

Schneider Electric Surge Protective Device

2015



Schneider
Electric

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- Product family



Product Introduction

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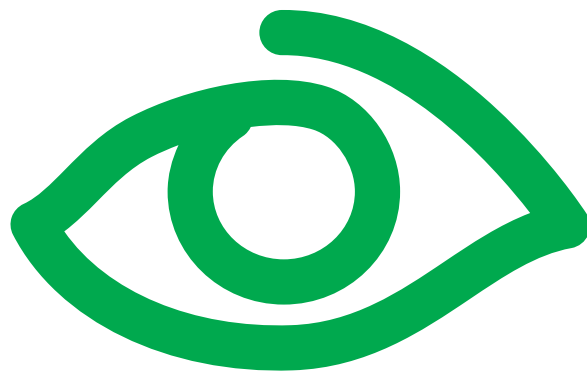
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Product Overview

- Product family

> Acti 9

☑ Type 1

- > iPRD1 20r pluggable Type1 surge protective device
- > iPRF1 12.5r voltage limiting type Type1 surge protective device



☑ Type 2

- > iPRU pluggable surge protective device
- > PRU enclosure dedicated surge protective device
- > iST monoblock surge protective device



☑ Telecom surge protective device

- > IPTU pluggable surge protective device for telecom market



☑ Photovoltaic surge protective device

- > iPRU PV pluggable surge protective device for photovoltaic market



☑ Signal surge protective device

- > iPRC surge protective device
- > iPRI surge protective device



> Multi 9

☑ Signal surge protective device

- > SE antenna surge protective device
- > SE signal surge protective device



> Easy 9

☑ Type 2

- > EA9L monoblock surge protective device



> iSCB SPD backup circuit breaker

☑ For Type I

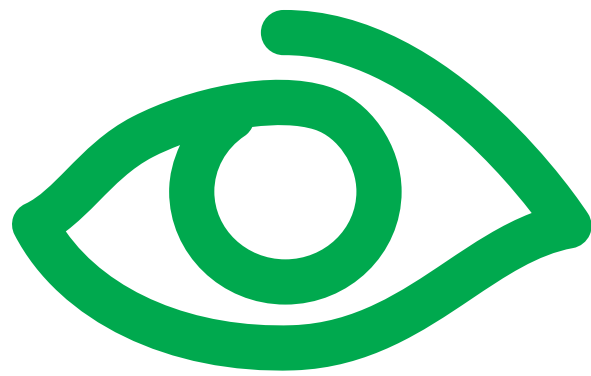
- > iSCB1 SPD backup circuit breaker

☑ For Type II

- > iSCB2 SPD backup circuit breaker







Product Introduction

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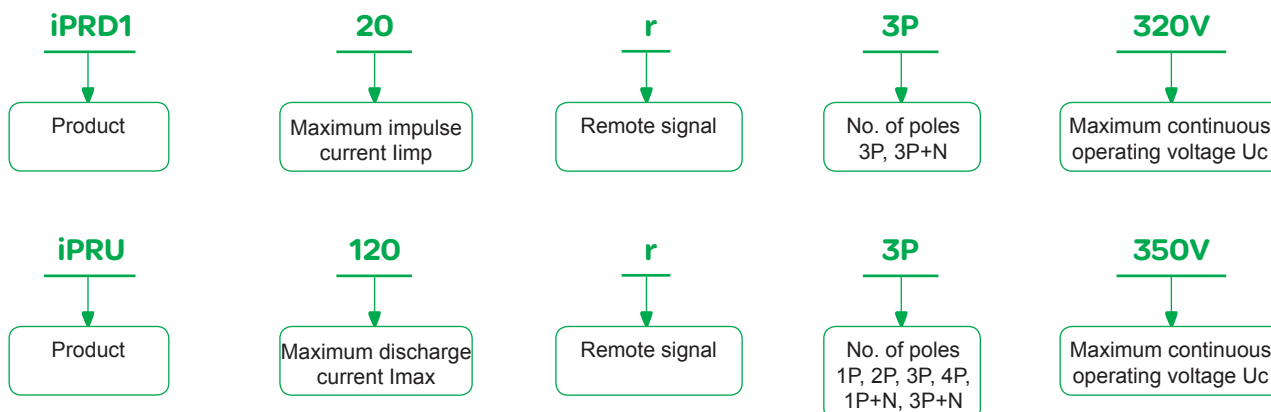
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Prescription



	Product	Un (V)	Uc (V)	Up (kV)	Type (μs)	I _{imp} (kA)	In (kA)	Poles	End of life indication	Remote signal	Connection capability
iPRD1	 iPRD1 20r	230/400	320	1.7	10/350	I _{imp} =20 (L/N) 80 (N/PE)	30	3P 3P+N	Yes	Yes	Flexible cable: 2.5~35mm ² , Rigid cable: 2.5~50mm ²
iPRF1	 iPRF1 12.5r	230/400	350	1.5	10/350	I _{imp} =12.5 (L/N) 50 (N/PE)	25	3P 1P+N 3P+N	Yes	Yes	Flexible cable: 10~25mm ² , Rigid cable: 10~35mm ²
iPRU	 iPRU 120r	230/400	350/440	3.0	8/20	120	60	1P 2P 3P 4P 1P+N 3P+N	Yes	Yes	Flexible cable: 2.5~25mm ² , Rigid cable: 2.5~35mm ²
	 iPRU 80r	230/400	350/440	2.2	8/20	80	40		Yes	Yes	
	 iPRU 65r	230/400	350/440	1.9	8/20	65	35		Yes	Yes	

	Product	Un (V)	Uc (V)	Up (kV)	Type (μs)	I _{max} (kA)	I _n (kA)	Poles	End of life indication	Remote signal	Connection capability
iPRU	 iPRU 40r/40	230/400	350/440	1.7	8/20	40	20	1P 2P 3P 4P 1P+N 3P+N	Yes	Yes/No	Flexible cable: 2.5~25mm ² , Rigid cable: 2.5~35mm ²
	 iPRU 20r/20	230/400	350/440	1.45	8/20	20	10		Yes	Yes/No	
	 iPRU 10	230/400	350/440	1.2	8/20	10	5		Yes	No	
PRU	 PRU 10	230/400	320/400	1.1	8/20	10	5	1P+N	Yes	No	Flexible cable: 2.5~25mm ² , Rigid cable: 2.5~35mm ²
	 PRU 6	230/400	320/400	1.0	8/20	6	3		Yes	No	
iST	 iST 65r/65	230/400	340/440	2.0	8/20	65	35	1P 2P 3P 4P 1P+N 3P+N	Yes	Yes/No	Flexible cable: 2.5~25mm ² , Rigid cable: 2.5~35mm ²
	 iST 40r/40	230/400	340/440	1.5	8/20	40	20		Yes	Yes/No	
	 iST 20r/20	230/400	340/440	1.2	8/20	20	10		Yes	Yes/No	

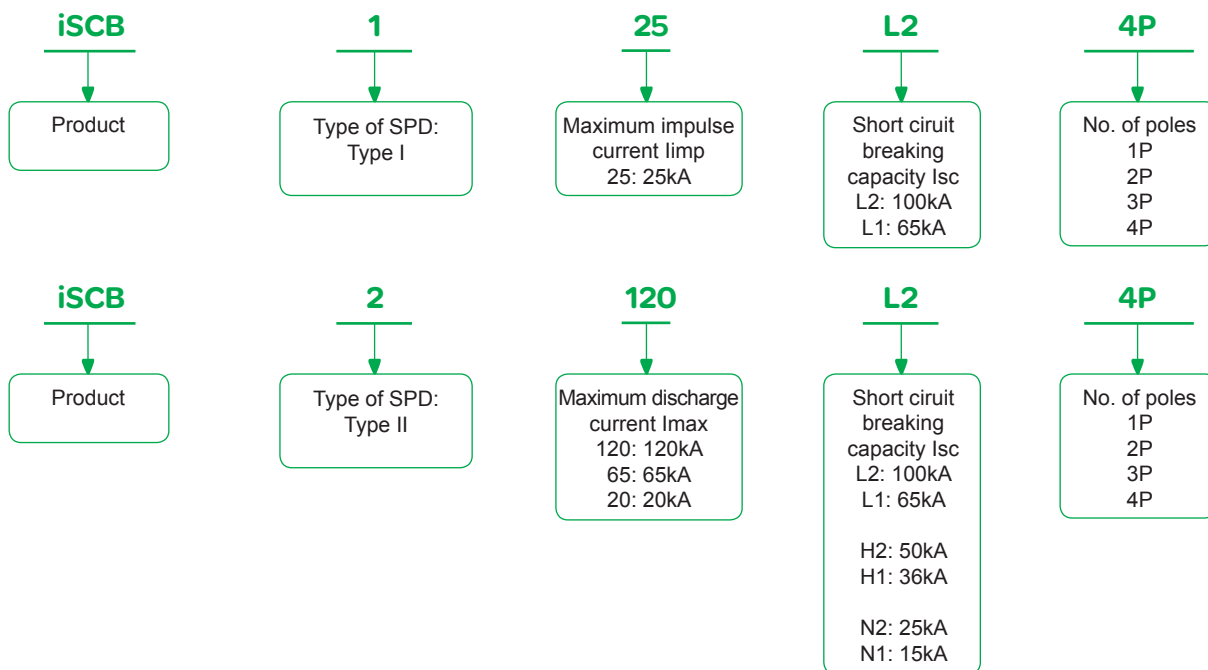
	Product	Un (V)	Uc (V)	Up (kV)	Type (μs)	I _{max} (kA)	I _n (kA)	Poles	End of life indication	Remote signal	Connection capability
IPTU	 IPTU 40r/40	230/400	385/500	1.6	8/20	40	20	1P+N 3P+N	Yes	No	Flexible cable: 2.5~25mm ² , Rigid cable: 2.5~35mm ²
	 IPTU 20r/20	230/400	385/500	1.5	8/20	20	10		Yes	Yes	
IPRU PV	 iPR-DC	-	800/1000	3.0 3.9	8/20	40	15	-	Yes	Yes	Flexible cable: 2.5~16mm ² , Rigid cable: 2.5~25mm ²
EA9L	 EA9L	230/400	340/400	2.0 1.5 1.2	8/20	65/40/20	35/20/10	1P+N 3P+N	Yes	Yes/No	Flexible cable: 2.5~25mm ² , Rigid cable: 2.5~35mm ²
iPRC	 iPRC	< 130 VAC	130 VAC 180 VDC	300V	8/20	18	10	-	Yes	No	Flexible cable: 0.2~2.5mm ² , Rigid cable: 0.2~4mm ²
iPRI	 iPRI	48 VDC	37 VAC 53 VAC	70V	8/20	10	10	-	Yes	No	Flexible cable: 0.2~2.5mm ² , Rigid cable: 0.2~4mm ²





	Product	Product type	Interface	Frequency (MHz)	Power (W)	Up (V)	Dimension (mm)	Weight (g)
SE	 SETT	SETT8-10N-40	N	800-960	300	≤10V	33 x 66 x 75	210
		SETT17-24N-40		1700-2400	150		30 x 39 x 75	190
		SETT8-10D-60	DIN	800-960	500		37 x 92 x 101	640
		SETT8-25D-60		800-2500			37 x 65 x 90	385
	 SEKT	SEKT25N-10	N	DC-2500	100	≤700V	20 x 30 x 76	230
		SEKT25T-10M	TNC				F20 x 56	75
		SEKT25D-10	DIN				35 x 42 x 77	270
		SEKT15FL-10	FL				18.5 x 23 x 50	62
		SEKT20F-10	F					
	 SEWT	SEWT16N-10CN	N	1500-1600	60	≤100V	56 x 25 x 95	175
		SEWT10N-20N		700-1000	300		84 x 32 x 73	242
		SEWT20N-20N		1700-2000				
		SEWT10D-20N	DIN	700-1000	300		84 x 32 x 73	332
		SEWT20D-20N		1700-2000				

	Product	Product type	Interface	Frequency (MHz)	Power (W)	Up (V)	Dimension (mm)	Weight (g)
SE	 SEXM	SEXM-1B-5	BNC		5	≤100V	80 x 27 x 25	75
		SEXM-1B-24			24			
	 SEXL(RJ11)	SEXL-1H-12	RJ11		12	≤100V	80 x 27 x 25	70
		SEXL-1H-48			48			
		SEXL-1H-110			110			
	 SEXM,SEXH	SEXM-2R-5	RJ45	Transmission rate (M)	10M	5	80 x 27 x 25	95
		SEXH-2R-5		100M				
	 SEXL (twisted pair)	SEXL-1J-5	Number of protected lines		A pair of twisted pair	5	100 x 27 x 25	70
		SEXL-1J-12				12		
		SEXL-1J-24				24		
		SEXL-1J-110				110		
		SEXL-2J-5			2 pairs of twisted pair	5	100 x 47 x 25	110
		SEXL-2J-12				12		
		SEXL-2J-24				24		
SEXL-2J-110				110				

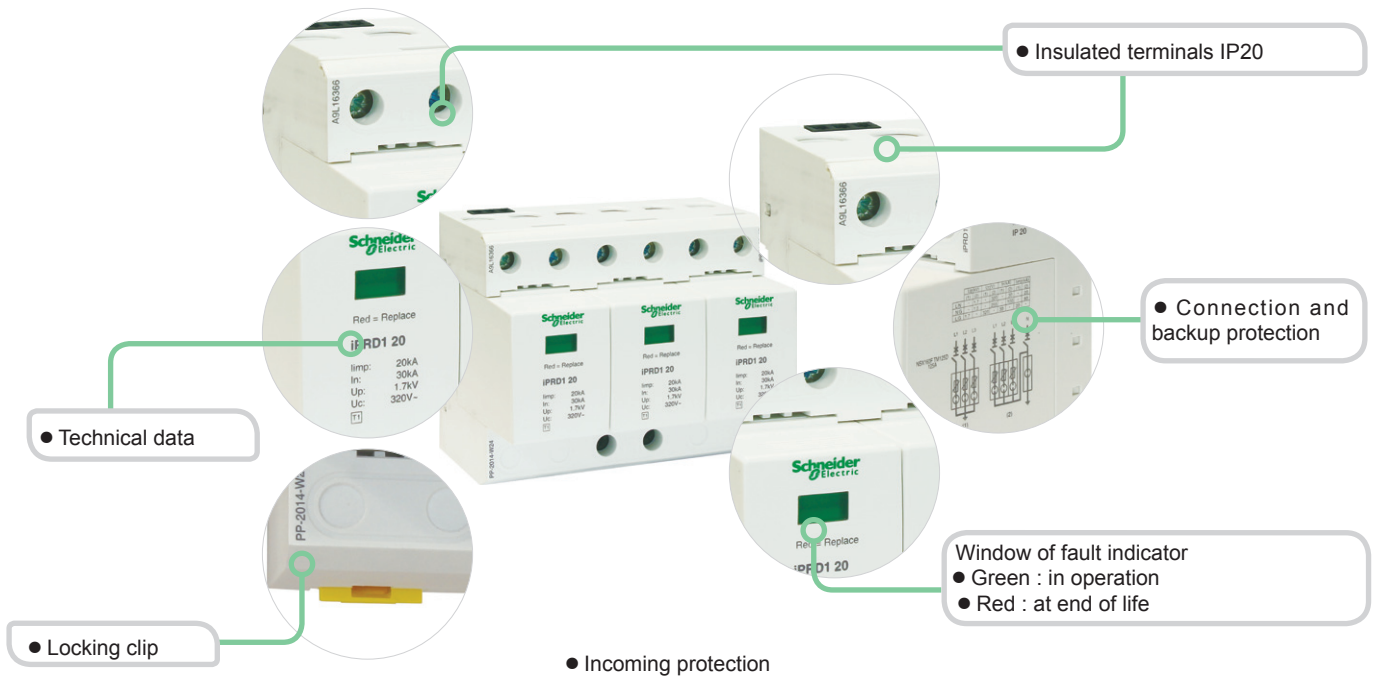
iSCB SPD backup circuit breaker

Prescription

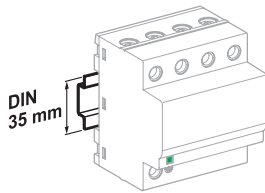
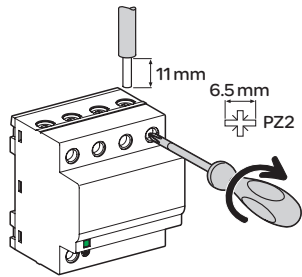


	Product	Un (V)	Type (μs)	I _{max} (kA)	I _n (kA)	Maximum short circuit breaking capacity (kA)	Poles	Connection capability
iSCB	 iSCB1 25	230/400	10/350	$I_{imp}=25kA$	80	100 65	1P 2P 3P 4P	Flexible cable: 2.5~25mm ² , Rigid cable: 2.5~35mm ²
	 iSCB2 120	230/400	8/20	120	60	100 65		
	 iSCB2 65	230/400	8/20	65	35	50 36		
	 iSCB2 20	230/400	8/20	20	10	25 15		

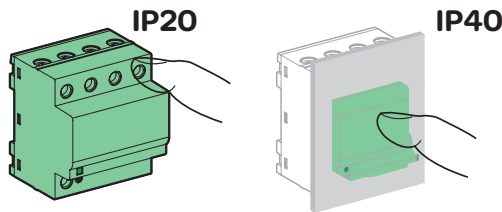
iPRD1 20r Type1 surge protective device



Description



Installed on the 35 mm DIN rail



Technical data

Main characteristics	
Standard	GB 18802.1
Test class	I / T1
Operating frequency	50/60 Hz
Rated operating voltage U _o	230 V AC
Maximum continuous operating voltage U _c	320 V
Maximum impulse current I _{imp}	20 kA
Nominal discharge current I _n	30 kA
U _p	1.7 kV
Poles	3P, 3P+N
Additional characteristics	
End of life indication	Indication window
Green	In operation
Red	At end of life
End of life remote indication	Remote signal
Contact	11 common terminal, 12 normally closed, 14 normally open
U _c	250 V AC
Maximum switching current	1 A
Degree of protection	Front panel: IP40 Terminals: IP20
Response time	100 ns
Working temperature	-40°C~+80°C

Connection

Type	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
iPRD1	3.5 Nm	2.5...50 mm ²	2.5...35 mm ²	≥16 mm ²	≥16 mm ²

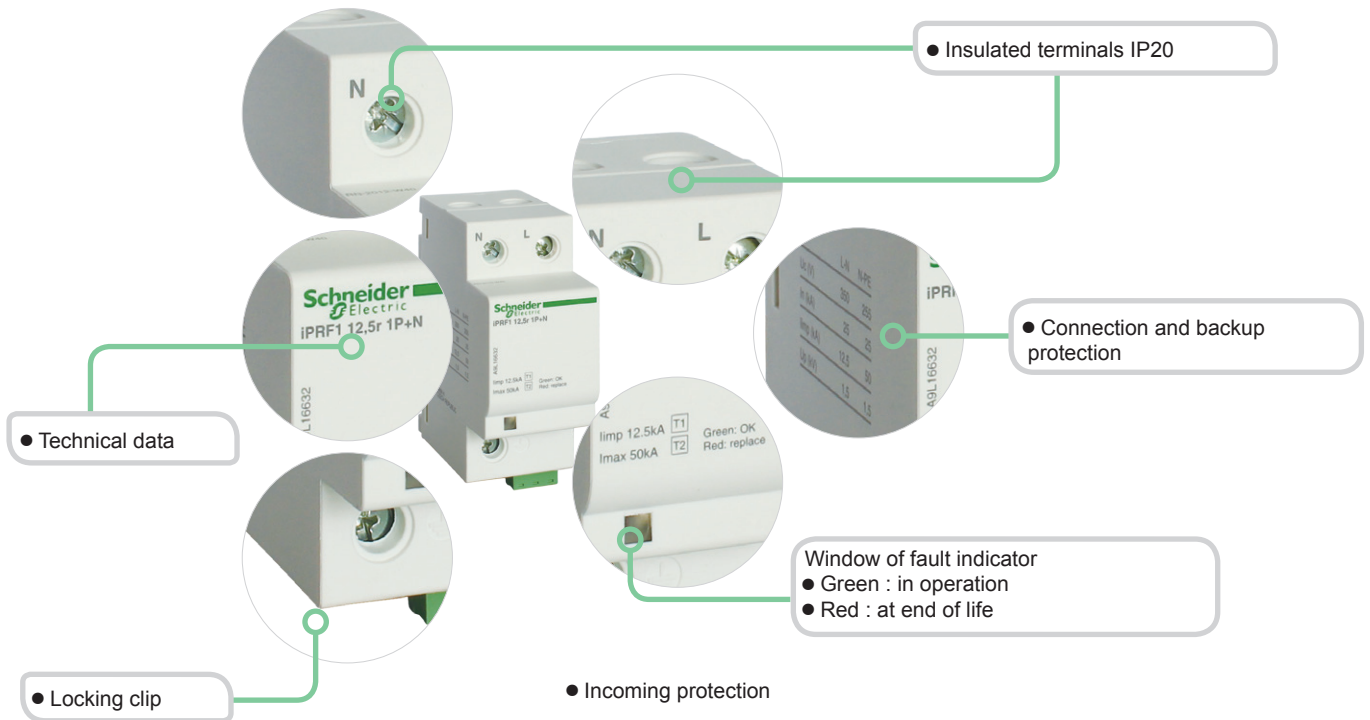


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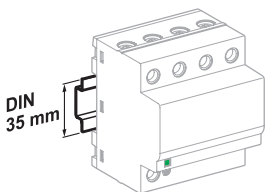
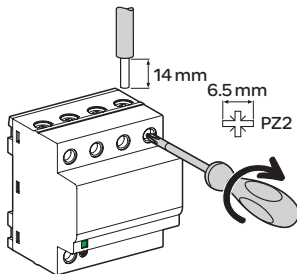
Type	Product	I _{imp} (kA)	I _n (kA)	U _p (kV)	differential mode	common mode	U _n (V)	U _c (V)	Width (In mod. of 9 mm)	Reference
3P	iPRD1	20	30	-	L/N	-	230	320	12	A9L16366
3P+N	iPRD1	20	30	1.7	-	1.5	230	320	16	A9L16367

Type	Product	Applied to	Width (In mod. of 9 mm)	Reference
Pluggable modules	iD20-320	iPRD1 20r	2	A9L16322
	iDGn-255	iPRD1 20r	2	A9L16323

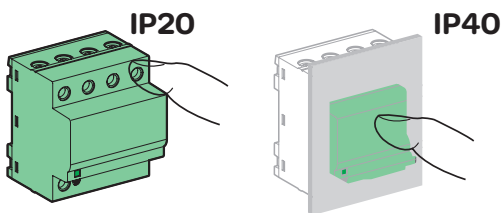
iPRF1 12.5r surge protective device Type I



Description



Installed on the 35 mm DIN rail



Technical data

Main characteristics

Standard	GB 18802.1-2011
Test class	I / T1
Operating frequency	50/60 Hz
Rated operating voltage U _o	230 V AC
Maximum continuous operating voltage U _c	350 V
Maximum impulse current I _{imp} (L-N)	12.5 kA
Maximum impulse current I _{imp} (N-PE)	50 kA
Nominal discharge current I _n	25 kA
U _p	1.5 kV
Poles	1P+N/3P/3P+N
Earthing system	TT, TN
Backup protection	According to the appendix

Additional characteristics

End of life indication	Indication light	
Green	In operation	
Red	At end of life	
End of life remote indication	Remote signal	
Contact	11 common terminal, 12 normally closed, 14 normally open	
U _c	250 V AC	
Maximum switching current	1 A	
Type of connection terminals	0.5...1.5 mm ²	
Degree of protection	Front panel	IP40
	Terminals	IP20
Response time	25 ns	
Working temperature	-25°C ~ +60°C	

Connection

Type	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
iPRF1 12.5r	2 Nm	10...35 mmv	10...25 mm ²	≥16 mm ²	≥16 mm ²

iPRF1 12.5r surge protective device Type I



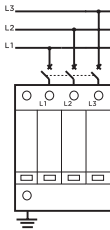
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Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Width (In mod. of 9 mm)	Reference		
				differential mode	common mode		differential mode	common mode				
				L/N	N/⊥		L/⊥	N/⊥			L/⊥	
1P+N	iPRF1 12.5r	12.5	25	1.5	1.5	1.6	230/400	350	255	440	4	A9L16632



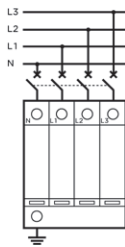
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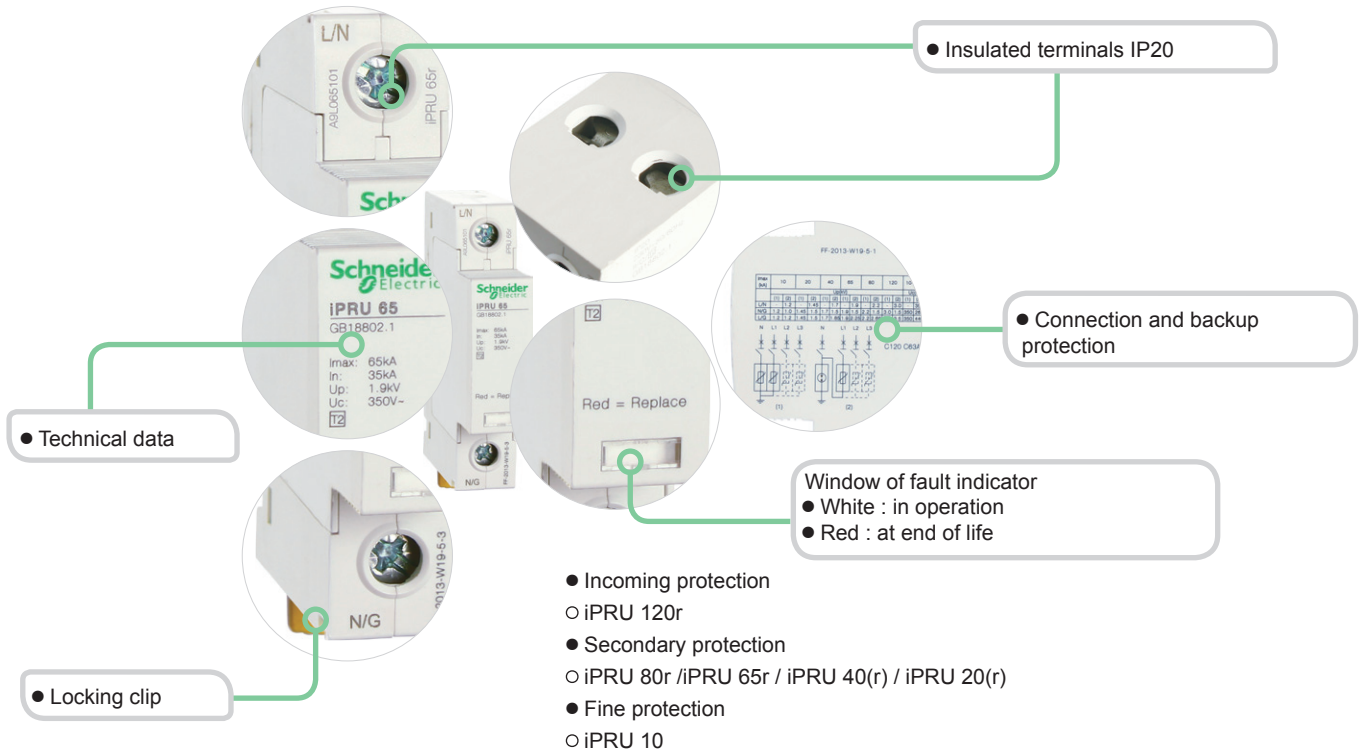
Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Width (In mod. of 9 mm)	Reference		
				differential mode	common mode		differential mode	common mode				
				L/N	N/⊥		L/⊥	N/⊥			L/⊥	
3P	iPRF1 12.5r	12.5	25	-	-	1.5	230/400	-	-	350	8	A9L16633



A9L16634

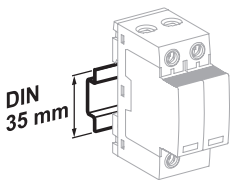
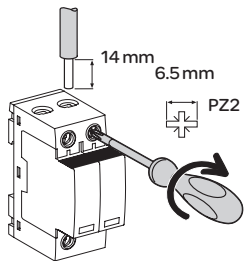
Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Width (In mod. of 9 mm)	Reference		
				differential mode	common mode		differential mode	common mode				
				L/N	N/⊥		L/⊥	N/⊥			L/⊥	
3P+N	iPRF1 12.5r	12.5	25	1.5	1.5	1.6	230/400	350	255	440	8	A9L16634



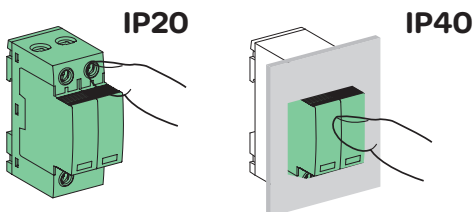


- Incoming protection
 - iPRU 120r
- Secondary protection
 - iPRU 80r / iPRU 65r / iPRU 40(r) / iPRU 20(r)
- Fine protection
 - iPRU 10

Description



Installed on the 35 mm DIN rail



Technical data

Main characteristics	
Standard	GB 18802.1-2011
Test class	II / T2
Operating frequency	50/60 Hz
Rated operating voltage U _o	230 V AC
Maximum continuous operating voltage U _c	350 V
Maximum discharge current I _{max} I _{max}	120/80/65/40/20/10 kA
Nominal discharge current	60/40/35/20/10/5 kA
U _p	3.0/2.2/1.9/1.7/1.45/1.2 kV
Poles	1P/2P/3P/4P/1P+N/3P+N
Earthing system	TT, TN
Backup protection	According to the appendix
Additional characteristics	
End of life indication	Indication window
White	In operation
Red	At end of life
End of life remote indication	Remote signal
Contact	11 common terminal, 12 normally closed, 14 normally open
U _c	250 V ~ 220 V - - 30 V - -
Maximum switching current	0.25 A 0.24 A 2 A
Type of connection terminals	0.5...1.5 mm ²
Degree of protection	IP20
Response time	25 ns
Working temperature	-25°C ~ +60°C
Storage temperature	-40°C ~ +70°C
I _{ie} (0.75U ₁ mA)	< 20 μA

Connection

Maximum discharge current I _{max}	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
120 kA	3.5 Nm	2.5...35 mm ²	2.5...25 mm ²	≥6 mm ²	≥10 mm ²
80/65/40/20 kA				≥4 mm ²	≥6 mm ²
10 kA				≥2.5 mm ²	≥4 mm ²



A9L065101

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/⊥	L/⊥		L/N	N/⊥	L/⊥			
1P 	iPRU 65r	65	35	-	-	1.9	230	-	-	350	TN	2	A9L065101
	iPRU 40r	40	20	-	-	1.7	230	-	-	350	TN	2	A9L040101
	iPRU 40	40	20	-	-	1.7	230	-	-	350	TN	2	A9L040100
	iPRU 20r	20	10	-	-	1.45	230	-	-	350	TT&TN	2	A9L020101
	iPRU 20	20	10	-	-	1.45	230	-	-	350	TT&TN	2	A9L020100
	iPRU 10	10	5	-	-	1.2	230	-	-	350	TT&TN	2	A9L010100



A9L065201

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/⊥	L/⊥		L/N	N/⊥	L/⊥			
2P 	iPRU 65r	65	35	-	1.9	1.9	230	-	350	350	TN-S	4	A9L065201
	iPRU 40r	40	20	-	1.7	1.7	230	-	350	350	TN-S	4	A9L040201
	iPRU 40	40	20	-	1.7	1.7	230	-	350	350	TN-S	4	A9L040200
	iPRU 20r	20	10	-	1.45	1.45	230	-	350	350	TT&TN-S	4	A9L020201
	iPRU 20	20	10	-	1.45	1.45	230	-	350	350	TT&TN-S	4	A9L020200
	iPRU 10	10	5	-	1.2	1.2	230	-	350	350	TT&TN-S	4	A9L010200



A9L065301

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/⊥	L/⊥		L/N	N/⊥	L/⊥			
3P 	iPRU 65r	65	35	-	-	1.9	230/400	-	-	350	TN-C	6	A9L065301
	iPRU 40r	40	20	-	-	1.7	230/400	-	-	350	TN-C	6	A9L040301
	iPRU 40	40	20	-	-	1.7	230/400	-	-	350	TN-C	6	A9L040300
	iPRU 20r	20	10	-	-	1.45	230/400	-	-	350	TN-C	6	A9L020301
	iPRU 20	20	10	-	-	1.45	230/400	-	-	350	TN-C	6	A9L020300
	iPRU 10	10	5	-	-	1.2	230/400	-	-	350	TN-C	6	A9L010300



A9L065401

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/⊥	L/⊥		L/N	N/⊥	L/⊥			
4P 	iPRU 65r	65	35	-	1.9	1.9	230/400	-	350	350	TN-S	8	A9L065401
	iPRU 40r	40	20	-	1.7	1.7	230/400	-	350	350	TN-S	8	A9L040401
	iPRU 40	40	20	-	1.7	1.7	230/400	-	350	350	TN-S	8	A9L040400
	iPRU 20r	20	10	-	1.45	1.45	230/400	-	350	350	TT&TN-S	8	A9L020401
	iPRU 20	20	10	-	1.45	1.45	230/400	-	350	350	TT&TN-S	8	A9L020400
iPRU 10	10	5	-	1.2	1.2	230/400	-	350	350	TT&TN-S	8	A9L010400	



A9L065501

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
1P+N 	iPRU 65r	65	35	1.9	1.5	2.25	230	350	260	440	TT&TN-S	4	A9L065501
	iPRU 40r	40	20	1.7	1.5	1.85	230	350	260	440	TT&TN-S	4	A9L040501
	iPRU 40	40	20	1.7	1.5	1.85	230	350	260	440	TT&TN-S	4	A9L040500
	iPRU 20r	20	10	1.45	1.5	1.5	230	350	260	440	TT&TN-S	4	A9L020501
	iPRU 20	20	10	1.45	1.5	1.5	230	350	260	440	TT&TN-S	4	A9L020500
	iPRU 10	10	5	1.2	1.0	1.2	230	350	260	440	TT&TN-S	4	A9L010500



A9L065601

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
3P+N 	iPRU 65r	65	35	1.9	1.5	2.25	230/400	350	260	440	TT&TN-S	8	A9L065601
	iPRU 40r	40	20	1.7	1.5	1.85	230/400	350	260	440	TT&TN-S	8	A9L040601
	iPRU 40	40	20	1.7	1.5	1.85	230/400	350	260	440	TT&TN-S	8	A9L040600
	iPRU 20r	20	10	1.45	1.5	1.5	230/400	350	260	440	TT&TN-S	8	A9L020601
	iPRU 20	20	10	1.45	1.5	1.5	230/400	350	260	440	TT&TN-S	8	A9L020600
	iPRU 10	10	5	1.2	1.0	1.2	230/400	350	260	440	TT&TN-S	8	A9L010600

Type	Product	Applied to	Width (In mod. of 9 mm)	Reference
Pluggable modules	iD65-350	iPRU 65r	2	A9L065102
	iD40-350	iPRU 40r / 40	2	A9L040102
	iD20-350	iPRU 20r / 20	2	A9L020102
	iD10-350	iPRU 10	2	A9L010102
	iDGn-350	iPRU 65r / 40r / 40 / 20r / 20 Gn	2	A9L000002
	iDGn 10-350	iPRU 10 Gn	2	A9L010002

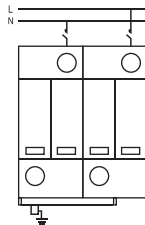


A9L120101

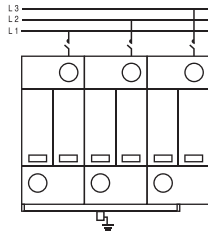
Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
1P	iPRU 120r	120	60	-	-	3.0	230	-	-	350	TN	4	A9L120101
	iPRU 80r	80	40	-	-	2.2	230	-	-	350	TN	4	A9L080101



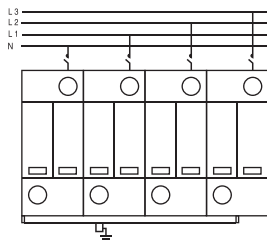
Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
2P	iPRU 120r	120	60	-	3.0	3.0	230	-	350	350	TN-S	8	2 x A9L120101
	iPRU 80r	80	40	-	2.2	2.2	230	-	350	350	TN-S	8	2 x A9L080101



Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
3P	iPRU 120r	120	60	-	-	3.0	230/400	-	-	350	TN-C	12	3 x A9L120101
	iPRU 80r	80	40	-	-	2.2	230/400	-	-	350	TN-C	12	3 x A9L080101



Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
4P	iPRU 120r	120	60	-	3.0	3.0	230/400	-	350	350	TN-S	16	4 x A9L120101
	iPRU 80r	80	40	-	2.2	2.2	230/400	-	350	350	TN-S	16	4 x A9L080101



iPRU surge protective device

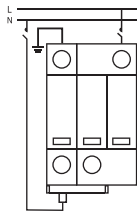
Maximum discharge current $I_{max} = 120/80 \text{ kA}$



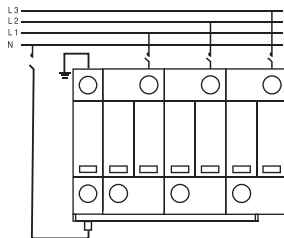
A9L120001

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode			
				L/N	N/±	L/±		L/N	N/±	L/±		
	iPRU 120r Gn	-	-	-	≤1.5	-	-	-	260	-	2	A9L120001
	iPRU 80r Gn	-	-	-	≤1.5	-	-	-	260	-	2	A9L080001

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
	iPRU 120r	120	60	3.0	1.5	3.5	230	350	260	440	TT&TN-S	6	1x A9L120101 + 1x A9L120001
	iPRU 80r	80	40	2.2	1.5	2.65	230	350	260	440	TT&TN-S	6	1x A9L080101 + 1x A9L080001



Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)			U _n (V)	U _c (V)			Earthing system	Width (In mod. of 9 mm)	Reference
				differential mode	common mode			differential mode	common mode				
				L/N	N/±	L/±		L/N	N/±	L/±			
	iPRU 120r	120	60	3.0	1.5	3.5	230/400	350	260	440	TT&TN-S	14	3x A9L120101 + 1x A9L120001
	iPRU 80r	80	40	2.2	1.5	2.65	230/400	350	260	440	TT&TN-S	14	3x A9L080101 + 1x A9L080001

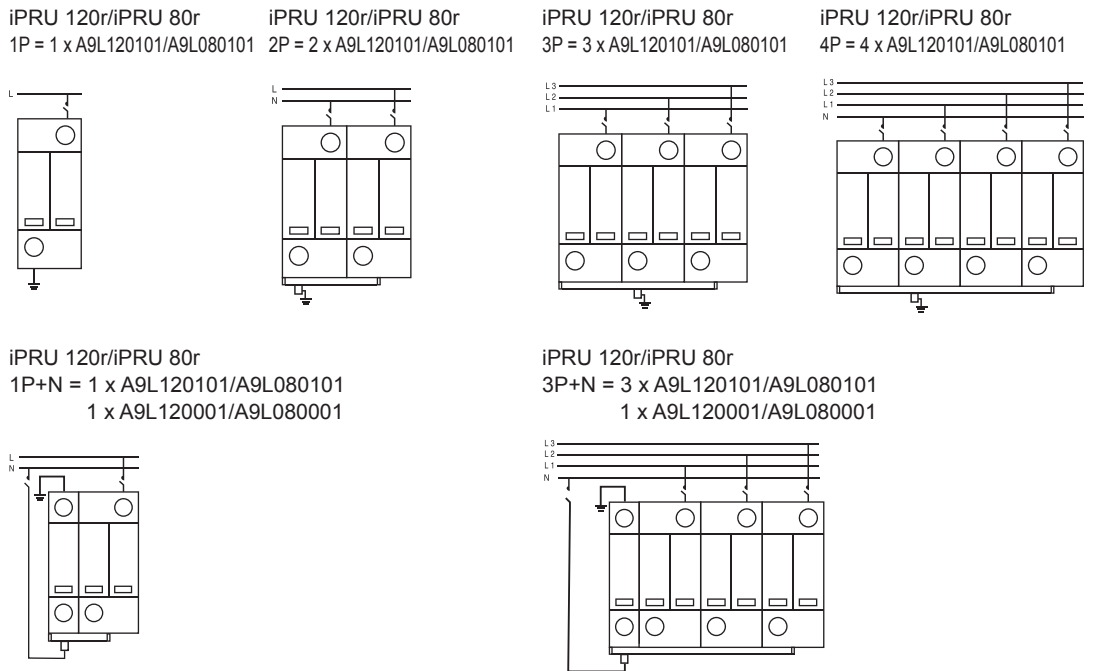


Type	Product	Applied to	Width (In mod. of 9 mm)	Reference
Pluggable modules	iD120-350	iPRU 120r	4	A9L120102
	iDGn 120-350	iPRU 120r Gn	2	A9L120002
	iD80-350	iPRU 80r	4	A9L080102
	iDGn 80-350	iPRU 80r Gn	2	A9L080002

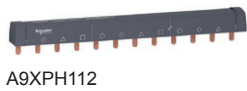
Type

- | | |
|--|--|
| <ul style="list-style-type: none"> ● iPRU 120r/iPRU 80r ○ 1P = 1 x A9L120101/A9L080101 (Reference) ○ 2P = 2 x A9L120101/A9L080101 (Reference) <ul style="list-style-type: none"> 1 x A9XPH112 (Comb busbar) 2 x A9XPE110 (Side plates) ○ 3P = 3 x A9L120101/A9L080101 (Reference) <ul style="list-style-type: none"> 1 x A9XPH112 (Comb busbar) 2 x A9XPE110 (Side plates) ○ 4P = 4 x A9L120101/A9L080101 (Reference) <ul style="list-style-type: none"> 1 x A9XPH112 (Comb busbar) 2 x A9XPE110 (Side plates) | <ul style="list-style-type: none"> ● iPRU 120r/iPRU 80r ○ 1P+N = 1 x A9L120101/A9L080101 (Reference) <ul style="list-style-type: none"> 1 x A9L120001/A9L080001 (Reference) 1 x A9XPH112 (Comb busbar) 2 x A9XPE110 (Side plates) ○ 3P+N = 3 x A9L120101/A9L080101 (Reference) <ul style="list-style-type: none"> 1 x A9L120001/A9L080001 (Reference) 1 x A9XPH112 (Comb busbar) 2 x A9XPE110 (Side plates) |
|--|--|

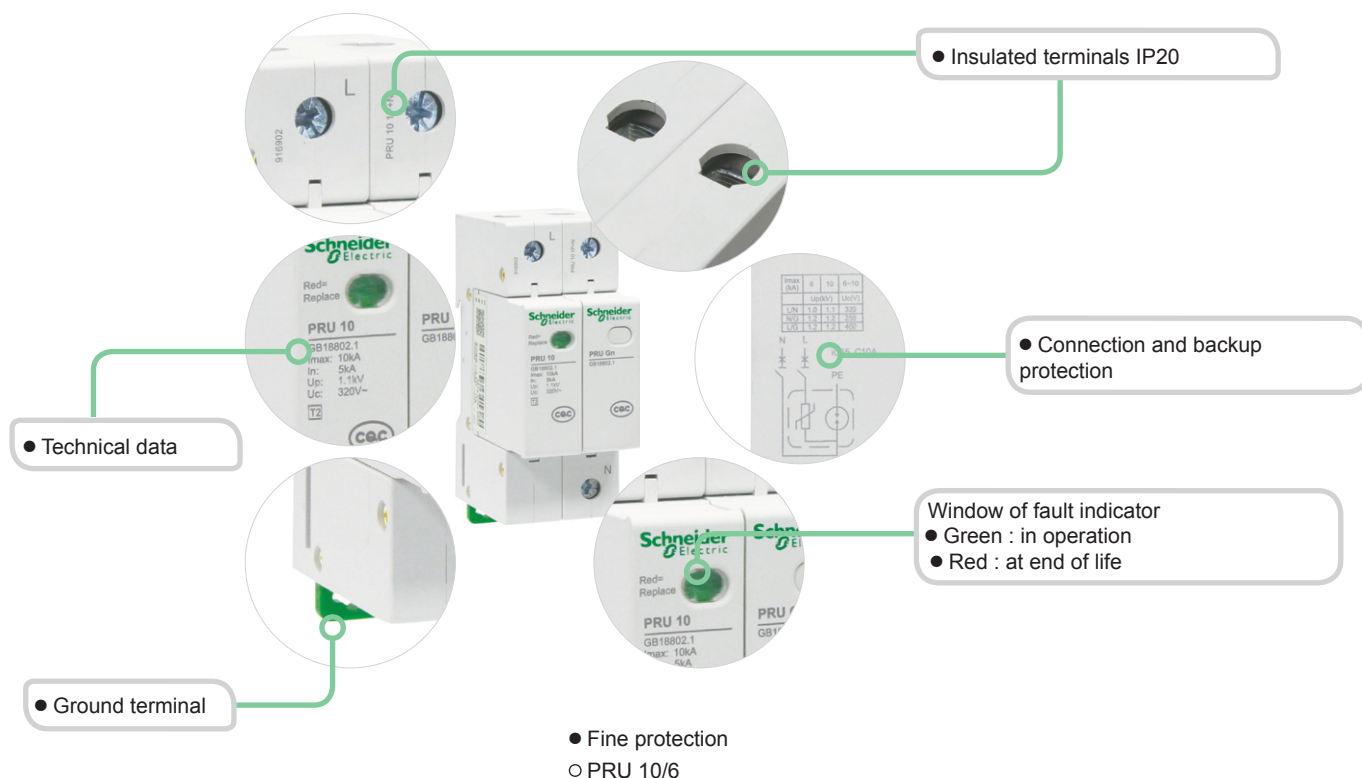
Connection



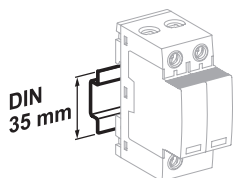
Accessories



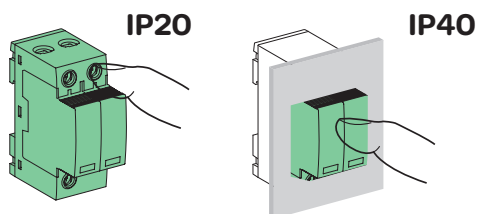
Type	Comb busbar root number	Length (In mod. of 18 mm)	Reference
iC65 comb busbar			
1P	1	12	A9XPH112
Type			Reference
Accessory	Side plates (a set of 10)	Applied to comb busbar	A9XPE110



Description



Installed on the 35 mm DIN rail



Technical data

Main characteristics	
Standard	GB 18802.1
Test class	II / T2
Operating frequency	50/60 Hz
Rated operating voltage U _o	230 V AC
Maximum continuous operating voltage U _c	320 V
Maximum discharge current I _{max}	10/6 kA
Nominal discharge current I _n	5/3 kA
U _p	1.1/1.0 kV
Poles	1P+N
Earthing system	TT, TN
Additional characteristics	
End of life indication	Indication window
Green	In operation
Red	Try to reset the handle, if success, SPD can keep operating , or else, at end of life
Degree of protection	IP20
Response time	25 ns
Working temperature	-5°C ~ +40°C
Storage temperature	-40°C ~ +70°C

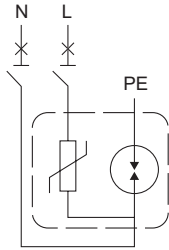
Connection

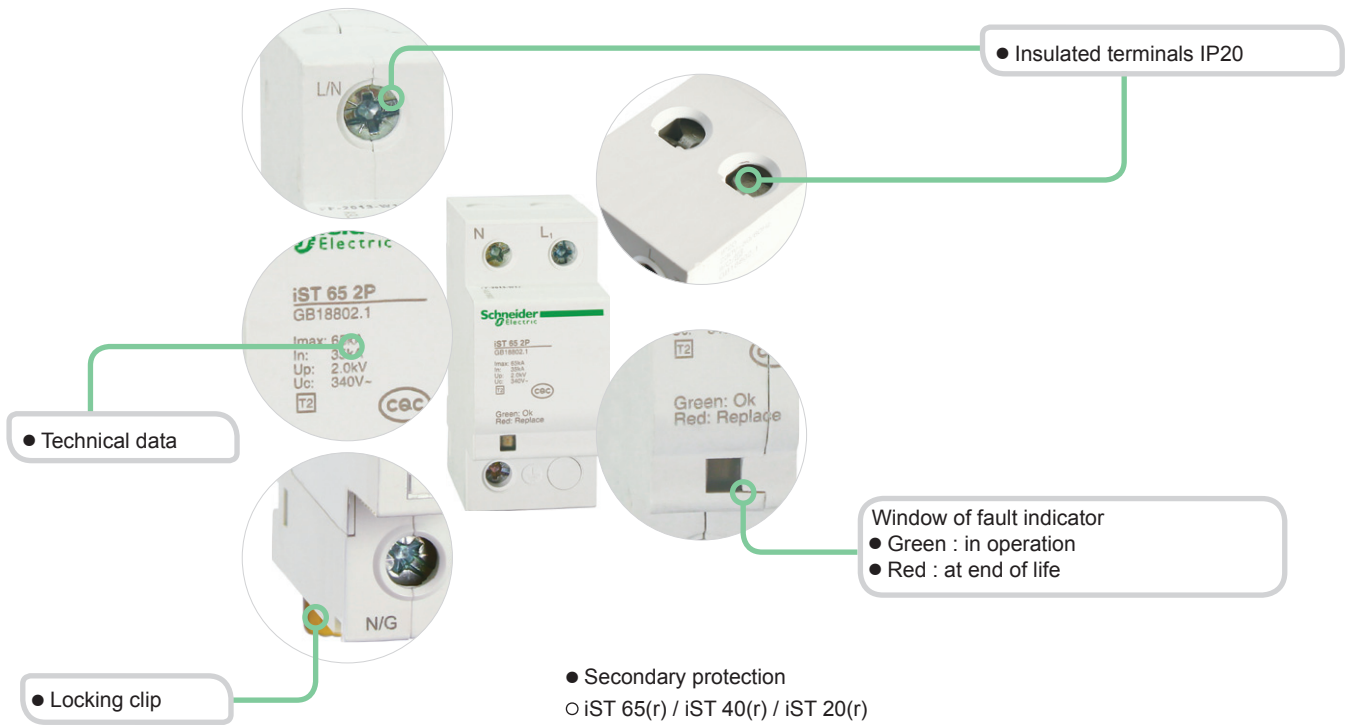
Maximum discharge current I _{max}	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
10/6 kA	2.5 Nm	2.5...35 mm ²	2.5...25 mm ²	≥2.5 mm ²	≥4 mm ²



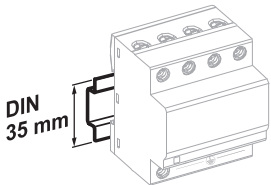
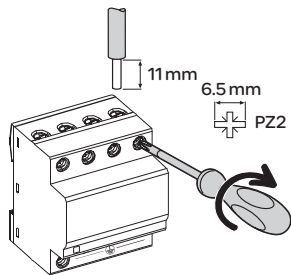
916902

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Width (In mod. of 9 mm)		Reference
				differential mode L/N	common mode N/⊥ L/⊥		differential mode L/N	common mode N/⊥ L/⊥			
1P+N	PRU 10	10	5	1.1	1.2 1.2	230	320	255	400	4	916902
	PRU 6	6	3	1.0	1.2 1.2	230	320	255	400	4	916903

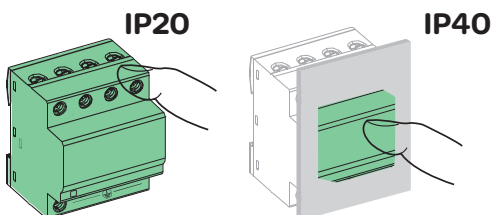




Description



Installed on the 35 mm DIN rail



Technical data

Main characteristics	
Standard	GB 18802.1-2011
Test class	II / T2
Operating frequency	50/60 Hz
Rated operating voltage U _o	230 V AC
Maximum continuous operating voltage U _c	340 V
Maximum discharge current I _{max}	65/40/20 kA
Nominal discharge current I _n	35/20/10 kA
U _p	2.0/1.5/1.2 kV
Poles	1P/2P/3P/4P/1P+N/3P+N
Earthing system	TT, TN
Additional characteristics	
End of life indication	Indication light
Green	In operation
Red	At end of life
End of life remote indication	Remote signal
Contact	11 common terminal, 12 normally closed, 14 normally open
U _c	250 V AC
Maximum switching current	0.25 A
Connection capability	0.5...1.5 mm ²
Degree of protection	IP20
Response time	25 ns
Working temperature	-20°C ~ +60°C
Storage temperature	-40°C ~ +70°C
I _{ie} (0.75U ₁ mA)	< 210 μA (Without internal auxiliary circuit) < 760 μA (With internal auxiliary circuit)

Connection

Maximum discharge current I _{max}	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
65/40/20 kA	3.5 Nm	2.5...35 mm ²	2.5...25 mm ²	≥4 mm ²	≥6 mm ²



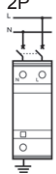
A9L916600

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference	
				differential mode L/N	common mode N/≐		differential mode L/N	common mode N/≐				
1P	iST 65	65	35	-	-	≤2.0	230	-	340	TN	2	A9L916600
	iST 40	40	20	-	-	≤1.5	230	-	340	TN	2	A9L916609
	iST 20	20	10	-	-	≤1.2	230	-	340	TT & TN	2	A9L916618



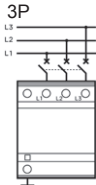
A9L916603

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference		
				differential mode L/N	common mode N/≐		differential mode L/N	common mode N/≐					
2P	iST 65	65	35	-	≤2.0	≤2.0	230	-	340	340	TN-S	4	A9L916603
	iST 40	40	20	-	≤1.5	≤1.5	230	-	340	340	TN-S	4	A9L916612
	iST 20	20	10	-	≤1.2	≤1.2	230	-	340	340	TT & TN-S	4	A9L916621



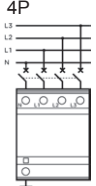
A9L916604

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference	
				differential mode L/N	common mode N/≐		differential mode L/N	common mode N/≐				
3P	iST 65	65	35	-	-	≤2.0	230/400	-	340	TN-C	8	A9L916604
	iST 40	40	20	-	-	≤1.5	230/400	-	340	TN-C	8	A9L916613
	iST 20	20	10	-	-	≤1.2	230/400	-	340	TT & TN-C	8	A9L916622



A9L916607

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference		
				differential mode L/N	common mode N/≐		differential mode L/N	common mode N/≐					
4P	iST 65r	65	35	-	≤2.0	≤2.0	230/400	-	340	340	TN-S	8	A9L916607
	iST 65	65	35	-	≤2.0	≤2.0	230/400	-	340	340	TN-S	8	A9L916608
	iST 40r	40	20	-	≤1.5	≤1.5	230/400	-	340	340	TN-S	8	A9L916616
	iST 40	40	20	-	≤1.5	≤1.5	230/400	-	340	340	TN-S	8	A9L916617
	iST 20	20	10	-	≤1.2	≤1.2	230/400	-	340	340	TT & TN-S	8	A9L916624



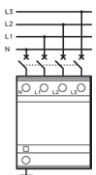
A9L916611

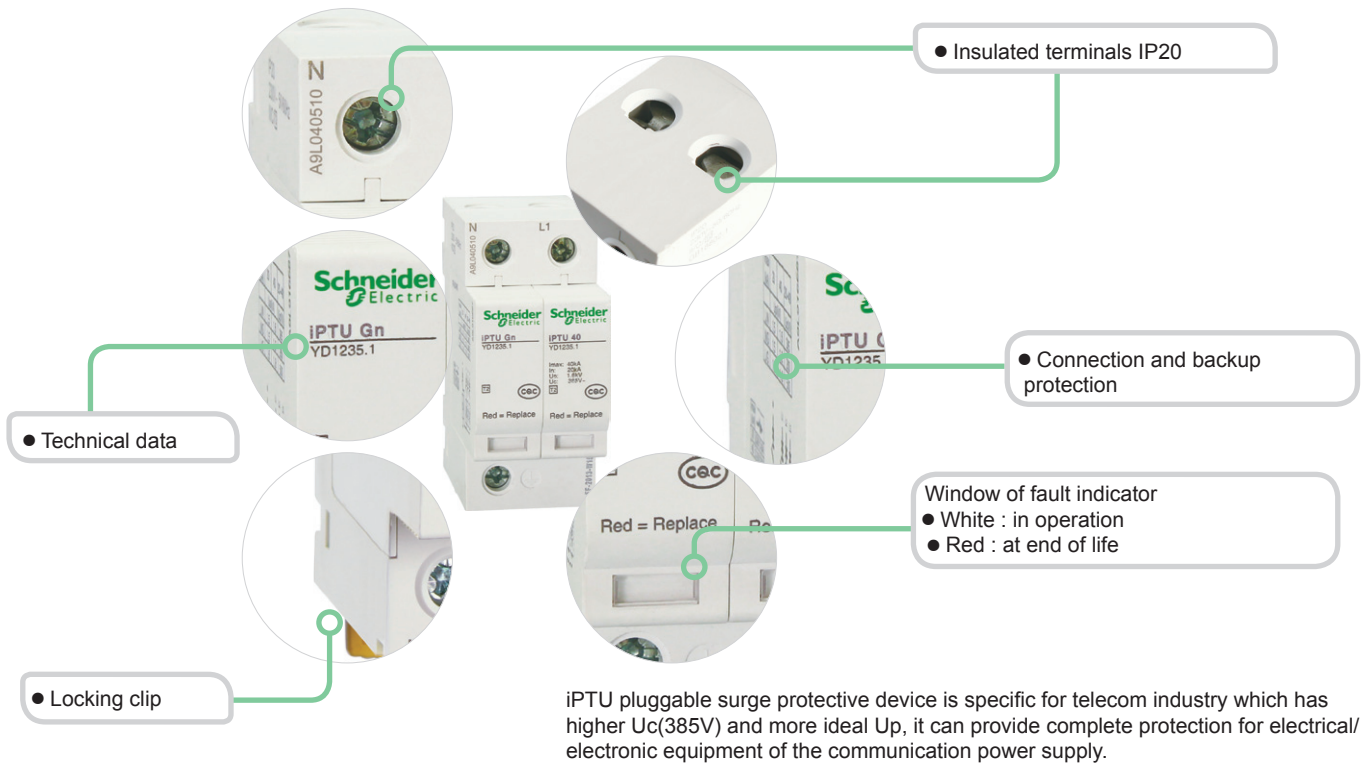
Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference		
				differential mode L/N	common mode N/≐		differential mode L/N	common mode N/≐					
1P+N	iST 40	40	20	≤1.5	≤1.5	≤1.7	230	340	260	440	TT & TN-S	4	A9L916611
	iST 20	20	10	≤1.2	≤1.6	≤1.5	230	340	260	440	TT & TN-S	4	A9L916620



A9L916615

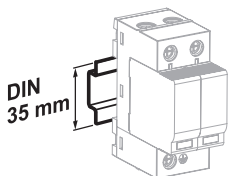
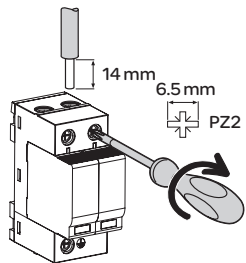
Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference		
				differential mode L/N	common mode N/≐		differential mode L/N	common mode N/≐					
3P+N	iST 65r	65	35	≤2.0	≤1.5	≤2.1	230/400	340	260	440	TT & TN-S	8	A9L916605
	iST 65	65	35	≤2.0	≤1.5	≤2.1	230/400	340	260	440	TT & TN-S	8	A9L916606
	iST 40r	40	20	≤1.5	≤1.5	≤1.7	230/400	340	260	440	TT & TN-S	8	A9L916614
	iST 40	40	20	≤1.5	≤1.5	≤1.7	230/400	340	260	440	TT & TN-S	8	A9L916615
	iST 20r	20	10	≤1.2	≤1.6	≤1.5	230/400	340	260	440	TT & TN-S	8	A9L916625
	iST 20	20	10	≤1.2	≤1.6	≤1.5	230/400	340	260	440	TT & TN-S	8	A9L916623



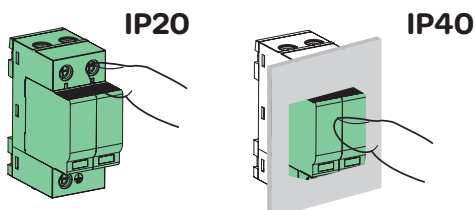


iPTU pluggable surge protective device is specific for telecom industry which has higher $U_c(385V)$ and more ideal U_p , it can provide complete protection for electrical/electronic equipment of the communication power supply.

Description



Installed on the 35 mm DIN rail



Technical data

Main characteristics	
Standard	YD 1235.1
Test class	II / T2
Operating frequency	50/60 Hz
Rated operating voltage U_0	230 V AC
Maximum continuous operating voltage U_c	385 V
Maximum discharge current I_{max}	40/20 kA
Nominal discharge current I_n	20/10 kA
U_p	1.6/1.5 kV
Poles	1P+N/3P+N
Earthing system	TT, TN
Additional characteristics	
End of life indication	Indication window
White	In operation
Red	At end of life
End of life remote indication	Remote signal
Contact	11 common terminal, 12 normally closed, 14 normally open
U_c	250 V AC
Maximum switching current	1 A
Connection capability	0.5...1.5 mm ²
Degree of protection	IP20
Response time	25 ns
Working temperature	-20°C ~ +60°C
Storage temperature	-40°C ~ +70°C
I_{ie} (0.75U1mA)	< 20 μ A

Connection

Maximum discharge current I_{max}	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
40/20 kA	3.5 Nm	2.5...35 mm ²	2.5...25 mm ²	≥4 mm ²	≥6 mm ²



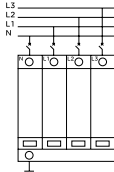
A9L040510

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference		
				differential mode	common mode		differential mode	common mode					
1P+N	iPTU 40	40	20	≤1.6	≤1.5	≤1.8	230	385	260	500	TT & TN-S	4	A9L040510
	iPTU 20	20	10	≤1.5	≤1.5	≤1.6	230	385	260	500	TT & TN-S	4	A9L020510

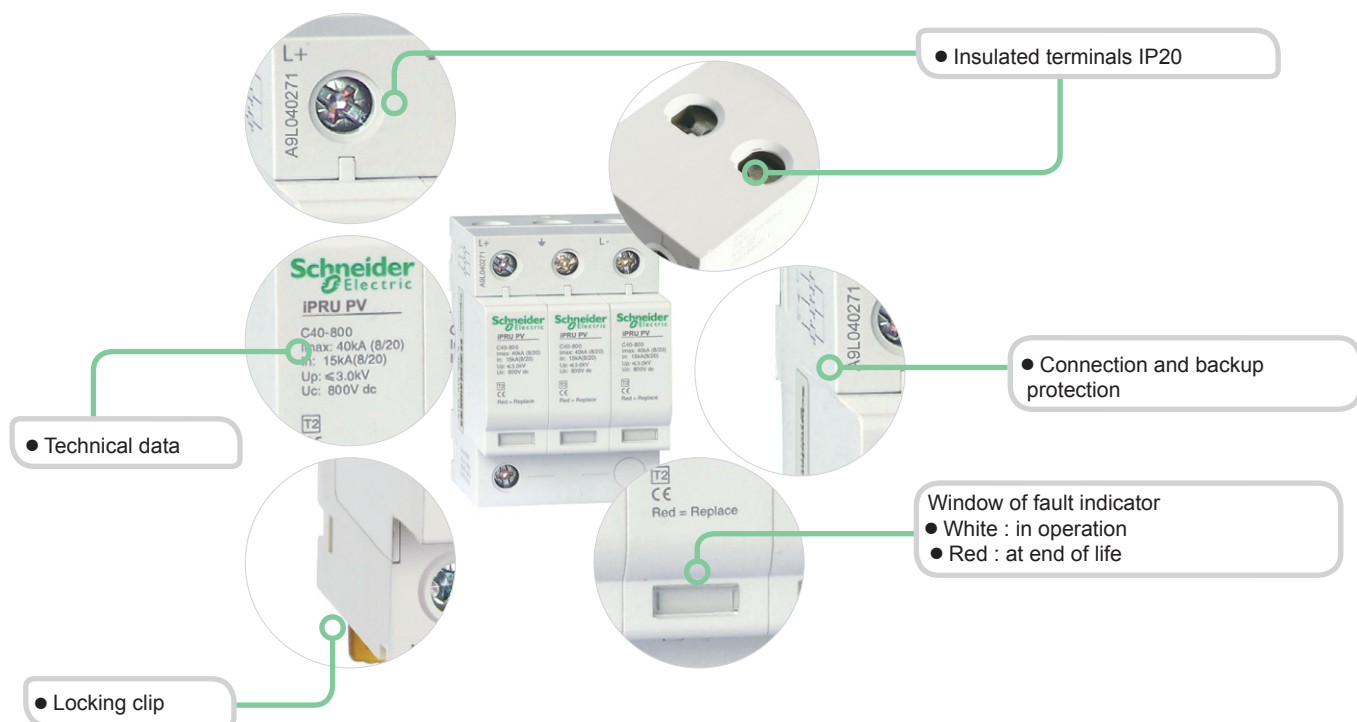


A9L020611

Type	Product	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)	Reference		
				differential mode	common mode		differential mode	common mode					
3P+N	iPTU 40r	40	20	≤1.6	≤1.5	≤1.8	230/400	385	260	500	TT & TN-S	8	A9L040611
	iPTU 40	40	20	≤1.6	≤1.5	≤1.8	230/400	385	260	500	TT & TN-S	8	A9L040610
	iPTU 20r	20	10	≤1.5	≤1.5	≤1.6	230/400	385	260	500	TT & TN-S	8	A9L020611
	iPTU 20	20	10	≤1.5	≤1.5	≤1.6	230/400	385	260	500	TT & TN-S	8	A9L020610



Type	Product	Applied to	Width (In mod. of 9 mm)	Reference
Replaceable part	iD40-385	iPTU 40r / 40	2	A9L040112
	iD20-385	iPTU 20r / 20	2	A9L020112
	iDGn	iPTU 40r / 40 / 20r / 20	2	A9L000012



Protect photovoltaic power generation equipment, as well as potential replaceable part of other DC system.

Description

Technical data

Main characteristics	
Maximum continuous operating voltage U_c	800/1000 V DC
Maximum discharge current I_{max}	40 kA
Nominal discharge current I_n	15 kA
U_p	3.0/3.9 kV
Additional characteristics	
End of life indication	Indication window
White	In operation
Red	At end of life
End of life remote indication	Remote signal
Contact	11 common terminal, 12 normally closed, 14 normally open
U_c	250 V AC
Maximum switching current	1 A
Connection capability	0.5...1.5 mm ²
Degree of protection	IP20
Response time	25 ns
Working temperature	-20°C ~ +60°C
Storage temperature	-40°C ~ +70°C

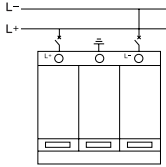
Connection

Maximum discharge current I_{max}	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
40 kA	3.5 Nm	2.5...35 mm ²	2.5...25 mm ²	≥4 mm ²	≥6 mm ²

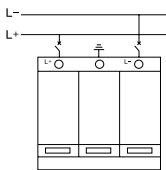


A9L040271

Type	Product	I_{max} (kA)	I_n (kA)	U_p (kV)			U_{OCSTC} (V)	U_c (V)			Width (In mod. of 9 mm)	Reference
				$L+/\underline{L}$	$L-/\underline{L}$	$L+/\underline{L-}$		$L+/\underline{L}$	$L-/\underline{L}$	$L+/\underline{L-}$		
3MOV	iPRU 40r 800PV	40	15	1.6	1.6	3.0	600	600	600	840	6	A9L040271

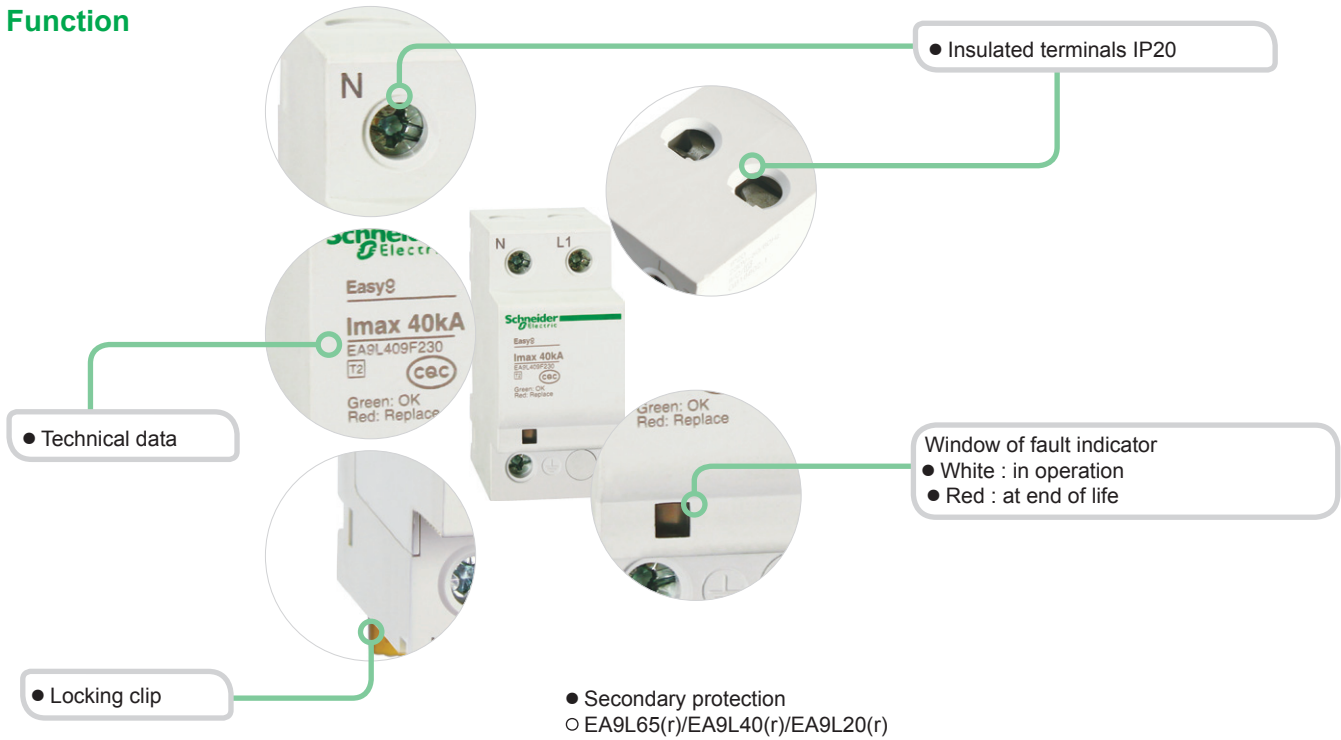


Type	Product	I_{max} (kA)	I_n (kA)	U_p (kV)			U_{OCSTC} (V)	U_c (V)			Width (In mod. of 9 mm)	Reference
				$L+/\underline{L}$	$L-/\underline{L}$	$L+/\underline{L-}$		$L+/\underline{L}$	$L-/\underline{L}$	$L+/\underline{L-}$		
3MOV	iPRU 40r 1000PV	40	15	3.9	3.9	3.9	1000	1230	1230	1230	6	A9L040281

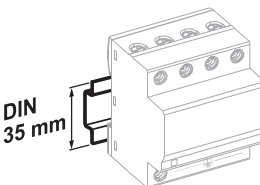
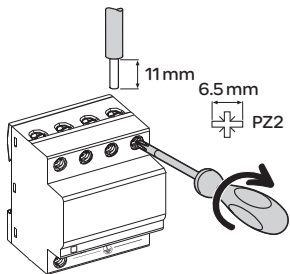


Type	Product	Applied to	Width (In mod. of 9 mm)	Reference
Replaceable part	iD40-800PV	iPRU 40r 800PV	2	A9L040172
	iD40-1000PV	iPRU 40r 1000PV	2	A9L040182

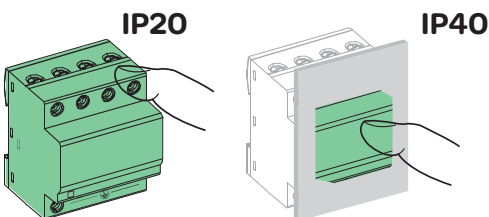
Function



Description



Installed on the 35 mm DIN rail



Technical data

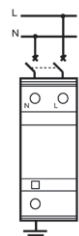
Main characteristics	
Standard	GB 18802.1-2011
Test class	II / T2
Operating frequency	50/60 Hz
Rated operating voltage U _o	230 V AC
Maximum continuous operating voltage U _c	340 V
Maximum discharge current I _{max}	65/40/20 kA
Nominal discharge current I _n	35/20/10 kA
U _p	2.0/1.5/1.2 kV
Poles	1P+N/3P+N
Earthing system	TT, TN
Additional characteristics	
End of life indication	Indication window
White	In operation
Red	At end of life
End of life remote indication	Remote signal
Contact	11 common terminal, 12 normally closed, 14 normally open
U _c	250 V AC
Maximum switching current	0.25 A
Connection capability	0.5...1.5 mm ²
Degree of protection	IP20
Response time	25 ns
Working temperature	-20°C ~ +60°C
Storage temperature	-40°C ~ +70°C
I _{ie} (0.75U ₁ mA)	< 210 μA (Without internal auxiliary circuit) < 760 μA (With internal auxiliary circuit)

Connection

Maximum discharge current I _{max}	Tightening torque	Type of connection terminals		Recommended cables	
		Rigid cable	Flexible cable	L/N	Earthing cable
65/40/20 kA	3.5 Nm	2.5...35 mm ²	2.5...25 mm ²	≥4 mm ²	≥6 mm ²

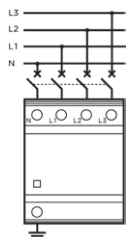


EA9L409F230

Type	Reference	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)		
				differential mode L/N	common mode N/⊥ L/⊥		differential mode L/N	common mode N/⊥ L/⊥				
1P+N 	EA9L209F230	20	10	1.2	1.6	1.5	230	340	260	440	TT & TN-S	4
	EA9L409F230	40	20	1.5	1.5	1.7	230	340	260	440	TT & TN-S	4
	EA9L659F230	65	35	2.0	1.5	2.1	230	340	260	440	TT & TN-S	4



EA9L408F400

Type	Reference	I _{max} (kA)	I _n (kA)	U _p (kV)		U _n (V)	U _c (V)		Earthing system	Width (In mod. of 9 mm)		
				differential mode L/N	common mode N/⊥ L/⊥		differential mode L/N	common mode N/⊥ L/⊥				
3P+N 	EA9L208Fr400	20	10	1.2	1.6	1.5	230/400	340	260	440	TT & TN-S	8
	EA9L208F400	20	10	1.2	1.6	1.5	230/400	340	260	440	TT & TN-S	8
	EA9L408Fr400	40	20	1.5	1.5	1.7	230/400	340	260	440	TT & TN-S	8
	EA9L408F400	40	20	1.5	1.5	1.7	230/400	340	260	440	TT & TN-S	8
	EA9L658Fr400	65	35	2.0	1.5	2.1	230/400	340	260	440	TT & TN-S	8
	EA9L658F400	65	35	2.0	1.5	2.1	230/400	340	260	440	TT & TN-S	8

iPRC surge protective device is applied to protect sensitive equipment in analogue telephone line. Such as the telephones, the PABX, the modems (including ADSL), etc.

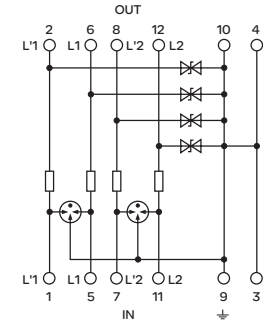
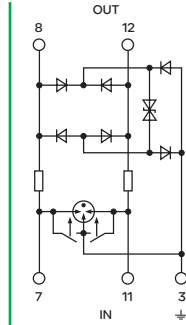
iPRI surge protective device is applied to protect sensitive equipment in digital telephone line .Such as automatic systems, computer networks, data networks, etc.



A9L16337



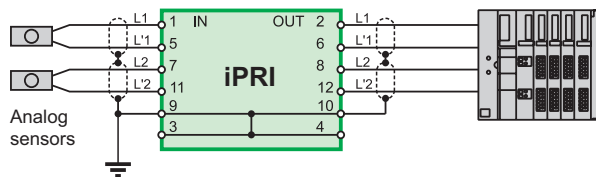
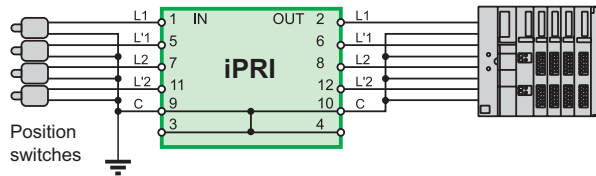
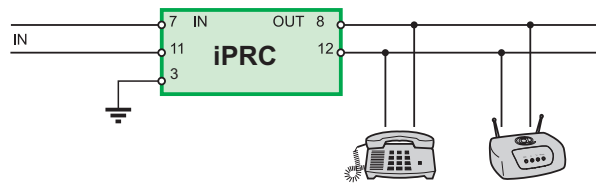
A9L16339



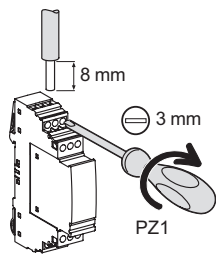
Line L1	7-8	Line L1	5-6
Line L2	11-12	Line L2	11-12
-	-	Line L'1	1-2
-	-	Line L'2	7-8
⊥	3	⊥	3-4-9-10
IN	Line side	IN	Line side
OUT	Protected side	OUT	Protected side



	iPRC	iPRI
Un	< 130V AC	48V DC
Analogue telephone system	●	-
Telephone transmitter	●	-
Digital telephone system	-	●
Automation network	-	●
VLV load power supply (12...48 V)	-	●
xDSL compatibility	●	-
Reference	A9L16337	A9L16339
Width (in mod. of 9 mm)	2	2

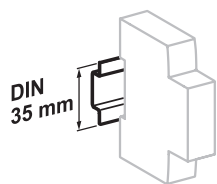
iPRC



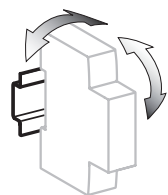
Type of connection terminals



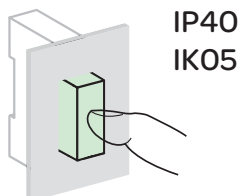
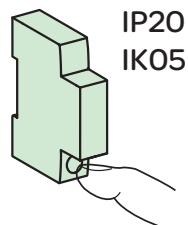
Tightening torque	Copper cables	
	Rigid	Flexible or ferrule
0.8N.m	 0.2-4mm ²	 0.2-2.5mm ²



Installed on the 35 mm DIN rail



Fit to different direction of installation



Technical data

	iPRC	iPRI
Standard	GB 18802.21	
The number of protected incoming lines	2	2
Maximum continuous operating voltage (Uc)	180 V DC, 130 V AC	53 V DC, 37 V AC
Up	300 V	70 V
Nominal discharge current (8/20)(In)	10 kA	10 kA
Maximum discharge current I _{max} (8/20) (I _{max})	18 kA	10 kA
Response time	< 500 ns	≤1 ns
Nominal impulse current	100 A	70 A
Rated current (IN)	450 mA (under 45 °C)	300 mA (under 45 °C)
Series resistance	2.2 Ω	4.7 Ω
End of life indication	No dial tone	No transmission
Degree of protection	Front panel Terminals	IP20 IP40
IK	05	05
Working temperature	-25 °C ~ +60 °C	
Storage temperature	-40 °C ~ +85 °C	

Weight (g)

Type	iPRC	iPRI
	25	65

Function

SE antenna surge protective device is applied to protect all kinds of mobile communication base station, such as GPS positioning system, cable TV system, remote education system, and other high power communication equipment.

Description

ETT antenna surge protective device can undertake narrowband or broadband design according to the principle of $\lambda/4$, and because lightning current has low frequency, it can be removed from the operating signal .

SETK antenna surge protective device uses coaxial gas discharge tube, it has better transmission characteristics and can obtain higher transmission frequency.

SEWT surge protective device interior is innovatively designed with passive, reciprocity work which makes the thunder electric wave and operating signal wave go through different channels and achieves the aim of shunt.

Common technical data

- Standing wave ratio: ≤ 1.2 (≤ 1.5 , F interface)
- Insertion loss: < 0.2 dB
- $KT \leq 0.3$ dB
- British system F joint ≤ 0.5 dB
- Metric system FL joint ≤ 1.0 dB
- Maximum discharge current $I_{max}(8/20\mu s)$: 60/40/20/10 kA
- nominal discharge current $I_n(8/20\mu s)$: 40/20/10/5 kA
- Interface: Male/Female
- Characteristic impedance: 50 Ω
- Third order intermodulation: Better than -160dBc
- Environmental temperature: $-40^\circ\text{C} \sim +80^\circ\text{C}$

Standard

- GB/T 18802.21

SETT series $\lambda/4$ antenna surge protective device



911663

Product	Interface	Frequency MHz	Power W	Up V (10/700 μ s)	Dimension mm	Weight g	Reference
SETT8-10N-40	N	800-960	300	$\leq 10V$	33 x 66 x 75	210	911660
SETT17-24N-40	N	1700-2400	150	$\leq 10V$	30 x 39 x 75	190	911661
SETT8-10D-60	DIN	800-960	500	$\leq 10V$	37 x 92 x 101	640	911662
SETT8-25D-60	DIN	800-2500	500	$\leq 10V$	37 x 65 x 90	385	911663

SEKT series discharge tube type antenna surge protective device



911666

Product	Interface	Frequency MHz	Power W	Up V (10/700 μ s)	Dimension mm	Weight g	Reference
SEKT25N-10	N	DC-2500	100	$\leq 700V$	20 x 30 x 76	230	911664
SEKT25T-10M	TNC	DC-2500	100	$\leq 700V$	F20 x 56	75	911665
SEKT25D-10	DIN	DC-2500	100	$\leq 700V$	35 x 42 x 77	270	911666
SEKT15FL-10	FL	DC-2050	100	$\leq 700V$	18.5 x 23 x 50	62	911672
SEKT20F-10	F	DC-2050	100	$\leq 700V$	18.5 x 23 x 50	62	911673

note: SEKT15FL-10: metric thread.

SEWT series microstrip type antenna surge protective device



911668

Product	Interface	Frequency MHz	Power W	Up V (10/700 μ s)	Dimension mm	Weight g	Reference
SEWT16N-10CN	N	1500-1600	60	$\leq 100V$	56 x 25 x 95	175	911667
SEWT10N-20N	N	700-1000	300	$\leq 100V$	84 x 32 x 73	242	911668
SEWT20N-20N	N	1700-2000	300	$\leq 100V$	84 x 32 x 73	242	911669
SEWT10D-20N	DIN	700-1000	300	$\leq 100V$	84 x 32 x 73	332	911670
SEWT20D-20N	DIN	1700-2000	300	$\leq 100V$	84 x 32 x 73	332	911671

Function

SE signal surge protective device uses high-quality transient voltage suppression diode, solid discharge tube and gas discharge tube. The product family has differential mode and common mode protection products, the equilibrium and non-equilibrium circuit products, low speed circuit and high speed circuit products, fine protection and composite protection products.

Application

Applied to surge protection for computer network, data lines, SPC exchange, various types of fire monitoring equipment, RS422/485 interface, current loop, automatic control and instrumentation line.

Function

SEXM protects the monitoring system such as camera, matrix controller, etc.

Description

Technical data

- Characteristic impedance: 75 Ω
- Uc: 5/24V
- Transmission rate: 10 M
- Nominal discharge current: 5 kA
- Up: ≤ 100 V (Composite wave with 1.2/50 μ s and 8/20 μ s)
- Insertion loss: ≤ 0.3 dB
- Interface: Male/Female
- Working temperature: -40 $^{\circ}$ C ~ +80 $^{\circ}$ C

Standard

- GB/T 18802.21



9116676

Product	Interface	Up V	Dimension mm	Weight g	Reference
SEXM-1B-5	BNC	≤ 100 V	80 x 27 x 25	75	9116676
SEXM-1B-24	BNC	≤ 100 V	80 x 27 x 25	75	9116677

Function

SEXL (RJ11) protects DDN line ,dialup line, FAX.

Description

Technical data

- Uc: 12/48/110 V
- Number of protected lines: 3,4
- Transmission rate: 2 M
- Nominal discharge current: 2 kA
- Up: ≤ 100 V (Composite wave with 1.2/50 μ s and 8/20 μ s)
- Insertion loss: ≤ 0.5 dB
- Working temperature: -40 $^{\circ}$ C ~ +80 $^{\circ}$ C

Standard

- GB/T 18802.21



9116678

Product	Interface	Up V	Dimension mm	Weight g	Reference
SEXL-1H-12	RJ11	≤ 100 V	80 x 27 x 25	70	9116678
SEXL-1H-48	RJ11	≤ 100 V	80 x 27 x 25	70	9116679
SEXL-1H-110	RJ11	≤ 100 V	80 x 27 x 25	70	9116680

Function

SEXM, SEXH protects hubs, network switches and other network equipment.

Description

Technical data

- Uc: 5 V
- Number of protected lines: 1,2,3,6
- Transmission rate: 10/100 M
- Nominal discharge current: 5 (shielded line to earth) / 2 (core wire to shielded line) kA
- Up: ≤100 V (Composite wave with 1.2/50µs and 8/20µs)
- Insertion loss: ≤1 dB
- Working temperature: -40 °C ~ +80 °C

Standard

- GB/T 18802.21



9116681

Product	Interface	Transmission rate	Up	Dimension	Weight	Reference
		M	V	mm	g	
SEXM-2R-5	RJ45	10M	≤100V	80 x 27 x 25	95	9116681
SEXH-2R-5	RJ45	100M	≤100V	80 x 27 x 25	95	9116682

Function

SEXL (twisted-pair) protects industrial control Internet, RS422/485 interface, automatic control instrument circuit, data cable and telephone equipment, as well as protects sensors in current loop and the secondary instrument.

Description

Technical data

- Uc: 5/12/24/110 V
- Number of protected lines: SEXL-1J/SEXL-2J: line 1 / line 2
- Transmission rate: 2 M
- Nominal discharge current: 5 kA
- Up: ≤ 100 V (Composite wave with 1.2/50µs and 8/20µs)
- Insertion loss: ≤ 0.5 dB
- Working temperature: -40 °C ~ +80 °C

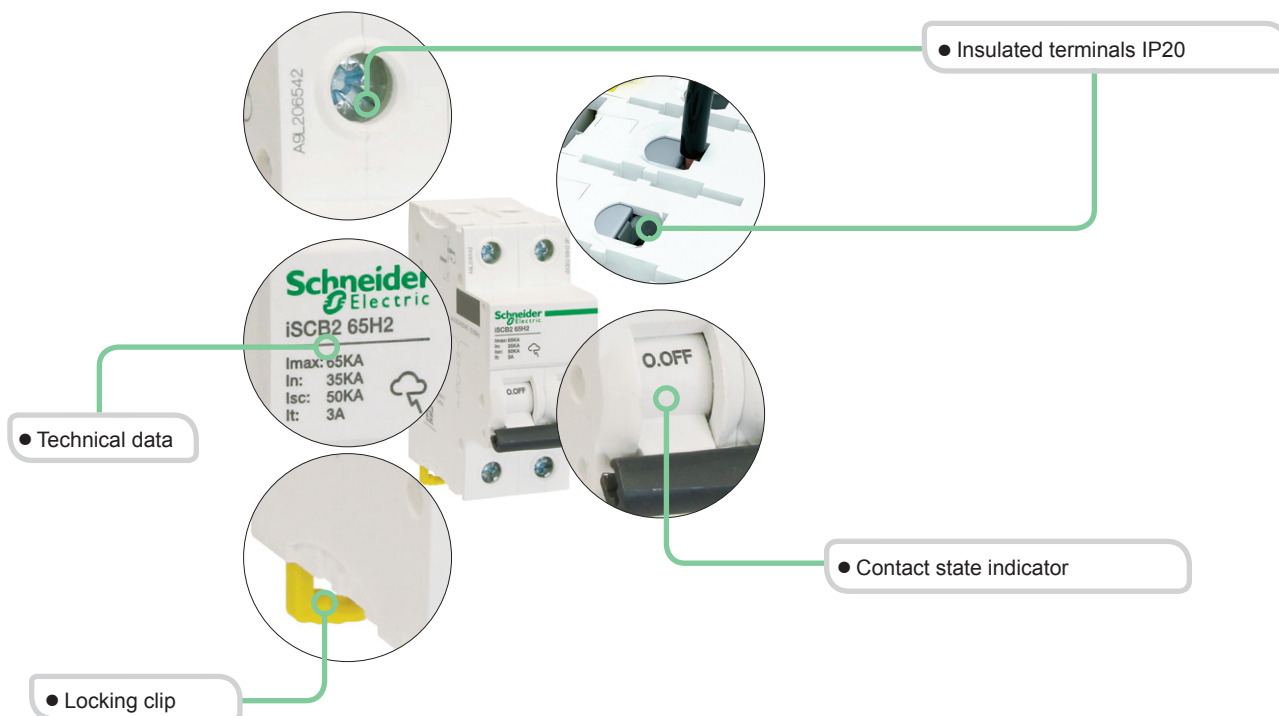
Standard

- GB/T 18802.21

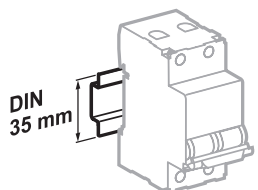
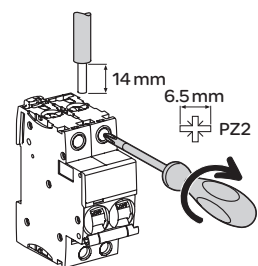


9116688

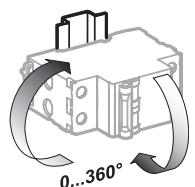
Product	Number of protected lines	Up	dimension	weight	Reference
		V	mm	g	
SEXL-1J-5	1 pair of twisted pair	≤100V	100 x 27 x 25	70	9116683
SEXL-1J-12	1 pair of twisted pair	≤100V	100 x 27 x 25	70	9116684
SEXL-1J-24	1 pair of twisted pair	≤100V	100 x 27 x 25	70	9116685
SEXL-1J-110	1 pair of twisted pair	≤100V	100 x 27 x 25	70	9116686
SEXL-2J-5	2 pairs of twisted pair	≤100V	100 x 47 x 25	110	9116687
SEXL-2J-12	2 pairs of twisted pair	≤100V	100 x 47 x 25	110	9116688
SEXL-2J-24	2 pairs of twisted pair	≤100V	100 x 47 x 25	110	9116689
SEXL-2J-110	2 pairs of twisted pair	≤100V	100 x 47 x 25	110	9116690



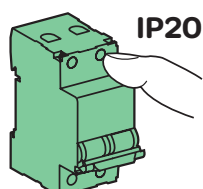
Description



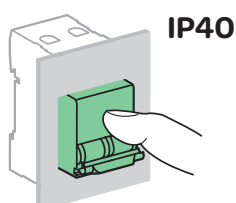
Installed on the 35 mm DIN rail



Flexible installation direction



IP20



IP40

Technical data

Main characteristics

Test class of SPD	T1/T2
Rated operating voltage	230/400 VAC
Working frequency	50/60 Hz
Maximum impulse current Iimp	25 kA
Maximum discharge current I _{max}	120/65/20 kA
Nominal discharge current I _n	60/35/10 kA
Maximum short circuit breaking capacity I _{sc}	100/65/50/36/25/15 kA
Poles	1P, 2P, 3P, 4P
Low shore circuit operating current	3 A

Additional characteristics

Local indication	Contact state	
Remote indication	Remote signal	
Degree of protection	Front pane	IP40
	Terminals	IP20

Connection

I _{imp}	Tightening torque	Connection capability		Recommended cables
		Rigid cable	Flexible cable	
25kA	3.5 N·m	2.5...35 mm ²	2.5...25 mm ²	16 mm ²

I _{max}	Tightening torque	Connection capability		Recommended cables
		Rigid cable	Flexible cable	
120kA	3.5 N·m	2.5...35 mm ²	2.5...25 mm ²	≥ 6 mm ²
65kA				≥ 4 mm ²
20kA				≥ 4 mm ²

iSCB SPD backup circuit breaker For Type I SPD



A9L102551

SPD applied to	Product	I_{imp} (kA)	I_n (kA)	I_{sc} (kA)	I_t (A)	Poles	Width (In mod. of 9 mm)	Reference
iPRD1 20r	iSCB1 25L2 1P	25	80	100	3	1P	4	A9L102561
iPRF1 12.5r	iSCB1 25L1 1P	25	80	65	3	1P	4	A9L102551
	iSCB1 25L2 2P	25	80	100	3	2P	8	A9L102562
	iSCB1 25L1 2P	25	80	65	3	2P	8	A9L102552
	iSCB1 25L2 3P	25	80	100	3	3P	12	A9L102563
	iSCB1 25L1 3P	25	80	65	3	3P	12	A9L102553
	iSCB1 25L2 4P	25	80	100	3	4P	16	A9L102564
	iSCB1 25L1 4P	25	80	65	3	4P	16	A9L102554

iSCB SPD backup circuit breaker For Type II SPD



A9L206542

SPD applied to	Product	I _{max} (kA)	I _n (kA)	I _{sc} (kA)	I _t (A)	Poles	Width (In mod. of 9 mm)	Reference
iPRU 120r	iSCB2 120L2 1P	120	60	100	3	1P	2	A9L212061
iPRU 80r	iSCB2 120L1 1P	120	60	65	3	1P	2	A9L212051
	iSCB2 120L2 2P	120	60	100	3	2P	4	A9L212062
	iSCB2 120L1 2P	120	60	65	3	2P	4	A9L212052
	iSCB2 120L2 3P	120	60	100	3	3P	6	A9L212063
	iSCB2 120L1 3P	120	60	65	3	3P	6	A9L212053
	iSCB2 120L2 4P	120	60	100	3	4P	8	A9L212064
	iSCB2 120L1 4P	120	60	65	3	4P	8	A9L212054



A9L206544

SPD applied to	Product	I _{max} (kA)	I _n (kA)	I _{sc} (kA)	I _t (A)	Poles	Width (In mod. of 9 mm)	Reference
iPRU 65r	iSCB2 65H2 1P	65	35	50	3	1P	2	A9L206541
iPRU 40r/40	iSCB2 65H1 1P	65	35	36	3	1P	2	A9L206531
iST 65r/65								
iST 40r/40								
EA9L 65kA	iSCB2 65H2 2P	65	35	50	3	2P	4	A9L206542
EA9L 40kA	iSCB2 65H1 2P	65	35	36	3	2P	4	A9L206532
	iSCB2 65H2 3P	65	35	50	3	3P	6	A9L206543
	iSCB2 65H1 3P	65	35	36	3	3P	6	A9L206533
	iSCB2 65H2 4P	65	35	50	3	4P	8	A9L206544
	iSCB2 65H1 4P	65	35	36	3	4P	8	A9L206534

SPD applied to	Product	I _{max} (kA)	I _n (kA)	I _{sc} (kA)	I _t (A)	Poles	Width (In mod. of 9 mm)	Reference
iPRU 20r/20	iSCB2 20N2 1P	20	10	25	3	1P	2	A9L202021
iPRU 10	iSCB2 20N1 1P	20	10	15	3	1P	2	A9L202011
iST 20r/20								
EA9L 20kA	iSCB2 20N2 2P	20	10	25	3	2P	4	A9L202022
	iSCB2 20N1 2P	20	10	15	3	2P	4	A9L202012
	iSCB2 20N2 3P	20	10	25	3	3P	6	A9L202023
	iSCB2 20N1 3P	20	10	15	3	3P	6	A9L202013
	iSCB2 20N2 4P	20	10	25	3	4P	8	A9L202024
	iSCB2 20N1 4P	20	10	15	3	4P	8	A9L202014





Appendix

How to select a surge protective device in a building or structure

For a general building or structure, the selection of multi-level surge protective devices should comply with the requirements of GB50057-2010 and GB50343-2012. The surge protective devices in low voltage distribution system recommended by Schneider Electric comply with the above standards and the details are listed in below table:

Selection

Select the specification of surge protective devices based on the lightning protection level of electronic information system in building and different lightning protection zone

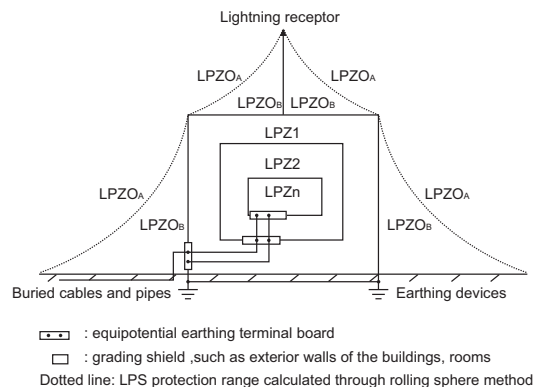
Protection level	the boundary between LPZ0 and LPZ1		the boundary between LPZ1 and LPZ2	the boundary of the following protection zone
	Main switchboard		Sub-switchboard	Enclosure of sensitive equipment to be protected
	10/350 μ s I_{imp} (kA)	8/20 μ s I_n (kA)	8/20 μ s I_n (kA)	8/20 μ s I_n (kA)
A	≥ 20	≥ 80	≥ 40	≥ 5
	iPRD1 20r	Please contact us	iPRU 80r	iPRU 10 / PRU 10
	iPRF1 12.5r (by GB50057)			
B	≥ 15	≥ 60	≥ 30	≥ 5
	iPRD1 20r	iPRU 120r	iPRU 65r	iPRU 10 / PRU 10
	iPRF1 12.5r (by GB50057)			
C	≥ 12.5	≥ 50	≥ 20	≥ 3
	iPRF1 12.5r	iPRU 120r	iPRU 40r / iPRU 40	iPRU 10 / PRU 6
D	≥ 12.5	≥ 50	≥ 10	≥ 3
	iPRF1 12.5r	iPRU 120r	iPRU 20r / iPRU 20	iPRU 10 / PRU 6

Lightning Protection Level of Electronic Information System in Building

Lightning Protection Level	Building type
A	<ul style="list-style-type: none"> Electronic information systems in important public facilities such as state level computing centers, state level communication hubs, highest level and Level 1 monetary facilities, medium and large airports, state and provincial level radio and TV center, hub ports, train hub stations, provincial and municipal level water, electricity and heat facilities The CCTV monitoring and alarm systems of Level 1 security units, such as State Cultural Relic and Archive Museums Electronic medical equipment of level1 hospitals
B	<ul style="list-style-type: none"> Electronic information system of medium computing centers, Level 2 monetary facilities, medium communication hubs, mobile communication base stations, large stadiums, small airports, large ports, and large train stations The CCTV monitoring and alarm systems of Level 2 security units, such as Provincial Cultural Relic and Archive Museums Electronic information systems of radar stations and microwave stations, as well as highway monitoring and toll collection systems Electronic medical equipment of level 2 hospitals Electronic information systems of Five-Star and higher level hotels
C	<ul style="list-style-type: none"> Electronic information systems of Level III monetary facilities and small communication hub Large and medium cable TV system Electronic information systems of Four-Star and lower level hotels
D	General-purpose electronic information equipment which requires protection except for the above A, B and C cases

Lightning protection zone partition

- Lightning protection zone partition means to divide the buildings which require protection and control of lightning EMP environment into different lightning protection zones (LPZ) from exterior to interior.
- Lightning protection zones are divided into: LPZ0_A, LPZ0_B, LPZ1, LPZ2, LPZn (refer to the right figure), and meet the following regulations:
 - LPZ0_A: Electromagnetic field does not decay, various objects may be directly struck by lightning, and it is a completely exposed nonprotection zone.
 - LPZ0_B: Electromagnetic field does not decay, various objects are unlikely to be directly struck by the lightning, and it is a completely exposed direct lightning protection zone.
 - LPZ1: Because of the shielding measures of the building, the lightning current flowing through various conductors is less than the current in the direct lightning protection zone (LPZ0_B). The electromagnetic field decays, and various objects cannot be directly struck by lightning.
 - LPZ2: Following protection zone which is introduced to further decrease the guided lightning current or electromagnetic field.
 - LPZn: Following protection zones which are introduced to further decrease lightning electromagnetic pulse to protect highly sensitive equipment.



Building lightning protection zone(LPZ) partition

Effective $U_{p/f}$ selection

The selection of effective $U_{p/f}$ need to consider two aspects. (More details in GB50057 2010):

- d: The distance between surge protective device and equipment.
- U_w : rated impulse withstand voltage of equipment

$U_{p/f}$ should comply with:

When $d \leq 5m$ or $10m$ (Lines are shielded and both ends is continuously equipotential)

$$U_{p/f} \leq U_w$$

when $d > 10m$

$$U_{p/f} \leq \frac{U_w}{2}$$

Rated impulse withstand voltage of equipment(U_w) in 220/380V distribution system.

Type	I Low	II Normal	III High	IV Very high
Equipment	Electronic equipment: TV, audio, recorder	Household device: washer, refrigerator, power tools, heater, computers and other communication	Industrial electrical equipment: Motors, switchboard, power plug, transformer, etc.	Industrial electrical equipment: Electrical measuring instrument, over-current protection device.
U_w	1.5 kV	2.5 kV	4 kV	6 kV

U_c selection

According to the type of earthing system and protection mode of surge protective device

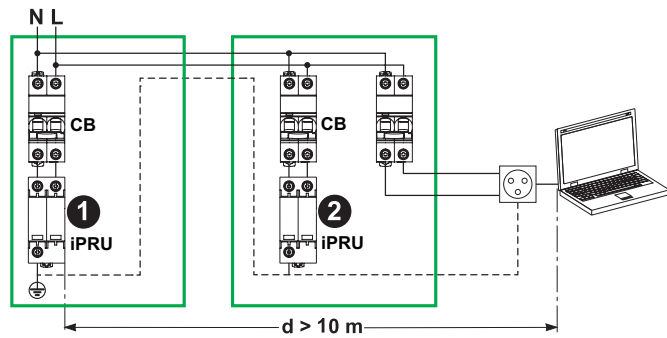
Surge protective device Connected to	Earthing system				
	TT	TN-C	TN-S	IT system with neutral line	IT system without neutral line
L-N	$1.15U_0$	Not applicable	$1.15U_0$	$1.15U_0$	Not applicable
L-PE	$1.15U_0$	Not applicable	$1.15U_0$	$\sqrt{3}U_0$	Voltage between phases
N-PE	U_0	Not applicable	U_0	U_0	Not applicable
L-PEN	Not applicable	$1.15U_0$	Not applicable	Not applicable	Not applicable

U_0 : phase voltage, 220V.

PS: we suggest that U_c should be higher than 320v because of the instability of Chinese grid.

Principle of hierarchical configuration

To offer best selection, surge protective device configuration is usually multilevel in application. The first protection should withstand most lightning current, and the second protection discharges residual lightning current, limits residual voltage at the equipment, and cooperates with the first protection.



When $d > 10\text{ m}$, surge protective device should be installed as close as possible to the protected equipment.

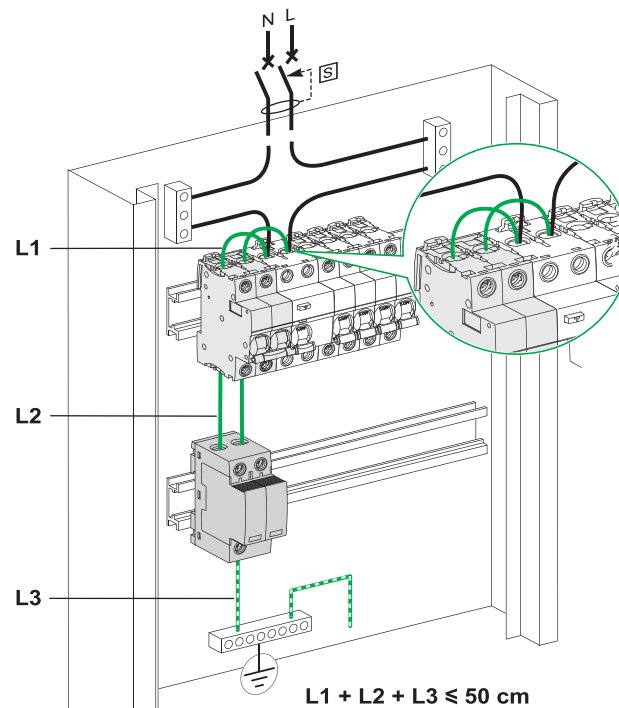
When the lightning current invades and discharges, SPD1 has two possibilities:

- Up is much higher than U_w
- Surge protective device is far away from fine equipment ($> 10\text{ m}$)

In both cases, surge protective device shall be installed near the load to reduce overvoltage and make it match the U_w of protected equipment.

Principle of 50 cm connection

Installation of connection requires $d1 + d2 + d3 < 50\text{ cm}$, the connection among terminal of surge protective device, the electric wiring and grounding bus connection should be as short as possible to avoid the partial pressure get too high and busbar voltage rise too much.



Class I test

Test with I_n , 1.2 / 50 surge voltage and limp.

Class II test

Test with I_n , 1.2 / 50 surge voltage and I_{max} .

Maximum continuous operating voltage U_c

Maximum r.m.s. or d.c. voltage, which may be continuously applied to the surge protective device's mode of protection

Maximum discharge current I_{max}

Crest value of a current through the surge protective device having an 8/20 μ s wave-shape and magnitude according to the test sequence of the class II operating duty test. I_{max} is greater than I_n

Nominal discharge current I_n

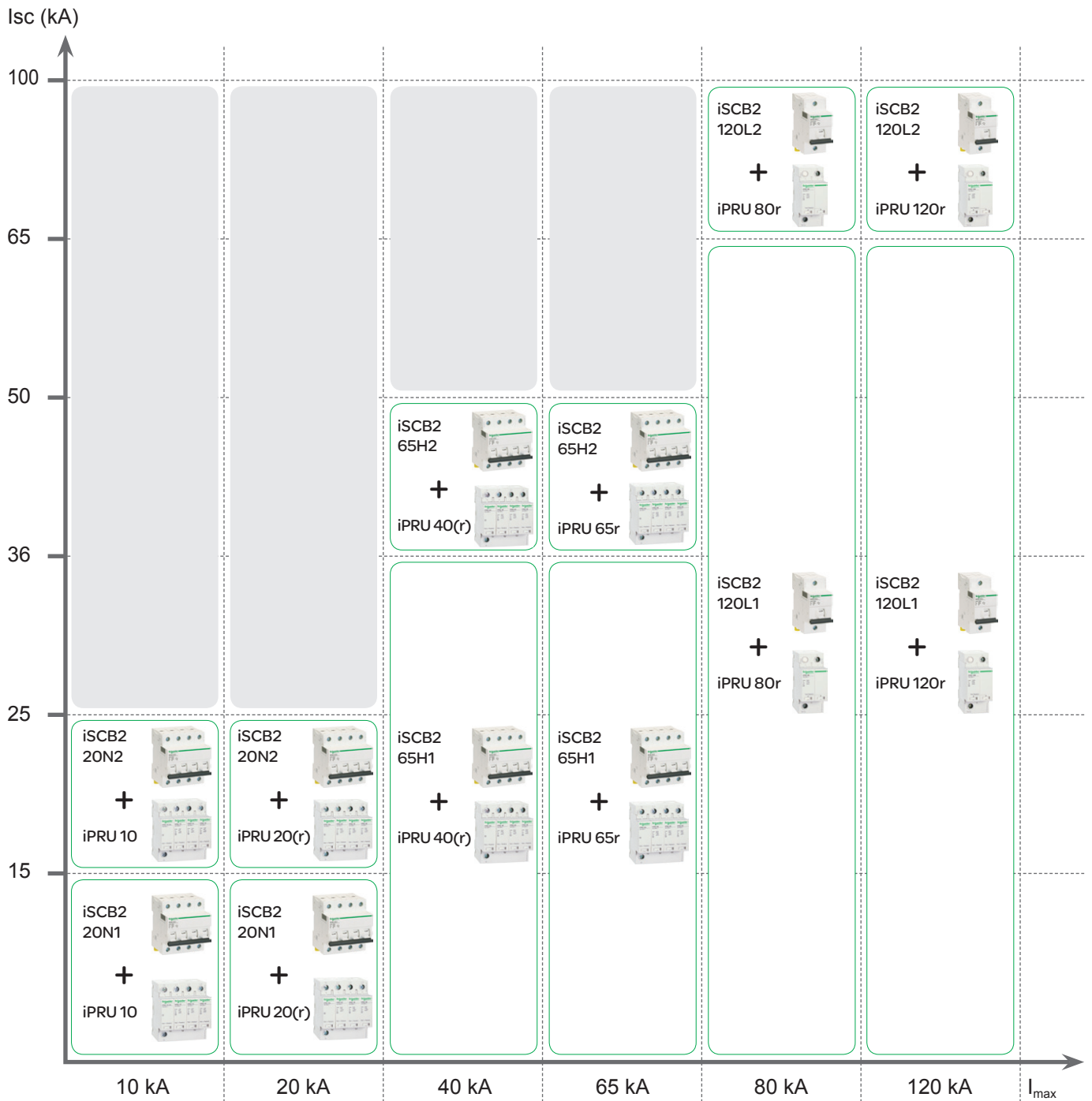
Crest value of the current through the surge protective device having a current wave-shape of 8/20 μ s. This is used for the classification of the surge protective device for class II test and also for preconditioning of the surge protective device for class I and II tests.

Voltage protection level U_p

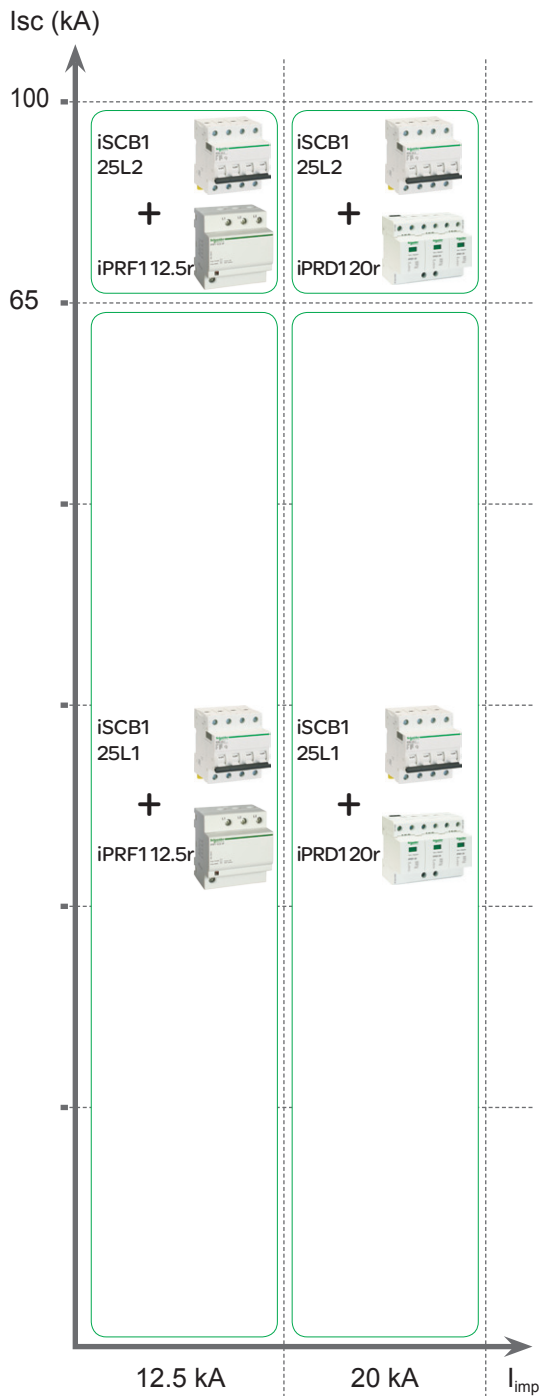
A parameter that characterizes the performance of the surge protective device in limiting the voltage across its terminals, which is selected from a list of preferred values. This value shall be greater than the highest value of the measured limiting voltages.

Backup circuit breaker selection II (8/20 μ s) Surge protective device

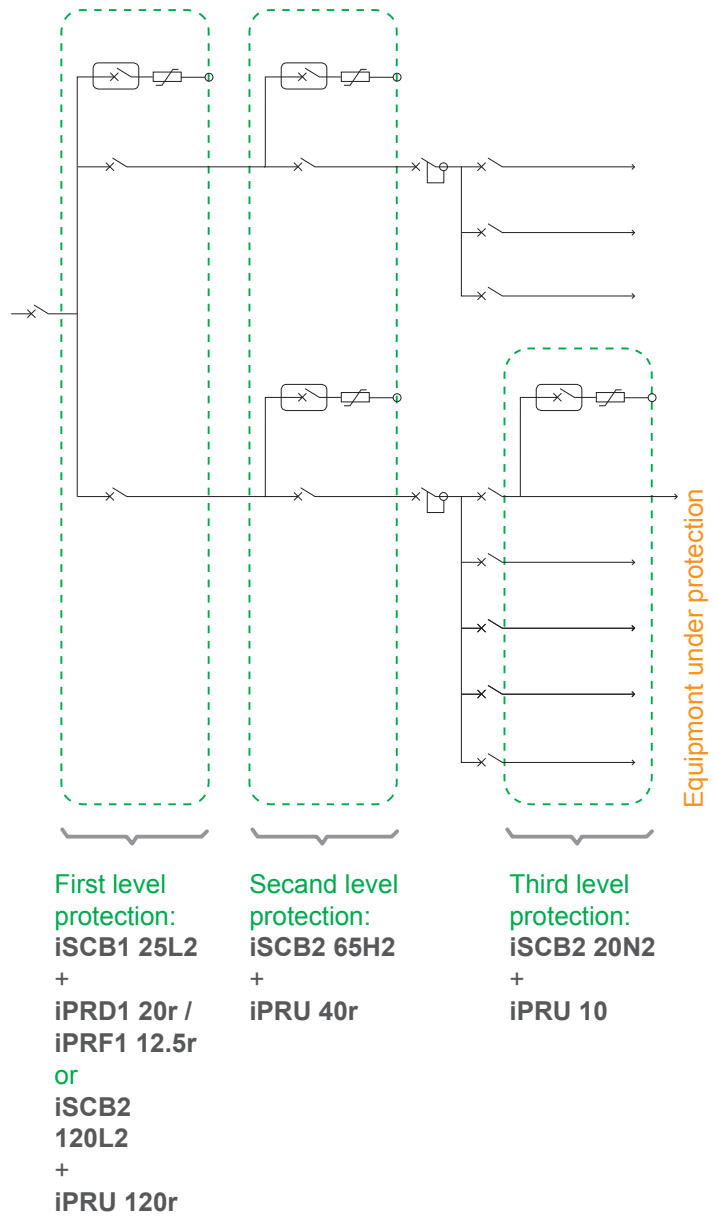
The maximum short-circuit breaking capacity



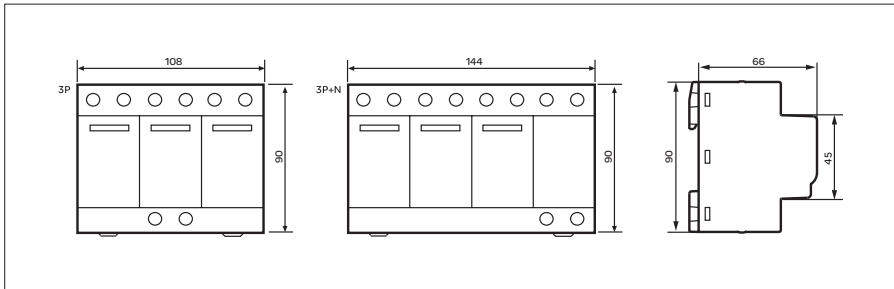
The maximum short-circuit breaking capacity



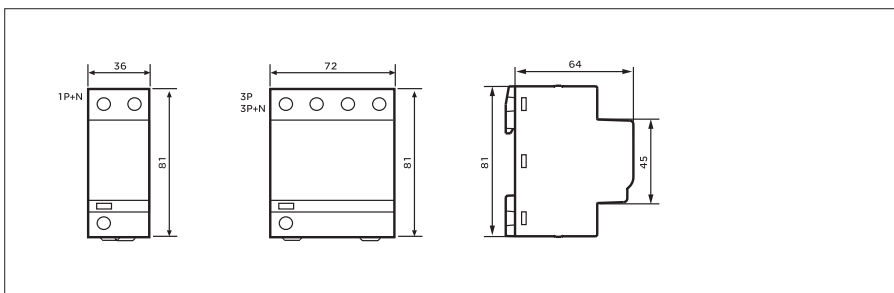
Application case



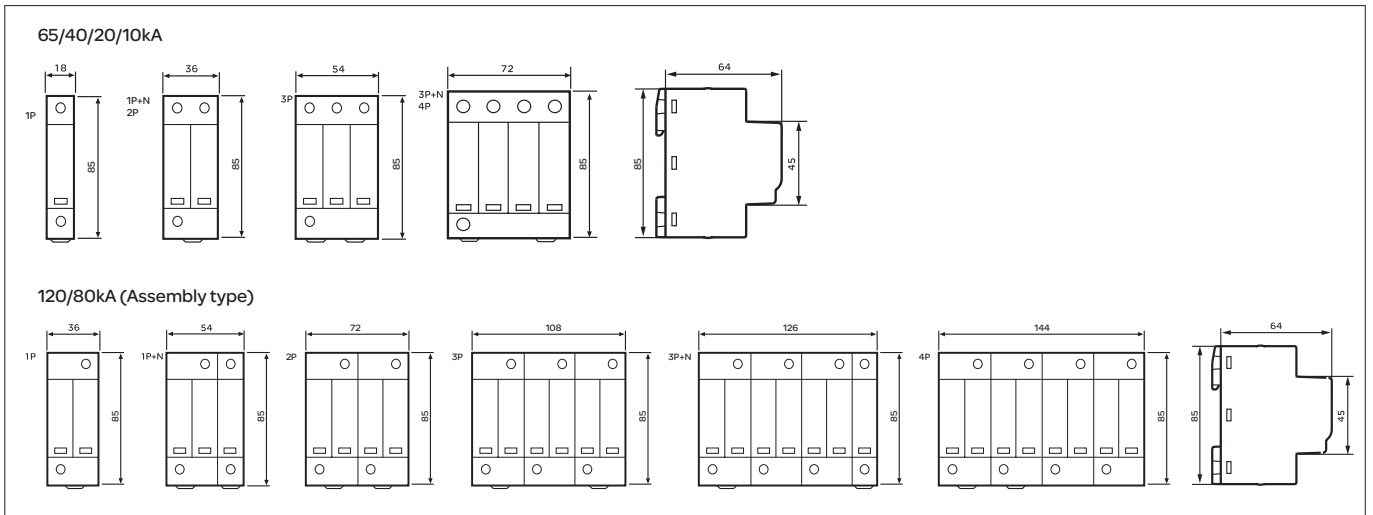
iPRD120r surge protective device



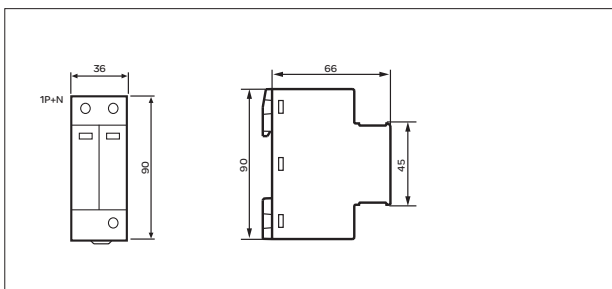
iPRF1 12.5r surge protective device



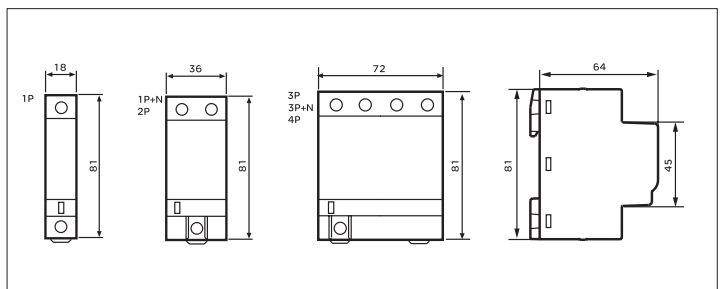
iPRU surge protective device



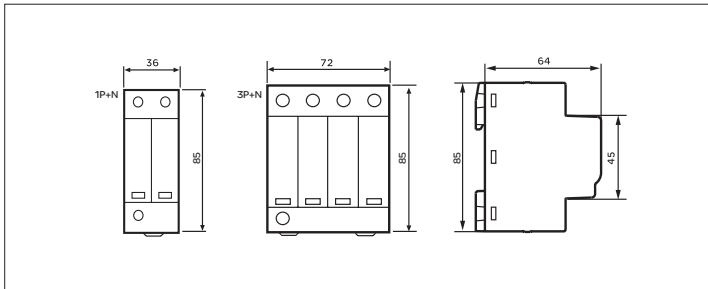
PRU surge protective device



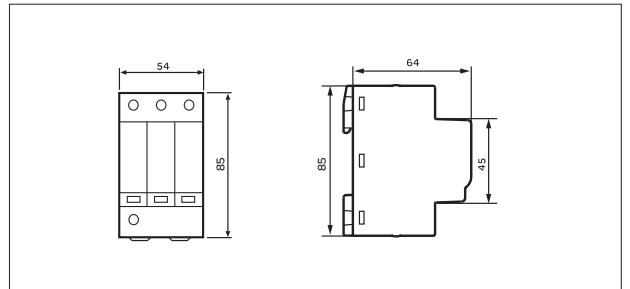
iST surge protective device



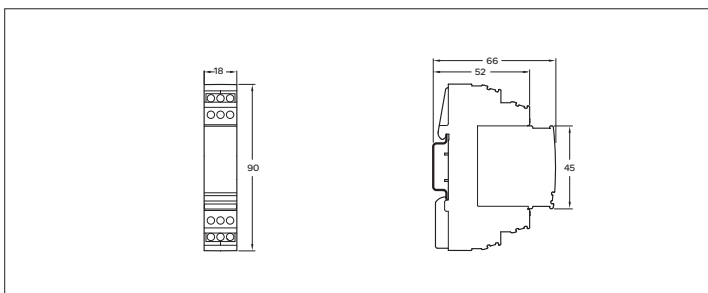
iPTU surge protective device



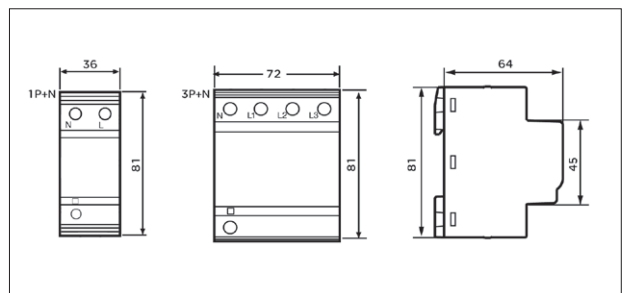
iPRU PV surge protective device



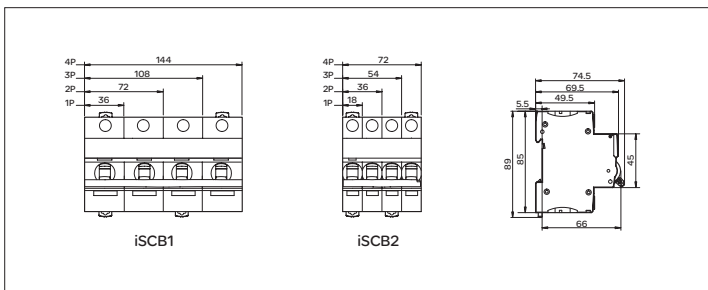
iPRC/iPRI surge protective device



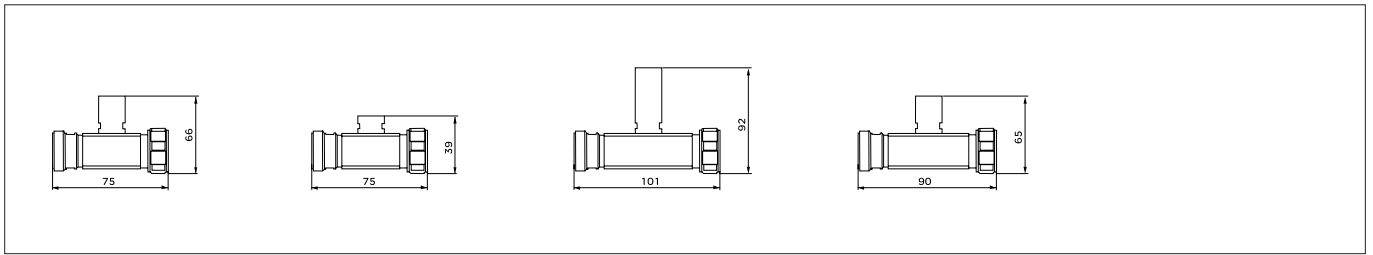
EA9L surge protective device



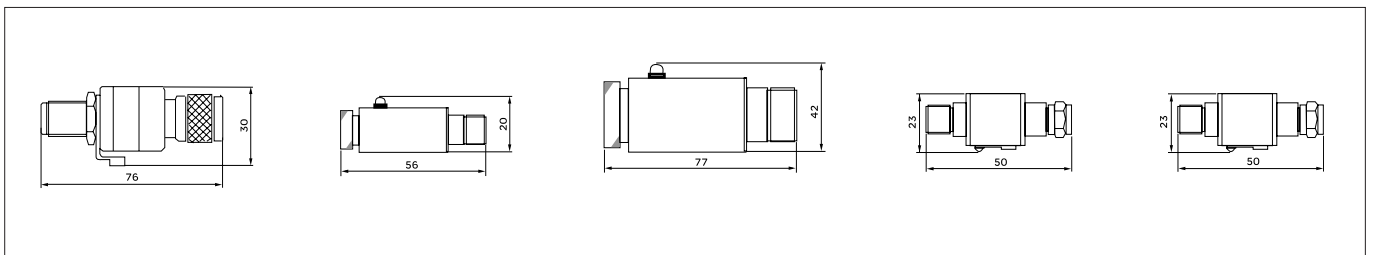
iSCB SPD backup circuit breaker



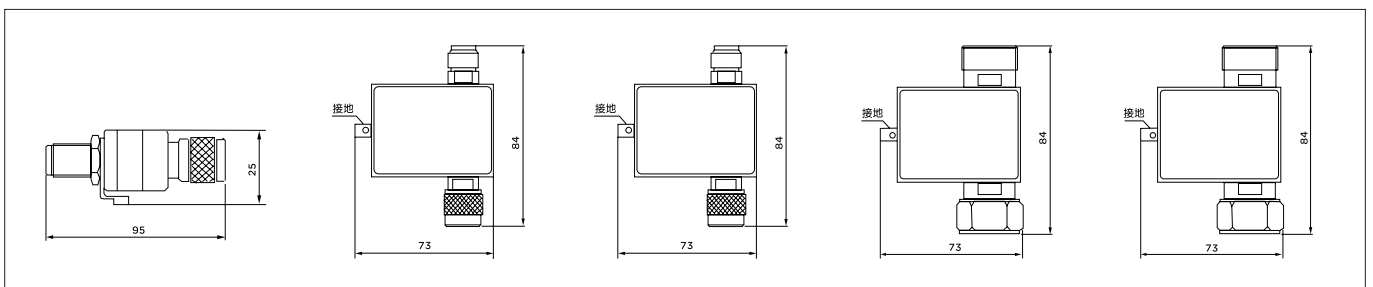
SETT series $\lambda/4$ antenna surge protective device



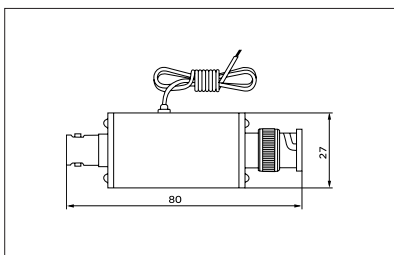
SEKT series discharge tube type antenna surge protective device



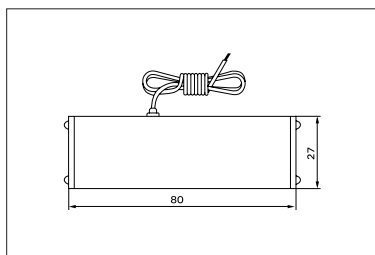
SEWT series microstrip type antenna surge protective device



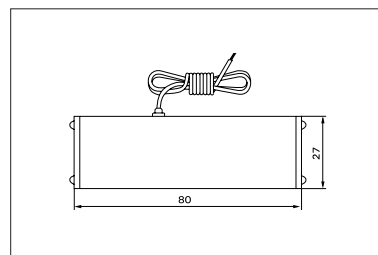
SEXM signal surge protective device



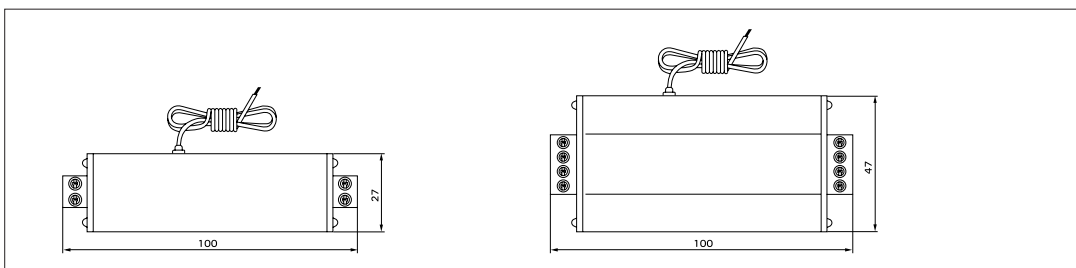
SEXL(RJ11) signal surge protective device



SEXM, SEXH signal surge protective device



SEXL (twisted-pair) signal surge protective device



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