

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.

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.

Multi9 PRD1 75r Type 1

Type	Surge protective devices			
Wiring configuration	Rated network voltage (V AC)	I max (kA) Surge Capacity	In (kA)	SCCR (kA)
1P 	120	75	20	200
	240	75	20	200
	277	75	20	200
	347	75	10	200
2P 	120/240	75	20	200
	240/480	75	20	200
3P 	240	75	20	200
	480	75	10	200
	120/208	75	20	200
	277/480	75	20	200
	347/600	75	10	200
	400/690	75	10	200
4P 	120/208	75	20	200
	277/480	75	20	200
	347/600	75	10 (L1/L2/L3) 20 (N-G)	200
	400/690	75	10 (L1/L2/L3) 20 (N-G)	200
	120/240	75	20	200
	240/480	75	20 (L1/L3/N-G) 10 (H-L)	200





					Associated cartridge				SPD only
	VPR (V) Voltage Protection Rating	MCOV (V)	SPD wiring (2-, 3-, 4- or 5- wire)	Catalog number	L1	L2/H-L	L3	G	Width in 9 mm (0.35 in) modules
	600 (L-N)	175 (L-N)	2	M9L11120	M9LC175	-	-	-	2
	900 (L-N)	275 (L-N)	2	M9L21240	M9LC275	-	-	-	2
	1000 (L-N)	320 (L-N)	2	M9L31277	M9LC320	-	-	-	2
	1500 (L-N)	420 (L-N)	2	M9L41347	M9LC420	-	-	-	2
	600 (L-N) 1200 (L-L)	175 (L-N) 350 (L-L)	3	M9L12240	M9LC175	M9LC175	-	-	4
	900 (L-N) 1800 (L-L)	275 (L-N) 550 (L-L)	3	M9L22480	M9LC275	M9LC275	-	-	4
	900 (L-G) 1800 (L-L)	275 (L-G) 550 (L-L)	4	M9L23240	M9LC275	M9LC275	M9LC275	-	6
	1500 (L-G) 3000 (L-L)	550 (L-G) 1100 (L-L)	4	M9L53480	M9LC550	M9LC550	M9LC550	-	6
	600 (L-N) 1200 (L-L)	175 (L-N) 350 (L-L)	4	M9L13208	M9LC175	M9LC175	M9LC175	-	6
	1000 (L-N) 2000 (L-L)	320 (L-N) 640 (L-L)	4	M9L33480	M9LC320	M9LC320	M9LC320	-	6
	1500 (L-N) 2500 (L-L)	420 (L-N) 840 (L-L)	4	M9L43600	M9LC420	M9LC420	M9LC420	-	6
	1500 (L-N) 3000 (L-L)	550 (L-N) 1100 (L-L)	4	M9L53690	M9LC550	M9LC550	M9LC550	-	6
	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
	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
	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
	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
	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
	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

www.se.com

Type 1 surge protective devices



M9LC275

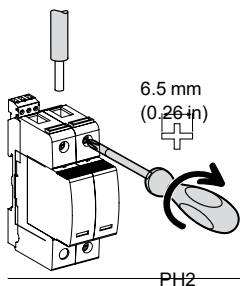
Spare cartridge

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

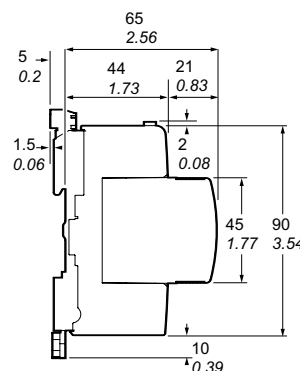
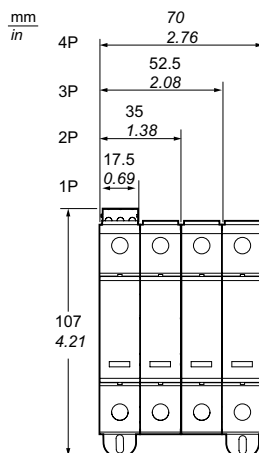
PRD1 75r Type 1	
Operating frequency	50/60 Hz
Response time	< 25 ns
Short circuit withstand (I _{sc})	200 kA
Ground residual current (I _{GROUND})	I _{GROUND} (Neutral-Ground) < 1 mA
Surge protective device technology	MOV
End-of-life indication	Green Correct operation Red At end of life Remote notification 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.)	DB122345 6/ps	DB122346 6/ps	DB122345 6/ps	DB122307 6/ps
				6 to 35 mm ² (AWG 10...AWG 2)	6 to 25 mm ² (AWG 10...AWG 4)	Max. 1.5 mm ² (AWG 16)	0.05 to 2.5 mm ² (AWG 30...AWG 14)

Dimensions



Weight (g)

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



1.0	07/09/2020	Creation	I. Flaubert
Indice	Date	Modification	Name