The all-in-one system for effective surge protection

> Acti 9 SPDs

Surge protection devices for complete safety in any installation

100% exclusive to Schneider Electric

Acti 9: The efficiency you deserve

Schneider Electric

Choice of surge arresters

With Schneider Electric, lightning protection is easily integrated into the power distribution system

For all low voltage switchboards and electrical enclosures:

a comprehensive range

- To ensure the protection of equipment connected to:
  - low voltage networks
  - telecommunications networks
  - computer networks
- Easy to implement and use
- Compatibility with all earthing systems (TT, TNS, TNC, IT)
- Technical and aesthetic consistency

Continuity of service and certified safety

Schneider Electric certified coordination between the surge arrester and its disconnection circuit breaker.

Compliance with standards: IEC/EN 61643-11.

More and more electrical equipment today is sensitive to overvoltages caused by lightning.

90%

of power outlets supply equipment incorporating electronic devices.

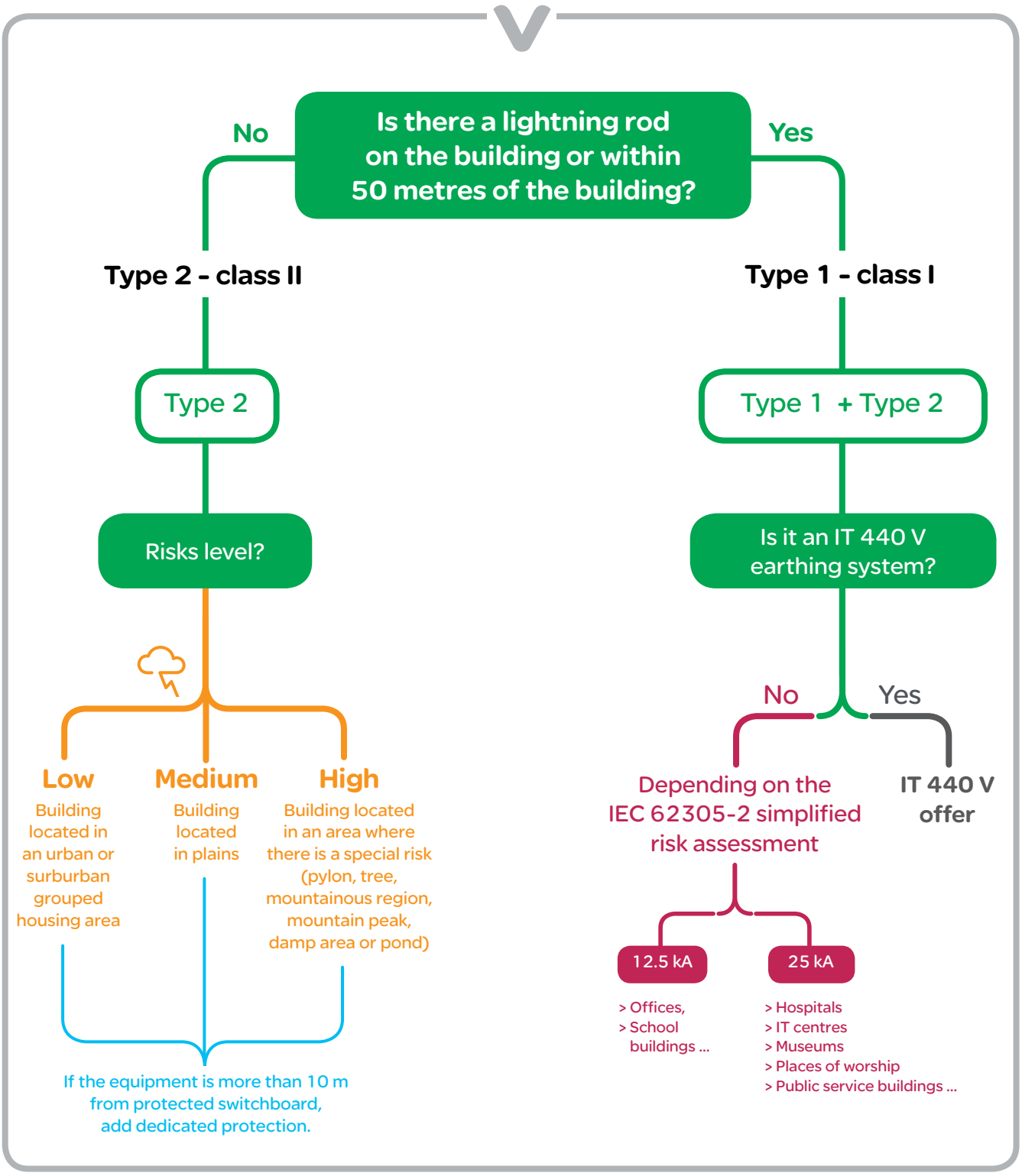
iQuick PRD built-in technology surge arresters, a Schneider Electric innovation, incorporate their own disconnection circuit breaker: easy to choose and simple to install for greater effectiveness.

Up to 30% of installation time saved.

Choice of surge arresters (cont.)

Simple and effective selection method:

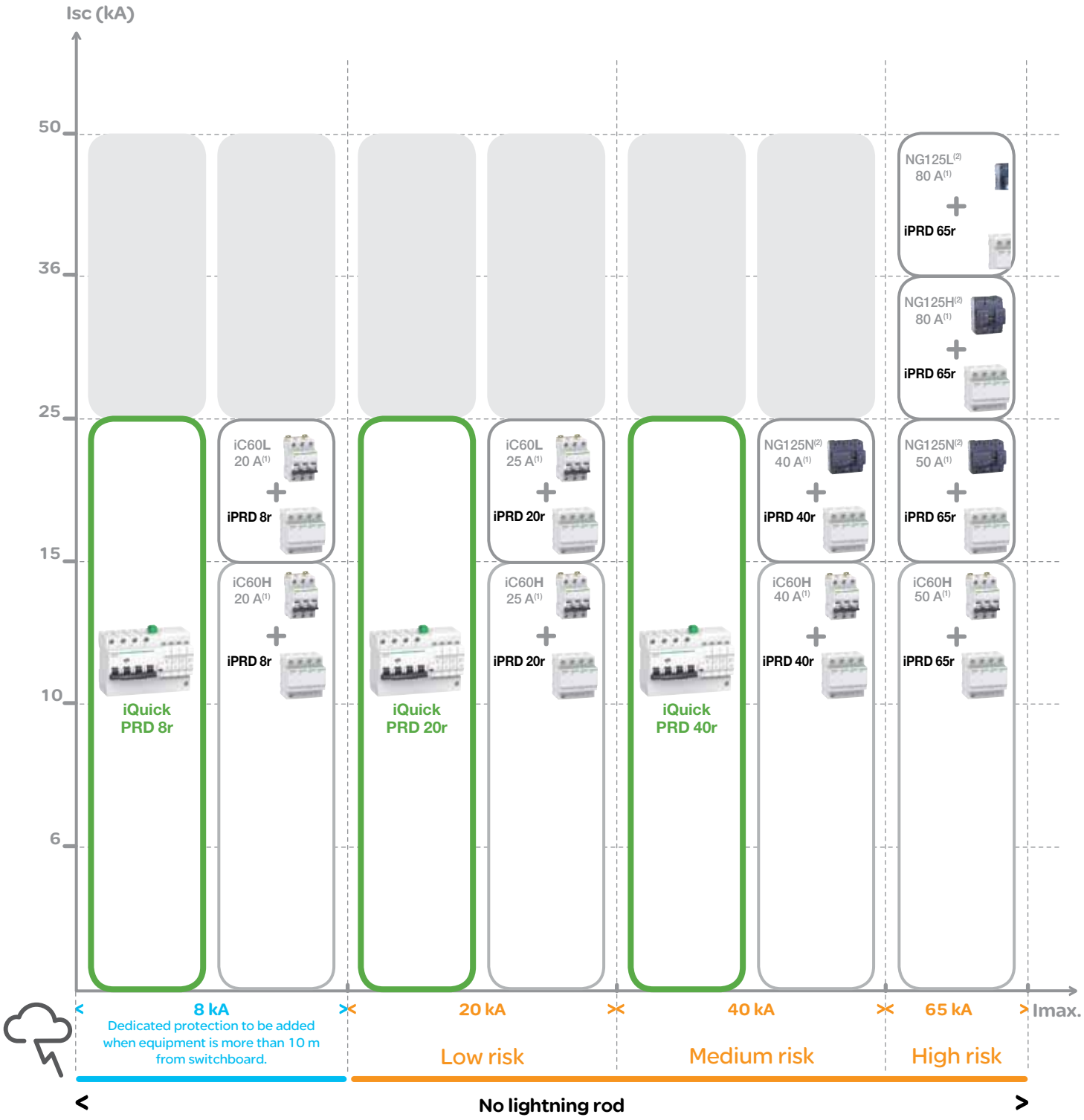
You need to install a surge arrester in a switchboard



Choice of surge arresters (cont.)

> Coordination table between SPD and i

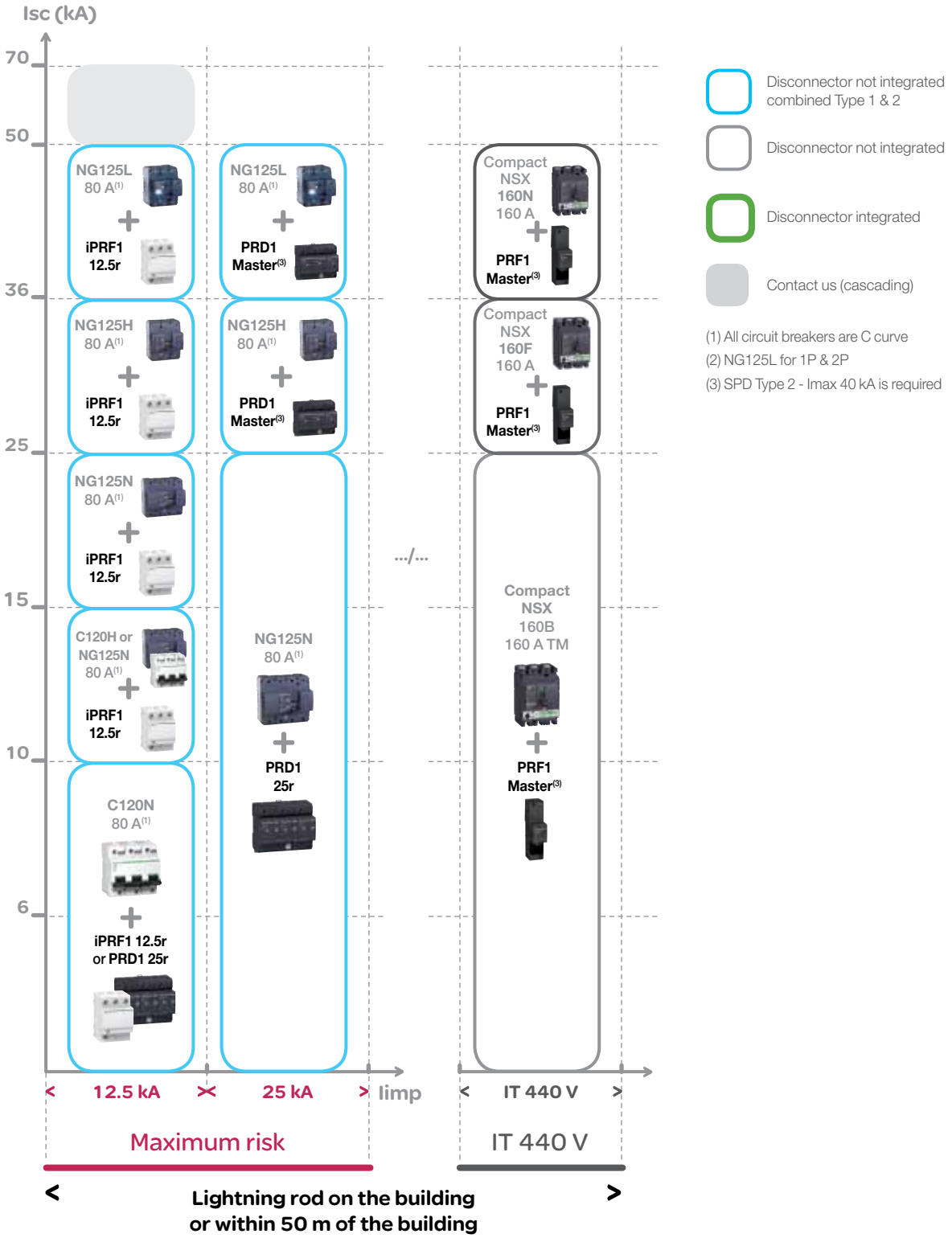
Type 2 - Class II



Choice of surge arresters (cont.)

its short-circuit disconnector

Type 1 - Class I



iPRF1 12.5r/PRF1 Master/ PRD1 25r/PRD1 Master

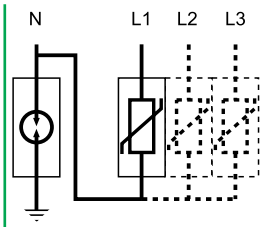
Type 1 and 2 LV surge arresters

The Type 1 range of surge arresters meets the normative withstand capability of current wave type 10/350 µs (8/20 µs for Type 2 surge arresters).
It is suitable for use with TT, TN-S, TN-C and 230 V IT earthing connection systems (neutral point connection).
In addition, the PRF1 Master surge arrester covers the 400 V IT system.
iPRF1 12.5r and PRD1 surge arresters are fitted with a remote transfer contact to send "end-of-life indication" information.
PRD1 surge arresters are fitted with easy-to-replace withdrawable cartridges.

iPRF1 12.5r/PRF1 Master/PRD1 25r/PRD1 Master

The Type 1 surge arrester is recommended for electrical installations in the service sector and industrial buildings protected by a lightning conductor or by a meshed cage.
It protects electrical installations against direct lightning strikes.
It is used to conduct the direct lightning current, propagating from the earth conductor to the network conductors.
It must be installed with an upstream disconnection device, such as a fuse or circuit-breaker, whose breaking capacity must be at least equal to the maximum prospective short-circuit current at the installation point.
iPRF1 12.5r and PRD1 25r surge arresters also provide Type 2 protection and protect the electrical installation by finely clipping the lightning wave overvoltages.

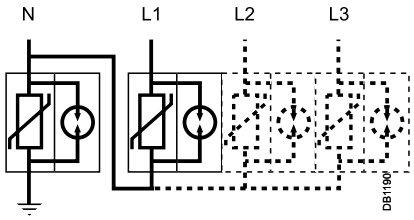
DB119038



iPRF1 12.5r (1P+N, 3P+N)

Type	Product solution	
Fixed surge arrester	**1P+N**	**3P+N**
iPRF1 12.5r T1, T2	**A9L16632**	**A9L16634**

DB119036



PRD1 25r (1P+N, 3P+N)

Cartridge surge arrester	1P+N	3P+N
PRD1 25r T1 + T2	**16330**	**16332**
PRD1 Master T1	**16361**	**16363**

PB104275-35

iPRF1 12.5r

PB104260-35

PRD1 25r

PB104264-35

PRD1 Master

iPRF1 12.5r/PRF1 Master/ PRD1 25r/PRD1 Master

Type 1 and 2 LV surge arresters (cont.)

	Neutral point connection
	TT, TN-S
	TT, TN-S
	TT, TN-S

(1) Version without indicator light.

iPRF1 12.5r/PRF1 Master/ PRD1 25r/PRD1 Master

Type 1 and 2 LV surge arresters (cont.)

Type	Nb. of poles	Width	I imp (kA) (10/350) Impulse current		I max (kA) (8/20) Maximal discharge current	In - kA Rated discharge current	Up - kV Degree of protection	Un - V Nominal line voltage	Uc - V Maximum steady state voltage	
Fixed surge arrester		**9 mm modules**	**Surge arrester**	**Surge arrester + disconnector**						
iPRF1 12.5r	**Type** 1 + 2									
	1P+N	4	12.5/50 N/PE		50	25	1.5	230	350	**A9L16632**
	3P+N	8	12.5/50 N/PE		50	25	1.5	230 / 400	350	**A9L16634**
Withdrawable surge arrester										
PRD1 25r	**Type** 1 + 2									
	1P+N	8	25/100 N/PE		40	25	1.5	230/400	350	**16330**
	3P+N	16	25/100 N/PE		40	25	1.5	230/400	350	**16332**
PRD1 Master	**Type** 1									
	1P+N	8	25/100 N/PE		-	25	1.5	230/400	350	**16361**
	3P+N	16	25/100 N/PE		-	25	1.5	230/400	350	**16363**
Spare cartridge										
C1 Master-350	-	4	-	-	-	25	1.5	-	350	**16314**
C1 25-350	-	23 mm	-	-	-	25	1.5	-	350	**16315**
C2 40-350	-	12 mm	-	-	-	20	1.4	-	350	**16316**
C1 Neutral-350	-	4	-	-	-	-	-	-	350	**16317**

Surge arresters	Spare cartridge		
	Phase		**Neutral**
	Type 1	Type 2	
PRD1 25r			
PRD1 25r 1P+N	**16315**	**16316**	**16317**
PRD1 25r 3P	3 x **16315**	3 x **16316**	**-**
PRD1 Master			
PRD1 Master 1P+N	**16314**	**-**	**16317**
PRD1 Master 3P+N	3 x **16314**	**-**	**16317**

DB123370

Accessories		
Type	**Number of poles**	
4P Wiring comb busbars	4	**16643**
6P Wiring comb busbars	6	**16644**
8P Wiring comb busbars	8	**16645**
200 mm flexible cable (PRF1 Master)		**16646**

iPRF1 12.5r/PRF1 Master/ PRD1 25r/PRD1 Master

Type 1 and 2 LV surge arresters (cont.)

Technical data

		iPRF1 12.5r	PRF1 Master	PRD1 25r	PRD1 Master
Operating frequency		50 Hz	50/60 Hz	50 Hz	50 Hz
Degree of protection	Front panel	IP40	IP40	IP40	IP40
	Terminals	IP20	IP20	IP20	IP20
	Impacts	IK05	IK05	IK05	IK05
Response time		≤ 25 ns	≤ 1 µs	≤ 25 ns	≤ 100 ns
End-of-life indication		Green: correct operation	-	White: correct operation	White: correct operation
		Red: at end of life	-	Red: at end of life	Red: at end of life
	Remote notification	1.5 A/250 V AC	-	1 A/250 V AC. 0.2 A/125 V DC	1 A/250 V AC. 0.2 A/125 V DC
By tunnel terminal	Rigid cable	10...35 mm²	10...50 mm²	2.5...35 mm²	10...35 mm²
	Flexible cable	10...25 mm²	10...35 mm²	2.5...25 mm²	10...25 mm²
Operating temperature		-25°C to +60°C	-40°C to +85°C	-25°C to +60°C	-25°C to +60°C
Standards	Type 1	IEC 61643-1 T1. EN 61643-11 Type 1	IEC 61643-1 T1. EN 61643-11 Type 1	IEC 61643-1 T1. EN 61643-11 Type 1	IEC 61643-1 T1. EN 61643-11 Type 1
	Type 2	IEC 61643-1 T2. EN 61643-11 Type 2	-	IEC 61643-1 T2. EN 61643-11 Type 2	-
Certification		CE	KEMAKEUR, CE	KEMAKEUR, CE	CE

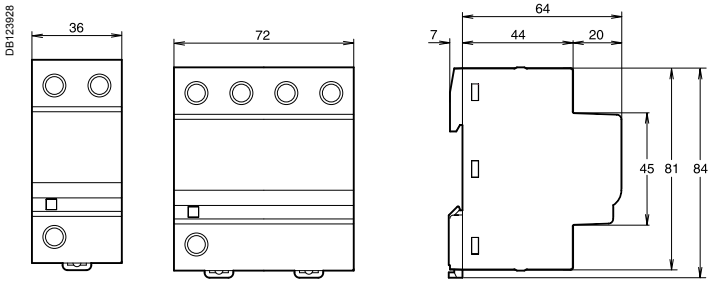
Choice of disconnector / surge arrester

Type	Iimp :impulse current	Isc: prospective short-circuit current at the installation point				
		10 kA	15 kA	25 kA	36 kA	50 kA
iPRF1 12.5r	12.5 kA	C120N 80 A curve C	C120H 80 A curve C or NG125N 80 A curve C	NG125N 80 A curve C	NG125H 80 A curve C	NG125L 80 A curve C
PRF1 Master	35 kA	Compact NSX160B 160 A TM			Compact NSX160F 160 A	Compact NSX160N 160 A
PRD1 25r	25 kA	NG125N 80 A curve C			-	
PRD1 Master	25 kA	NG125N 80 A curve C			NG125H 80 A curve C	NG125L 80 A curve C

iPRF1 12.5r/PRF1 Master/ PRD1 25r/PRD1 Master

Type 1 and 2 LV surge arresters (cont.)

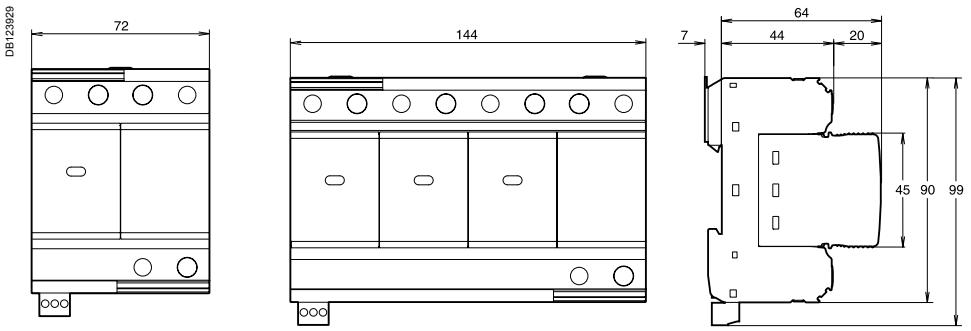
Dimensions (mm)



1P + N

3P + N

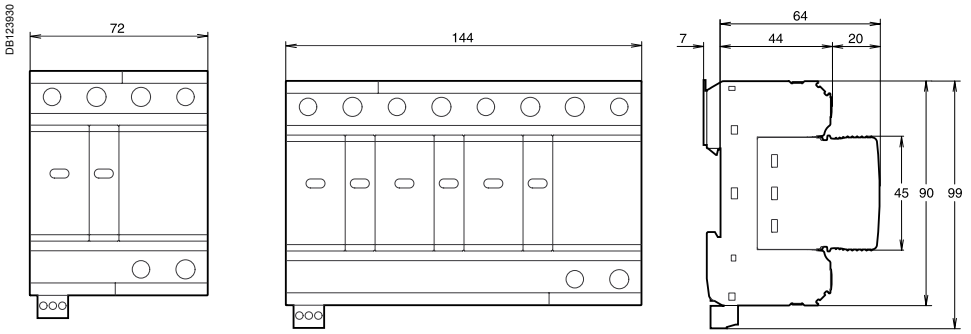
iPRF1 12.5r



1P + N

3P + N

PRD1 Master



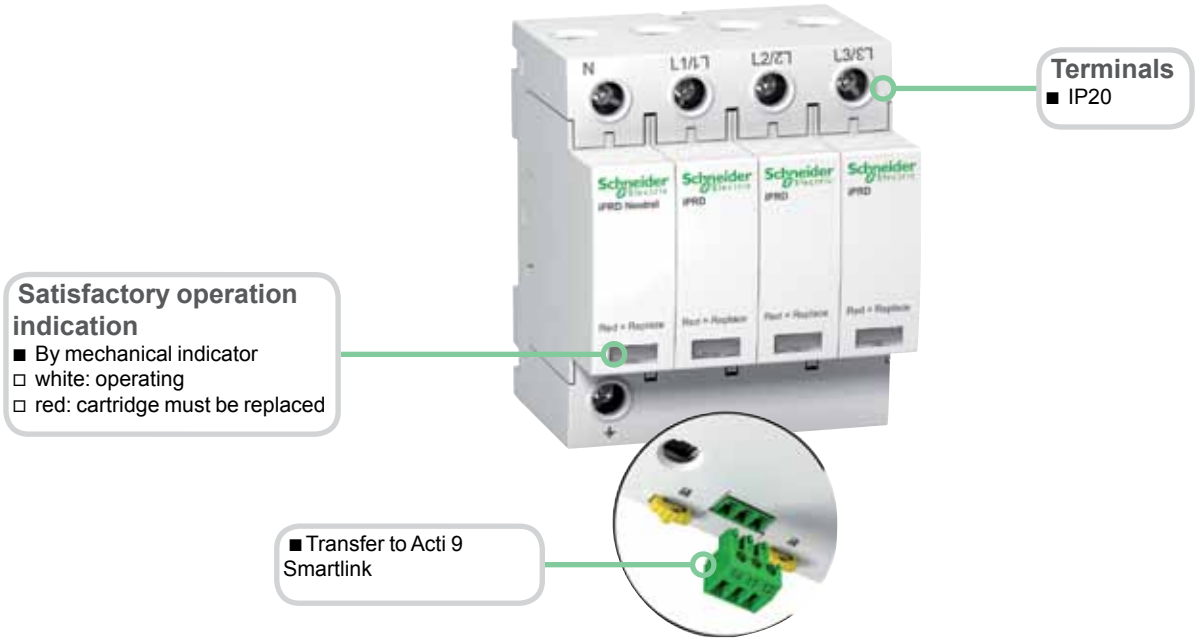
1P + N

3P + N

PRD1 25r

iPRD, iPRD IT surge arresters

PB110281-60



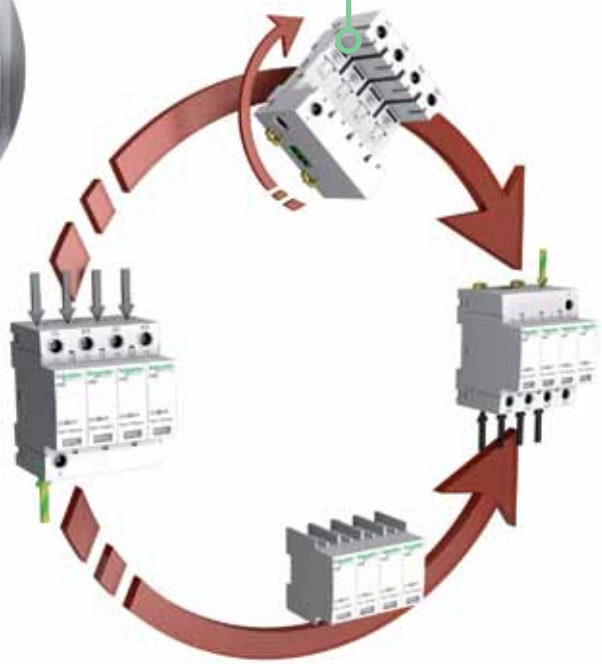
Connection iPRD surge arrester with its short circuit disconnector

PB110289-50

PB110287-80

Surge arrester iPRD 3P+N + iC60N 3P+N for TT or TN-S (Incoming through the top without comb busbar)

Reversible
■ The surge arrester base can be turned over to allow the phase/neutral/earth cables to enter through either the top or the bottom



PB110793-50

Surge arrester iPRD 3P+N + iC60N 3P+N for TT or TN-S (Incoming through the bottom with comb busbar)

iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters

iPRD withdrawable surge arresters allow quick replacement of damaged cartridges.

PB105274-35

1P+N

PB105276-35

3P+N

Rated discharge current (Imax) / Nominal discharge current (In)	Type of protection		Network		Earthing system	Transfer	Surge arrester name	Width in mod. of 9 mm
			N L1 L2 L3 DB122942					
	Incoming	Secondary	1P+N	3P+N			iPRD65	
65 kA / 20 kA								
Very high risk level (strongly exposed site)	iPRD65		**A9L16557**		TT & TN-S	■	iPRD65r 1P+N	4
				A9L16559	TT & TN-S	■	iPRD65r 3P+N	8
40 kA / 15 kA							**iPRD40**	
High risk level	iPRD40		**A9L16562**		TT & TN-S	■	iPRD40r 1P+N	4
			A9L16567		TT & TN-S		iPRD40 1P+N	
				A9L16564	TT & TN-S	■	iPRD40r 3P+N	8
				A9L16569	TT & TN-S		iPRD40 3P+N	
20 kA / 5 kA							**iPRD20**	
Medium risk level	iPRD20		**A9L16672**		TT & TN-S	■	iPRD20r 1P+N	4
			A9L16572		TT & TN-S		iPRD20 1P+N	
				A9L16674	TT & TN-S	■	iPRD20r 3P+N	8
				A9L16574	TT & TN-S		iPRD20 3P+N	
8 kA / 2.5 kA							**iPRD8 (1)**	
Secondary protection: placed near the loads to be protected when they are at a distance of more than 30 m from the incoming surge arrester		iPRD8	**A9L16677**		TT & TN-S	■	iPRD8r 1P+N	4
			A9L16577		TT & TN-S		iPRD8 1P+N	
				A9L16679	TT & TN-S	■	iPRD8r 3P+N	8
				A9L16579	TT & TN-S		iPRD8 3P+N	

** **CM**: common mode (phase to earth and neutral to earth).*

PB105272-35

Cartridge

Spare cartridges

Type	Spare cartridges for	Cat. no
C 65-340	iPRD65r	**A9L16681**
C 40-340	iPRD40, iPRD40r	**A9L16685**
C 20-340	iPRD20, iPRD20r	**A9L16687**
C 8-340	iPRD8, iPRD8r	**A9L16689**
C neutral	All products	**A9L16691**

Surge arrester/circuit breaker association

Type of surge arrester	Associated circuit breaker
iPRD65	Curve C 50 A
iPRD40	Curve C 40 A
iPRD20	Curve C 25 A
iPRD8	Curve C 20 A

iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters (cont.)

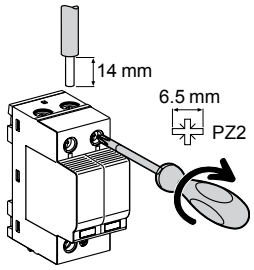
	Up - (kV) Voltage protection level			Un - (V) Rated voltage network	Uc - (V) Maximum continuous operating voltage		
	CM*		DM*		CM*		DM*
	L/⏚	N/⏚	L/N		L/⏚	N/⏚	L/N
	-	≤ 1.5	≤ 1.5	230	-	260	340
	-	≤ 1.5	≤ 1.5	230/400	-	260	340
	-	≤ 1.4	≤ 1.4	230	-	260	340
	-	≤ 1.4	≤ 1.4	230	-	260	340
	-	≤ 1.4	≤ 1.4	230/400	-	260	340
	-	≤ 1.4	≤ 1.4	230/400	-	260	340
	-	≤ 1.4	≤ 1.1	230	-	260	340
	-	≤ 1.4	≤ 1.1	230	-	260	340
	-	≤ 1.4	≤ 1.1	230/400	-	260	340
	-	≤ 1.4	≤ 1.1	230/400	-	260	340
	Type 2 / Type 3						
	-	≤ 1.4 / ≤ 1	≤ 1 / ≤ 1.1	230	-	260	340
	-	≤ 1.4 / ≤ 1	≤ 1 / ≤ 1.1	230	-	260	340
	-	≤ 1.4 / ≤ 1	≤ 1 / ≤ 1.1	230/400	-	260	340
	-	≤ 1.4 / ≤ 1	≤ 1 / ≤ 1.1	230/400	-	260	340

* ***DM****: differential mode (phase to neutral).* ***(1) Uoc****: combinated waveform voltage: 10 kV.*

iPRD surge arresters
Type 2 or 3 LV withdrawable surge arresters (cont.)

Connection

DB123130



Type	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
	DB122945	DB122946	
iPRD	2 N.m	2.5 to 25 mm²	2.5 to 16 mm²

Technical data

Main characteristics		
Operating frequency		50/60 Hz
Operating voltage (Ue)		230/400 V AC
Permanent operating current (Ic)		< 1 mA
Response time		< 25 ns
End of life indication: by mechanical indicator	White	In operation
	Red	At end of life
End of life remote indication		By contact NO, NC 250 V / 0.25 A
Additional characteristics		
Operating temperature		-25°C to +60°C
Type of connection terminals		Tunnel terminals, 2.5 to 35 mm²
Standards		IEC 61643-1 T2 and EN 61643-11 Type 2

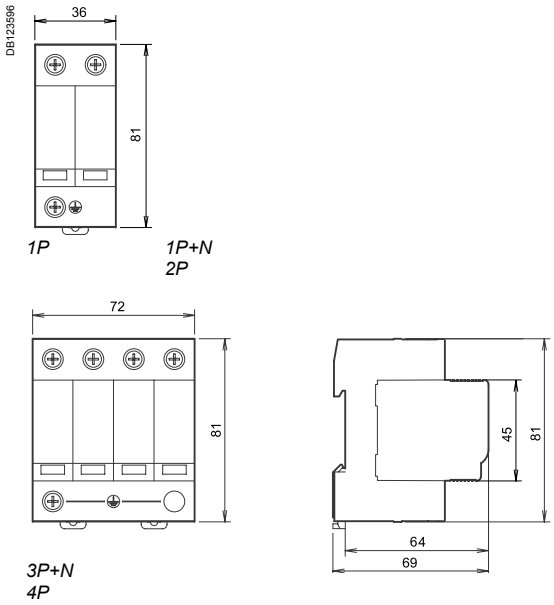
iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters (cont.)

Weight (g)

Surge arrester	
Type	**iPRD**
1P	115
2P	220
3P	340
4P	450

Dimensions (mm)



Withdrawable surge arrester iQuick PRD Type 2 or Type 3

Withdrawable surge arrester iQuick PRD allow damaged cartridges to be replaced quickly.
They offer remote reporting of the "cartridge must be changed" message.

PB106430-29

PB106428-29

DB123837

Replacement cartridges.

IEC 61643- 1 T2, EN 61643-11 Type 2

They protect electrical and electronic equipment against lightning-induced surges. Withdrawable surge arrester iQuick PRD surge arresters are prewired, incorporating their end-of-life disconnector.
Each surge arrester in the range has a specific use:

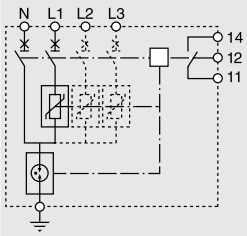
■ **incoming protection (type 2):**

□ iQuick PRD40r is recommended for a high risk level

□ iQuick PRD20r is recommended for a moderate risk level

■ **secondary protection (type 2 or 3):**

□ iQuick PRD8r provides secondary protection for the loads to be protected and is cascade-mounted with the incoming surge arresters. This surge arrester is required as close as possible to the loads to be protected when they are located more than 30 metres away from the incoming surge arrester.

Maximum discharge current (Imax) / Nominal discharge current (In)	Type of protection		Network		
			DB114409  DB114410		
	Incoming protection	Secondary protection	1P+N	3P+N	
40 kA / 20 kA					
High risk level	iQuick PRD40r		**A9L16292**		
				A9L16294	
20 kA / 5 kA					
Moderate risk level	iQuick PRD20r		**A9L16295**		
				A9L16297	
8 kA / 2 kA					
Secondary protection: placed near the loads to be protected when they are at a distance of more than 30 m from the incoming surge arrester		iQuick PRD8r	**A9L16298**		
				A9L16300	

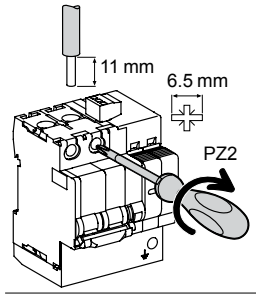
Replacement cartridges

Type	Replacement cartridges for	Cat. no.
C 40-350	iQuick PRD40r	**A9L16310**
C 20-350	iQuick PRD20r	**A9L16311**
C 8-350	iQuick PRD8r	**A9L16312**
C neutral-350	All products	**A9L16313**

Withdrawable surge arrester iQuick PRD Type 2 or Type 3 (cont.)

Connection

DB123888



Type		Tightening torque	Copper cables	
			Rigid	Flexible or ferrule
		DB122945	DB122946	
iQuick PRD	Ph / N 8r/20r	2.5 N.m	2.5 to 25 mm²	2.5 to 25 mm²
	Ph / N 40r		2.5 to 35 mm²	2.5 to 35 mm²
	⏚		25 mm² max.	25 mm² max.

	Earthing system	Transfert	Name of surge arrester	Width in 9 mm modules	Up – (kV) Voltage protection level			Un – (V) Nominal mains voltage	Uc – (V) Maximum continious operating voltage		
					CM*		DM*		CM*		DM*
					L/⏚	N/⏚	L/N		L/⏚	N/⏚	L/N
			iQuick PRD40r								
	TT & TN-S	■	1P+N	8	1.5	1.5	2.5	230	-	264	350
	TT & TN-S	■	3P+N	15	1.5	1.5	2.5	230/400	-	264	350
			iQuick PRD20r								
	TT & TN-S	■	1P+N	8	1.5	1.5	1.5	230	-	264	350
	TT & TN-S	■	3P+N	15	1.5	1.5	1.5	230/400		264	350
									-		
			iQuick PRD8r (2)		Type 2 / Type 3						
	TT & TN-S	■	1P+N	8	1.5/1.4	1.5/1.5	1.2/1.4	230	-	264	350
	TT & TN-S	■	3P+N	15	1.5/1.4	1.5/1.5	1.2/1.4	230/400		264	350
									-		

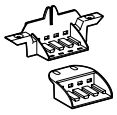
** **CM** common mode (between phase/earth and neutral/earth). * **DM**: differential mode (between phase and neutral).*
(1) Up (MCB + SPD): total value measured between Modular Circuit Breaker (MCB) terminal block and PE surge arrester device terminal block (SPD).
(2) Uoc: open-circuit voltage in combined wave: 10 kV.

DB123842

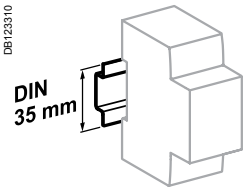
Pragma: the earth terminal block needs 1 support kit and 1 terminal block kit.

Accessories

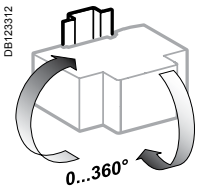
Earth terminal block support

Type			Cat. no.
Support kit	L = 4 blocks	Batch of 1	**PRA90053**
DB107889 			
25 mm² terminal block kit	L = 1 block	Batch of 5	**PRA90046**
DB107884 			

Withdrawable surge arrester iQuick PRD Type 2 or Type 3 (cont.)



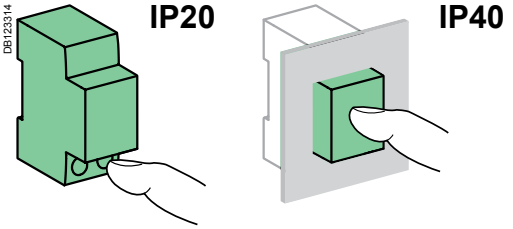
Clip on DIN rail 35 mm.



Indifferent position of installation.

Technical data

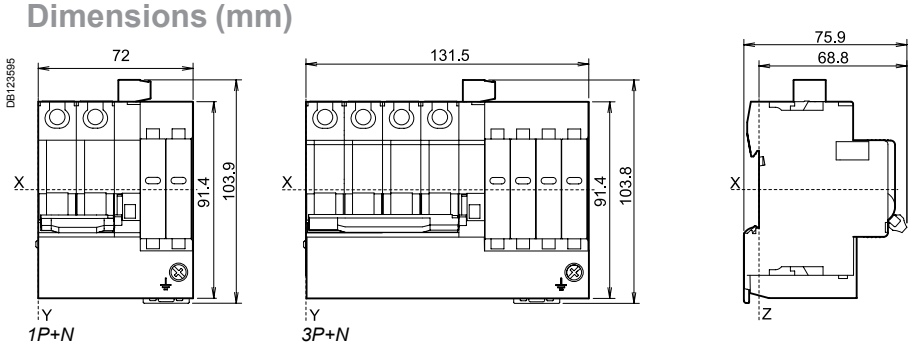
Main characteristics			
Operating frequency	50/60 Hz		
Operating voltage (Ue)	230/400 V AC		
Disconnector short-circuit withstand (Isc)	25 kA (50 Hz)		
Permanent operating current (Ic)	<1 mA		
Response time	<25 ns		
Status indication	By the cartridges	White	Operational
		Red	At end of life
	By white mechanical indicator/ handle ON		Operational
	By red mechanical indicator/ handle OFF		At end of life
Remote indication end of life	By the NO/NC remote indication contact 250 V AC / 2 A		
Additional characteristics			
Degree of protection	Device only		IP20, IK05
	Device in modular enclosure		IP40
Operating temperature	-25°C to +70°C		
Storage temperature	-40°C to +80°C		
Certifications	NF, KEMA KEUR (iQuick PRD 8r, 20r)		



Weight (g)

Surge arresters		
Type	**iQuick PRD8r/20r**	**iQuick PRD40r**
1P+N	435	445
3P+N	810	850

Dimensions (mm)



iPRD-DC surge arresters

Withdrawable surge arresters type 2 for photovoltaic applications

CE

Country approval pictograms

IEC 61643-1 T2
EN 61643-11 Type 2
UTE C 61740-51 T2
prEN 50539-11 T2

PB107585-40

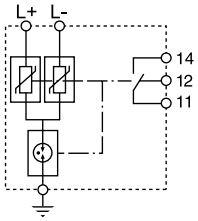
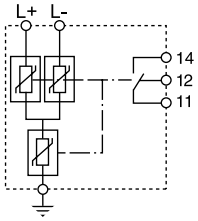
iPRD-DC40r 600PV

iPRD-DC direct current surge arresters are designed to protect against overvoltages due to a lightning strike: of the "DC" input to the inverter and of photovoltaic panels.

It should be installed in a switchboard inside the building. If the switchboard is located outside, it must be weatherproof.

Withdrawable iPRD-DC surge arresters allow damaged cartridges to be replaced quickly.
They offer remote reporting of the "cartridge must be changed" message.

Catalogue numbers

Internal diagram	Imax (kA) Maximum discharge current	In (kA) Nominal discharge current	Up (kV) Protection level			U_{CPV} (V) (1) Maximum steady state voltage			Width in module of 9 mm	Cat. no.
			L+/⏚	L-/⏚	L+/L-	L+/⏚	L-/⏚	L+/L-		
iPRD-DC40r 600PV										
DB124051 	40	15	1.6	1.6	2.8	600	600	840	6	**A9L16434**
iPRD-DC40r 1000PV										
DB124052 	40	15	3.9	3.9	3.9	1000	1000	1000	6	**A9L16436**

(1) Ucpv ≥ 1.2 x Uoc stc (Uoc stc: maximum no-load voltage of the photovoltaic generator "photovoltaic module manufacturer's data")

PB107586-30

PB107587-30

Replacement cartridges

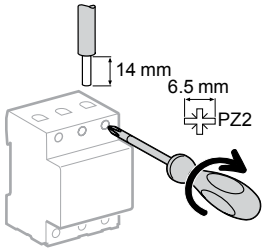
Replacement cartridges		
Type	**Replacement cartridges for**	**Cat. no.**
C 40-600PV	iPRD-DC40r 600PV	**A9L16683**
C 40-1000PV	iPRD-DC40r 1000PV	**A9L16692**
C neutral PV	iPRD-DC40r 600PV	**A9L16690**

iPRD-DC surge arresters

Withdrawable surge arresters type 2 for photovoltaic applications (cont.)

Connection

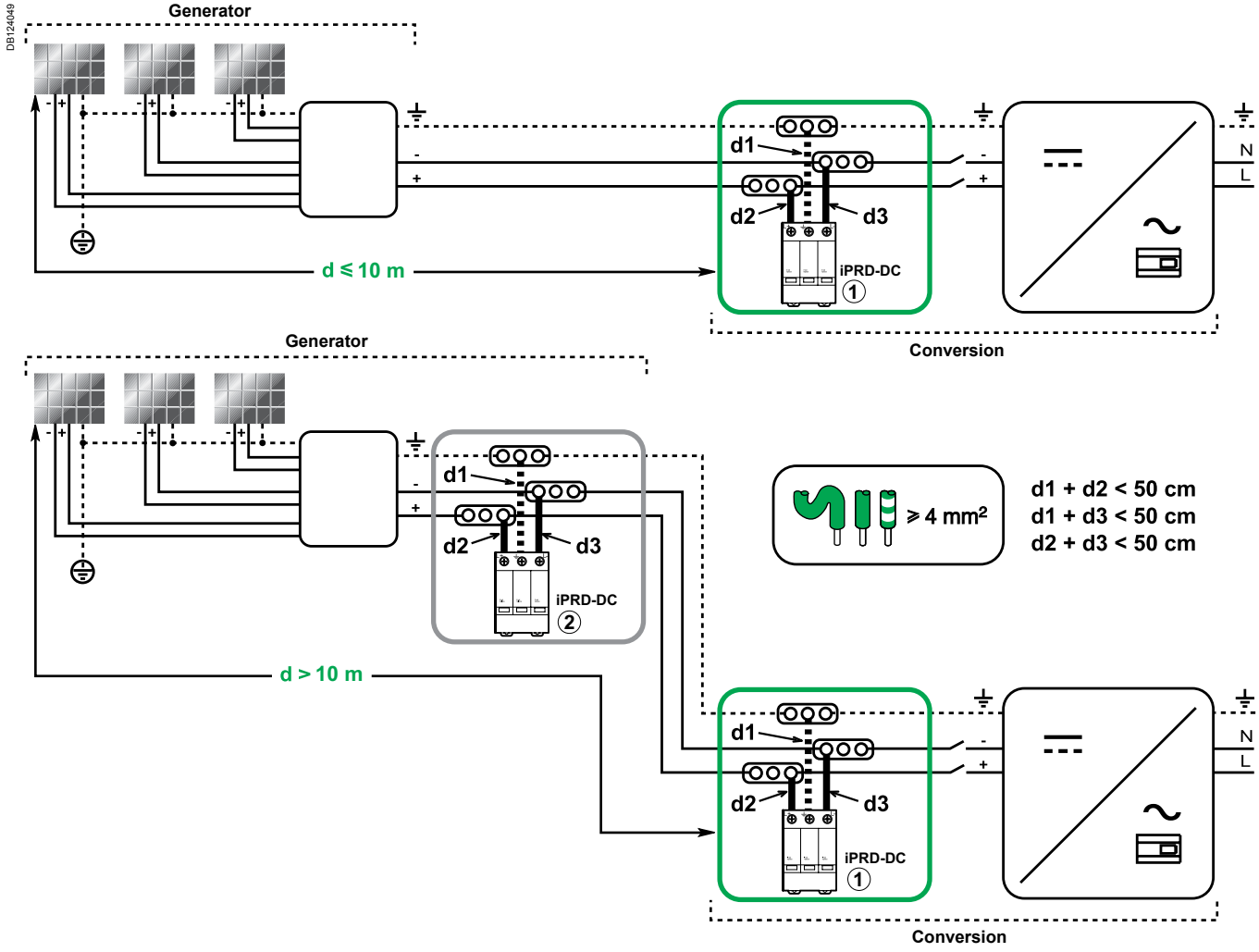
DB124057



Type	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
	DB122945		DB122946 
iPRD-DC	2 N.m	2.5 to 25 mm²	2.5 to 16 mm²

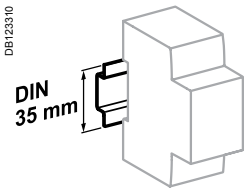
Depending on the distance between the "generator" part and the "conversion" part, it may be necessary to install two surge arresters or more, to ensure protection of each of the two parts.

DB124049

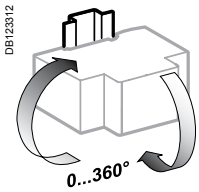


iPRD-DC surge arresters

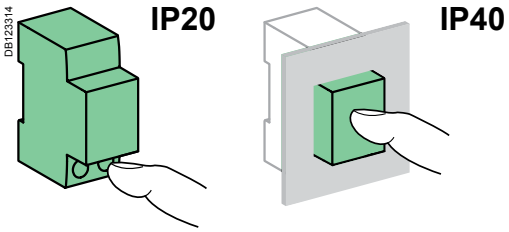
Withdrawable surge arresters type 2 for photovoltaic applications (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.



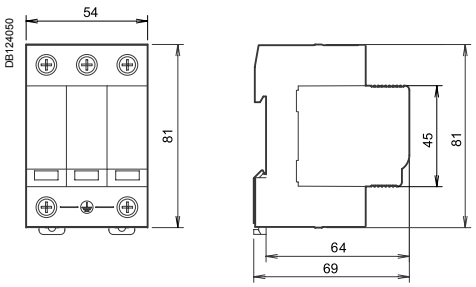
Technical data

Main characteristics			
Type of network		Isolated direct current	
Temps de réponse		< 25 ns	
Short circuit current (I_{SCPV})		30 A	
Type of surge arresters		Type 2	
Type of self-protection		Circuit opened by integrated thermal disconnector	
Additional characteristics			
Degree of protection (IEC 60529)	Device only	IP20	
	Device in modular enclosure	IP40	
	Chocs	IK03	
End-of-life indication	By the cartridges	White	Operational
		Red	At end of life
	By the NO/NC remote indication contact 250 V AC / 0.25 A		
Operating temperature		-25°C to +60°C	
Storage temperature		-40°C to +85°C	
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity of 95 % at 55°C)	

Weight (g)

Surge arresters	
Type	
iPRD-DC40r 600PV	400
iPRD-DC40r 1000PV	400

Dimensions (mm)



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