



# Multi9 PRD1 75r

## Type 1 Surge Protective Devices (SPDs)

Multi9™ is a family of DIN rail modular devices, with great performance characteristics. It is a Schneider Electric global offer dedicated to equipment manufacturers (OEMs), meeting the major standards for industry applications. Designed to meet your needs for most types of machines, offering a wide range of modular devices, it provides protection, signaling functions and accessories.

Multi9 PRD1 75r Surge Protective Device is a UL 1449 type 1 recognized device, offering 75kA of protection, in a robust DIN rail mountable package with user replaceable modules for maximum flexibility.

Sensitive electronics are highly susceptible to surges and low voltage noise. Variable Frequency Drives (VFDs), Programmable Logic Controllers (PLCs), Human Machine Interfaces (HMI) and other electronic devices commonly found in industrial control panels are negatively impacted by these power quality events causing poor performance of the system.

In today's world, a proper power protection strategy is needed now more than ever. Schneider Electric can help combat problems associated with these type events.



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## Superior Performance

Multi9 PRD1 75r surge protective devices utilize a high-energy suppression circuit that provides protection of 75,000 peak Amps of surge current per phase. This rugged, compact 35mm DIN rail mounted device offers premium flexibility for installation inside control panels or other electrical enclosures. The 1, 2 & 3 pole versions can be installed Line to Neutral (L-N) or Line to Ground (L-G) for added flexibility. The 4 pole version adds Neutral to Ground (N-G) protection for the most critical applications. Form C dry contacts are standard and provide the option for remote status indication.

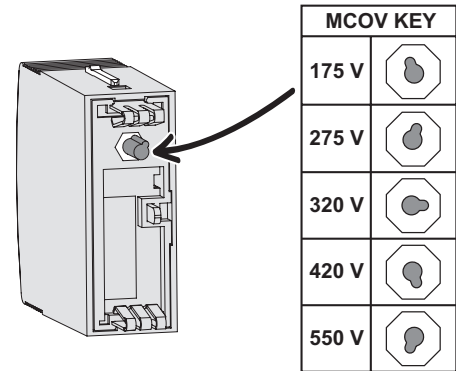


## Modular Construction

Multi9 PRD1 75r SPDs are designed for easy replacement of the surge suppression modules. These modules are keyed to ensure proper installation based upon the maximum continuous operating voltage (MCOV) configuration of the device.

## Warranty

Schneider Electric Multi9 PRD1 75r SPDs have a 2-year limited warranty.



Multi9 replaceable module

Features	Advantages	Benefits
<b>UL 1449 Type 1 recognized component</b>	Additional overcurrent protection devices (OCPD) not required for installations, though recommended for serviceability	Allows for easy installation inside a control panel without conditions of acceptability
<b>Coordinated Fuse Technology</b>	Coordinated fusing allows disconnection methods for thermal and high-current events	Provides premium surge suppression while managing both thermal and high-current end-of life events
<b>35mm DIN Rail Mounting</b>	Robust surge protection in a compact package	Quick and easy installation in control panels or other electrical enclosures
<b>75,000 Amp Surge Current Capacity</b>	Longer service life and suppression against high-energy surge events	High performance surge suppression even in severe electrical conditions
<b>Form C Dry Contacts</b>	Remote status indication	Allows for remote monitoring of SPD to local LED or PLC interface
<b>Mechanical Indicators</b>	Visual indication of the suppressor's functionality	Provides immediate visual indication if suppressor is damaged
<b>Modular Design</b>	Field replaceable protection modules	Allows for quick and easy replacement of modules to reduce downtime

# Specifications

Multi9 PRD1 75r	
Performance	
Surge Current Rating	75kA
Short Circuit Current Rating	200kAIC
Modes of Protection	1, 2, 3, 4
Fusing	Individually Fused MOVs
Thermal Fusing	Yes
Overcurrent Fusing	Yes
Operating Frequency	50/60 Hz
Mechanical Description	
NEMA Ratings	NEMA 1
Mounting Method	35 mm DIN Rail
Compression Lugs	14AWG - 4AWG (2 - 20 mm <sup>2</sup> )
Dry Contact Terminals	30AWG - 14AWG (0.05 - 2.5 mm <sup>2</sup> )
Operating Temperature	-15° F to + 140° F (-25° C to + 60° C)

## Diagnostics

Green/Red Mechanical Indicator

## Listings and Certification

UL 1449 4th Edition Recognized, and CSA C22.2 No. 269.4-17, 1st Edition.

## NEC Standard

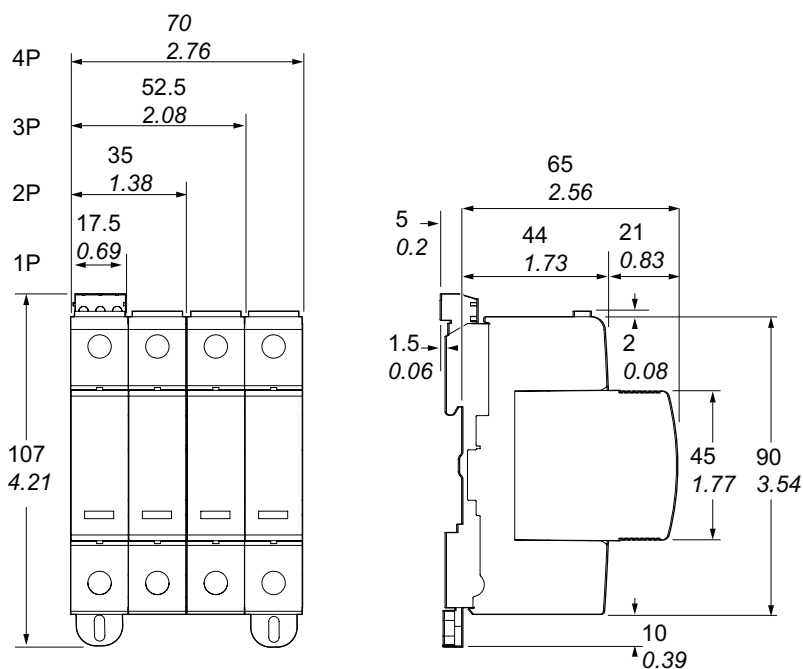
NEC 2017 and NEC 2020 Article 670.6:

“Industrial machinery with safety interlock circuits shall have surge protection installed”

Industrial machinery safety interlocks are required to have surge protection installed per NFPA 79.

A survey of facility managers commissioned by NFPA found that 26% of respondents reported damage to safety interlocks from surge events.

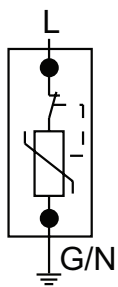
# Dimensions



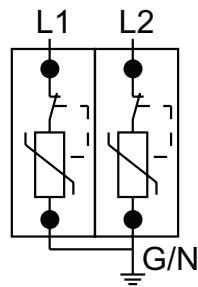
Weight (lb. / g.)	
Type	PRD1 75r
1P	0.34 lb. (154 g.)
2P	0.75 lb. (340 g.)
3P	1.15 lb. (522 g.)
4P	1.55 lb. (703 g.)
Replaceable Module	0.18 lb. (82 g.)

# Multi9 PRD1 75r Type 1 Ordering Options

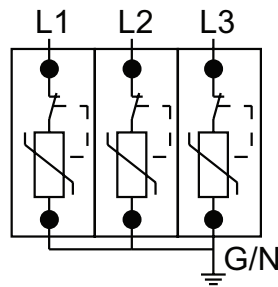
Poles	Voltage	Catalog Numbers	Replacement Cartridge	Voltage Protection Ratings (VPR)				I <sub>n</sub>	MCOV
				L-N	L-G	N-G	L-L		
1	120V Single Phase	M9L11120	M9LC175	600	-	-	-	20kA	175
	240V Single Phase	M9L21240	M9LC275	900	-	-	-	20kA	275
	277V Single Phase	M9L31277	M9LC320	1000	-	-	-	20kA	320
	347V Single Phase	M9L41347	M9LC420	1500	-	-	-	10kA	420
2	120/240 Split Phase	M9L12240	M9LC175	600	-	-	1200	20kA	175
	240/480V Split Phase	M9L22480	M9LC275	900	-	-	1800	20kA	275
3	240V Delta, 3W+G	M9L23240	MPLC275	-	900	-	1800	20kA	275
	480V Delta, 3W+G	M9L53480	MPLC275	-	1500	-	3000	10kA	550
	208Y/120V Wye, 4W	M9L13208	M9LC175	600	-	-	1200	20kA	175
	480Y/277V Wye, 4W	M9L33480	M9LC320	1000	-	-	2000	20kA	320
	600Y/347V Wye, 4W	M9L43600	M9LC420	1500	-	-	2500	10kA	420
	690Y/400V Wye, 4W	M9L53690	M9LC550	1500	-	-	3000	10kA	550
4	208Y/120V Wye, 4W+G	M9L17208	M9LC175	600	1200	600	1200	20kA	175
	480Y/277V Wye, 4W+G	M9L37480	M9LC320	1000	1500	600	2000	20kA	320
	600Y/347V Wye, 4W+G	M9L47600	M9LC420	1500	2000	800	2500	10kA	420
	690Y/400V Wye, 4W+G	M9L57690	M9LC550	1500	2500	1000	3000	10kA	550
	240/120V HLD, 4W+G	M9L17240	M9LC175/ M9LC275	600/800	1200/ 1500	600	1200/ 1500	20kA	175/ 275
	480/240V HLD, 4W+G	M9L27480	M9LC275/ M9LC550	800/1500	1500/ 2000	600	1500/ 2500	10kA	275/ 550



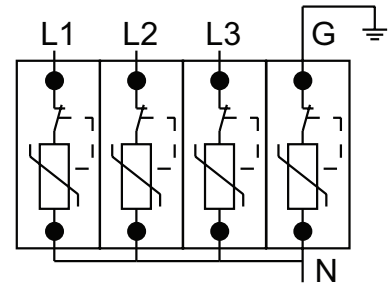
1 Pole



2 Pole



3 Pole



4 Pole

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