



# Protection Earth leakage protection iDPN Vigi Contents

Schneider Electric's range of residual current devices consists of different products (A, B, C) to enable it to be the most competitive range possible in each country, allowing for the special characteristics of each market:

- usual installation procedure
- price
- accreditations by local bodies.

## Variants

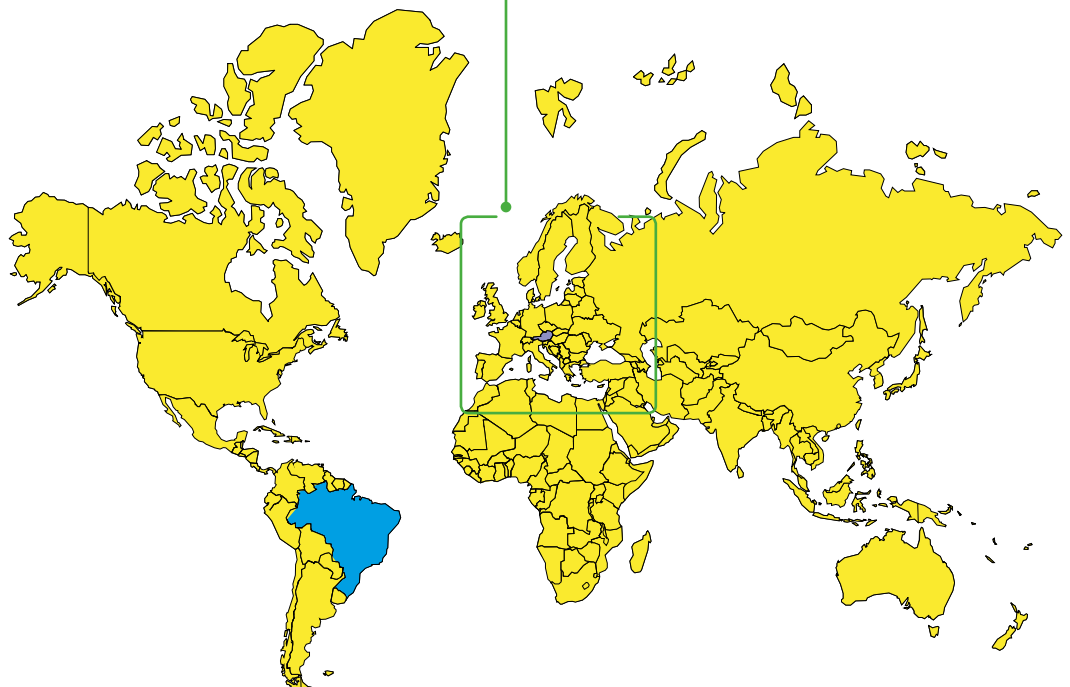
Offers		Pages
<b>Offer A</b>	Catalogue numbers	3
<b>Offer B</b>	Catalogue numbers	5
Austria		
<b>Offer C</b>	Catalogue numbers	6
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DE406602



Only the product range to be marketed in your country and validated by the local product manager, in agreement with his Final Distribution (FD) partner should be retained. The others will be removed before publication.

DE406601



# Protection Earth leakage protection Residual current devices iDPN Vigi



IEC/EN 61009-1



iDPNa Vigi



iDPN H Vigi



iDPN N Vigi

- The iDPN Vigi residual current device provide complete protection for final circuits (against overcurrents and insulation faults):
  - protection for users against electric shocks by direct contacts ( $\leq 30$  mA),
  - protection for users against electric shocks by indirect contacts (300 mA),
  - protection of the installations against fire risks (300 mA).
- The A-SI range has been designed to maintain a network with optimum safety and continuity of service in installations disturbed by:
  - extreme atmospheric conditions,
  - harmonic generating loads,
  - transient operating currents.

Offer selection see page 1

Offer A

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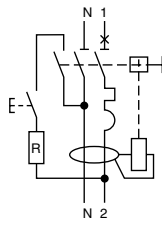
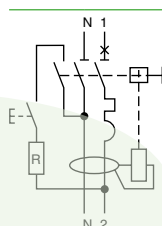
## Catalogue numbers

### iDPNa Vigi 4500

Type	AC	A	Width in 9 mm modules
<b>Auxiliaries</b>		<b>Module CA907000 and CA907013</b>	
<b>1P+N Curve B</b>	<b>Sensitivity</b>	<b>30 mA</b>	<b>300 mA</b>
	Rating (In)	6 A	10 A
		13 A	16 A
		20 A	25 A
		32 A	40 A
		A9D51606	A9D51610
		A9D51616	A9D51620
		A9D51625	A9D51632
		A9D51640	A9D51640
<b>1P+N Curve C</b>	<b>Sensitivity</b>	<b>30 mA</b>	<b>300 mA</b>
	Rating (In)	6 A	10 A
		13 A	16 A
		20 A	25 A
		32 A	40 A
		A9D34606	A9D34610
		A9D34616	A9D34620
		A9D34625	A9D34632
		A9D34640	A9D34640
Voltage rating (Ue)	230...240 V AC		
Operating frequency	50 Hz		
<b>Accessories</b>	<b>Module CA907000 and CA907001, comb busbars CA907013</b>		

# Residual current devices iDPN Vigì (cont.)




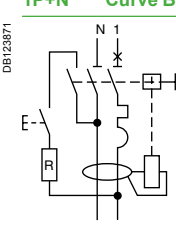
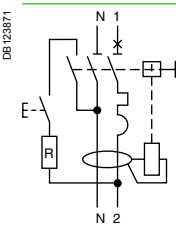
## Catalogue numbers

iDPN N Vigì 6000				
Type	A 		Width in 9 mm modules	
Auxiliaries	Module CA907000 and CA907013			
1P+N Curve B	Sensitivity 30 mA		4	
	Rating (In)	10 A		A9D06610
		16 A		A9D06616
		20 A		A9D06620
1P+N Curve C	Sensitivity 30 mA		4	
	Rating (In)	10 A		A9D01610
		16 A		A9D01616
		20 A		A9D01620
Voltage rating (Ue)		110 V AC		
Operating frequency		50 Hz		
Accessories		Module CA907000 and CA907001, comb busbars CA907013		

Offer selection see page 1



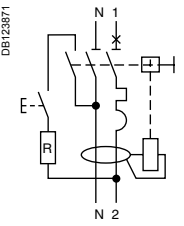
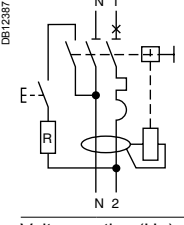
**Offer A**

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iDPN N Vigì 6000												
Type	AC 			A 				A-SI 			Width in 9 mm modules	
Auxiliaries	Module CA907000 and CA907013											
1P+N Curve B	Sensitivity		30 mA	300 mA	10 mA	30 mA	100 mA	300 mA	30 mA	100 mA	300 mA	4
	Rating (In)	4 A	A9D55604	A9D68604	-	A9D56604	A9D60604	A9D69604	-	-	-	
		6 A	A9D55606	A9D68606	-	A9D56606	A9D60606	A9D69606	-	-	-	
		10 A	A9D55610	A9D68610	A9D08610	A9D56610	A9D60610	A9D69610	-	-	-	
		13 A	-	-	-	A9D56613	A9D60613	A9D69613	-	-	-	
		16 A	A9D55616	A9D68616	A9D08616	A9D56616	A9D60616	A9D69616	-	-	-	
		20 A	A9D55620	A9D68620	-	A9D56620	A9D60620	A9D69620	-	-	-	
		25 A	A9D55625	A9D68625	-	A9D56625	A9D60625	A9D69625	-	-	-	
		32 A	A9D55632	A9D68632	-	A9D56632	A9D60632	A9D69632	-	-	-	
		40 A	A9D55640	A9D68640	-	A9D56640	A9D60640	A9D69640	-	-	-	
1P+N Curve C	Sensitivity		30 mA	300 mA	10 mA	30 mA	100 mA	300 mA	30 mA	100 mA	300 mA	4
	Rating (In)	6 A	A9D31606	A9D41606	-	A9D32606	A9D52606	A9D42606	A9D33606	A9D53606	A9D43606	
		10 A	A9D31610	A9D41610	A9D02610	A9D32610	A9D52610	A9D42610	A9D33610	A9D53610	A9D43610	
		13 A	-	-	-	A9D32613	A9D52613	A9D42613	A9D33613	A9D53613	A9D43613	
		16 A	A9D31616	A9D41616	A9D02616	A9D32616	A9D52616	A9D42616	A9D33616	A9D53616	A9D43616	
		20 A	A9D31620	A9D41620	-	A9D32620	A9D52620	A9D42620	A9D33620	A9D53620	A9D43620	
		25 A	A9D31625	A9D41625	-	A9D32625	A9D52625	A9D42625	A9D33625	A9D53625	A9D43625	
		32 A	A9D31632	A9D41632	-	A9D32632	A9D52632	A9D42632	A9D33632	A9D53632	A9D43632	
		40 A	A9D31640	A9D41640	-	A9D32640	A9D52640	A9D42640	A9D33640	A9D53640	A9D43640	
		Voltage rating (Ue)		230...240 V AC								
Operating frequency		50 Hz										
Accessories		Module CA907000 and CA907001, comb busbars CA907013										

# Residual current devices iDPN Vigi (cont.)

## Catalogue numbers

iDPN H Vigi 10000							
Type		A 		A-SI 		Width in 9 mm modules	
Auxiliaries		Module CA907000 and CA907013					
<b>1P+N</b>	<b>Curve B</b>	<b>Sensitivity</b>	<b>30 mA</b>	<b>300 mA</b>	<b>30 mA</b>	<b>300 mA</b>	
	Rating (In)	6 A	<b>A9D07606</b>	-	-	-	4
		10 A	<b>A9D07610</b>	-	-	-	
		16 A	<b>A9D07616</b>	-	-	-	
		20 A	<b>A9D07620</b>	-	-	-	
		25 A	<b>A9D07625</b>	-	-	-	
		32 A	<b>A9D07632</b>	-	-	-	
<b>1P+N</b>	<b>Curve C</b>	<b>Sensitivity</b>	<b>30 mA</b>	<b>300 mA</b>	<b>30 mA</b>	<b>300 mA</b>	
	Rating (In)	6 A	<b>A9D37606</b>	<b>A9D47606</b>	<b>A9D38606</b>	<b>A9D48606</b>	4
		10 A	<b>A9D37610</b>	<b>A9D47610</b>	<b>A9D38610</b>	<b>A9D48610</b>	
		16 A	<b>A9D37616</b>	<b>A9D47616</b>	<b>A9D38616</b>	<b>A9D48616</b>	
		20 A	<b>A9D37620</b>	<b>A9D47620</b>	<b>A9D38620</b>	<b>A9D48620</b>	
		25 A	<b>A9D37625</b>	<b>A9D47625</b>	<b>A9D38625</b>	<b>A9D48625</b>	
		32 A	<b>A9D37632</b>	<b>A9D47632</b>	<b>A9D38632</b>	<b>A9D48632</b>	
Voltage rating (Ue)		230...240 V AC					
Operating frequency		50 Hz					
<b>Accessories</b>		<b>Module CA907000 and CA907001, comb busbars CA907013</b>					

Offer selection see page 1

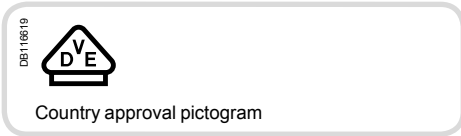
**Offer A**

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# Protection

## Earth leakage protection

### Residual current devices iDPN Vigi (cont.)



iDPN N Vigi

#### IEC/EN 61009-1

- The iDPN Vigi residual current device provide complete protection for final circuits (against overcurrents and insulation faults):
  - protection for users against electric shocks by direct contacts (30 mA),
  - protection for users against electric shocks by indirect contacts (100 mA),
  - protection of the installations against fire risks (100 mA).

#### Catalogue numbers

iDPN N Vigi G Type 6000			
Type	AC		Width in 9 mm modules
Auxiliaries	Module CA907000 and CA907013		
1P+N Curve C	Sensitivity	30 mA	
	Rating (In)	6 A	A9D62606
		10 A	A9D62610
		13 A	A9D62613
		16 A	A9D62616
Voltage rating (Ue)		230...240 V AC	
Operating frequency		50 Hz	
Accessories	Module CA907000 and CA907001, comb busbars CA907013		

#### Catalogue numbers

iDPN N Vigi G Type 10000			
Type	A		Width in 9 mm modules
Auxiliaries	Module CA907000 and CA907013		
1P+N Curve B	Sensitivity	30 mA	
	Rating (In)	13 A	A9D07713
		16 A	A9D07716
1P+N Curve C	Sensitivity	30 mA	
	Rating (In)	13 A	A9D37713
		16 A	A9D37716
Voltage rating (Ue)		230...240 V AC	
Operating frequency		50 Hz	
Accessories	Module CA907000 and CA907001, comb busbars CA907013		

Offer selection see page 1

Offer B

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# Protection Earth leakage protection Residual current devices iDPN Vigi (cont.)

**IEC**

Country approval pictogram



iDPN N Vigi

## IEC/EN 61009-1

- The iDPN Vigi residual current device provide complete protection for final circuits (against overcurrents and insulation faults):
- protection for users against electric shocks by direct contacts (30 mA),

## Catalogue numbers

iDPN N Vigi <b>6000</b>			
Type	AC		Width in 9 mm modules
Auxiliaries	Module CA907000 and CA907013		
1P+N	Curve C	Sensitivity	30 mA
	Rating (In)	6 A	<b>A9D61606</b>
		10 A	<b>A9D61610</b>
		16 A	<b>A9D61616</b>
		20 A	<b>A9D61620</b>
		25 A	<b>A9D61625</b>
		32 A	<b>A9D61632</b>
40 A	<b>A9D61640</b>		
Voltage rating (Ue)		110...240 V AC	
Operating frequency		50 Hz	
Accessories	Module CA907000 and CA907001, comb busbars CA907013		

Offer selection see page 1

**Offer C**

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# Residual current devices iDPN Vigi (cont.)

DB105956-40

■ Fast contact closure

■ Insulated terminals IP20

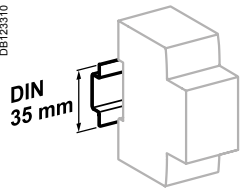
**Visi-trip double window**  
 ■ Fault tripping circuit breaker is indicated by a red mechanical indicator on the front face.  
 ■ Earth fault is indicated by a red mechanical indicator on the front face



■ Test button

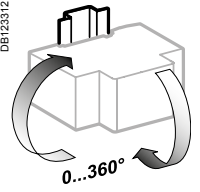
**Positive contact indication**  
 ■ A green strip on the toggle guarantees opening of all the poles in safety conditions (padlocking possible) for work to be carried out on live parts

DB123310



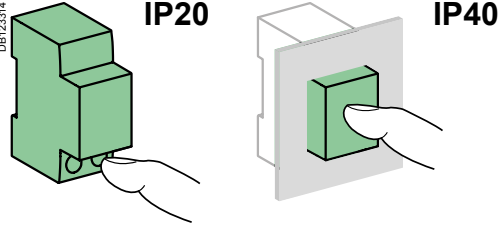
Clip on DIN rail 35 mm.

DB123312



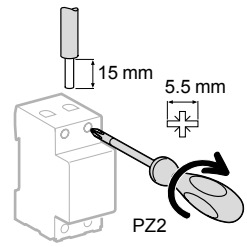
Indifferent position of installation.

DB123314




## Connection

DB 123847



Rating	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
4 to 40 A	2 N.m	1 to 16 mm <sup>2</sup>	1 to 10 mm <sup>2</sup>

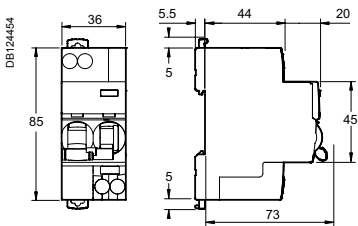
## Technical data

Main characteristics				
Type	iDPNa Vigi	iDPN N Vigi	iDPN H Vigi	
Insulation voltage (U <sub>i</sub> )	400 V AC			
Pollution degree	3			
Rated impulse withstand voltage (U <sub>imp</sub> )	4 kV			
Setting temperature for ratings	30°C			
Magnetic tripping	Curve B	Between 3 and 5 I <sub>n</sub>		
	Curve C	Between 5 and 10 I <sub>n</sub>		
According to IEC/EN 61009-1				
Limitation class	3			
Rated breaking capacity (I <sub>cn</sub> )	4500 A	6000 A	10,000 A	
Rated residual breaking and making capacity (I <sub>Δm</sub> )	4500 A	6000 A	10,000 A	
8/20 μs impulse withstand	Type AC	250 Å	250 Å	250 Å
	Type A	250 Å	250 Å	250 Å
	Type A-SI	-	3 kÅ	3 kÅ
Behaviour in case of voltage drop				Residual current protection down to 0 V according to IEC/EN 61009-1 § 3.3.8
Additional characteristics				
Earth leakage protection with instantaneous tripping	10, 30, 300 mA	10, 30, 100, 300 mA	30, 300 mA	
Degree of protection (IEC 60529)	Device only	IP20		
	Device in modular enclosure	IP40		
Endurance (O-C)	Electrical	≤ 20 A	20,000 cycles	
		≥ 25 A	10,000 cycles	
	Mechanical	20,000 cycles		
		Insulation class II		
Overvoltage category (IEC 60364)	III			
Operating temperature	Type AC	-5°C to +60°C		
	Type A, A-SI	-25°C to +60°C		
Storage temperature	-40°C to +85°C			
Tropicalization (IEC 60068-1)	Treatment 2 (relative humidity 95 % to 55°C)			

## Weight (g)

Residual current device	
Type	iDPN Vigi
1P+N	125

## Dimensions (mm)



# Residual current devices iDPN Vigi (cont.)



Indice	Date	Modification	Name
1.0	28/09/2011	Creation	Sedoc
1.1	21/10/2011	Add iDPN N Vigi Type G products	Sedoc
1.2	22/03/2012	Changed A type logo-Deleted IEC/EN 60947-2 in technical data table	Sedoc
2.0	30/08/2012	Add Comb busbar module reference and photo page 4	Sedoc
2.1	16/01/2013	Changed Tightening torque	Sedoc
2.2	12/06/2013	Replaced Accessories module CA907009 by LIN001	Sedoc
2.3	27/01/2014	Add Voltage Independent	Sedoc
2.4	17/03/2014	Separation of the offers A and B (G type) - Add iDPN N Vigi 110 V products	Sedoc
2.5	31/03/2014	Changed Ue	Sedoc
2.6	27/03/2015	Deleted "IEC/EN 61009-2-1: Voltage Independent" - Changed VIT text in Technical data table - Replaced LIN001	Sonovision
2.7	16/11/2016	Deleted iDPN N Vigi G type, 6000 A, A class and added iDPN N Vigi G type, 10000 A Offer B page 5	Sonovision
3.0	21/03/2017	New charte	Sonovision
3.1	23/08/2017	Added Offer C page 6	Sonovision