

## MERLIN GERIN Multi 9 SPD Surge Protective Device



### Application flexibility

The Multi 9 family has been designed to meet the needs of OEMs for a wide range of applications, including:

- Custom control panels
- Telecommunications applications
- PLC automation cabinets
- Industrial electronics
- Single or three-phase power systems
- Numerous other OEM applications.

### Industry-leading, reliable protection up to 80,000 amps for DIN-rail applications

The compact MERLIN GERIN Multi 9 SPD offers an ideal solution for protecting equipment from the damaging effects of surges. These parallel, DIN-rail mountable, terminal connected devices include 1-pole, 2-pole and 4-pole models with up to 80,000 amps surge protection. They are also used in conjunction with the Multi 9 family of circuit breaker and supplementary protector products to provide a uniform solution for your application.

While our compact design ensures superior OEM design flexibility, the Multi 9 family also addresses critical user needs with features that:

- Extend equipment life
- Increase reliability
- Prevent loss of data
- Prevent interruptions in production
- Reduce service calls and maintenance costs
- Prevent unexpected equipment failure.

This product line is the only DIN-rail mounted product offering with models available in most international voltages for both single- and three-phase power systems.

### Features that Simplify and Enhance Your Design

- DIN-rail design – mounts to industry-standard rails, easily conforming to production processes
- Compact enclosures – simplify installation and mount in restricted space, preserving valuable cabinet space
- Multiple surge capacities – provide a flexible selection to meet specific requirements, assuring the best protection value
- Status indication – provides easy visual indication of device operational status
- Form C dry contacts (optional) – enable remote and/or automated status alerts for added protection
- Plug-in modules (single-pole) – enable module replacement without unwiring electrical connections, avoiding costly rewiring and extended downtime
- Thermal fuse – protects against extreme surge currents, prevents dangerous thermal runaway conditions if MOVs are damaged during a transient event
- Parallel-mounted – avoids operational downtime during maintenance when connected through a breaker
- UL and cUL Recognized to UL 1449-Second Edition, and CSA C22.2 No. 0-M91 and No. 8-M1989 and IEC 61643-1 – meets UL and IEC requirements, providing one solution for the entire product range.


Merlin Gerin

Modicon

Square D

Telemecanique

Schneider Electric Brands

**Schneider**  
 **Electric**

## MERLIN GERIN Multi 9 SPD

### **Expertise and resources for unrivaled reliability**

*Schneider Electric has two UL-approved laboratories in the U.S. dedicated to testing and evaluating SPD technologies. In addition, we test all of our power protection devices within environments that simulate an entire power system. No other company offers you this level of assurance for proven product reliability.*

*Our Lightning Laboratory is one of the few places in the world where high-energy tests can be performed up to 175,000 amps. As a result, we can simulate worst-case scenarios and use the data to improve product performance and safety. In addition, our product design and development teams constantly evaluate new SPD technologies as well as regulatory changes. This assures that our products and systems satisfy all of your functional and delivery requirements and those of your customers anywhere in the world.*

### **Expertise that Drives Design**

Surge Protective Devices (SPDs) from Schneider Electric allow you to design with confidence, knowing your customers will receive the best possible protection. Reliable performance is our primary focus and our differentiation.

The Square D family of SPDs incorporates a wealth of electrical distribution and protection expertise that you can incorporate in your design. Over the past several years, we have dedicated extensive resources to advance the power quality industry, including:

- Studying the effects of transients and lightning on power systems
- Investigating SPD technologies and their coordination with the entire power system
- Defining appropriate product installation practices
- Driving improvements in the NEC, UL and ANSI codes and standards for the benefit of the industry and protection of users
- Designing products for improved performance
- Qualifying all Square D SPDs under severe power conditions to improve end-of-life conditions.

No other company has committed more money, time or resources to improve the SPD industry.



### Technical Specifications

- 1-pole with up to 65,000 amps surge suppression
- 2-pole with up to 45,000 amps surge suppression
- 4-pole with up to 80,000 amps surge suppression (three-phase)

### Selection and Safety Information

Catalog Number	Service Voltage (Un)	Poles	Maximum Surge Current/Phase (Imax)	UL® Suppressed Voltage Rating (SVR)		MCOV▲ (Uc)	Nominal Discharge Current (In)	IEC Voltage Protection Level	Protection Modes
				(L-N)	(N-G, N-PE)				
12710	120V	1	20kA	500V	–	150V	5kA	600V	L-N
12711	230V	1	20kA	700V	–	270V	5kA	960V	
12712	400V	1	20kA	1500V	–	480V	5kA	1580V	
12713	120V	1	45kA	500V	–	150V	10kA	750V	
12714*	120V	1	45kA	500V	–	150V	10kA	750V	
12715	230V	1	45kA	700V	–	270V	10kA	1000V	
12716*	230V	1	45kA	700V	–	270V	10kA	1000V	
12717	400V	1	45kA	1500V	–	480V	10kA	1450V	
12718*	400V	1	45kA	1500V	–	480V	10kA	1450V	
12719	120V	1	65kA	400V	–	150V	20kA	920V	
12720*	120V	1	65kA	400V	–	150V	20kA	920V	
12721	230V	1	65kA	700V	–	270V	20kA	1200V	
12722*	230V	1	65kA	700V	–	270V	20kA	1200V	
12723	400V	1	65kA	1200V	–	480V	20kA	1950V	
12724*	400V	1	65kA	1200V	–	480V	20kA	1950V	
12725	120V	2	20kA	400V	500V	150V	5kA	575V	L-N, N-G (N-PE)
12726	230V	2	20kA	700V	600V	270V	5kA	900V	
12727	120V	2	45kA	400V	500V	150V	10kA	775V	
12728	230V	2	45kA	700V	600V	270V	10kA	1080V	
12729	208Y/120V	4	20kA	400V	500V	300/150V	5kA	560V	
12730*	208Y/120V	4	20kA	400V	500V	300/150V	5kA	560V	
12731	400Y/230V	4	20kA	700V	600V	540/270V	5kA	900V	
12732*	400Y/230V	4	20kA	700V	600V	540/270V	5kA	900V	
12733	208Y/120V	4	45kA	400V	500V	300/150V	10kA	760V	
12734*	208Y/120V	4	45kA	400V	500V	300/150V	10kA	760V	
12735	400Y/230V	4	45kA	700V	600V	540/270V	10kA	1080V	
12736*	400Y/230V	4	45kA	700V	600V	540/270V	10kA	1080V	
12737	208Y/120V	4	80kA	400V	500V	300/150V	20kA	1040V	
12738*	208Y/120V	4	80kA	400V	500V	300/150V	20kA	1040V	
12739	400Y/230V	4	80kA	700V	600V	540/270V	20kA	1420V	
12740*	400Y/230V	4	80kA	700V	600V	540/270V	20kA	1420V	

Note: All models must be connected with Merlin Gerin Supplementary Protectors.

\*Dry contact option.

▲ MCOV = Maximum Continuous Operating Voltage.

## MERLIN GERIN Multi 9 SPD

**A design force focused on your needs for superior reliability and performance.** Schneider Electric offers a wide selection of quality surge protective devices engineered and tested to meet your specific design and application requirements. All of our design and testing is based on years of proven expertise, including extensive testing and qualification in the industry's most advanced facilities.

In addition to the MERLIN GERIN Multi 9 family of SPDs, you can also rely on these products for a variety of application needs:



**SURGELOGIC™ XR Surge Protective Devices** – Surge suppression protection with the added benefits of noise filtration capabilities in a compact, hardwired package for protection from surges up to 40,000 amps on single-phase power systems.



**SURGELOGIC™ XW Surge Protective Devices** – Available for three-phase power systems up to 600V, the XW is a hardwired TVSS capable of withstanding surges as high as 100,000 amps. The XW comes standard in a Type 1 enclosure with status lights, audible alarm and dry contacts.



**SURGELOGIC™ LC Surge Protective Devices** – A hybrid device (surge suppression and noise filtration) with up to 40,000 amps surge protection and -75dB of noise filtration; ideal for custom control and other applications with microprocessors, PLCs and motion control.



**SDSA Secondary Surge Arresters** – Designed to protect against lightning and high current such as antennas and parking lot lighting systems. These devices may also be used for surge protection of irrigation pumps, oil pumps and motors operating below 600V.



**SURGEBREAKER® Secondary Surge Arresters** – Specifically designed for QO or HOMELINE load centers, these SPDs easily plug into place for a secure fit, providing surge protection up to 40,000 amps.



**SURGELOGIC™ I-LINE® Surge Protective Devices (TVSS)** – Designed as the perfect match for I-LINE load centers, offering three-phase protection that easily snaps into place in retrofit or new installations; surge protection up to 160,000 amps and 240,000 amps.