

# MARS Surge Protection Devices

Protect Your Investment



**Ultimate  
Protection**



# Leading Surge Protection

**Leading Technology** – MARS Surge Protection utilizes a thermally protected MOV. No other technology provides comparable protection.

**Leading Warranty** – We warrant both the surge protector and connected equipment for three years.

**Leading Portfolio** – Whether protecting a condensing unit, furnace, or mini-split, we have the right product for your application.

## No matter where you live, your home will experience power surges and spikes.

Power surges are the silent killer for home appliances and HVAC equipment. Most homeowners protect their electronics, but leave the more valued equipment unsecured. Power surges can wipe out your HVAC equipment and leave you searching for answers as well as costing you significant dollars in replacement costs. Hopefully, this occurrence is not when the outside temperature is 98 degrees.

Speaking of cost..... How much is your peace of mind during the next storm or power surge worth?



### Product & Connected Device Warranty

#### Warranty Guidelines & Procedures

**3 Year Product Warranty**  
**\$7,500 Connected Device Warranty**

## Furnace/Air Handler Surge Protection Device

**Protects:**

- 120V Ductless Systems
- Furnace & Air Handlers
- Inverter Boards
- ECM Motors
- Control Boards
- Transformers
- Relays
- Sensors

**Features:**

- Easy 2 Wire Installation
- 10" Pre-stripped Leads
- Green LED Status Indicator
- Thermally Protected MOVs
- 120V Single Phase 50/60Hz
- Short Circuit Current Rating
  - 10,000 Amps
- MCOV L-G 150V
- Voltage Protection Rating
  - L-G 700V
- UL 1449 4th Edition
- Type 1 or 2 Surge Protection Rating



MARS NO.	VOLTAGE	WIRE CONFIGURATION	SPD TYPE	MCOV	ENCLOSURE	UL 1449 4TH EDITION
83904	120	L-G	1 or 2	150	Type 2	cULus

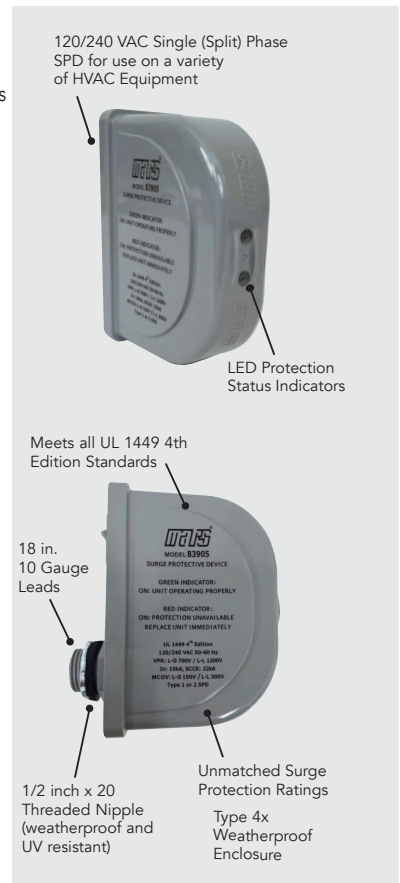
## HVAC Surge Protection Device

**Protects:**

- Compressors
- Heat Pumps
- Ductless Systems
- Inverter Boards
- ECM Motors
- Control Boards
- Transformers
- Relays
- Sensors

**Features:**

- Easy Installation to Disconnect
- Weatherproof 4X Enclosure
- 18" Pre-stripped Leads
- Green & Red LED Status Indicators
- Thermally Protected MOVs
- 120/240V Single (Split) Phase 50/60Hz
- Short Circuit Current Rating
  - 22,000 Amps
- MCOV L-G 150V / L-L 300V
- Voltage Protection Rating
  - L-G 700V / L-L 1200V
- UL 1449 4th Edition
- Type 1 or 2 Surge Protection Rating



MARS NO.	VOLTAGE	WIRE CONFIGURATION	SPD TYPE	MCOV	ENCLOSURE	UL 1449 4TH EDITION
83905	120/240	L-L, L-G	1 or 2	150/300	Type 4X	cULus

# MARS Surge Protection Devices

## HVAC iNtelligent Surge Protection Device

The iSP (iNtelligent Surge Protection) offers comprehensive protection for your HVAC equipment.

The MARS 83907 Surge Protection Device is designed to provide maximum compressor protection from harmful power surges, transients and over-voltages utilizing the latest Thermally Protected MOV technology.

In addition, the modules microprocessor technology monitors line voltage to protect the compressor from starting or running during "brown outs" and low line voltage. The module also monitors refrigerant temperatures to identify coil freeze-up and or low refrigerant issues.

If the module detects a low voltage or refrigerant issue the compressor is shut down. The module will automatically reset when specified operating parameters are restored and determined to be stable.

In the event of diminished surge protection or failure, the compressor will not be allowed to start until the module is replaced.

### Protects:

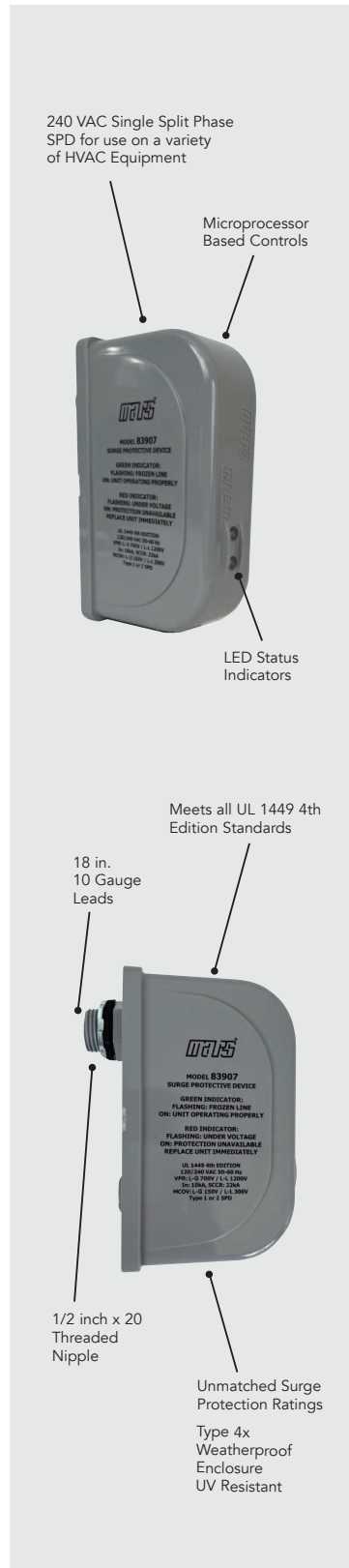
- Compressors
- Heat Pumps
- Control & Defrost Boards
- Reversing Valves
- Sensors & Relays
- ECM Motors
- Transformers

### Plus:

- Brown Out Protection
- Over Voltage Protection
- Coil Freeze-up / Low Refrigerant Detection
- Short Cycle Guard

### Features:

- Easy Installation to Disconnect Box
- Weatherproof 4X Enclosure
- Fits 1/2" Knockouts
- Green & Red LED Status Indicators
- Thermally Protected MOV's
- 240V Single Phase 50/60Hz
- Max Surge Current 10,000 A
- MCOV L-G 150V / L-L 300V
- Voltage Protection Rating
  - L-G 700V / L-L 1200V



MARS NO.	VOLTAGE	WIRE CONFIGURATION	SPD TYPE	MCOV	ENCLOSURE	UL 1449 4TH EDITION
83907	240	L-L, L-G	1 or 2	150/300	Type 4X	cULus

## Side Open Disconnect with Internal Surge Module

MARS disconnects with integrated surge protection module provide a unitized design for quick and clean installation. The metal weather resistant enclosure provides additional robustness and security. MARS Surge Protectors provide the performance necessary to protect critical components in high efficiency mini-split and unitary HVAC equipment.

### Protects:

- Compressors
- Heat Pumps
- Ductless Systems
- Inverter Boards
- ECM Motors
- Control Boards
- Transformers
- Relays
- Sensors

### Features:

- Side Open Disconnect
- Integrated Internal Surge Protector
- Thermally Protected MOV's
- Metal Weather Resistant Enclosure
- External Green & Red LED Status Indicators

### Specifications Disconnect:

- Single (Split) Phase 240V
- 10,000 Amp Rating
- NEMA 3R Enclosure
- Weatherproof Enclosure

### No. 83910 Surge Protector Ratings:

- 120/240V Single (Split) Phase 50/60Hz
- Short Circuit Current Rating
  - 22,000 Amps
- MCOV L-G 150V / L-L 300V
- Voltage Protection Rating
  - L-G 700V / L-L 1200V
- UL 1449 4th Edition
- Type 1 or 2 Surge Protection Rating



Replacement Surge Module

MARS NO.	DESCRIPTION	ENCLOSURE	INCLUDES SURGE PROTECTOR
83915	60 Amp Non-Fused w/Surge Module	NEMA 3R, Rainproof	MARS NO. 83910
83916	30 Amp Fused w/Surge Module	NEMA 3R, Rainproof	MARS NO. 83910
83917	60 Amp Fused w/Surge Module	NEMA 3R, Rainproof	MARS NO. 83910

MARS NO.	DESCRIPTION
83910	Replacement Surge Module For 83915, 83916 and 83917

## MARS Side Open Disconnect with Surge Pull-out

This patent pending disconnect features a pull-out with integrated surge protection. Because the module is integrated into the pull-out, it is as easy to install as a traditional disconnect. The enclosure offers secure, weather resistant protection. LEDs indicating the protection status of the SPD pull-out are visible through a window in the enclosure. MARS Surge Protectors provide the performance necessary to protect critical components in high efficiency mini-split and unitary HVAC equipment.

### Protects:

- Compressors
- Heat Pumps
- Ductless Systems
- Inverter Boards
- ECM Motors
- Control Boards
- Transformers
- Relays
- Sensors

### Easy Installation:

- Pull-out Contains SPD Function
- Easy as Wiring a Standard Disconnect
- Metal Enclosure
- Clean Appearance

### Specifications:

- Thermally Protected MOV's
- External Green and Red LED Status Indicators
- 240V Single (Split) Phase 50/60Hz
- 10,000 Amp Rating
- NEMA 3R Rainproof Enclosure
- Short Circuit Current Rating
  - 25,000 Amps
- MCOV L-G 150V / L-L 300V
- Voltage Protection Rating
  - L-G 600V / L-L 1200V
- Type 2 Surge Protection Rating
- UL Listed, UL 1449 4th Edition
- Patent Pending

Convenient Side-Open Design



Microprocessor Based Controls

LED Status Indicators

Window for LED Status Indicators

SPD Integrated into Pull-out



MARS NO.	DESCRIPTION	VOLTAGE	SPD TYPE	MCOV	ENCLOSURE
83925	60 Amp Non-Fused w/ Surge Pull-Out	240	2	150/300	NEMA 3R, Rainproof