Residual current devices iDPN Vigi

DB116619 DB123430 DB123400

Country approval pictograms

IEC/EN 61009-1

iDPNa Vigi

iDPN H Vigi

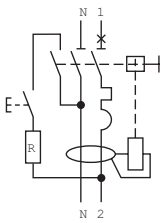
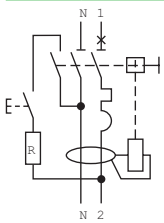
iDPN N Vigi

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 (<= 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.

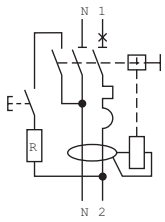
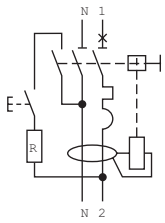
Catalogue numbers

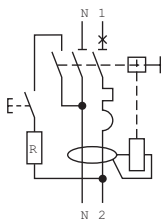
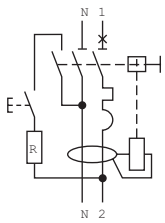
iDPNa Vigi 4500

Type			AC ~		A ~		Width in 9 mm modules
Auxiliaries			**Module CA907000 and CA907013**				
1P+N Curve B		**Sensitivity**	**30 mA**	**300 mA**	**10 mA**	**30 mA**	
DB123871 	Rating (In)	6 A	**A9D51606**	-	-	**A9D54606**	4
		10 A	**A9D51610**	-	-	**A9D54610**	
		13 A	-	-	-	**A9D54613**	
		16 A	**A9D51616**	-	-	**A9D54616**	
		20 A	**A9D51620**	-	-	**A9D54620**	
		25 A	**A9D51625**	-	-	**A9D54625**	
		32 A	**A9D51632**	-	-	**A9D54632**	
		40 A	**A9D51640**	-	-	**A9D54640**	
1P+N Curve C		**Sensitivity**	**30 mA**	**300 mA**	**10 mA**	**30 mA**	
DB123871 	Rating (In)	6 A	**A9D34606**	**A9D44606**	-	**A9D35606**	4
		10 A	**A9D34610**	**A9D44610**	**A9D05610**	**A9D35610**	
		13 A	-	-	-	**A9D35613**	
		16 A	**A9D34616**	**A9D44616**	**A9D05616**	**A9D35616**	
		20 A	**A9D34620**	**A9D44620**	-	**A9D35620**	
		25 A	**A9D34625**	**A9D44625**	-	**A9D35625**	
		32 A	**A9D34632**	**A9D44632**	-	**A9D35632**	
		40 A	**A9D34640**	**A9D44640**	-	**A9D35640**	
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

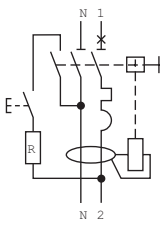
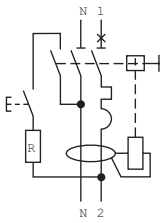
iDPN N Vigi 6000					
Type				**A**	**Width in 9 mm modules**
Auxiliaries				**Module CA907000 and CA907013**	
1P+N	**Curve B**		**Sensitivity**	**30 mA**	
DB123871 		Rating (In)	10 A	**A9D06610**	4
			16 A	**A9D06616**	
			20 A	**A9D06620**	
1P+N	**Curve C**		**Sensitivity**	**30 mA**	
		Rating (In)	10 A	**A9D01610**	4
			16 A	**A9D01616**	
			20 A	**A9D01620**	
Voltage rating (Ue)				110 V AC	
Operating frequency				50 Hz	
Accessories				**Module CA907000 and CA907001, comb busbars CA907013**	

iDPN N Vigi 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**	
DB123871 	Rating (In) 4 A		**A9D55604**	**A9D68604**	-	**A9D56604**	**A9D60604**	**A9D69604**	-	-	-	4
	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**	
DB123871 	Rating (In) 6 A		**A9D31606**	**A9D41606**	-	**A9D32606**	**A9D52606**	**A9D42606**	**A9D33606**	**A9D53606**	**A9D43606**	4
	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

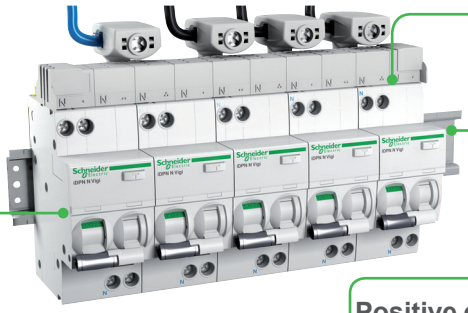
iDPN H Vigi 10000

Type			A		A-SI		Width in 9 mm modules
Auxiliaries			**Module CA907000 and CA907013**				
1P+N Curve B		**Sensitivity**	**30 mA**	**300 mA**	**30 mA**	**300 mA**	
DB123871 	Rating (In)	6 A	**A9D07606**	-	-	-	4
		10 A	**A9D07610**	-	-	-	
		16 A	**A9D07616**	-	-	-	
		20 A	**A9D07620**	-	-	-	
		25 A	**A9D07625**	-	-	-	
		32 A	**A9D07632**	-	-	-	
1P+N Curve C		**Sensitivity**	**30 mA**	**300 mA**	**30 mA**	**300 mA**	
DB123871 	Rating (In)	6 A	**A9D37606**	**A9D47606**	**A9D38606**	**A9D48606**	4
		10 A	**A9D37610**	**A9D47610**	**A9D38610**	**A9D48610**	
		16 A	**A9D37616**	**A9D47616**	**A9D38616**	**A9D48616**	
		20 A	**A9D37620**	**A9D47620**	**A9D38620**	**A9D48620**	
		25 A	**A9D37625**	**A9D47625**	**A9D38625**	**A9D48625**	
		32 A	**A9D37632**	**A9D47632**	**A9D38632**	**A9D48632**	
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.)

b Fast contact closure

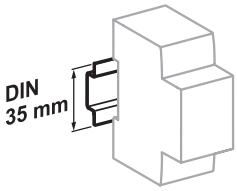
Visi-trip double window
b Fault tripping circuit breaker is indicated by a red mechanical indicator on the front face.
b Earth fault is indicated by a red mechanical indicator on the front face



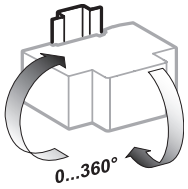
b Insulated terminals IP20

b Test button

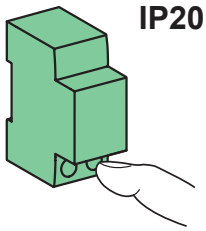
Positive contact indication
b A green strip on the toggle guarantees opening of all the poles in safety conditions (padlocking possible) for work to be carried out on live parts

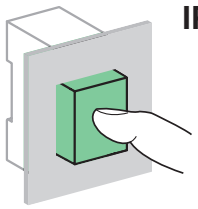


Clip on DIN rail 35 mm.

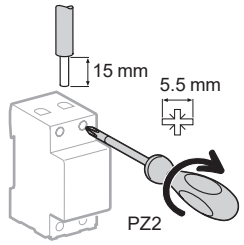


Indifferent position of installation.





Connection

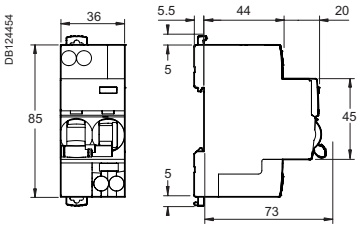


Rating	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
4 to 40 A	2 N.m	1 to 16 mm²	1 to 10 mm²

Technical data

Main characteristics				
Type		**iDPNa Vigi**	**iDPN N Vigi**	**iDPN H Vigi**
Insulation voltage (Ui)		400 V AC		
Pollution degree		3		
Rated impulse withstand voltage (Uimp)		4 kV		
Setting temperature for ratings		30°C		
Magnetic tripping	Curve B	Between 3 and 5 In		
	Curve C	Between 5 and 10 In		
According to IEC/EN 61009-1				
Limitation class		3		
Rated breaking capacity (Icn)		4500 A	6000 A	10,000 A
Rated residual breaking and making capacity (IΔm)		4500 A	6000 A	10,000 A
8/20 µs impulse withstand	Type AC	250 Â	250 Â	250 Â
	Type A	250 Â	250 Â	250 Â
	Type A-SI	-	3 kÂ	3 kÂ
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 Insulation class II		
Endurance (O-C)	Electrical y 20 A	20,000 cycles		
	Electrical u 25 A	10,000 cycles		
	Mechanical	20,000 cycles		
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)