC 50/60 Hz | 347/600 VAC 50/60 Hz | 120/208/240 VAC High Leg Delta 50/60 Hz |
| Phase | Single | Single | Single | Single | Three | Three | Three | Three |
| Modes of Protection | — | 3 | 3 | 3 | 6 | 6 | 6 | 6 |
| Surge Protection Technology | TPMOV® | TPMOV® | TPMOV® | TPMOV® | TPMOV® | TPMOV® | TPMOV® | TPMOV® |
| Nominal Discharge Current (kA) | 10 | 10 | 20 | 20 | 20 | 20 | 20 | 20 |
| Short Circuit Current Rating (kA) | 20 | 20 | 50 | 50 | 50 | 50 | 50 | 50 |
| Maximum Continuous Operating Voltage (V) | L-L 300 L-N/G 150 | L-L 300 L-N 150 | L-L 300 L-G, L-N 150 | L-L 640 L-G, L-N 320 | L-L 300 L-G, L-N 150 | L-L 640 L-G, L-N 320 | L-L 840, L-G, L-N 420 | L1/L3-N/G 150 L2-N/G 270, L1-L3 300, L1/L3-L2 420 |
| Undervoltage Response Time | 5 Line Cycles* | — | — | — | — | — | — | — |
| Short Cycle Delay | 3 Min | — | — | — | — | — | — | — |
| Relay Rating | 2 A, 24 VAC | — | — | — | — | — | — | — |
| Voltage Protection Rating (V) | L-L 1200 L-G, L-N 700 | L-L 1200 L-G, L-N 700 | L-L 1200 L-G, L-N 700 | L-L 2000 L-G, L-N 1200 | L-L 1200 L-G, L-N 700 | L-L 2000 L-G, L-N 1200 | L-L 2500 L-G, L-N 1500 | L1/L3-N/G 700 L2-N/G 1000, L1-L3 1200, L1/L3-L2 1500 |
| Agency Listing | UL Listed, 4th Edition | UL Listed, 4th Edition | CSA & UL Listed | CSA & UL Listed | CSA & UL Listed | CSA & UL Listed | CSA & UL Listed | CSA |
| Product Warranty | 3-year limited | 3-year | 1-year | 1-year | 1-year | 1-year | 1-year | 1-year |
| Connected Equipment Warranty | 3-year/\$7,500 | 3-year/\$7,500 | — | — | — | — | — | — |

*Typical Response Time