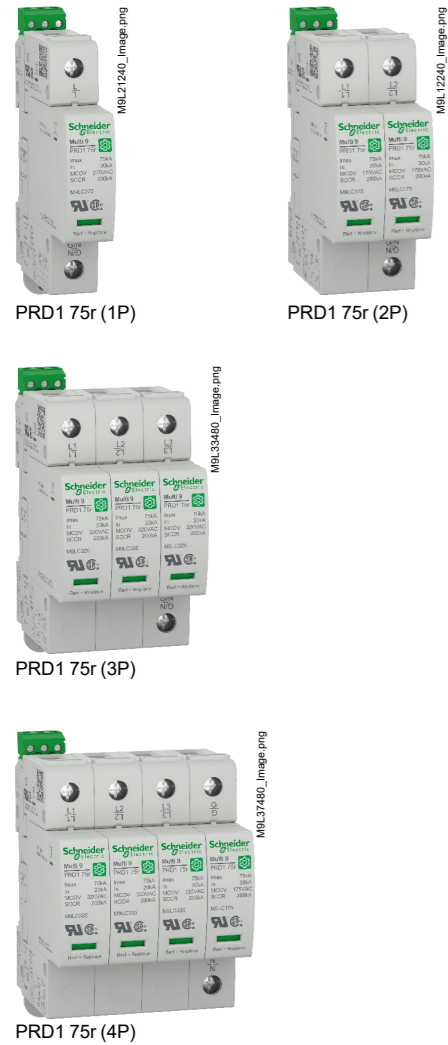


Protection
Load protection
Multi9 PRD1 75r
Type 1 surge protective devices



The Type 1 range of surge protective device meets the normative withstand capability of current wave type 8/20 μ s. PRD1 75r surge protective devices are fitted with dry contacts to send "end-of-life indication" information. PRD1 75r surge protective devices are fitted with easy-to-replace withdrawable cartridges.



PRD1 75r (1P)

PRD1 75r (2P)

PRD1 75r (3P)

PRD1 75r (4P)

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

As per the above standard:
The PRD1 75r surge protective device (SPD) is rated UL and CSA Type 1, and is well suited for use installed within electrical equipment. Rated at 200kA SCCR, without additional upstream protection, it can be installed in a variety of installations including service entrance, branch panels and control panel environments. For serviceability considerations, connecting through a disconnecter is recommended. Replaceable devices are available, should the device reach end of life due to a surge event or sustained over-voltage.

Protection
Load protection
Multi9 PRD1 75r
Type 1 surge protective devices



Multi9 PRD1 75r Type 1													
Type Wiring configuration	Surge protective devices							Associated cartridge				SPD only Width in 9 mm (0.35 in) modules	
	Rated network voltage (V AC)	I max (kA) Surge Capacity	In (kA)	SCCR (kA)	VPR (V) Voltage Protection Rating	MCOV (V)	SPD wiring (2-, 3-, 4- or 5- wire)	Catalog number	L1	L2/H-L	L3		G
1P 	120	75	20	200	600 (L-N)	175 (L-N)	2	M9L11120	M9LC175	-	-	-	2
	240	75	20	200	900 (L-N)	275 (L-N)	2	M9L21240	M9LC275	-	-	-	2
	277	75	20	200	1000 (L-N)	320 (L-N)	2	M9L31277	M9LC320	-	-	-	2
	347	75	10	200	1500 (L-N)	420 (L-N)	2	M9L41347	M9LC420	-	-	-	2
2P 	120/240	75	20	200	600 (L-N) 1200 (L-L)	175 (L-N) 350 (L-L)	3	M9L12240	M9LC175	M9LC175	-	-	4
	240/480	75	20	200	900 (L-N) 1800 (L-L)	275 (L-N) 550 (L-L)	3	M9L22480	M9LC275	M9LC275	-	-	4
3P 	240	75	20	200	900 (L-G) 1800 (L-L)	275 (L-G) 550 (L-L)	4	M9L23240	M9LC275	M9LC275	M9LC275	-	6
	480	75	10	200	1500 (L-G) 3000 (L-L)	550 (L-G) 1100 (L-L)	4	M9L53480	M9LC550	M9LC550	M9LC550	-	6
	120/208	75	20	200	600 (L-N) 1200 (L-L)	175 (L-N) 350 (L-L)	4	M9L13208	M9LC175	M9LC175	M9LC175	-	6
	277/480	75	20	200	1000 (L-N) 2000 (L-L)	320 (L-N) 640 (L-L)	4	M9L33480	M9LC320	M9LC320	M9LC320	-	6
	347/600	75	10	200	1500 (L-N) 2500 (L-L)	420 (L-N) 840 (L-L)	4	M9L43600	M9LC420	M9LC420	M9LC420	-	6
	400/690	75	10	200	1500 (L-N) 3000 (L-L)	550 (L-N) 1100 (L-L)	4	M9L53690	M9LC550	M9LC550	M9LC550	-	6
4P 	120/208	75	20	200	600 (L-N) 1200 (L-G) 1200 (L-L) 600 (N-G)	175 (L-N) 175 (L-G) 350 (L-L) 175 (N-G)	5	M9L17208	M9LC175	M9LC175	M9LC175	M9LC175	8
	277/480	75	20	200	1000 (L-N) 1500 (L-G) 2000 (L-L) 600 (N-G)	320 (L-N) 495 (L-G) 640 (L-L) 175 (N-G)	5	M9L37480	M9LC320	M9LC320	M9LC320	M9LC175	8
	347/600	75	10 (L1/L2/L3) 20 (N-G)	200	1500 (L-N) 2000 (L-G) 2500 (L-L) 800 (N-G)	420 (L-N) 695 (L-G) 840 (L-L) 275 (N-G)	5	M9L47600	M9LC420	M9LC420	M9LC420	M9LC275	8
	400/690	75	10 (L1/L2/L3) 20 (N-G)	200	1500 (L-N) 2500 (L-G) 3000 (L-L) 1000 (N-G)	550 (L-N) 870 (L-G) 1100 (L-L) 320 (N-G)	5	M9L57690	M9LC550	M9LC550	M9LC550	M9LC320	8
	120/240	75	20	200	1200 (L-L/L-G) 600 (L-N/N-G) 1500 (H-L/H-G) 800 (H-N)	350 (L-L/L-G) 175 (L-N/N-G) 450 (H-L/H-G) 275 (H-N)	5	M9L17240	M9LC175	M9LC275	M9LC175	M9LC175	8
	240/480	75	20 (L1/L3/N-G) 10 (H-L)	200	1500 (L-L/L-G) 800 (L-N) 600 (N-G) 2500 (H-L) 2000 (H-G) 1500 (H-N)	550 (L-L) 450 (L-G) 275 (L-N) 175 (N-G) 825 (H-L) 725 (H-G) 550 (H-N)	5	M9L27480	M9LC275	M9LC550	M9LC275	M9LC175	8

Protection Load protection Multi9 PRD1 75r Type 1 surge protective devices



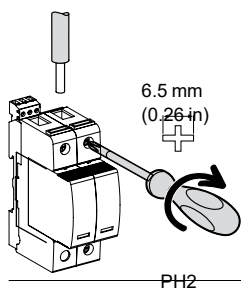
M9LC275

Spare cartridge						
Un (V) Rated voltage network	I max (kA) Surge Capacity	In (kA)	SCCR (kA)	VPR (V) Voltage Protection Rating	MCOV (V)	Catalog number
120	75	20	200	600	175	M9LC175
240	75	20	200	900	275	M9LC275
277	75	20	200	1000	320	M9LC320
347	75	10	200	1500	420	M9LC420
400	75	10	200	1500	550	M9LC550

Technical data

		PRD1 75r Type 1
Operating frequency		50/60 Hz
Response time		< 25 ns
Short circuit withstand (I _{sc})		200 kA
Ground residual current (I _G)	I _G (Neutral-Ground)	< 1 mA
Surge protective device technology		MOV
End-of-life indication	Green	Correct operation
	Red	At end of life
	Remote notification	250 V AC / 1 A 125 V AC / 3 A
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +85°C
Relative humidity		5 % to 90 %
Operating altitude		2000 m
Degree of protection	IP	NEMA 1 built-in
	Impacts	IK05
Pollution degree		3
Standards		UL 1449: 4th Edition Recognized CSA C22.2 No. 269.4-17, 1 st Ed

Connection



Wire stripping length		Tightening torque		Tunnel type terminals			
L/N/ Ground	Dry contacts	L/N/ Ground	Dry contacts	Rigid cable	Flexible cable or with ferrule	Dry contacts	
						Rigid cable	Flexible cable
10 mm (0.4 in.)	6 mm (0.24 in.)	3 N.m (26.5 Lbf. in.)	0.27 N.m (2.4 Lbf. in.)	DB122846 eps 6 to 35 mm ² (AWG 10...AWG 2)	DB122846 eps 6 to 25 mm ² (AWG 10...AWG 4)	DB122846 eps Max. 1.5 mm ² (AWG 16)	DB122807 eps 0.05 to 2.5 mm ² (AWG 30...AWG14)

Weight (g)

Surge protective device	
Type	PRD1 75r
1P	154
2P	340
3P	522
4P	703
Cartridge	82

Dimensions

