Acti 9

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Contents

iID residual current circuit breakers

DB116619

Country approval pictogram

IEC/EN 61008-1

PB104472-40

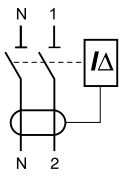
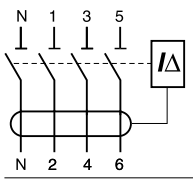
PB104473-40

■ The iID residual current circuit breakers provide:
□ protection of persons against electric shock by direct contact (30 mA),
□ protection of persons against electric shock by indirect contact (300 mA),
□ protection of installations against the risk of fire (300 mA).

The ***SI*** type provides increased immunity from electrical interference and polluted or corrosive environments.

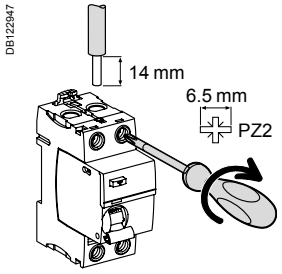
Catalogue numbers

iID residual current circuit breakers for 230/400 V network

Type			AC			*SI*	Width in 9 mm module
Auxiliaries			See page 21				
2P		**Sensitivity**	**30 mA**	**300 mA**	**300 mA S**	**30 mA**	
DB122476 	Rating	25 A	**A9R71225**	-	-	-	4
		40 A	**A9R71240**	-	-	-	
		63 A	**A9R71263**	**A9R74263**	**A9R15263**	**A9R91263**	
		80 A	**A9R11280**	**A9R14280**	**A9R15280**	-	
		100 A	**A9R11291**	**A9R14291**	**A9R15291**	-	
4P		**Sensitivity**	**30 mA**	**300 mA**	**300 mA S**		
DB122477 	Rating	25 A	**A9R71425**	-	-	-	8
		40 A	**A9R71440**	-	-	-	
		63 A	**A9R71463**	**A9R74463**	**A9R15463**	**A9R91463**	
		80 A	**A9R11480**	**A9R14480**	**A9R15480**	-	
		100 A	**A9R11491**	**A9R14491**	**A9R15491**	-	
Voltage rating (Ue)		2P	230 - 240 V				
		4P	400 - 415 V				
Operating frequency			50/60 Hz				
Accessories			See page 94				

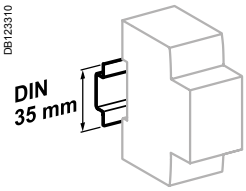
iID residual current circuit breakers (AC, A, *SI* types)

Connection

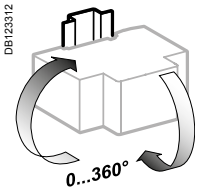


	Without accessory			With accessories*			
Type	Tightening torque	Copper cables		50 mm² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
		Rigid	Flexible or with ferrule			Rigid cables	Flexible cables
		DB122945	DB122946	DB122935	DB118789	DB118787	
iID	3.5 N.m	1 to 35 mm²	1 to 25 mm²	50 mm²	Ø 5 mm	3 x 16 mm²	3 x 10 mm²

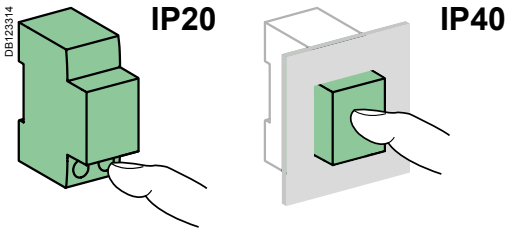
* See module CA907000



Clip on DIN rail 35 mm.



Indifferent position of installation.



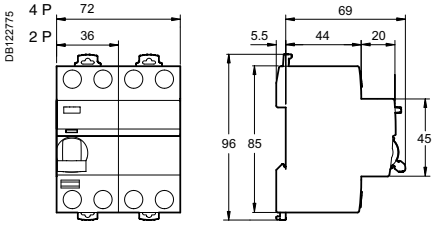
Technical data

Main characteristics			
Insulation voltage (Ui)			500 V
Pollution degree			3
Rated impulse withstand voltage (Uimp)			6 kV
According to IEC/EN 61008-1			
Making and breaking capacity (Im/IΔm)			1500 A
Surge current withstand (8/20 µs) without tripping	AC types (no selective Ⓢ)		250 Â
	AC types (selective Ⓢ)		3 kÂ
	SI type		3 kÂ
Conditional rated short circuit current (Inc/IΔc)	With iC60N/H/L		Equal to breaking capacity of iC60
	With fuse	100 A	10,000 A
Behaviour in case of voltage drop			Residual current protection down to 0 V according to IEC/EN 61008-1 § 3.3.4
Additional characteristics			
Degree of protection	Device only		IP20
	Device in modular enclosure		IP40 Insulation class II
Endurance (O-C)	Electrical (AC1)	16 to 63 A	15,000 cycles
		80 to 100 A	10,000 cycles
	Mechanical		20,000 cycles
Operating temperature	AC type		-5°C to +60°C
	SI types	-25°C	-25°C to +60°C
Storage temperature			-40°C to +85°C

Weight (g)

Residual current circuit breakers	
Type	**iID**
2P	210
4P	370

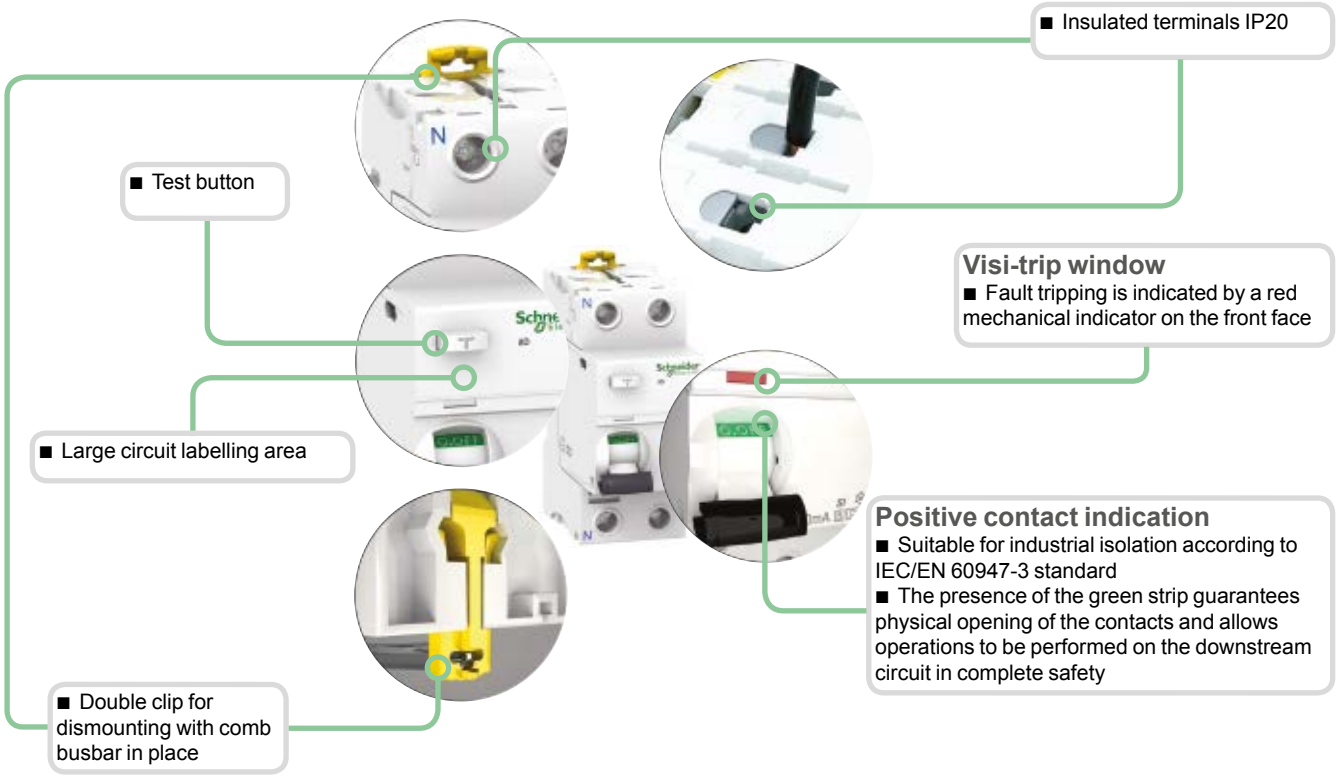
Dimensions (mm)



iID residual current circuit breakers (AC, A, *SI* types) (cont.)

PB104548-40

PB104472-40



SI type

The *SI* type provides increased immunity from electrical interference and polluted or corrosive environments.

RCCB-ID 125 A residual current circuit breakers

IEC/EN 61008-1
VDE 0664

PB111263-33

PB107510-33

16940

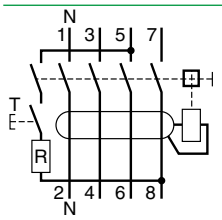
- The RCCB-ID 125 A residual current circuit breakers provide:
  - protection of persons against electric shock by direct contact (30 mA),
  - protection of persons against electric shock by indirect contact (300 mA),
  - protection of installations against the risk of fire (300 mA).

OFsp auxiliary

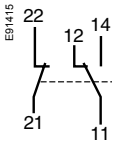
- Electrical indication: by OFsp auxiliary mounted to the left, it has a double changeover switch indicating the "open" or "closed" position of the RCCB-ID 125 A.

Catalogue numbers

RCCB-ID 125 A residual current circuit breakers

Type			AC ~		Width in 9 mm module
4P		Sensitivity	30 mA	300 mA	
E91414 	Rating	125 A	**16905**	**16907**	8
Voltage rating (Ue)		2P	230 V		
		4P	400 V		
Operating frequency			50 Hz		

Auxiliary

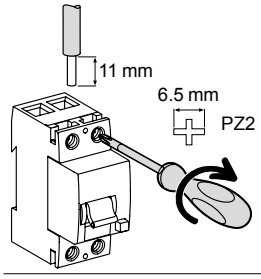
Type				Width in 9 mm module
Contact OFsp	Contact	Voltage		
E91415 	1 A	110 V DC	**16940**	1
	6 A	230 V AC (AC15)		

RCCB-ID 125 A residual current circuit breakers (cont.)

Connection

■ By tunnel terminals for:

DB123737



Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
	DB112804	DB112805	
RCCB-ID	3 N.m	1 x 1.5 to 50 mm²	1 x 1.5 to 35 mm²
		2 x 1.5 to 16 mm²	2 x 1.5 to 16 mm²
OFsp	0.8 N.m	1 to 1.5 mm²	1 to 1.5 mm²

OFsp contact status, depending on the position of the residual current circuit breaker

Type				
RCCB-ID 125 A	Closed	■	-	-
	Open	-	■	-
	Tripped on fault	-	-	■
Contact OFsp	22/21 12/11	Open	Closed	Closed
	14/11	Closed	Open	Open

DB122835

Indication of the status of the RCCB-ID via the 3-position toggle and front panel indicator

- Closed (red indicator)
- Tripped on fault (green indicator)
- Open (green indicator)

Technical data

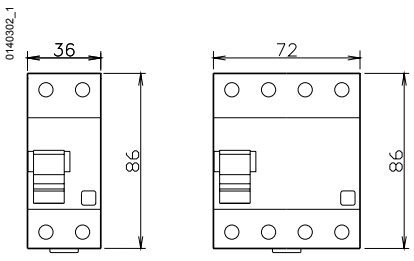
Electrical characteristics		
Insulation voltage (Ui)		400 V
Pollution degree		3
Rated impulse withstand voltage (Uimp)		4 kV
According to IEC/EN 61008-1		
Making and breaking capacity (Im/IΔm)		1250 A
Surge current withstand (8/20 µs) without tripping	AC types	250 Â
Conditional rated short circuit current (Inc/IΔc)	With FU 125 A gG fuse	10,000 A
Behaviour in case of voltage drop		Residual current protection down to 0 V according to IEC/EN 61008-1 § 3.3.4
Additional characteristics		
Degree of protection	Device only	IP20 IP40 with screw shield
	Device in modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical	> 2 000 cycles
	Mechanical	> 5 000 cycles
Operating temperature		-25°C to +40°C
Storage temperature		-40°C to +85°C
Range of test button operating voltage	30 mA	250...440 V AC
	300 mA	185...440 V AC

Weight (g)

Residual current circuit breakers and auxiliary		
Type	**RCCB-ID 125 A**	**OFsp**
4P	420	40

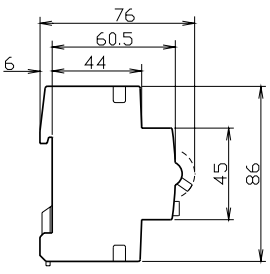
Dimensions (mm)

0140302_1

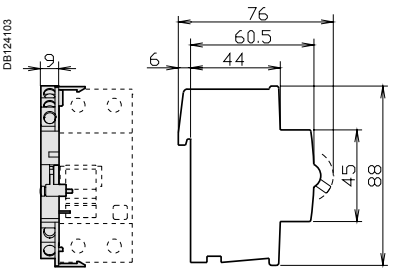


2P
RCCB-ID 125 A

4P



DB124103



Contact OFsp

iC60N circuit breakers (curves C, D)

DB116619

Country approval pictograms

PB104437-40

PB104450-40

IEC/EN 60947-2
IEC/EN 60898-1

■ iC60N circuit breakers are multi-standard circuit breakers which combine the following functions:
- □ circuit protection against short-circuit currents,
- □ circuit protection against overload currents,
- □ suitable for industrial isolation according to IEC/EN 60947-2, standard.
- □ fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
		Voltage (Ue)				
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V	
Ph/N (1P)		12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In)	1 to 4 A	50 kA	50 kA	50 kA	25 kA	100 % of Icu
	6 to 63 A	36 kA	20 kA	10 kA	6 kA	75 % of Icu

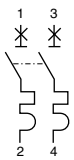
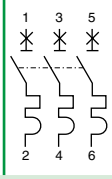
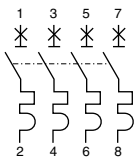
Breaking capacity (Icn) according to IEC/EN 60898-1		
		Voltage (Ue)
Ph/Ph		400 V
Ph/N		230 V
Rating (In)	1 to 63 A	6000 A

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
		Voltage (Ue)				
Between +/-		12 to 60 V	⩽ 72 V	⩽ 125 V	⩽ 180 V	⩽ 250 V
Number of poles		1P		2P	3P	4P
Rating (In)	1 to 63 A	15 kA	10 kA	10 kA	10 kA	10 kA	100 % of Icu

Catalogue numbers

iC60N circuit breaker

Type	1P		2P		3P		4P	
	E45092 		E45094 		E45095 		E45097 	
Auxiliaries	See page 21							
Vigi iC60	See page 14							
Rating (In)	Curve		Curve		Curve		Curve	
	C	D	C	D	C	D	C	D
1 A	A9F74101	A9F75101	A9F74201	A9F75201	A9F74301	A9F75301	A9F74401	A9F75401
2 A	A9F74102	A9F75102	A9F74202	A9F75202	A9F74302	A9F75302	A9F74402	A9F75402
3 A	A9F74103	A9F75103	A9F74203	A9F75203	A9F74303	A9F75303	A9F74403	A9F75403
4 A	A9F74104	A9F75104	A9F74204	A9F75204	A9F74304	A9F75304	A9F74404	A9F75404
6 A	A9F74106	A9F75106	A9F74206	A9F75206	A9F74306	A9F75306	A9F74406	A9F75406
10 A	A9F74110	A9F75110	A9F74210	A9F75210	A9F74310	A9F75310	A9F74410	A9F75410
16 A	A9F74116	A9F75116	A9F74216	A9F75216	A9F74316	A9F75316	A9F74416	A9F75416
20 A	A9F74120	A9F75120	A9F74220	A9F75220	A9F74320	A9F75320	A9F74420	A9F75420
25 A	A9F74125	A9F75125	A9F74225	A9F75225	A9F74325	A9F75325	A9F74425	A9F75425
32 A	A9F74132	A9F75132	A9F74232	A9F75232	A9F74332	A9F75332	A9F74432	A9F75432
40 A	A9F74140	A9F75140	A9F74240	A9F75240	A9F74340	A9F75340	A9F74440	A9F75440
50 A	A9F74150	A9F75150	A9F74250	A9F75250	A9F74350	A9F75350	A9F74450	A9F75450
63 A	A9F74163	A9F75163	A9F74263	A9F75263	A9F74363	A9F75363	A9F74463	A9F75463
Width in 9-mm modules	2		4		6		8	
Accessories	See page 94							

iC60H circuit breakers (curve C)

DB116619

Country approval pictograms

PB104441-40

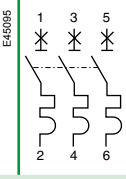
IEC/EN 60947-2
IEC/EN 60898-1

■ iC60H circuit breakers are multi-standard circuit breakers which combine the following functions:
□ circuit protection against short-circuit currents,
□ circuit protection against overload currents,
□ suitable for industrial isolation according to IEC/EN 60947-2, standard.
□ fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz						
Breaking capacity (Icu) according to IEC/EN 60947-2						**Service breaking capacity (Ics)**
		Voltage (Ue)				
Ph/Ph (3P)		**12 to 133 V**	**220 to 240 V**	**380 to 415 V**	**440 V**	
Ph/N (1P)		**12 to 60 V**	**100 to 133 V**	**220 to 240 V**	**-**	
Rating (In)	1 to 4 A	70 kA	70 kA	70 kA	50 kA	100 % of Icu
	6 to 63A	42 kA	30 kA	15 kA	10 kA	50 % of Icu
Breaking capacity (Icn) according to IEC/EN 60898-1						
		Voltage (Ue)				
Ph/Ph		**400 V**				
Ph/N		**230 V**				
Rating (In)	1 to 63 A	10000 A				

Direct current (DC)					
Breaking capacity (Icu) according to IEC/EN 60947-2					**Service breaking capacity (Ics)**
		Voltage (Ue)			
Between +/-		**12 to 60 V**	**⩽ 72 V**	**⩽ 180 V**	
Number of poles		**1P**		**3P**	
Rating (In)	1 to 63 A	20 kA	15 kA	15 kA	100 % of Icu

Catalogue numbers

iC60H circuit breaker		
Type	**1P**	**3P**
	E45092 	E45095 
Auxiliaries	**See page 21**	
Vigi iC60	**See page 14**	
Rating (In)	**Curve C**	**Curve C**
1 A	**A9F84101**	**A9F84301**
2 A	**A9F84102**	**A9F84302**
3 A	**A9F84103**	**A9F84303**
4 A	**A9F84104**	**A9F84304**
6 A	**A9F84106**	**A9F84306**
10 A	**A9F84110**	**A9F84310**
16 A	**A9F84116**	**A9F84316**
20 A	**A9F84120**	**A9F84320**
25 A	**A9F84125**	**A9F84325**
32 A	**A9F84132**	**A9F84332**
40 A	**A9F84140**	**A9F84340**
50 A	**A9F84150**	**A9F84350**
63 A	**A9F84163**	**A9F84363**
Width in 9-mm modules	2	6
Accessories	**See page 94**	

iC60L circuit breakers (curve C)

DB116619 DB123625 DB122858

Country approval pictograms

PB104442-40

PB104452-40

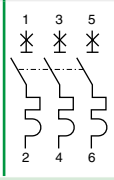
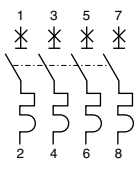
IEC/EN 60947-2
IEC/EN 60898-1 up to 40 A

■ iC60L circuit breakers are multi-standard circuit breakers which combine the following functions:
- □ circuit protection against short-circuit currents,
- □ circuit protection against overload currents,
- □ suitable for industrial isolation according to IEC/EN 60947-2, standard.
- □ fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz						
Breaking capacity (Icu) according to IEC/EN 60947-2						**Service breaking capacity (Ics)**
		Voltage (Ue)				
Ph/Ph (2P, 3P, 4P)		**12 to 133 V**	**220 to 240 V**	**380 to 415 V**	**440 V**	
Ph/N (1P)		**12 to 60 V**	**100 to 133 V**	**220 to 240 V**	**-**	
Rating (In)	1 to 4 A	100 kA	100 kA	100 kA	70 kA	100 % of Icu
	6 to 25 A	70 kA	50 kA	25 kA	20 kA	50 % of Icu (1)
	32 / 40 A	70 kA	36 kA	20 kA	15 kA	50 % of Icu
	50 / 63 A	70 kA	30 kA	15 kA	10 kA	50 % of Icu
Breaking capacity (Icn) according to IEC/EN 60898-1						
		Voltage (Ue)				
Ph/Ph		**400 V**				
Ph/N		**230 V**				
Rating (In)	1 to 40 A	15000 A				

Direct current (DC)						
Breaking capacity (Icu) according to IEC/EN 60947-2						**Service breaking capacity (Ics)**
		Voltage (Ue)				
Between +/-		**12 to 60 V**	**⩽ 72 V**	**⩽ 125 V**	**⩽ 180 V**	**⩽ 250 V**
Number of poles		**1P**		**2P**	**3P**	**4P**
Rating (In)	1 to 63 A	25 kA	20 kA	20 kA	20 kA	20 kA	100 % of Icu

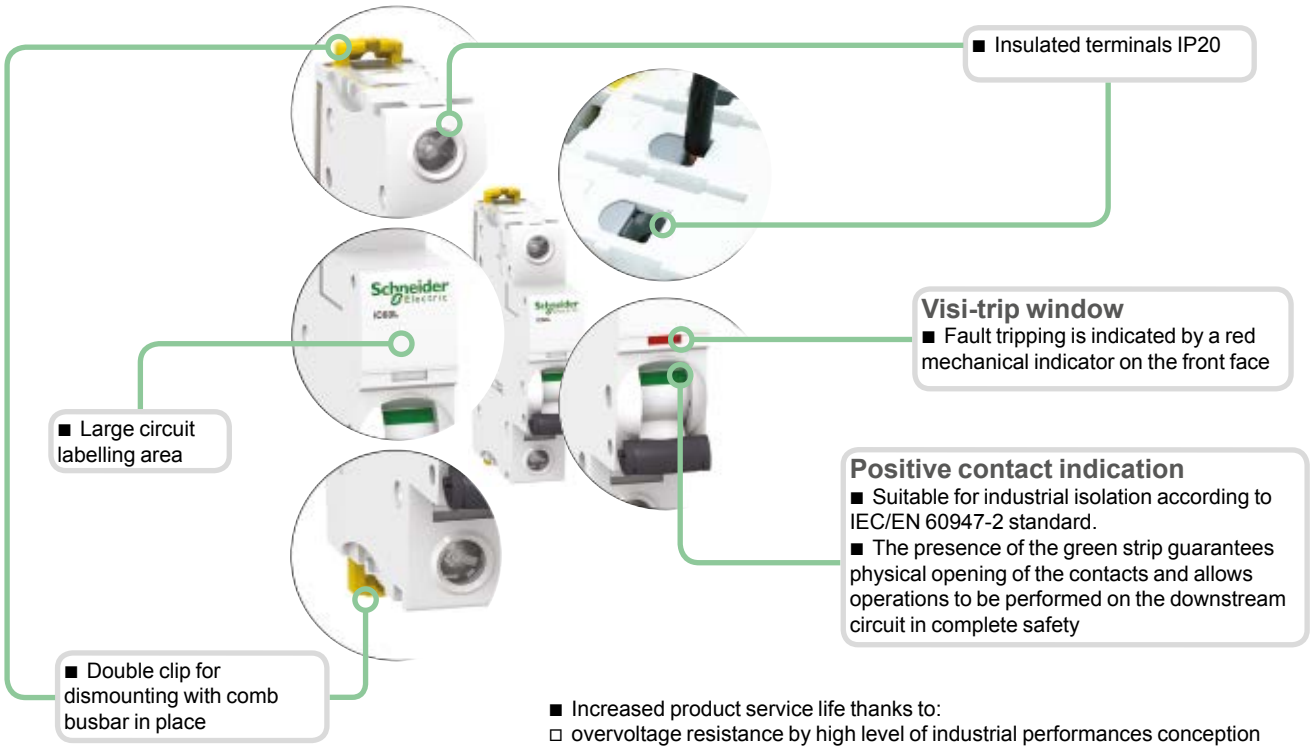
Catalogue numbers

iC60L circuit breaker				
Type	**1P**	**2P**	**3P**	**4P**
	E45092 	E45094 	E45095 	E45097 
Auxiliaries	**See page 21**			
Vigi iC60	**See page 14**			
Rating (In)	**Curve C**	**Curve C**	**Curve C**	**Curve C**
1 A	**A9F94101**	**A9F94201**	**A9F94301**	**A9F94401**
2 A	**A9F94102**	**A9F94202**	**A9F94302**	**A9F94402**
3 A	**A9F94103**	**A9F94203**	**A9F94303**	**A9F94403**
4 A	**A9F94104**	**A9F94204**	**A9F94304**	**A9F94404**
6 A	**A9F94106**	**A9F94206**	**A9F94306**	**A9F94406**
10 A	**A9F94110**	**A9F94210**	**A9F94310**	**A9F94410**
16 A	**A9F94116**	**A9F94216**	**A9F94316**	**A9F94416**
20 A	**A9F94120**	**A9F94220**	**A9F94320**	**A9F94420**
25 A	**A9F94125**	**A9F94225**	**A9F94325**	**A9F94425**
32 A	**A9F94132**	**A9F94232**	**A9F94332**	**A9F94432**
40 A	**A9F94140**	**A9F94240**	**A9F94340**	**A9F94440**
50 A	**A9F94150**	**A9F94250**	**A9F94350**	**A9F94450**
63 A	**A9F94163**	**A9F94263**	**A9F94363**	**A9F94463**
Width in 9-mm modules	2	4	4	6
Accessories	**See page 94**			

(1) 100 % of Icu for ratings 6 to 25 A under Ue 100 to 133 V AC Ph/Ph and Ue 12 to 60 V AC Ph/N.

iC60 circuit breakers (curve C, D)

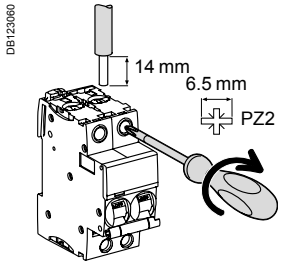
PB104436-40



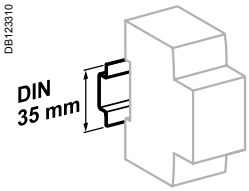
■ Increased product service life thanks to:
□ overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage),
□ high performance limitation (see limitation curves),
□ fast closing independent of the speed of actuation of the toggle.
■ Remote indication, open/closed/tripped, by optional auxiliary contacts.
■ Top or bottom electrical feeding.

iC60 circuit breakers (curve C, D) (cont.)

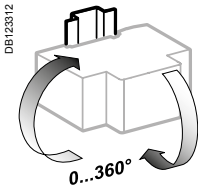
Connection



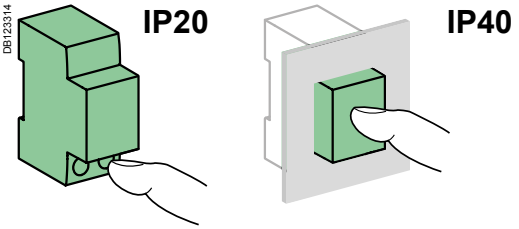
Rating	Tightening torque	Without accessory: Copper cables – Rigid	Without accessory: Copper cables – Flexible or with ferrule	With accessories: 50 mm² Al terminal	With accessories: Screw-on connection for ring terminal	With accessories: Multi-cables terminal – Rigid cables	With accessories: Multi-cables terminal – Flexible cables
		DB122945	DB122946	DB122935 Al DB118789	Ø DB118787		
1 to 25 A	2 N.m	1 to 25 mm²	1 to 16 mm²	-	Ø 5 mm	-	-
32 to 63 A	3.5 N.m	1 to 35 mm²	1 to 25 mm²	50 mm²		3 x 16 mm²	3 x 10 mm²



Clip on DIN rail 35 mm.



Indifferent position of installation.



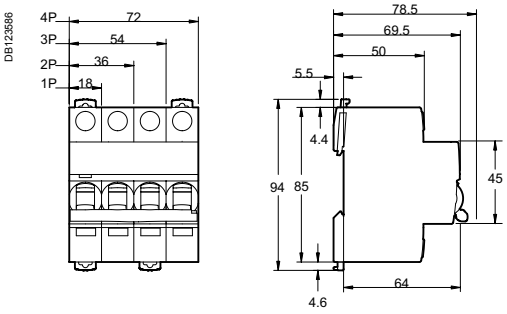
Technical data

Main characteristics		
According to IEC/EN 60947-2		
Insulation voltage (Ui)		500 V AC
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6 kV
Thermal tripping	Reference temperature	50 °C
Magnetic tripping	C curve	8 In ± 20 %
	D curve	12 In ± 20 %
Utilization category		A
According to IEC/EN 60898-1		
Rated making and breaking capacity of an individual pole (Icn1)		Icn1 = Icn
Additional characteristics		
Breaking capacity under 1 pole with IT 380-415 V isolated neutral system (case of double fault)	40 A	4 kA
	50/63 A	3 kA
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)		IV
Operating temperature		-35°C to +70°C
Storage temperature		-40°C to +85°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)

Weight (g)

Circuit breaker	
Type	**iC60**
1P	125
2P	250
3P	375
4P	500

Dimensions (mm)



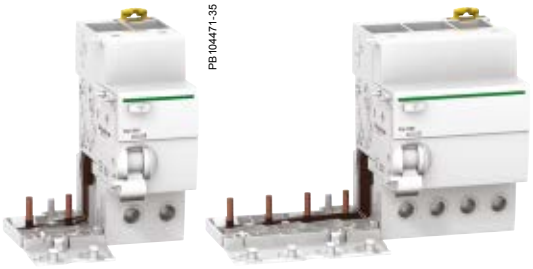
Vigi iC60 add-on residual current devices
(AC type)

DB116619 DB123430

Country approval pictograms

IEC/EN 61009-1

PB104466-35 PB104471-35



- Combined with iC60 circuit breaker, the Vigi iC60 provide:
  - protection of persons against electric shock by direct contact (30 mA),
  - protection of persons against electric shock by indirect contact (300 mA),
  - protection of installations against the risk of fire (300 mA).

Catalogue numbers

Vigi iC60 add-on residual current devices for 230/400 V network

Type			AC ~			Width in 9 mm modules
Auxiliaries			**Without auxiliaries**			
2P	**Sensitivity**		**30 mA**	**300 mA**	**300 mA S**	
DB122462	Rating	25 A	**A9V41225**	**A9V44225**	**-**	3
		63 A	**A9V41263**	**A9V44263**	**A9V15263**	4
3P	**Sensitivity**		**30 mA**	**300 mA**	**300 mA S**	
DB122463	Rating	25 A	**A9V41325**	**A9V44325**	**-**	6
		63 A	**A9V41363**	**A9V44363**	**A9V15363**	7
4P	**Sensitivity**		**30 mA**	**300 mA**	**300 mA S**	
DB122464	Rating	25 A	**A9V41425**	**A9V44425**	**-**	6
		63 A	**A9V41463**	**A9V44463**	**A9V15463**	7
Voltage rating (Ue)		2P	230 - 240 V			
		3P-4P	400 - 415 V			
Operating frequency			50/60 Hz			
Accessories			**See page 94**			

Vigi iC60 add-on residual current devices for 110 V network

Type			AC ~		Width in 9 mm modules
Auxiliaries			**Without auxiliaries**		
2P	**Sensitivity**		**30 mA**	**300 mA**	
DB122462	Rating	25 A	**A9V01225**	**A9V04225**	3
		63 A	**A9V01263**	**A9V04263**	4
Voltage rating (Ue)			110 V		
Operating frequency			50/60 Hz		
Accessories			**See page 94**		

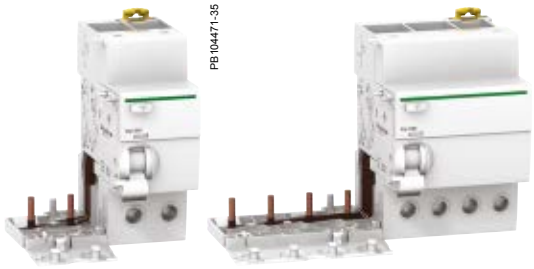
Vigi iC60 add-on residual current devices
(SI type)

DB116619 DB123430

Country approval pictograms

IEC/EN 61009-1

PB104466-35 PB104471-35



- Combined with iC60 circuit breaker, the Vigi iC60 provide:
  - protection of persons against electric shock by direct contact (30 mA),
  - protection of persons against electric shock by indirect contact (300 mA),
  - protection of installations against the risk of fire (300 mA).

The **SI** type provides increased immunity from electrical interference and polluted or corrosive environments.

Catalogue numbers

Vigi iC60 add-on residual current devices for 230/400 V network

Type			*SI*		Width in 9 mm modules
Auxiliaries			**Without auxiliaries**		
2P		**Sensitivity**	**30 mA**	**300 mA** S	
DB122462	Rating	63 A	**A9V61263**	**A9V65263**	4
3P		**Sensitivity**	**30 mA**	**300 mA** S	
DB122463	Rating	63 A	**A9V61363**	**A9V65363**	7
4P		**Sensitivity**	**30 mA**	**300 mA** S	
DB122464	Rating	63 A	**A9V61463**	**A9V65463**	7
Voltage rating (Ue)		2P	230 - 240 V		
		3P-4P	400 - 415 V		
Operating frequency			50/60 Hz		
Accessories			**See page 94**		

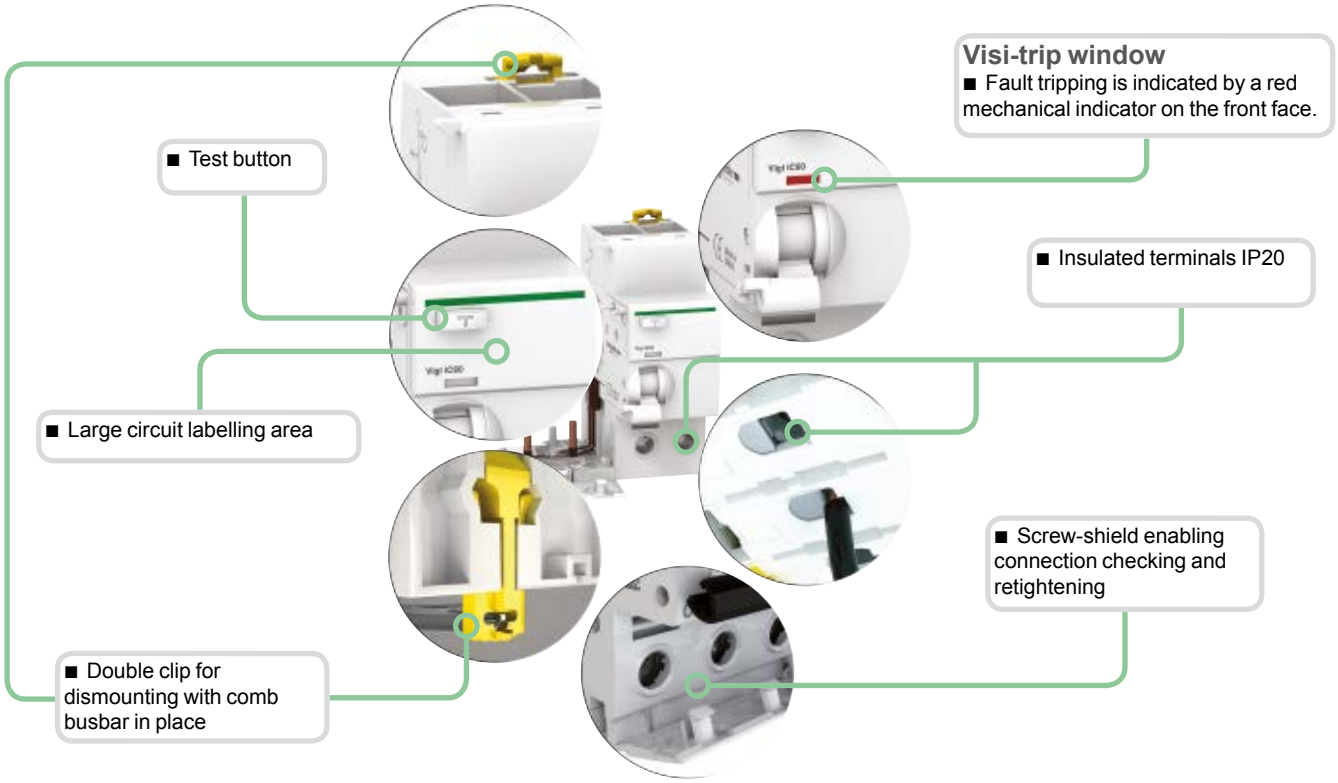
Vigi iC60 add-on residual current devices (cont.)

PB104556-51

Association iC60N, H, L + Vigi iC60

iC60	Vigi iC60 25 A	Vigi iC60 63 A
1 A to 25 A	■	■
32 A - 40 A	NO	■
50 A - 63 A	NO	■

PB104466-40

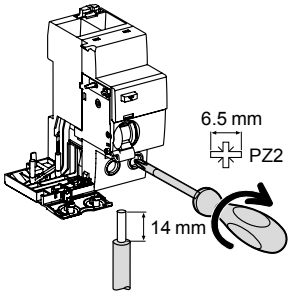


SI type

The SI type provides increased immunity from electrical interference and polluted or corrosive environments.

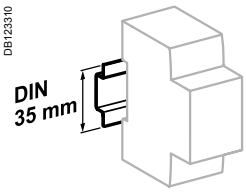
Connection

DB122948

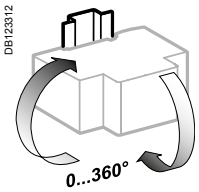


Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible or with ferrule
			DB122945	DB122946
Vigi iC60	25 A	2 N.m	1 to 25 mm²	1 to 16 mm²
	63 A	3.5 N.m	1 to 35 mm²	1 to 25 mm²

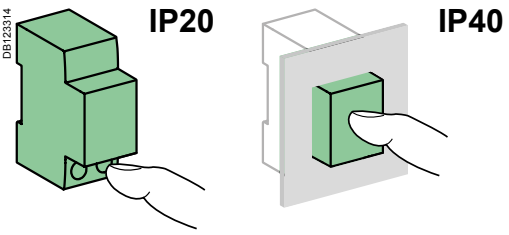
Vigi iC60 add-on residual current devices (AC, SI types) (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical data

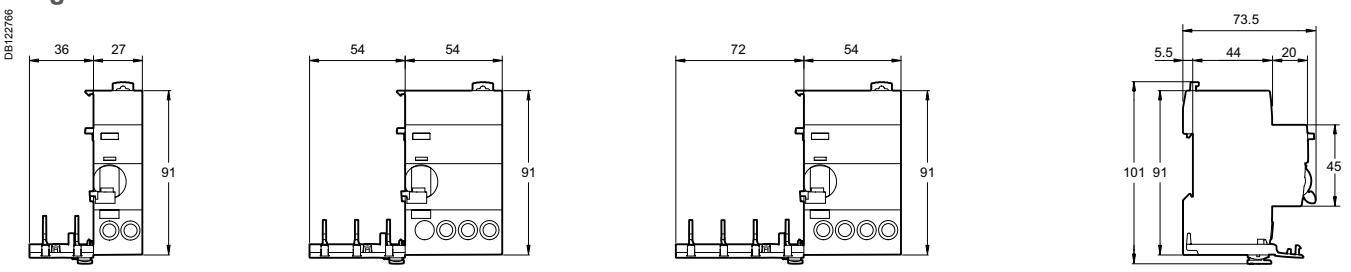
Main characteristics		
Insulation voltage (Ui)		500 V
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6 kV
According to IEC/EN 61009-1		
Surge current withstand (8/20 µs) without tripping	AC types (no selective Ⓢ)	250 Â
	AC types (selective Ⓢ)	3 kÂ
	SI type	3 kÂ
Behaviour in case of voltage drop		Residual current protection down to 0 V according to IEC/EN 61009-1 § 3.3.8
Additional characteristics		
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Operating temperature	AC type	-5°C to +60°C
	SI types	-25°C to +60°C
Storage temperature		-40°C to +85°C

Weight (g)

Add-on residual current devices	
Type	**Vigi iC60**
2P	165
3P	210
4P	245

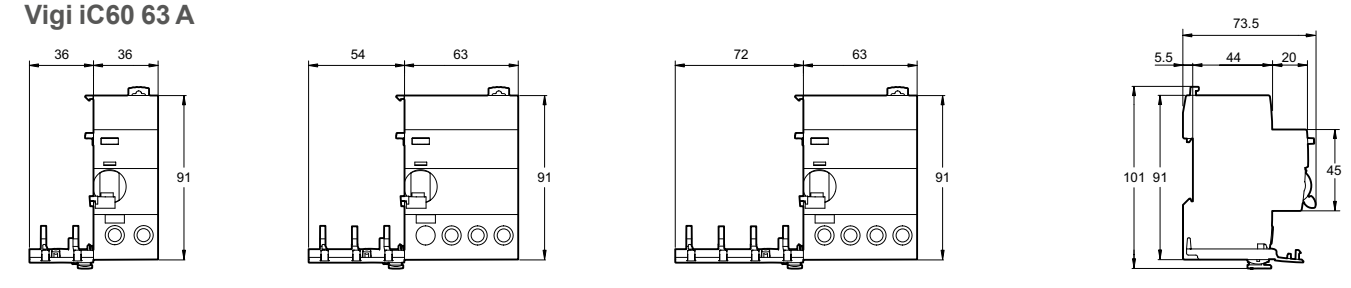
Dimensions (mm)

Vigi iC60 25 A



2P 3P 4P

Vigi iC60 63 A



2P 3P 4P

Residual current devices iDPN N Vigi and DPN N Vigi

DB116619

Country approval pictograms

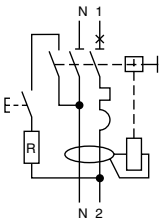
IEC/EN 61009-1

■ The residual current devices provide complete protection for final circuits (against overcurrents and insulation faults):
□ protection for users against electric shocks by direct contacts,
□ protection for users against electric shocks by indirect contacts,
□ protection of the installations against fire risks.

■ The *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.

PB110002-40

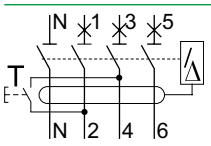
iDPN N Vigi 6000

Type			AC	SI	Width in 9 mm modules
Auxiliaries			**See page 21**		
1P+N	**Curve C**	**Sensitivity**	**30 mA**	**30 mA**	
DB123871 	Rating (In) 6 A		**A9D31606**	**-**	4
		10 A	**A9D31610**	**A9D33610**	
		16 A	**A9D31616**	**A9D33616**	
		20 A	**A9D31620**	**A9D33620**	
		25 A	**A9D31625**	**-**	
		32 A	**A9D31632**	**-**	
		40 A	**A9D31640**	**-**	
Voltage rating (Ue)			230...240 V AC		
Operating frequency			50 Hz		
Accessories			**See page 94**		

PB112070-40

DPN N Vigi

DPN N Vigi 6000

Type			AC	SI	Width in 9 mm modules
Auxiliaries			**See page 41**		
3P+N	**Curve C**	**Sensitivity**	**30 mA**	**30 mA**	
DB406134 	Rating (In) 16 A		**A9D31716**	**A9D33716**	10
		20 A	**A9D31720**	**A9D33720**	
		25 A	**A9D31725**	**A9D33725**	
		32 A	**A9D31732**	**A9D33732**	
		40 A	**A9D31740**	**A9D33740**	
Voltage rating (Ue)			400 V AC		
Operating frequency			50 Hz		
Accessories			**See page 100**		

DB405958-40

■ Fast contact closure

■ Double clip for dismounting with comb busbar in place

■ Possibility of mixing iDPN Vigi 1P+N and DPN Vigi 3P+N devices on the same row and on the same comb busbar.

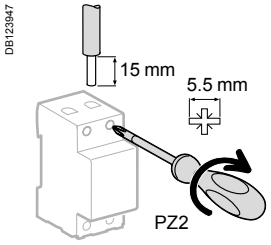
■ Test button

■ Insulated terminals IP20

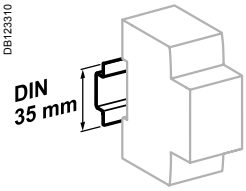
Positive contact indication
■ A green strip on the toggle guarantees opening of all the poles in safety conditions (padlocking possible) for work to be carried out on live parts

Residual current devices iDPN N Vigi and DPN N Vigi (cont.)

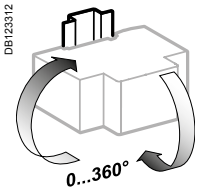
Connection



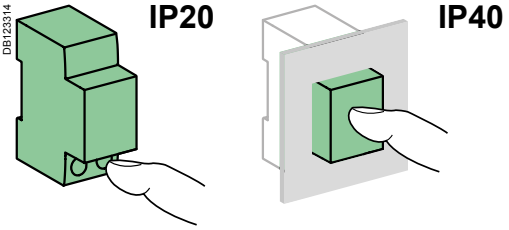
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
	DB122945	DB122946	
6 to 40 A	2 N.m	1 to 16 mm²	1 to 10 mm²



Clip on DIN rail 35 mm.



Indifferent position of installation.



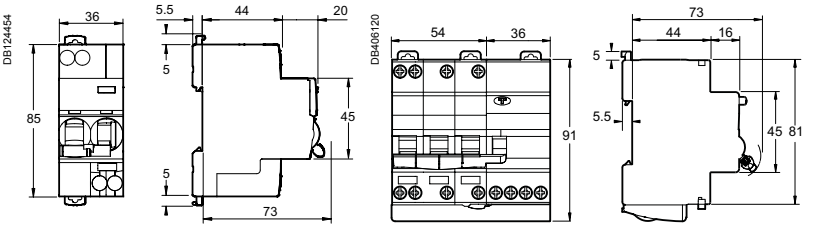
Technical data

Main characteristics		
Type		**iDPN N Vigi, DPN N 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 C	Between 5 and 10 In
According to IEC/EN 61009-1		
Limitation class		3
Rated breaking capacity (Icn)		6000 A
Rated residual breaking and making capacity (IΔm)		6000 A
8/20 µs impulse withstand	Type AC	250 Â
	Type *SI*	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		30 mA
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical ⩽ 20 A	20,000 cycles
	⩾ 25 A	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)		III
Operating temperature	Type AC	-5°C to +60°C
	Type *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 N Vigi**	**DPN N Vigi**
1P+N	125	-
3P+N	-	498

Dimensions (mm)



1P+N 3P+N

Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA

■ The electrical auxiliaries are combined with iC60 circuit breakers, iID residual current circuit breakers, remote tripping switch disconnector iSW-NA; they enable tripping or remote indication of their position (open/closed/tripped) upon a fault.
■ They are fastened by clips (without tools) to the left side of the breaker.
■ The iOF/SD+OF auxiliary is a 2-in-1 product: via a mechanical selector switch, it provides two contacts, OF+SD or OF+OF.

Tripping auxiliaries:

IEC/EN 60947-1

- iMN: undervoltage release
- iMNx: undervoltage release, independant from supply voltage
- iMX: shunt release
- iMX+OF: shunt release with open/close contact.

EN 50550

- iMSU: overvoltage release.

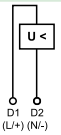
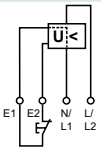
Indication auxiliaries:

IEC/EN 60947-5-1

- iOF: open/close contact
- iSD: fault indicating contact
- iOF/SD+OF: open/close contact and switchable OF or SD contact.

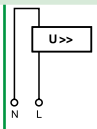
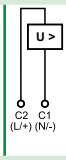
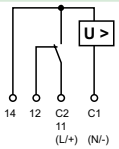
DB404939

Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA (cont.)

	Tripping	
Auxiliaries	**iMN**	**iMNx**
Type	**Undervoltage release**	
	Instantaneous	Independent of the supply voltage
	PB104477-35 	PB104480-35 
Function		
	■ Trips the device with which it is combined when its input voltage decreases (between 70 % and 35 % Un). Prevents device closing again until its input voltage is restored	■ Tripping of the associated device by opening of the control circuit (e.g. push-button, dry contact)
		■ A drop in the supply voltage does not trip the associated device ■ A locking push-button control allows the circuit protected (e.g. machine control) to be placed in safety configuration
Wiring diagrams		
	DB118804 	DB406947 
Use		
	■ Emergency stoppage by normally closed push button ■ Ensures the safety of power supply circuits for several machines by preventing "uncontrolled" restarting	■ Emergency stoppage with fail-safe principle ■ Insensitive to control circuit voltage variation to increase service continuity **Important: Before any servicing operation switch off the mains power supply (voltage presence at terminals E1/E2)**
Catalogue numbers	**A9A26960**	**A9A26969**
iC60, iID, iDPN Vigi, iSW-NA	■	■
Technical specifications		
Rated voltage (Ue) V AC	220…240	220…240
Rated voltage (Ue) V DC	–	–
Standardised operating and non-response to voltage times (Ua)*	–	–
Maximum operating time	–	–
Minimum non-response time	–	–
Operating frequency Hz	50/60	50/60
Red mechanical indicator	On front face	On front face
Width in 9 mm modules	2	2
Operating current	–	–
Number of contacts	–	–
Operating temperature °C	-35…+70	-35…+70
Storage temperature °C	-40…+85	-40…+85

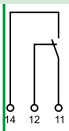
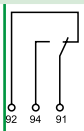
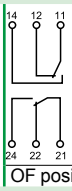
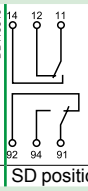
*(Ua)
Voltages measured between the phase and the neutral conductor, at which the iMSU device must control the associated protective device.

Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA (cont.)

	iMSU	iMX		iMX+OF	
	Overvoltage release	**Shunt release**			
				With Open/Close auxiliary contact	
	PB104479-35 	PB104496-35 		PB104481-35 	
	■ Switches off the power supply by opening the breaker with which it is combined, in the event that the phase/ neutral voltage is exceeded (loss of neutral). For a four-phase network, use three iMSU tripping auxiliaries	■ Trips the breaker when powered			
				■ Includes an open/close contact (OF) to indicate the "open" or "closed" position of the breaker	
	DB118806 	DB123012 		DB406929 	
	■ Protection of equipment against overvoltages on the electrical network (neutral conductor break) ■ Voltage monitoring between phase and neutral conductors	■ Emergency stoppage by normally open push button		■ Emergency stoppage by normally open push button ■ Remote indication of the position of the associated breaker	
	A9A26500	**A9A26476**	**A9A26477**	**A9A26946**	**A9A26948**
	■	■	■	■	■
	230	100…415	48	100…415	12…24
	–	110…130	48	110…130	12…24
	255 V AC / 275 V AC / 300 V AC / 350 V AC / 400 V AC	–	–	–	–
	No tripping / 15 s / 5 s / 0.75 s / 0.20 s	–	–	–	–
	3 s / 1 s / 0.25 s / 0.07 s	–	–	–	–
	50/60	50/60		50/60	
	On front face	On front face		On front face	
	2	2		2	
	–	–		10 mA mini, 6 A maxi ⩽ 24 V DC 48 V DC ⩽ 130 V DC ⩽ 240 V AC 415 V AC	
	–	–		1 NO/NC	
	-35…+70	-35…+70		-35…+70	
	-40…+85	-40…+85		-40…+85	

Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA (cont.)

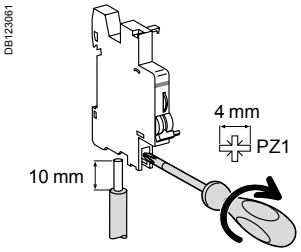
Indication

Auxiliaries	iOF	iSD	iOF/SD+OF
Type	**Open/close auxiliary contact**	**Fault indicating contact**	**Double open/close or fault indicating contact**
	PB104474-35 	PB104476-35 	PB104475-35 
Function			
	■ Changeover contact indicates "open" or "closed" position of the breaker	■ Changeover contact indicates position of the breaker; upon: □ electrical fault □ action on tripping auxiliary ■ Same indication as VISI-TRIP	■ The iOF/SD+OF auxiliary is a 2-in-1 product: via a mechanical selector switch, it provides two contacts, OF+SD or OF+OF
Wiring diagrams			
	DB118810 	DB118811 	DB118812  OF position DB118813  SD position
Use			
	■ Remote indication of the position of the associated breaker	■ Remote indication of tripping upon a fault of the associated breaker	■ Remote indication of position and/or tripping upon a fault of the associated breaker
Catalogue numbers	**A9A26924**	**A9A26927**	**A9A26929**
iC60, iID, iDPN Vigi, iSW-NA	■	■	■

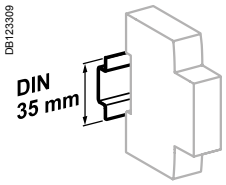
Technical specifications				
Rated voltage (Ue)	V AC	24…415	24…415	24…415
	V DC	24…130	24…130	24…130
Operating frequency	Hz	50/60	50/60	50/60
Red mechanical indicator		–	On front face	On front face
Test function		On toggle	On toggle	On toggle
Width in 9 mm modules		1	1	1
Operating current		10 mA mini, 6 A maxi		
		24 V DC 6 A		
		48 V DC 2 A		
		60 V DC 1.5 A		
		130 V DC 1 A		
		24...240 V AC 6 A		
		415 V AC 3 A		
Number of contacts		1 NO/NC	1 NO/NC	1 NO/NC + 1 NO/NC
Operating temperature	°C	-35…+70	-35…+70	-35…+70
Storage temperature	°C	-40…+85	-40…+85	-40…+85

Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA (cont.)

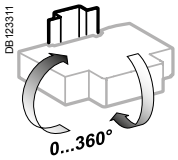
Connection



Type	Tightening torque	Copper cables		Multi-cables	
		Rigid	Flexible	Rigid	Cables with ferrule
		 DB122945	 DB123007	 DB123011	 DB123008
Indication auxiliaries	1 N.m	1 to 4 mm²	0.5 to 2.5 mm²	2 x 2.5 mm²	2 x 1.5 mm²
Tripping auxiliaries	1 N.m	1 to 6 mm²	0.5 to 4 mm²	2 x 2.5 mm²	2 x 2.5 mm²



Clip on DIN rail 35 mm.



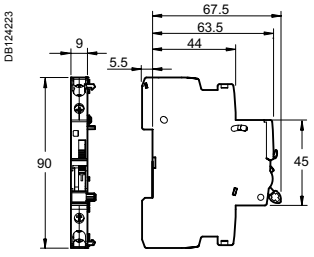
Indifferent position of installation.

Technical data

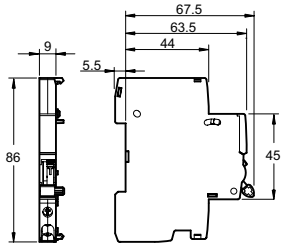
Weight (g)

Electrical auxiliaries	
Type	
iMN	69
iMNx	79
iMSU	68
iMX	64
iMX+OF	68
iOF	32
iSD	33
iOF/SD+OF	43

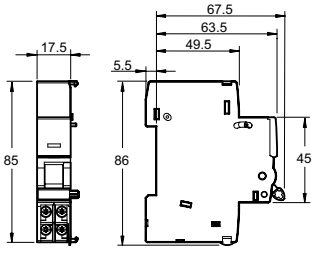
Dimensions (mm)



iOF/SD+OF



iOF, iSD



iMN, iMNx, iMSU, iMX, iMX+OF

RCA remote controls
For iC60 circuit breakers

PB106251-40

The RCA remote control system allows:
- Remote electrical control (opening and closing) of circuit breakers with or without Vigi add-on RCD, with or without auxiliary.
- Circuit-breaker resetting after tripping, in accordance with safety principles and the regulations in force.
- Local control by operating handle.
- Circuit placing in safety configuration by padlocking.

2 choices of operation after tripping:
- A: Enabling of remote circuit-breaker resetting;
- B: Inhibition of remote resetting.

Catalogue numbers

RCA remote control			
Type			**Width in 9 mm modules**
For circuit breakers 1P, 1P+N, 2P	**Voltage**		
	230 V AC, 50/60 Hz	**A9C70112**	7
For 3P, 4P circuit breakers			
	230 V AC, 50/60 Hz	**A9C70114**	7
Auxiliaries		**See page 21**	

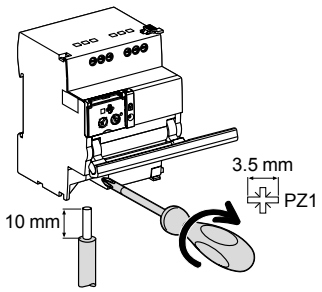
DB123813

DB123572

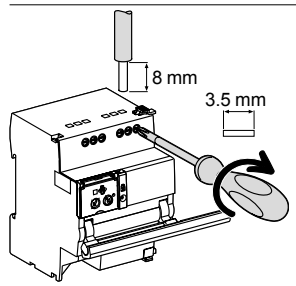
Legend		
Type		**Application**
OFF		All remote control inhibited
auto	**A**	Circuit breaker remote reclosing after tripping allowed
	B	Circuit breaker remote reclosing after tripping inhibited
Green indicator lamp		Remote control possible
Orange indicator lamp		Remote control impossible
Y1		Latched order local control
Y2		Impulse-type or latched order local control (depending on mode)
Y3		Latched order centralized control

Connection

DB123565



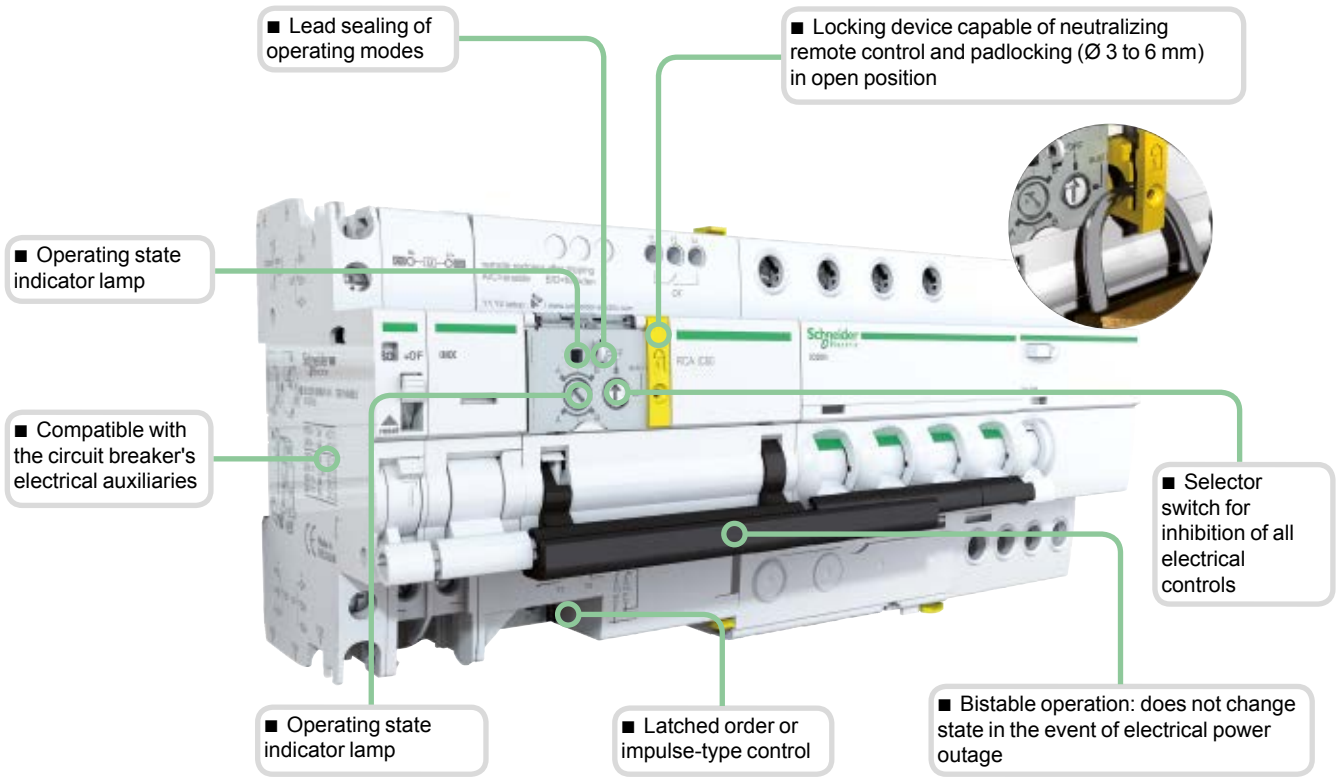
DB123568



		Without accessories		
Terminal	**Tightening torque**	**Copper cables**		
		Rigid	**Flexible**	**Flexible with ferrule**
		DB122945	DB123553	DB123554
Power supply (N/P) **Inputs (Y1/Y2)**	1 N.m	0.5 to 10 mm^2 2 x 0.5 to 2 x 2.5 mm^2	0.5 to 6 mm^2 2 x 0.5 to 2 x 2.5 mm^2	0.5 to 4 mm^2 2 x 0.5 to 2 x 2.5 mm^2
Outputs (OF)	0.7 N.m	0.5 to 2.5 mm^2 2 x 0.5 to 2 x 1.5 mm^2	0.5 to 2.5 mm^2 2 x 0.5 to 2 x 1.5 mm^2	0.5 to 1.5 mm^2 2 x 0.5 to 2 x 1.5 mm^2

RCA remote controls (cont.)
For iC60 circuit breakers

DB123576

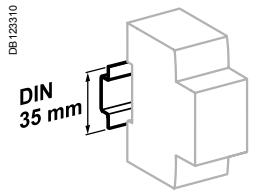


DB123578

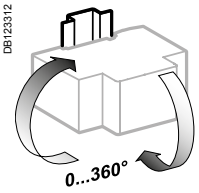
DB123579

Legend	
Type	**Application**
Y1	Latched order local control
Y2	Impulse-type or latched order local control (depending on mode)
N	230 V AC power supply
P	
OF  11 12 14	Circuit-breaker state indication contact (open/closed)

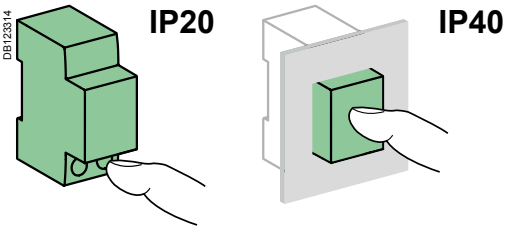
RCA remote controls (cont.)
For iC60 circuit breakers



Clip on DIN rail 35 mm.



Indifferent position of installation.



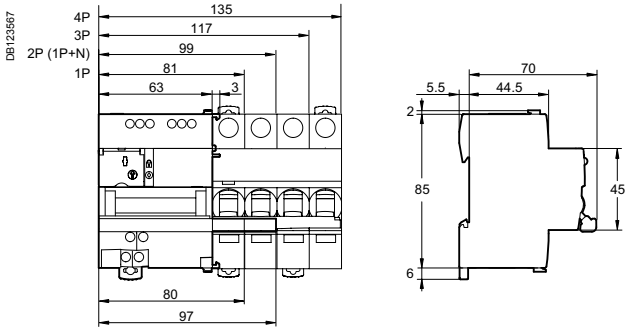
Technical data

Control circuit		
Supply voltage (Ue) (N/P)		230 V AC, 50/60 Hz
Control voltage (Uc)	Type 1 inputs (Y1/Y2)	230 V AC (as per IEC 61131-2)
Min. duration of control order (Y2)		≥ 200 ms
Response time (Y2)		< 500 ms
Consumption		≤ 1 W
Thermal self-protection with automatic Reset against overheating of the control circuit due to an abnormal number of operations		
Endurance (O-C) (RCA combined with a circuit breaker)		
Electrical/Mechanical		10,000 cycles
Indication / Remote control		
Potential free changeover contact output (OF)	Min.	24 V AC/DC, 10 mA
	Max.	230 V AC ,1 A
Input (Y1/Y2)	230 V AC	5 mA
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
	Device in a modular enclosure	IP40 Insulation class II
Insulation voltage (Ui)		400 V
Degree of pollution (IEC 60947)		3
Rated impulse withstand voltage (Uimp)		6 kV
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +70°C
Tropicalization		Treatment 2 (relative humidity of 93 % at +40°C)

Weight (g)

Remote controls	
Type	**RCA**
For 1P, 1P+N, 2P circuit breakers	400
For 3P, 3P+N, 4P circuit breakers	430

Dimensions (mm)



iID K residual current circuit breakers

DB116619 DB123430

Country approval pictograms

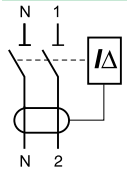
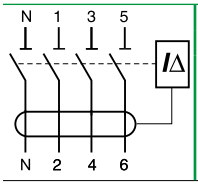
IEC/EN 61008-1

- The iID K residual current circuit breakers provide:
  - protection of persons against electric shock by direct contact
  - protection of persons against electric shock by indirect contact,
  - protection of installations against the risk of fire.

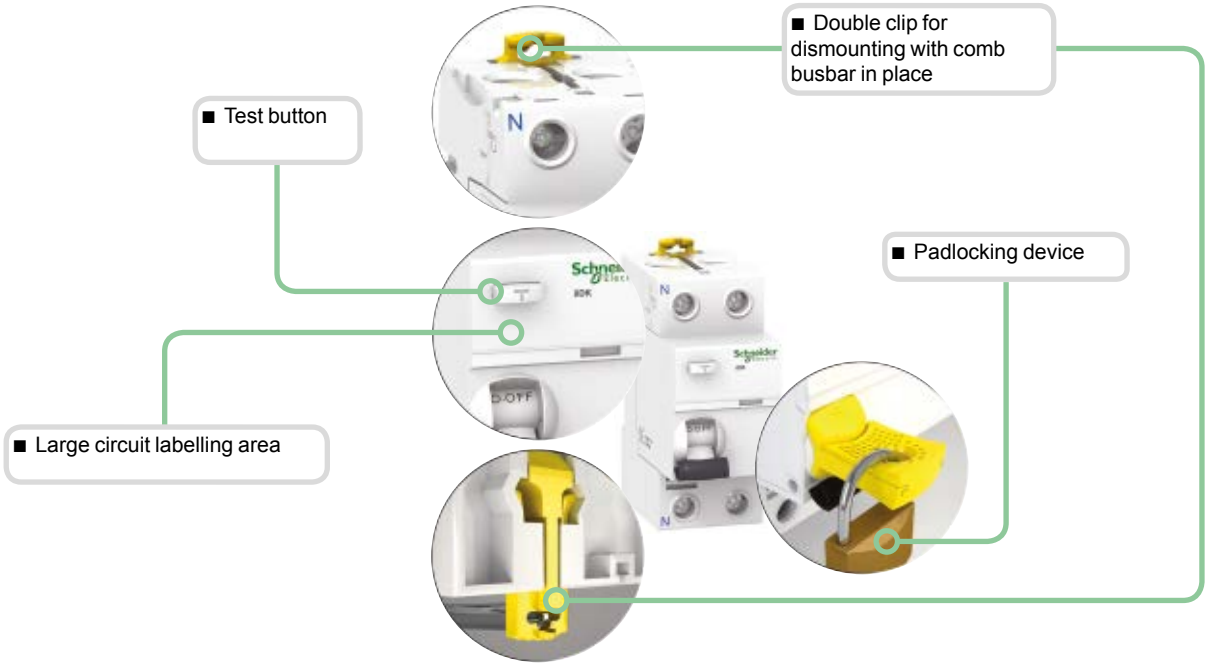
PB104497-40

PB104498-40

Catalogue numbers

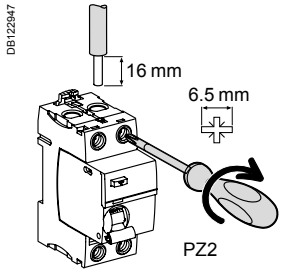
iID K residual current circuit breakers				
Type			**AC** ~	**Width in 9-mm modules**
Product			**iID K**	
Auxiliaries			**Without auxiliaries**	
2P		**Sensitivity**	**30 mA**	
DB122476 	Rating	25 A	**A9R50225**	4
		40 A	**A9R50240**	
4P		**Sensitivity**	**30 mA**	
DB122477 	Rating	25 A	**A9R50425**	8
		40 A	**A9R50440**	
		63 A	**A9R70463**	
Voltage rating (Ue)		2P	230 - 240 V	
		4P	400 - 415 V	
Operating frequency			50/60 Hz	

PB104497-40

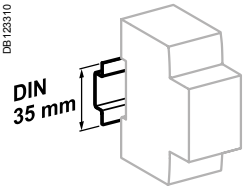


iID K residual current circuit breakers (cont.)

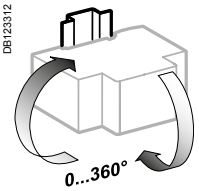
Connection



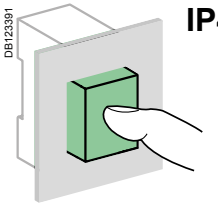
Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
		DB122945	DB122946
iID K	3.5 N.m	1 to 35 mm²	1 to 25 mm²



Clip on DIN rail 35 mm.



Indifferent position of installation.



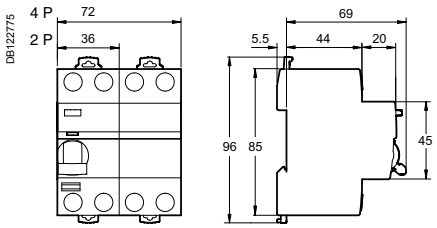
Technical data

Main characteristics		
According to IEC/EN 61008-1		
Insulation voltage (Ui)		440 V
Pollution degree		2
Rated impulse withstand voltage (Uimp)		4 kV
Making and breaking capacity (Im/IΔm)	25 to 40 A	500 A
	63 A	630 A
Surge current withstand (8/20 µs) without tripping		Up to 200 Â
Conditional rated short circuit current (Inc/IΔc)	With iC60N/H/L	6000 A
	With fuse 100 A	4500 A
Behaviour in case of voltage drop		Residual current protection down to 0 V according to IEC/EN 61008-1 § 3.3.4
Additional characteristics		
Degree of protection	Device in modular enclosure	IP40
Endurance (O-C)	Electrical	2000 cycles (AC1)
	Mechanical	5000 cycles
Operating temperature		-5°C to +60°C
Storage temperature		-40°C to +85°C

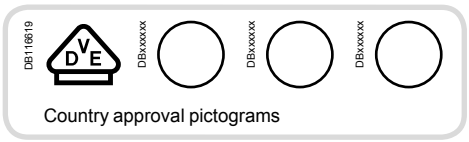
Weight (g)

Residual current circuit breakers	
Type	**iID K**
2P	210
4P	370

Dimensions (mm)



iK60N circuit breakers (curve C)



Country approval pictograms


PB104455-40

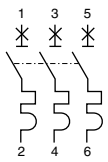

PB104461-40

IEC/EN 60898-1

- iK60N circuit breakers are circuit breakers which combine the following functions:
  - circuit protection against short-circuit currents,
  - circuit protection against overload currents,
  - disconnection, opening and closing.

iK60N circuit breaker 50/60 Hz		
Breaking capacity in short circuit (Icn) as per IEC/EN 60898-1		**Service breaking capacity (Ics)**
Ph/Ph	**400 V**	100 % of Icn
Ph/N	**230 V**	
Rating (In) 2 to 32 A	6000 A	

Catalogue numbers

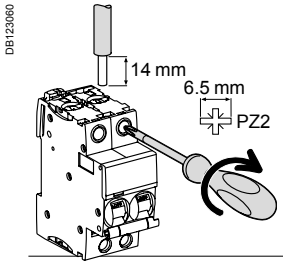
iK60N circuit breaker		
Type	**1P**	**3P**
	E45092 	E45095 
Auxiliaries	**Without auxiliaries**	
Vigi iC60	**Without Vigi iC60**	
Rating (In)	**Curve C**	
2 A	**A9K24102**	**-**
6 A	**A9K24106**	**-**
10 A	**A9K24110**	**-**
16 A	**A9K24116**	**-**
20 A	**-**	**A9K24320**
25 A	**-**	**A9K24325**
32 A	**-**	**A9K24332**
Operating frequency	50/60 Hz	50/60 Hz
Width in 9-mm modules	2	6
Accessories	**Padlocking device cat. no. A9A26970**	

PB104434-40

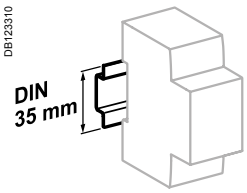
- Top or bottom electrical feeding.

iK60N circuit breakers (curve C) (cont.)

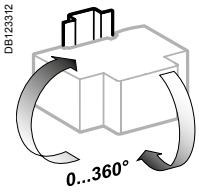
Connection



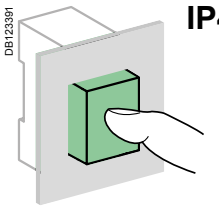
Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible or with ferrule
				
C curve	2 to 25 A	2 N.m	1 to 25 mm²	1 to 16 mm²
	32 A	3.5 N.m	1 to 35 mm²	1 to 25 mm²



Clip on DIN rail 35 mm.



Indifferent position of installation.



IP40

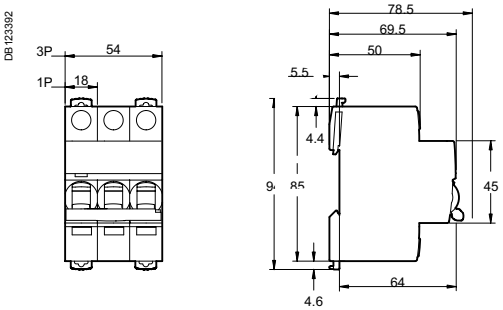
Technical data

Main characteristics		
According to IEC/EN 60898-1		
Insulation voltage (Ui)		440 V AC
Pollution degree		2
Rated impulse withstand voltage (Uimp)		4 kV
Thermal tripping	Reference temperature	30°C
	Temperature derating	See module CA908007
Magnetic tripping	C curve	5 to 10 In
Limitation class		3
Rated making and breaking capacity of an individual pole (Icn1)		Icn1 = Icn
Additional characteristics		
Degree of protection (IEC 60529)	Device in modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)		III
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +85°C

Weight (g)

Circuit-breaker	
Type	**iK60N**
1P	100
3P	300

Dimensions (mm)



C120H circuit breakers (curves C, D)

DB406142 DB123525
Country approval pictograms


PB107913-30


PB107916-30


PB107919-30


PB107922-30

IEC/EN 60898-1

C120H circuit breakers are multistandard circuit breakers that combine the following functions:
- circuit protection against short-circuit currents
- circuit protection against overload currents
- suitability for isolation in the industrial sector to IEC/EN 60947-2
- fault tripping and indication by adding auxiliaries.

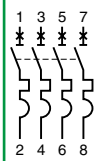
Alternating current (AC) 50/60 Hz						
Breaking capacity (Icu) to IEC/EN 60947-2						**Service breaking capacity (Ics)**
Type		**Voltage (V)**				
1P		**12 to 130 V**	**220 to 240 V**	**380 to 415 V**	**440 V**	
Rating (In)	80 to 125 A	30 kA	15 kA	4,5 kA (1)	-	50 % of Icu
2P, 3P, 4P		**12 to 130 V**	**220 to 240 V**	**380 to 415 V**	**440 V**	
	80 to 125 A	-	30 kA	15 kA	10 kA	50 % of Icu
Breaking capacity (Icn) to IEC/EN 60898-1						
Type		**Voltage (V)**				
1P, 2P, 3P, 4P		**230 to 400 V**				
Rating (In)	80 to 125 A	15000 A				50 % of Icn

(1) One-pole breaking capacity in IT isolated neutral system (double fault).

Direct current (DC)						
Breaking capacity (Icu) according to IEC/EN 60947-2						**Service breaking capacity (Ics)**
	Voltage (Ue)					
Between +/-	**12 to 125 V**	**⩽ 144 V**	**⩽ 250 V**	**⩽ 375 V**	**⩽ 500 V**	
Number of poles	**1P**		**2P**	**3P**	**4P**	
Rating (In) 80 to 125 A	20 kA	15 kA	15 kA	15 kA	15 kA	100 % of Icu

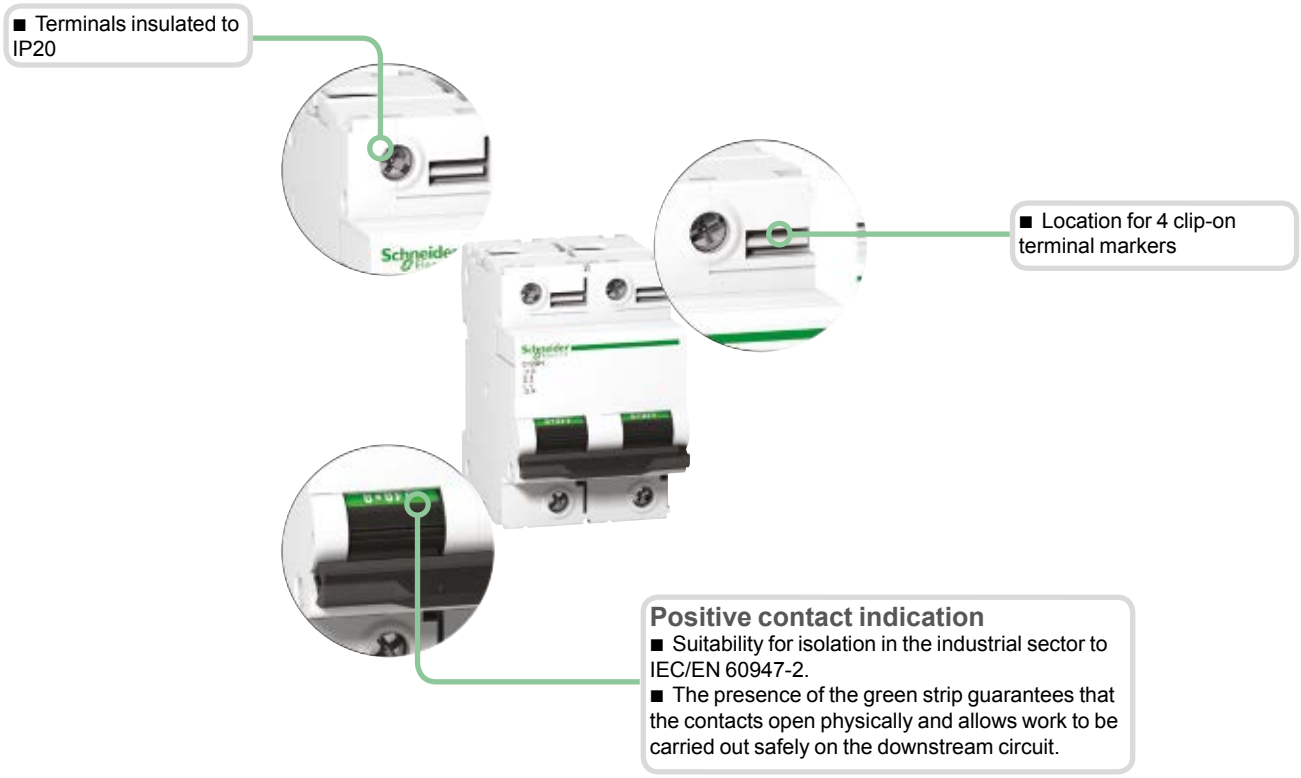
Catalogue numbers

C120H circuit breaker

Type	1P		2P		3P		4P	
	 E27969		 E27970		 E27971		 E27972	
Auxiliaries	**See page 41**							
Vigi C120	**See page 36**							
Rating (In)	**Curve**		**Curve**		**Curve**		**Curve**	
	C	**D**	**C**	**D**	**C**	**D**	**C**	**D**
80 A	**A9N18446**	**A9N18490**	**A9N18457**	**A9N18501**	**A9N18468**	**A9N18512**	**A9N18479**	**A9N18523**
100 A	**A9N18447**	**A9N18491**	**A9N18458**	**A9N18502**	**A9N18469**	**A9N18513**	**A9N18480**	**A9N18524**
125 A	**A9N18448**	**A9N18492**	**A9N18459**	**A9N18503**	**A9N18470**	**A9N18514**	**A9N18481**	**A9N18525**
Width in 9 mm modules	3		6		9		12	
Accessories	**See page 100**							

C120H circuit breakers (curves C, D) (cont.)

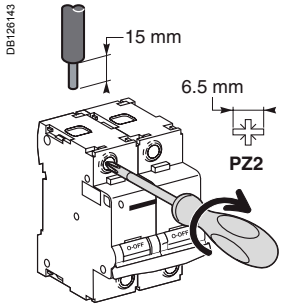
PB107916-40



■ Longer product service life thanks to:
□ good overvoltage withstand capacity: products designed to provide a high industrial performance level (degree of pollution, rated impulse withstand voltage and insulation voltage).
□ high limitation performances (see limitation curves).
□ fast closure independent of toggle operating speed.
■ Remote indication of the open/closed/tripped state by auxiliary contacts (optional).
■ Power supply from above or below.

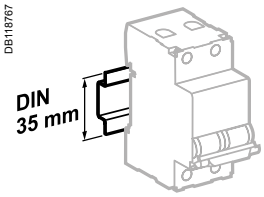
C120H circuit breakers (curves C, D) (cont.)

Connection

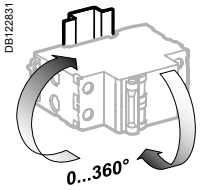


Rating	Tightening torque	Without access. Copper cables Rigid	Without access. Copper cables Flexible or with ferrule	With accessories 50 mm² Al term.	With accessories Screw-on connection for ring terminal (1)	With accessories Multi-cable terminal Rigid cables	With accessories Multi-cable terminal Flexible cables
		DB122945 DB122946	DB122935	Al DB118789	Ø DB118787		
80 to 125 A	3.5 N.m	1.5 to 50 mm²	1.5 to 35 mm²	16 to 50 mm²	Ø 5 mm	3 x 16 mm²	3 x 10 mm²

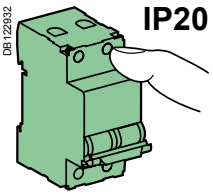
(1) For lugs up to 80 A, front or rear accessories.

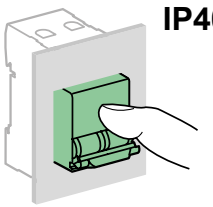


Clips onto 35 mm DIN rail.



Any installation position.





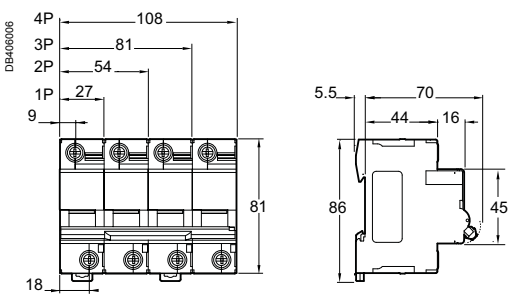
Technical data

Main characteristics		
To IEC/EN 60947-2		
Insulation voltage (Ui)		500 V AC
Degree of pollution		3
Rated impulse withstand voltage (Uimp)		6 kV
Thermal tripping	Reference temperature	50°C
To IEC/EN 60898-1		
Magnetic tripping	Curve C	5 and 10 In
	Curve D	10 and 14 In
Limitation class		3
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
	Device in a modular enclosure	IP40 (IPXXD)
Endurance (O-C)	Electrical	5000 cycles (O-C)
	Mechanical	20000 cycles
Operating temperature		-30°C to +70°C
Storage temperature		-40°C to +80°C
Tropicalisation (IEC 60068-1)		Treatment 2 (relative humidity 95% at 55°C)

Weight (g)

Circuit breaker	
Type	**C120H**
1P	205
2P	410
3P	615
4P	820

Dimensions (mm)



Vigi C120 add-on residual current devices (type AC)

DB123430

Country approval pictograms

PB107924-30

2P

PB107925-30

3P

PB107926-30

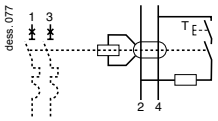
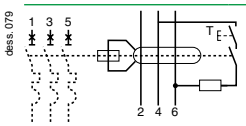
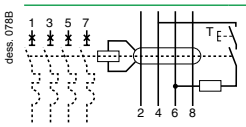
4P

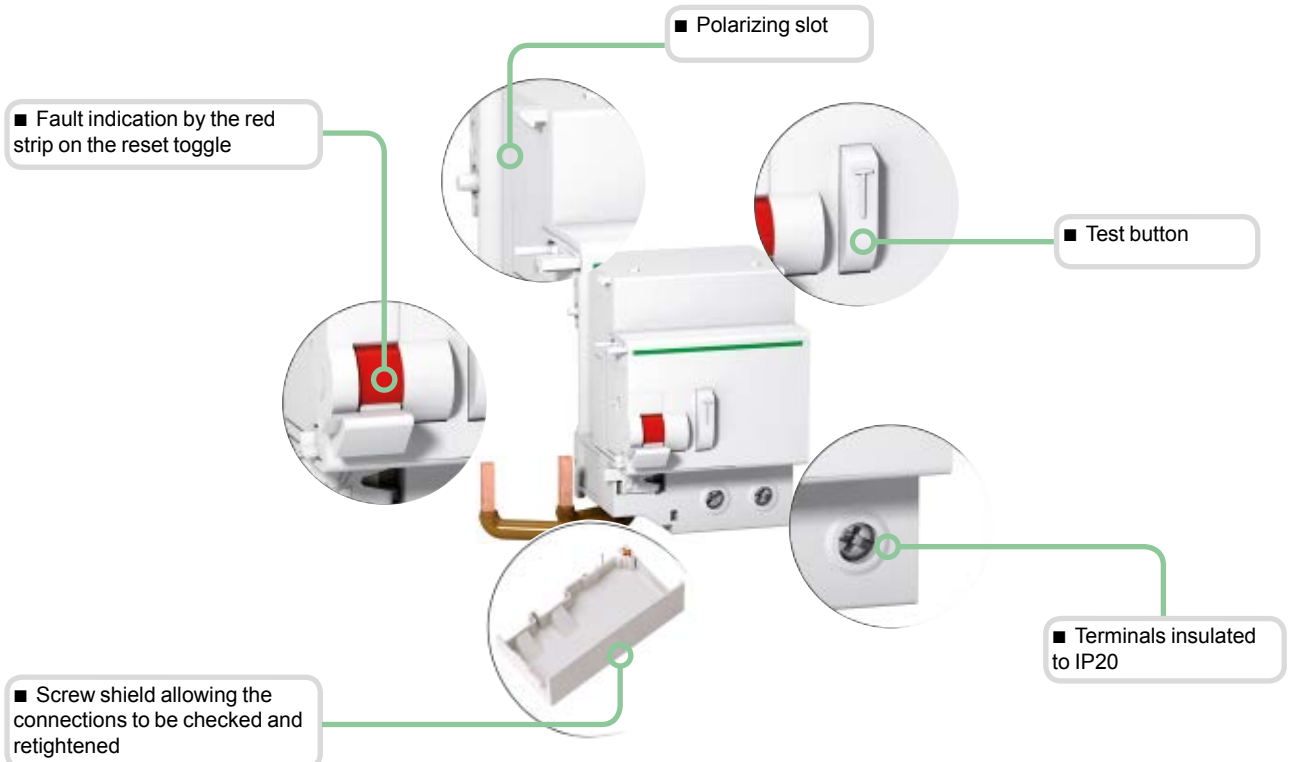
EN 61009

When a Vigi C120 device is combined with a C120 circuit breaker, it provides the following functions:
- protection of persons against electric shock by direct contact (30 mA),
- protection of persons against electric shock by indirect contact (300 mA),
- protection of installations against fire hazards (300 mA).

Catalogue numbers

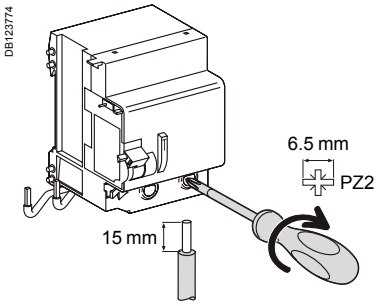
Vigi C120 add-on residual current devices

Type	AC ~			Width in 9 mm modules
Product	Vigi C120			
Auxiliaries	Without auxiliary			
2P Sensitivity	30 mA	300 mA	300 mA S	
dess. 077 	A9N18563	A9N18564	-	7
3P Sensitivity	30 mA	300 mA		
dess. 079 	A9N18566	A9N18567	-	10
4P Sensitivity	30 mA	300 mA		
dess. 078B 	A9N18569	A9N18570	A9N18548	10
Operating voltage (Ue)	230...415 V			
Operating frequency	50/60 Hz			
Accessories	See page 100			

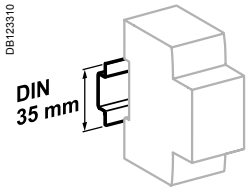


Vigi C120 add-on residual current devices (types AC)

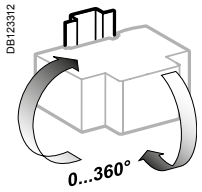
Connection



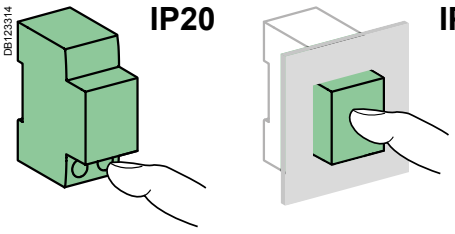
Type	Sensitivity	Tightening torque	Copper cables	
			Rigid	Flexible or with ferrule
		DB122945	DB122946	
Vigi C120	30...300 mA	3.5 N.m	1 to 50 mm²	1 to 35 mm²



Clips onto 35 mm DIN rail.



Any installation position.



Technical data

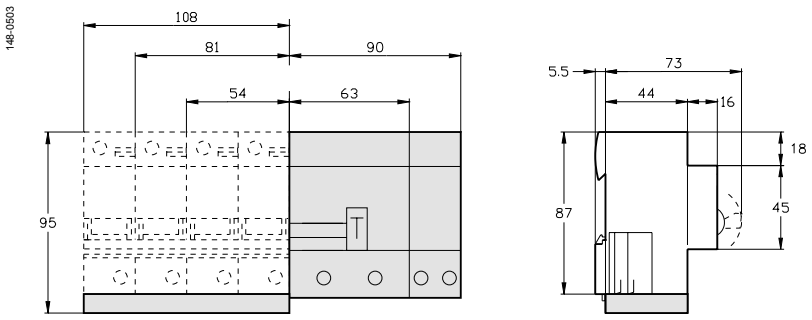
Main characteristics		
To IEC 60947-2		
Insulation voltage (Ui)		500 V AC
Degree of pollution		3
Rated impulse withstand voltage (Uimp)		6 kV
To EN 61009		
Impulse current withstand (8/20 µs) without tripping	Type AC (non-selective Ⓢ)	250 Â
	Type AC (selective Ⓢ)	3 kÂ
Additional characteristics		
Degree of protection	Device only	IP20
	Device in a modular enclosure	IP40 Insulation class II
Operating temperature	Type AC	-5 °C to +60 °C
	Types A and *SI*	-25 °C to +60 °C
Storage temperature		-40 °C to +85 °C

Weight (g)

Add-on residual current devices	
Type	**Vigi C120**
2P	325
3P	500
4P	580

Dimensions (mm)

C120 + Vigi C120



C60H-DC
C curve

DB123430 DB123525 DB405571

Country approval pictograms

IEC 60947-2

PB107193-34.eps

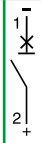
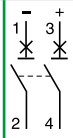
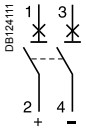
PB107194-34.eps

The C60H-DC supplementary protectors are used in direct current circuits (Industrial control and automations, transport, renewable energy...).
They combine the following functions of circuit protection against short-circuit and overload currents, control and isolation.

CE

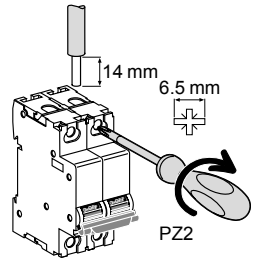
Direct current (DC)						
Breaking capacity (Icu) according to IEC 60947-2						Rated service breaking capacity (Ics)
Type						
1P	110 V	220 V	250 V	440 V	500 V	
Rating (In) 0.5 to 63 A	20 kA	10 kA	6 kA	-	-	75 % Icu
2P (in series)	110 V	220 V	250 V	440 V	500 V	
0.5 to 63 A	-	20 kA	20 kA	10 kA	6 kA	75 % Icu

Catalogue numbers

C60H-DC		
Type	1P	2P
	DB116588  Supply from above or below, observing the polarity	DB124110  Supply from above DB124111  Supply from below
Auxiliaries	See page 41	
Rating (In)	Curve C	Curve C
0.5 A	A9N61500	A9N61520
1 A	A9N61501	A9N61521
2 A	A9N61502	A9N61522
3 A	A9N61503	A9N61523
4 A	A9N61504	A9N61524
5 A	A9N61505	A9N61525
6 A	A9N61506	A9N61526
10 A	A9N61508	A9N61528
13 A	A9N61509	A9N61529
15 A	A9N61510	A9N61530
16 A	A9N61511	A9N61531
20 A	A9N61512	A9N61532
25 A	A9N61513	A9N61533
30 A	A9N61514	A9N61534
32 A	A9N61515	A9N61535
40 A	A9N61517	A9N61537
50 A	A9N61518	A9N61538
63 A	A9N61519	A9N61539
Number of modules of 9 mm	2	4
Accessories	See page 100	

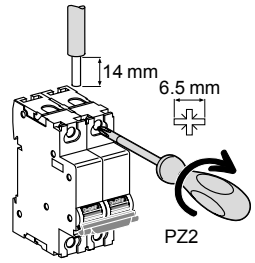
C60H-DC (cont.)
C curve

Connection

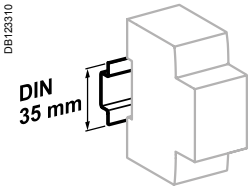


Rating	Tightening torque	Without accessory: Copper cables – Rigid / Stranded	Without accessory: Copper cables – Flexible or with ferrule	With accessories: 50 mm² Al terminal	With accessories: Screw-on connection for ring terminal	With accessories: Multi-cables terminal – Rigid cables	With accessories: Multi-cables terminal – Flexible cables
		DB122945	DB122946	DB122935 Al	DB118789 Ø	DB118787	
≤ 25 A	2.5 N.m	1 to 25 mm²	1 to 16 mm²	-	Ø 5 mm	-	-
> 25 A	3.5 N.m	1 to 35 mm²	1 to 25 mm²	50 mm²		3 x 16 mm²	3 x 10 mm²

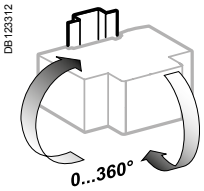
Multi-cables connection



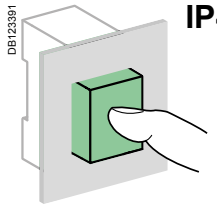
Rating	Tightening torque	Without accessory: 2 Copper cables – Rigid / Stranded	Without accessory: 2 Copper cables – Flexible or with ferrule	3 Multi-cables / Different wires: Flexible / Stranded	3 Multi-cables / Different wires: Flexible / Stranded / Rigid
		DB122945	DB122946	DB118787	
≤ 25 A	2.5 N.m	2 x 1 mm² to 2 x 10 mm²		3 x 1 mm²	2 x 2.5 mm² + 1 x 1.5 mm²
> 25 A	3.5 N.m	2 x 1 mm² to 2 x 16 mm²		3 x 4 mm²	2 x 10 mm² + 1 x 6 mm²



Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical data

- Tripping curves: C curve - Overcurrent protection for any type of application.
- Positive break indication - the green strip indicates that all the poles are open and allows work to be carried out on the downstream circuit in complete safety.
- Suitable for isolation as defined in IEC 60947-2.
- Increase in the service life of the product: thanks to fast closure independent of the speed of action on the handle.
- Current limitation in the event of a fault: fast opening of the contacts prevents the loads from being destroyed in the event of a short-circuit.

Main characteristics		
According to IEC 60947-2		
Insulation voltage (Ui)		500 V DC
Rated voltage (Un)	1P	250 V DC
	2P	500 V DC
Operating voltage (Ue)	1P	24...250 V DC
	2P	24...500 V DC
Pollution degree		3
Rated impulse withstand voltage (Uimp) under frame		6 kV
Magnetic tripping (Ii)		8.5 In (± 20 %) (compatible with curve C)
Additional characteristics		
Degree of protection (IEC 60529)	Device in modular enclosure	IP40
Utilization category		A (no delay in accordance with IEC 60947-2 standards)
Endurance (O-C)	Electrical	3,000 cycles (where L/R=2 ms)
		6,000 cycles where the circuit is resistive
	Mechanical	20,000 cycles
Tropicalization (IEC 60068-2)		Treatment 2 (relative humidity 95 % at 55°C
Operating temperature		-25°C to 70°C
Storage temperature		-40°C to 85°C

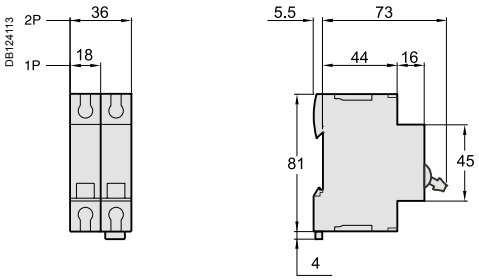
Failure to match polarity during connection may lead to a fire hazard and/or serious injury.
■ The connection polarity must be observed (marked on the front panel).
■ Use only with direct current.

C60H-DC (cont.)
C curve

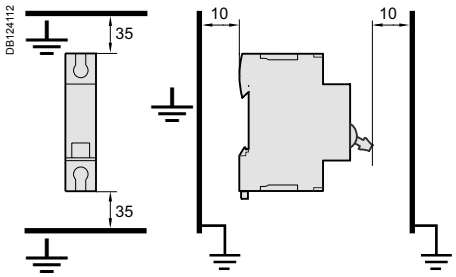
Weight (g)

Circuit-breaker	
Type	**C60H-DC**
1P	128 g
2P	256 g

Dimensions (mm)



C60H-DC



Details of minimum distance between circuit-breaker and earthed metal parts for circuit-breaker intended for use without enclosure.

Electrical auxiliaries for C120, C60H-DC, DPN N Vigi

■ The electrical auxiliaries provide the remote tripping or position (open/closed/tripped) indication functions of these devices in the event of a fault.
■ They clip on (no tool required) to the left-hand side of the associated device.
■ The OF+SD/OF auxiliary is a two-in-one product: a mechanical selector switch is used to select one of two contacts: OF+SD or OF+OF..

Tripping auxiliaries

IEC/EN 60947-1

■ MN: undervoltage release
■ MX: shunt release
■ MX+OF: shunt release with open/closed contact.

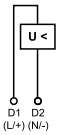
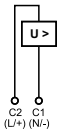
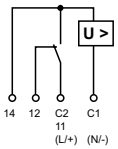
Indication auxiliaries

IEC/EN 60947-5-1

■ OF: open/closed contact
■ SD: fault indicating contact
■ OF+SD/OF: choice of open/closed contact and OF or SD contact via the selector switch.

Electrical auxiliaries for C120, C60H-DC, DPN N Vigi (cont.)

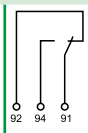
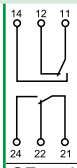
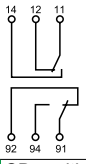
Tripping

Auxiliaries	MN	MX	MX+OF
Type	**Undervoltage release**	**Shunt release**	
	Instantaneous		With Open/Close auxiliary contact
	PB107151-30 	PB107150-30 	PB107148-30 
Function			
	■ Causes the device with which it is associated to trip when its input voltage decreases (between 70 % and 35 % of Un). Prevents the device from closing until its input voltage has been restored	■ Trips the associated device when it is powered on	
			■ Includes an open/close contact (OF) to indicate the "open" or "closed" position of the breaker
Wiring diagrams			
	DB118804 	DB408947 	DB118806 
Utilization			
	■ Emergency stop via a normally-closed pushbutton ■ Ensures the safety of the power supply circuits of several machines by preventing accidental startups	■ Emergency stop via a normally-open pushbutton.	■ Emergency stop via a normally-open pushbutton ■ Remote indication of the position of the associated device
Catalogue numbers	**A9N26960**	**A9N26476**	**A9N26946**

Technical specifications				
Rated voltage (Ue)	V AC	220…240	100…415	100…415
	V DC	–	110…130	110…130
Operating frequency	Hz	50/60	50/60	50/60
Mechanical state indicator light, red		On front face	On front face	On front face
Width in 9 mm modules		2	2	2
Operating current		–	–	10 mA mini, 6 A maxi ≤ 24 V DC 48 V DC ≤ 130 V DC ≤ 240 V AC 415 V AC
Number of contacts		–	–	1 NO/NC
Operating temperature	°C	-25…+50	-25…+50	-25…+50
Storage temperature	°C	-40…+85	-40…+85	-40…+85
Standards				
IEC/EN 60947-1		■	■	■
EN 60947-2		■	–	–

Electrical auxiliaries for C120, C60H-DC, DPN N Vigi (cont.)

Indication

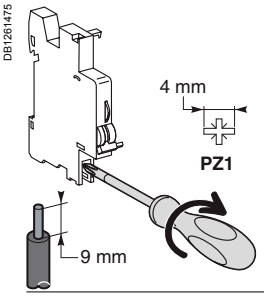
Auxiliaries	OF	SD	OF+SD/OF
Type	**Open/closed auxiliary contact**	**Fault indicating contact**	**Double open/closed or fault indicating contact**
	PB107145-30 	PB107146-30 	PB100625_SE-30-b 
Function			
	■ Changeover contact indicating the "open" or "closed" position of the associated device	■ Changeover contact indicating the position of the associated device in the event of: □ electrical fault □ action on the tripping auxiliary ⚠ **Not compatible with a ID residual current circuit breaker, use an OF+SD/OF in the SD position**	■ The OF+SD/OF auxiliary is a two-in-one product: choice of OF + SD or OF + OF contact via the selector switch
Wiring diagrams			
	DB118810 	DB118811 	DB118812  OF position DB118813  SD position
Utilization			
	■ Remote indication of the position of the associated device	■ Remote fault tripping indication of the associated device	■ Remote position and/or fault tripping indication of the associated device
Catalogue numbers	**A9N26924**	**A9N26927**	**A9N26929**

Technical specifications				
Rated voltage (Ue)	V AC	24…415	24…415	24…415
	V DC	24…130	24…130	24…130
Operating frequency	Hz	50/60	50/60	50/60
Mechanical state indicator		–	On front face	On front face
Test function		On front face	On front face	On front face
Width in 9 mm modules		1	1	1
Operating current		10 mA mini, 6 A maxi		
		24 V DC	6 A	
		48 V DC	2 A	
		60 V DC	1.5 A	
		130 V DC	1 A	
		24...240 V AC	6 A	
		415 V AC	3 A	
Number of contacts		1 NO/NC	1 NO/NC	1 NO/NC + 1 NO/NC
Operating temperature	°C	-25…+50	-25…+50	-25…+50
Storage temperature	°C	-40…+85	-40…+85	-40…+85
Standards				
IEC/EN 60947-5-1		■	■	■
EN 62019-2(1)		■	■	■

(1) For C120.

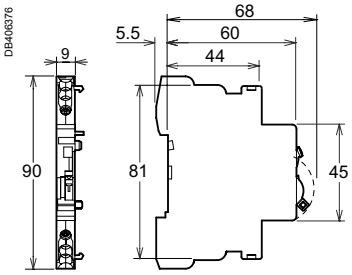
Electrical auxiliaries for C120, C60H-DC, DPN N Vigi (cont.)

Connection

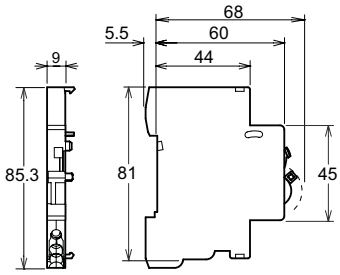


Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
			
Indication and tripping auxiliaries	1 N.m	0.5 to 2.5 mm²	2 x 1.5 mm²

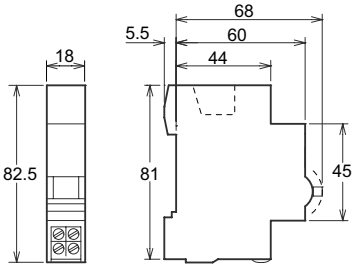
Dimensions



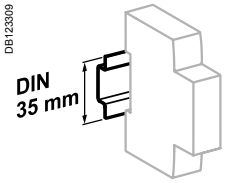
OF+SD/OF



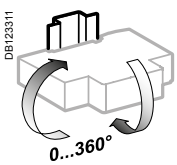
OF, SD



MX, MN, MX+OF



Clip on DIN rail 35 mm.



Indifferent position of installation.

Weight (g)

Electrical auxiliaries	
Type	
MN	66
MX	60
MX+OF	65
OF	30
SD	30
OF+SD/OF	38

iPRF1 12.5r/PRD1 25r
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 TN-S and TN-C earthing connection systems (neutral point connection).
iPRF1 12.5r and PRD1 25r surge arresters are fitted with a remote transfer contact to send "end-of-life indication" information.
PRD1 25r surge arresters are fitted with easy-to-replace withdrawable cartridges.

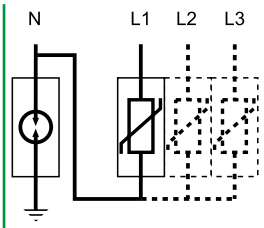
iPRF1 12.5r/PRD1 25r

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.

PB104275-35-b

iPRF1 12.5r (3P+N)

DB119038



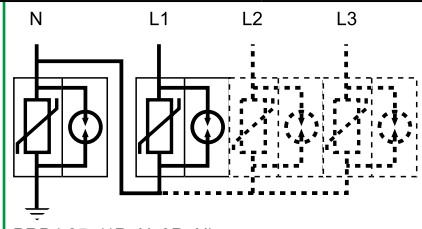
iPRF1 12.5r (1P+N, 3P+N)

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

PB104260-35

PRD1 25r (3P+N)

DB119036



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

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

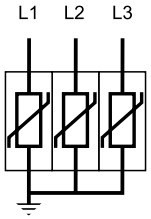
iPRF1 12.5r/PRD1 25r
Type 1 and 2 LV surge arresters (cont.)

PB104268-30

C1 Neutral-350

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

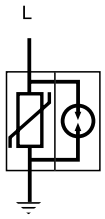
DB118911



iPRF1 12.5r (3P)

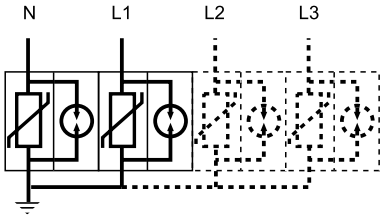
		Earthing system
	3P	
		TN-S
	A9L16633	TN-C

DB122527



PRD1 25r (1P)

DB122527



PRD1 25r (2P, 3P, 4P)

	1P	**2P**	**3P**	**4P**	
					TN-S
	16329	2 x **16329**	**16331**	4 x **16329**	TN-C

iPRF1 12.5r/PRD1 25r
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) Maximum discharge current	In - kA Nominal discharge current	Up - kV Voltage protection level	Un - (V) Rated voltage network	Uc - V Maximum continious operating voltage	Cat. no.
Fixed surge arrester		**9 mm modules**						(L-N)/(N-PE)	
iPRF1 12.5r	**Type** 1 + 2								
	1P+N	4	12.5 (L-N)/50 (N-PE)	50	25	≤ 1.5	230	350/255	**A9L16632**
	3P	8	12.5	50	25	≤ 1.5	230/400	350	**A9L16633**
	3P+N	8	12.5 (L-N)/50 (N-PE)	50	25	≤ 1.5	230/400	350/255	**A9L16634**
Withdrawable surge arrester									
PRD1 25r	**Type** 1 + 2								
	1P	4	25	40	25	≤ 1.5	230	350	**16329**
	1P+N	8	25 (L-N)/100 (N-PE)	40	25	≤ 1.5	230	350/350	**16330**
	3P	12	25	40	25	≤ 1.5	230/400	350	**16331**
	3P+N	16	25 (L-N)/100 (N-PE)	40	25	≤ 1.5	230/400	350/350	**16332**
Spare cartridge									
C1 25-350	-	23 mm	-	-	25	≤ 1.5	-	350	**16315**
C2 40-350	-	12 mm	-	-	20	≤ 1.5	-	350	**16316**
C1 Neutral-350	-	4	-	-	-	-	-	350	**16317**

Technical data

		iPRF1 12.5r	PRD1 25r
Operating frequency		50 Hz	50 Hz
Degree of protection	Front panel	IP40	IP40
	Terminals	IP20	IP20
	Impacts	IK05	IK05
Response time		≤ 25 ns	≤ 25 ns
Short circuit withstand (Isccr)		50 kA	25 kA
Temporary overvoltage withstand (U_T)	U_T (L-N)	335 V AC/5 s	415 V AC/5 s
	U_T (N-PE)	1200 V AC/200 ms	1200 V AC/200 ms
Temporary overvoltage **Safe failure mode** (U_T)	U_T (L-N)	440 V AC/120 min	440 V AC/120 min
Ground residual current (I_{PE})	I_{PE} (N-PE)	0.004 mA	≤ 0.01 mA for 1P+N, 3P+N
Follow current interrupting rating (I_{fi})	I_{fi} (L-N)	-	25 kA/264 V AC 3 kA/350 V AC
	I_{fi} (N-PE)	100 A	100 A
End-of-life indication		Green: correct operation	White: correct operation
		Red: at end of life	Red: at end of life
	Remote notification	1.5 A/250 V AC	1 A/250 V AC ≤ 1 A/30 V DC
By tunnel terminal	Rigid cable	10...35 mm²	10...35 mm²
	Flexible cable	10...25 mm²	10...25 mm²
Operating temperature		-25°C to +60°C	-40°C to +80°C
Humidity range		5 % to 95 %	5 % to 95 %
Standards		IEC 61643-11: 2011 T1, T2 EN 61643-11: 2012 Type 1 + Type 2	IEC 61643-11: 2011 T1, T2 EN 61643-11: 2012 Type 1 + Type 2
Approvals		CE, EAC	CE, KEMA-KEUR

Choice of disconnector / surge arrester

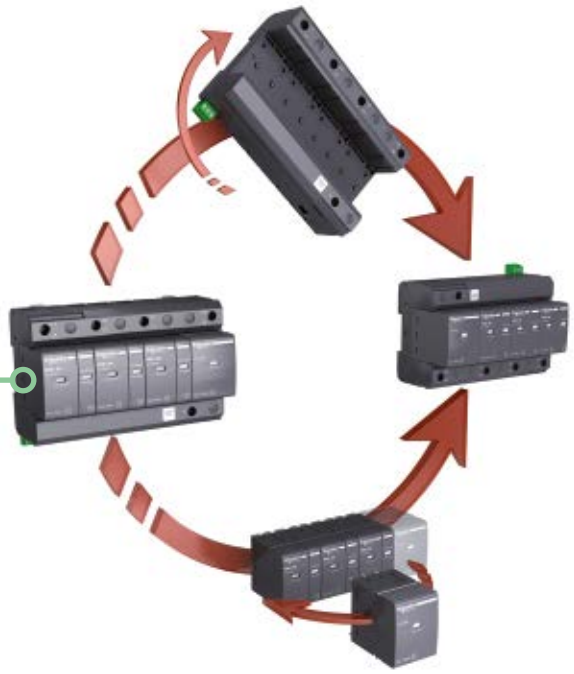
Type	I imp: impulse current	Isc: prospective short-circuit current at the installation point				
		10 kA	15 kA	25 kA	36 kA	50 kA
iPRF1 12.5r	12.5 kA	C120N 80 A curve C or Compact NSX100B 100 A *	C120H 80 A curve C or Compact NSX100B 100 A *	Compact NSX100B 100 A *	Compact NSX100F 100 A *	Compact NSX100N 100 A *
PRD1 25r	25 kA	Compact NSX100B 100 A			-	

(*) For lightning impulse current withstand

iPRF1 12.5r/PRD1 25r
Type 1 and 2 LV surge arresters (cont.)

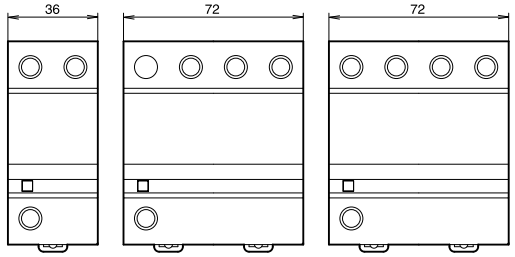
PB113739-90

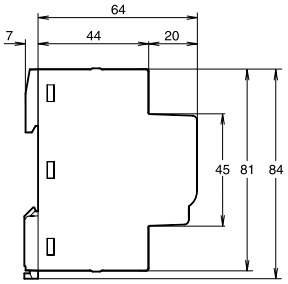
PRD1 25r Reversible
■ The surge arrester base can be turned over to allow the phase/neutral/earth cables to enter through either the top or the bottom



Dimensions (mm)

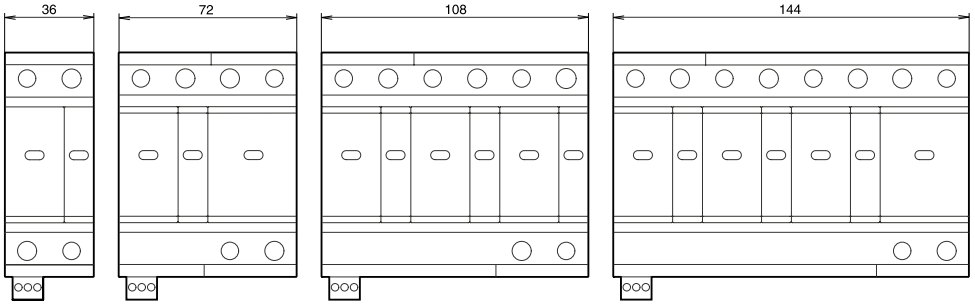
DB123928



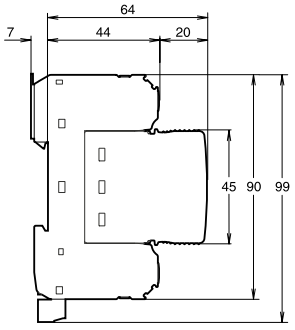


iPRF1 12.5r

DB123930



PRD1 25r



Weight (g)

Surge arresters			
Type		**iPRF1 12,5r**	**PRD1 25r**
1P		-	334
1P+N		290	725
3P		590	1010
3P+N		590	1338
Cartridge	Neutral	-	229
	Phase	-	-

iPRD surge arresters
Type 2 or 3 LV withdrawable surge arresters

DB123854 DB106604 DB406142

Country approval pictograms

iPRD withdrawable surge arresters allow quick replacement of damaged cartridges.
Type 2 surge arresters are tested with a 8/20 µs current wave.
Type 3 surge arresters are tested with a 1.2/50 µs and 8/20 µs combined wave.

Each surge arrester in the range has a specific application:
■ **incoming protection (type 2):**
□ the iPRD65r is recommended for a very high risk level (strongly exposed site)
□ the iPRD40(r) is recommended for a high risk level
■ **secondary protection (type 2 or 3):**
□ the iPRD8(r) ensures secondary protection of loads to be protected and is placed in cascade with the incoming surge arresters. This surge arrester is required when the loads to be protected are at a distance of more than 10 m from the incoming surge arrester.

The iPRD surge arresters with “r” indication have remote transfer of the information: “cartridge to be replaced”.

PB110274-35

2P

PB110281-35

3P+N

Catalogue number iPRD surge arresters

Rated discharge current (Imax)	Nominal discharge current (In)	Type of protection		Network			
				DB122942 N L1 L2 L3		DB122943 N L1 L2 L3	
		Incoming	Secondary	1P+N	3P+N	1P	3P
iPRD65							
65 kA Very high risk level (strongly exposed site)	20 kA	iPRD65				A9L65101	
				A9L65501			
							A9L65301
					A9L65601		
iPRD40							
40 kA High risk level	15 kA	iPRD40				A9L40101	
				A9L40500			
							A9L40301
					A9L40601		
iPRD8							
8 kA Secondary protection: placed near the loads to be protected when they are at a distance of more than 10 m from the incoming surge arrester	2.5 kA		iPRD8			A9L08100	
				A9L08501			
							A9L08300
					A9L08601		

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

Cartridge

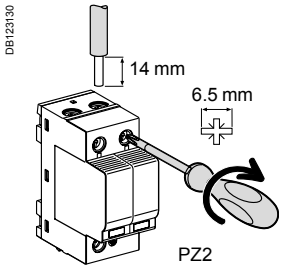
Spare cartridges iPRD		
Type	**Spare cartridges for**	**Cat. no**
iPRD 65-350	iPRD65r	**A9L65102**
iPRD 40-350	iPRD40, iPRD40r	**A9L40102**
iPRD 8-350	iPRD8, iPRD8r	**A9L08102**
iPRD Neutral	All products (1P+N, 3P+N)	**A9L00002**

	Earthing system	Transfer	Surge arrester name	Width in mod. of 9 mm	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
			iPRD65								
A9L65101	TN	■	iPRD65r 1P	2	⩽ 1.5	-	-	230	350	-	-
A9L65501	TN-S	■	iPRD65r 1P+N	4	-	⩽ 1.4	⩽ 1.5		-	260	350
A9L65301	TN-C	■	iPRD65r 3P	6	⩽ 1.5	-	-	230/400	350	-	-
A9L65601	TN-S	■	iPRD65r 3P+N	8	-	⩽ 1.4	⩽ 1.5		-	260	350
			iPRD40								
A9L40101	TN	■	iPRD40r 1P	2	⩽ 1.6	-	-	230	350	-	-
A9L40500	TN-S		iPRD40 1P+N		-	⩽ 1.4	⩽ 1.6		-	260	350
A9L40301	TN-C	■	iPRD40r 3P	6	⩽ 1.6	-	-	230/400	350	-	-
A9L40601	TN-S	■	iPRD40r 3P+N	8	-	⩽ 1.4	⩽ 1.6		-	260	350
			iPRD8 (1)		**Type 2 / Type 3 (1)**						
A9L08100	TN		iPRD8 1P	2	⩽ 1.2	-	-	230	350	-	-
A9L08501	TN-S	■	iPRD8r 1P+N	4	-	⩽ 1.4	⩽ 1.2		-	260	350
A9L08300	TN-C		iPRD8 3P	6	⩽ 1.2	-	-	230/400	350	-	-
A9L08601	TN-S	■	iPRD8r 3P+N	8	-	⩽ 1.4	⩽ 1.2		-	260	350

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

iPRD surge arresters
Type 2 or 3 LV withdrawable surge arresters

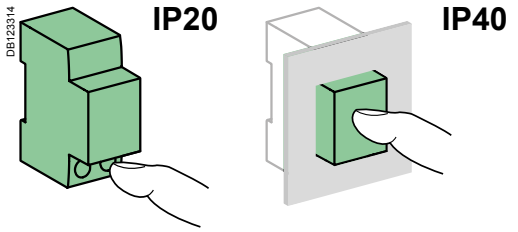
Connection iPRD surge arresters



Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
			
iPRD	3.5 N.m	2.5 to 25 mm²	4 to 16 mm²

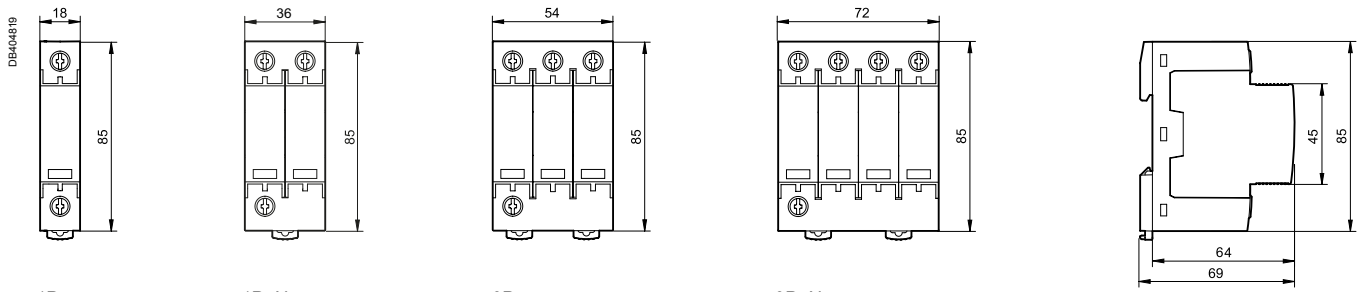
Technical data iPRD surge arresters

Main characteristics		iPRD	iPRD IT
Operating frequency		50/60 Hz	
Operating voltage (Ue)		230/400 V AC ±10 %	
Permanent operating current (Ic)		< 1 mA	
Response time		< 25 ns	
Short circuit current rating (Isccr)		50 kA (50 Hz)	-
Short circuit current rating (Isccr), case of double fault		-	5 kA (50 Hz)
Temporary overvoltage withstand (U_T)	U_T (L-N)	337 V AC / 5 s	337 V AC / 5 s
	U_T (L-PE)	442 V AC / 120 min	-
Temporary overvoltage **Safe failure mode** (U_T)	U_T (N-PE)	1200 V AC / 200 ms	1455 V AC / 200 ms
	U_T (L-PE)	1455 V AC / 200 ms	1455 V AC / 200 ms
Ground residual current (I_{PE})	I_{PE} (L-PE)	600 µA for 1P, 3P	
	I_{PE} (N-PE)	3 µA for 1P+N, 3P+N	-
Satisfactory operation indication: by mechanical indicator	White	In operation	
	Red	Cartridge must be replaced	
Remote indication of satisfactory operation		By contact NO, NC 250 V / 0.25 A	
Additional characteristics			
Degree of protection (IEC 60529)	Device only	IP20 (built-in)	
	Device in modular enclosure	IP40	
Operating temperature		-25°C to +60°C	
Storage temperature		-40°C to +85°C	
Humidity range		5 % to 95 %	
Type of connection terminals		Tunnel terminals, 2.5 to 35 mm²	
Standards		IEC 61643-11: 2011 T2, T3 and EN 61643-11: 2012 Type 2, Type 3	



Surge arrester/circuit breaker association			
Surge arrester	Associated circuit breaker		
	iPRD		iPRD IT
	Isc ⩽ 25 kA	Isc ⩽ 50 kA	Isc (IT 400 V AC) ⩽ 5 kA
iPRD65	Curve C 50 A	Curve C 63 A	Curve C 25 A
iPRD40	Curve C 40 A	Curve C 63 A	Curve C 20 A
iPRD8	Curve C 10 A	Curve C 63 A	Curve C 10 A

iPRD dimensions (mm)



1P 1P+N 3P 3P+N

Weight (g)

Surge arrester	
Type	iPRD
1P	119
1P+N	220
3P	340
3P+N	450

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

iPRD surge arresters

PB110281-60

Terminals
- IP20

Satisfactory operation indication
- By mechanical indicator
- white: operating
- red: cartridge must be replaced

- Remote indication

Connection iPRD surge arrester with its short circuit disconnector

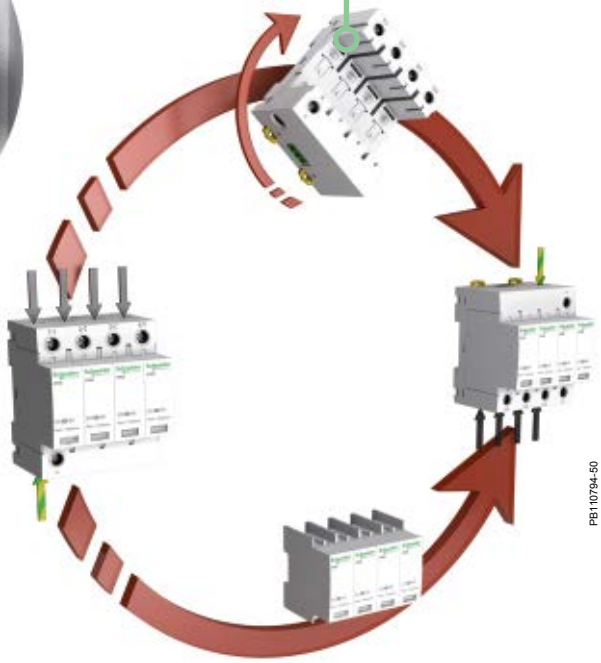
TN-S
Power supply through the top
Connection with cables

PB110289-50

Surge arrester iPRD 3P+N + iC60N 3P+N

PB110287-80

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



TN-S
Power supply through the bottom
Connection with comb busbar

PB110793-50

Surge arrester iPRD 3P+N + iC60N 3P+N

TNC
Power supply through the bottom
Connection with comb busbar

PB110794-50

Surge arrester iPRD 3P+N + iC60N 3P+N

iPF K surge arresters
Type 2 LV surge arresters

DB406142
Country approval pictograms

The iPF K multi-pole single-piece surge arrester range is adapted for earthing systems: TT, TN-S, TN-C.
Type 2 surge arresters are tested with a 8/20 µs current wave.

Each surge arrester in the range has a specific application:
■ **incoming protection (type 2):**
the iPF K 20 is recommended for a medium risk level.

PB114703-40

1P

PB114702-40

1P+N

PB114701-40

3P

PB114700-40

3P+N

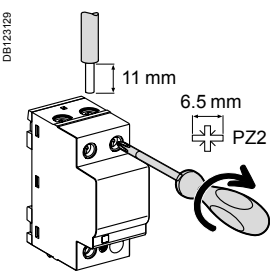
Rated discharge current (Imax) / Nominal discharge current (In)	Type of protection	Network			
		DB122942 N L1 L2 L3		DB407087 L1 L2 L3	
	Incoming	1P+N	3P+N	1P	3P
20 kA / 5 kA					
Medium risk level	iPF K 20			**A9L15691**	
		A9L15692			
					A9L15597
			A9L15693		

Cartridges

Surge arrester/circuit breaker association	
Type of surge arrester	**Associated circuit breaker (1 to 4 poles protected) (Isc ≤ 6 kA)**
iPF K 20	iK60N Curve C 20 A

Connection

DB123129

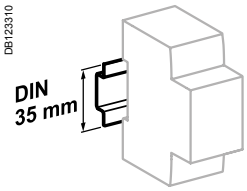


Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
		DB122945	DB122946
iPF K	3.5 N.m	25 mm² max.	16 mm² max.

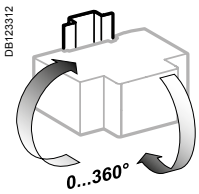
iPF K surge arresters
Type 2 LV surge arresters (cont.)

	Earthing system	Surge arrester name	Width in mod. of 9 mm	Up - (kV) Voltage protection level			Un - (V) Rated voltage network	Uc - (V) Maximum continious operating voltage		
				CM*		DM*		CM*		DM*
				L/⏚	N/⏚	L/N		L/⏚	N/⏚	L/N
		iPF K 20								
	TN	iPF K 20 1P	2	≤ 1.1	-	-	230	340	-	-
	TN-S	iPF K 20 1P+N	4	-	≤ 1.5	≤ 1.1		-	260	340
	TN-C	iPF K 20 3P	8	≤ 1.1	-	-	230/400	340	-	-
	TN-S	iPF K 20 3P+N		-	≤ 1.5	≤ 1.1		-	260	340

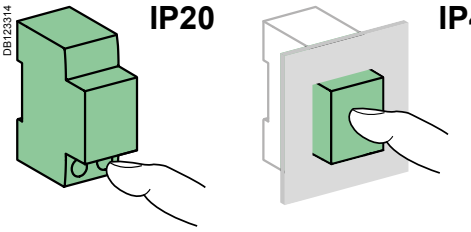
* ***CM***: common mode (phase to earth and neutral to earth). * ***DM***: differential mode (phase to neutral). ***(1) Uoc***: combinated waveform voltage: 10 kV.



Clip on DIN rail 35 mm.



Indifferent position of installation.



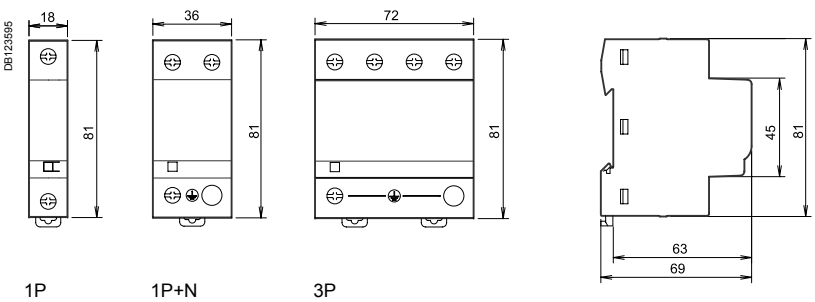
Technical data

Main characteristics		
Operating frequency		50/60 Hz
Rated voltage network (Un)		230/400 V AC ±10 %
Permanent operating current (Ic)		< 5 mA
Response time		< 25 ns
Short circuit withstand (I_{SCCR})		25 kA (50 Hz)
Temporary overvoltage withstand (U_T) LV network	U_T (L-N)	337 V AC / 5 s
	U_T (L-PE)	442 V AC / 120 min
Temporary overvoltage withstand (U_T) HV network	U_T (N-PE)	1200 V AC / 200 ms
	U_T (L-PE)	1453 V AC / 200 ms
Ground residual current (I_{PE})	I_{PE} (L-PE)	1P: ≤ 5 mA
		3P: ≤ 25 mA
	I_{PE} (N-PE)	3 µA for 1P+N, 3P+N
Operation indication by mechanical indicator	Green	In operation
	Red	At end of life
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20 (built-in)
	Device in modular enclosure	IP40
Operating temperature		-25°C to +60°C
Humidity range		5 % to 95 %
Standards		IEC 61643-11: 2011 T2

Weight (g)

Surge arrester	
Type	**iPF K**
1P	125
1P+N	210
3P	335
3P+N	420

Dimensions (mm)



1P 1P+N 3P 3P+N

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

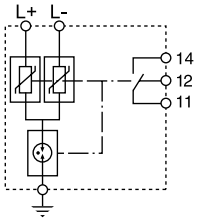
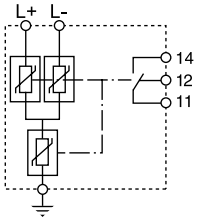
iPRD-DC40r 600PV

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

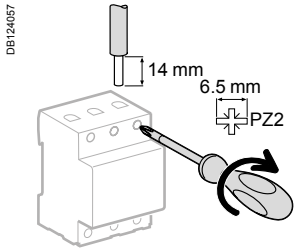
PB107587-30

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**

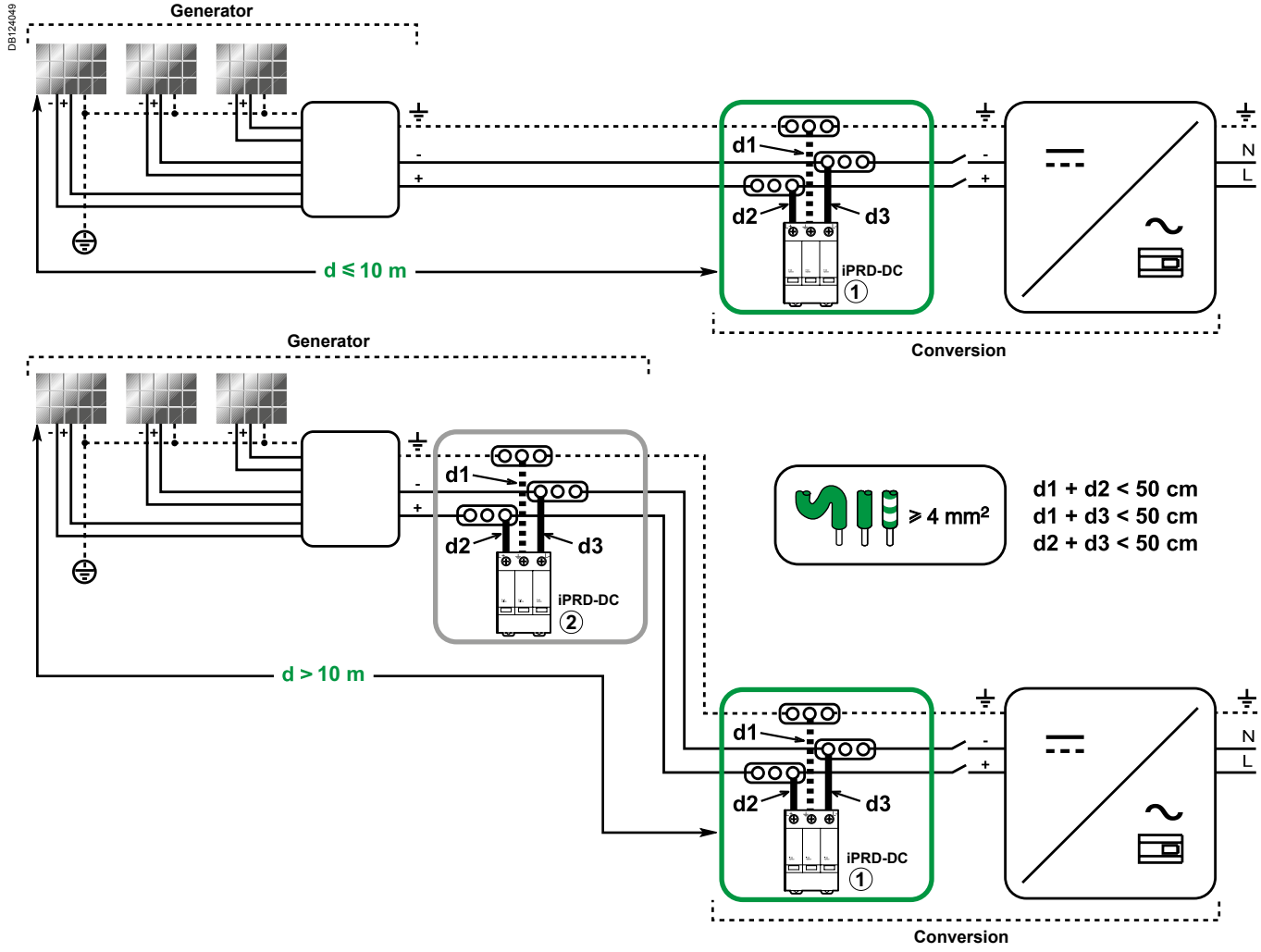
iPRD-DC surge arresters
Withdrawable surge arresters type 2 for photovoltaic applications (cont.)

Connection



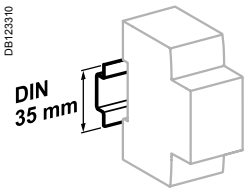
Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
		DB122945	DB122946
iPRD-DC	2 N.m	2.5 to 25 mm²	2.5 to 16 mm²

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.

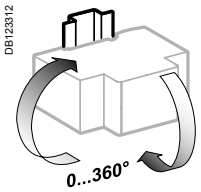


iPRD-DC surge arresters

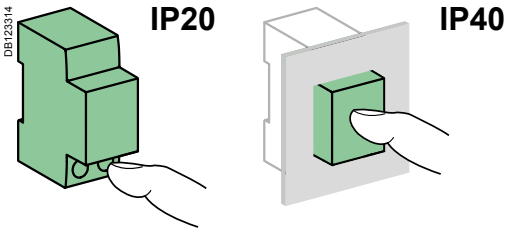
Withdrawable surge arresters type 2 for photovoltaic applications (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.



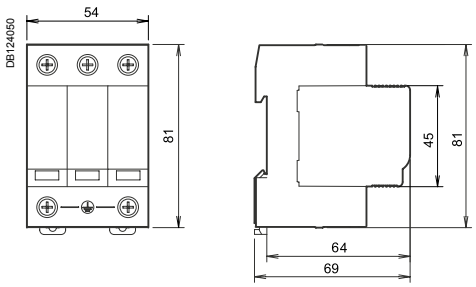
Technical data

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	
End-of-life indication mode		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)



iSW Acti 9 switches

DB116619 DB123430 DB123807 DB404546

Country approval pictograms

IEC/EN 60947-3

The switch-disconnectors combine the following functions:
■ Control (opening and closing of circuits under load).

iOF auxiliary

■ Mounted on the left, it indicates the "open" or "closed" position of the switch and has a normally open (NO) or normally closed (NC) contact.

PB110905

1P

PB110907

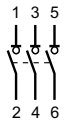
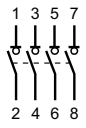
3P

PB110908

4P

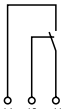
Catalogue numbers

40 to 125 A iSW switch-disconnectors

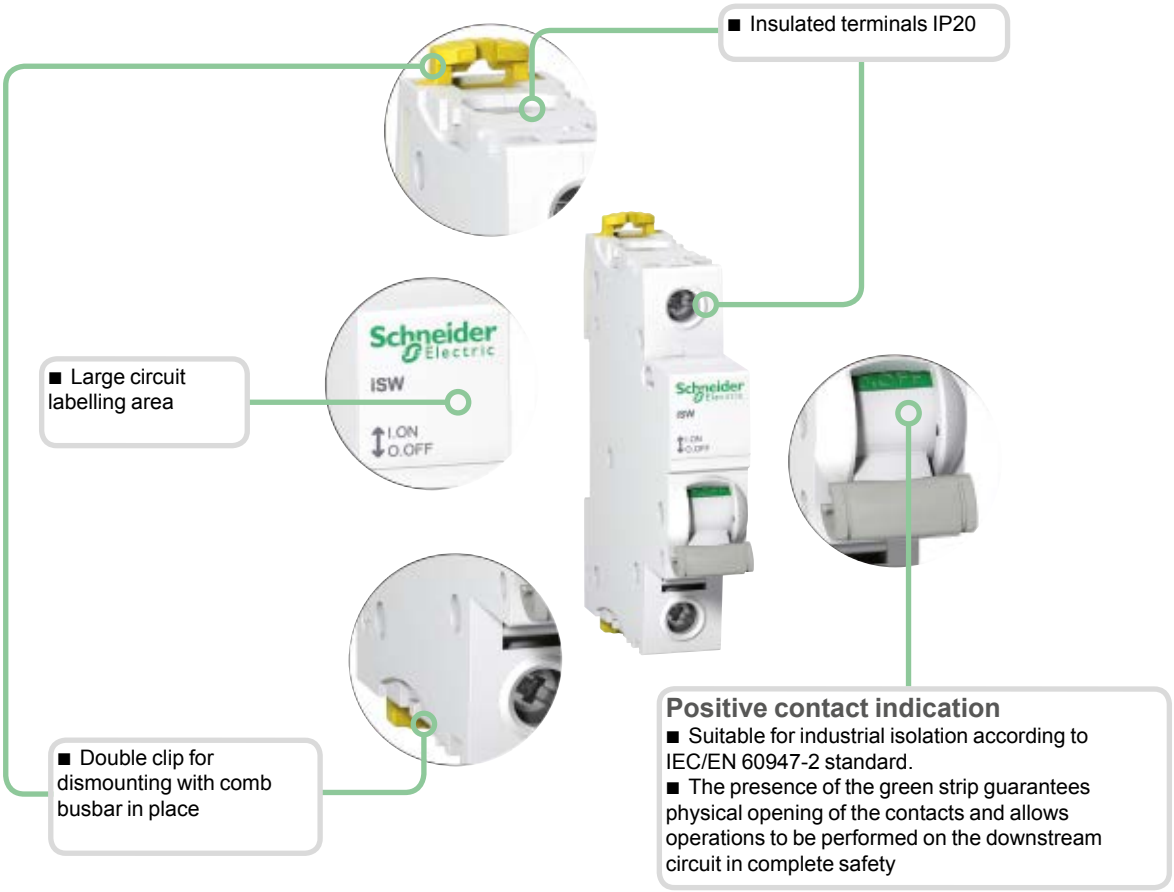
Type				Width in 9 mm modules
1P	**Rating**	**Voltage (Ue)**		
DB118998 	40 A	240 V AC	**A9S65140**	2
3P				
DB119000 	40 A	415 V AC	**A9S65340**	6
	63 A	415 V AC	**A9S65363**	
4P				
DB119001 	40 A	415 V AC	**A9S65440**	8
Operating frequency		50/60 Hz		
Accessories		**See page 94**		

PB104474-35

Auxiliary

Type			Width in 9 mm modules
iOF	**Voltage (Ue)**		
DB118810 	240...415 V AC	**A9A26924**	1
	24...130 V DC		

iSW Acti 9 switches (cont.)

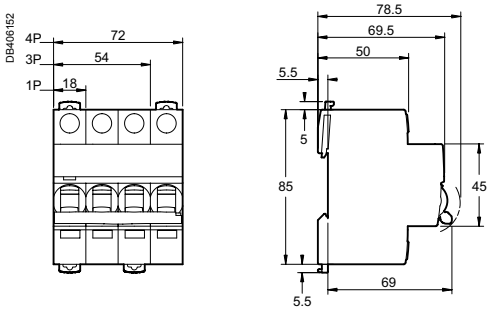


Positive contact indication

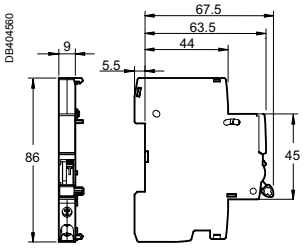
■ Suitable for industrial isolation according to IEC/EN 60947-2 standard.

■ The presence of the green strip guarantees physical opening of the contacts and allows operations to be performed on the downstream circuit in complete safety

Dimensions (mm)



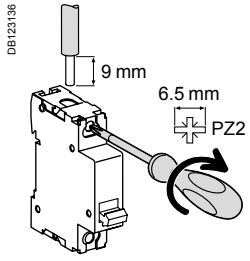
iSW



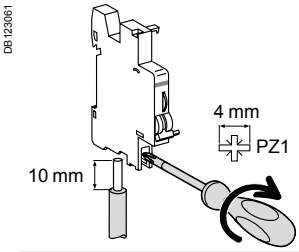
iOF

iSW Acti 9 switches (cont.)

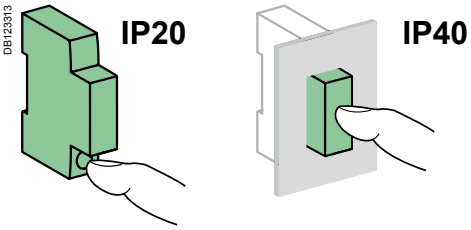
Connection



Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible or with ferrule
			DB122945	DB122946
iSW	40 to 125 A	3.5 N.m	≤ 50 mm²	≤ 35 mm²



Type	Tightening torque	Copper cables		Multi-cables terminal	
		Rigid	Flexible	Rigid cables	Cables with ferrule
	DB122945	DB123007	DB123011	DB123008	
iOF	1 N.m	1 to 4 mm²	0.5 to 2.5 mm²	2 x 2.5 mm²	2 x 1.5 mm²



Technical data

Main characteristics			
Insulation voltage (Ui)		1P: 250 V AC 2P, 3P, 4P: 500 V AC	
Pollution degree		3	
Power circuit			
Rated impulse withstand voltage (Uimp)		6 kV	
Operating category		AC - 22 A	
Permissible rated short-time withstand current (Icw)		1500 A	
Conditional rated short-circuit current (Inc)		10 kA according to IEC 60947-3	
Rated short-circuit closing current (Icm)		5 kA	
Additional characteristics			
Degree of protection	Device only	IP20	
	Device in modular enclosure	IP40 Insulation class II	
Endurance (O-C)	Mechanical	20,000 cycles	
	Electrical	40 A - 63 A	15,000 cycles
		80 A - 100 A	10,000 cycles
		125 A	2 500 cycles
Operating temperature		-25°C to +60°C	
Storage temperature		-40°C to +85°C	
Tropicalization		Treatment 2 (relative humidity 95% at 55°C)	

iOF characteristics		
Rated voltage (Ue)	240…415 V AC	
	24…130 V DC	
Operating frequency	50/60 Hz	
Operating current	24 V DC	6 A
	48 V DC	2 A
	60 V DC	1.5 A
	130 V DC	1 A
	240 V AC	6 A
	415 V AC	3 A
Number of contacts	1 NO/NC	
Operating temperature	-35°C to +70°C	
Storage temperature	-40°C to +85°C	

iSW switches

Position contact indication

■ Suitable for industrial isolation according to IEC/EN 60947-3 standard.
■ The presence of the green strip guarantees physical opening of the contacts and allows operations to be performed on the downstream circuit in complete safety.

PB105266-40
DB122818

IEC/EN 60669-1, iSW switch with indicator light.
IEC/EN 60669-2-4, iSW switch without indicator light.

These switches are used for:
■ Control (opening and closing of circuits under load).
The 1P and 2P switches are available with or without indicator light.
■ Disconnection, for switches without indicator light IEC/EN 60669-2-4.

OF iSW auxiliary

■ Mounted on the left, it indicates the "open" or "closed" position of the switch and has a normally open (NO) or normally closed (NC) contact.

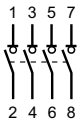
PB105264-40

PB105265-40

Control switches

Catalogue numbers

20, 32 A iSW control switches

Type				Width in 9 mm modules
1P	**Rating**	**Voltage (Ue)**		
DB118998 	20 A	250 V AC	**A9S60120**	2
	32 A	250 V AC	**A9S60132**	
2P				
DB118999 	20 A	250 V AC	-	2
		415 V AC	**A9S60220**	
	32 A	250 V AC	-	
		415 V AC	**A9S60232**	
3P				
DB119000 	20 A	415 V AC	**A9S60320**	4
	32 A	415 V AC	**A9S60332**	
4P				
DB119001 	20 A	415 V AC	**A9S60420**	4
	32 A	415 V AC	**A9S60432**	
Operating frequency			50/60 Hz	
Accessories			**See page 100**	

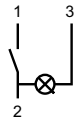
iSW switches (cont.)

PB105264-40

Control switches with indicator light

Catalogue numbers (cont.)

20, 32 A iSW control switches with indicator light

Type			Width in 9 mm modules
1P	**Rating**	**230 V indicator light**	
DB122819 	20 A	**A9S61120**	2
	32 A	**A9S61132**	
2P			
DB122820 	20 A	**A9S61220**	2
	32 A	**A9S61232**	
Operating frequency		50/60 Hz	
Accessories		**See page 100**	

Spare indicator lights for 20, 32 A iSW switches

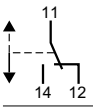
Type		
Neon	**Voltage (Ue)**	
Supplied with a red diffuser (Pack of 10)	230 V AC	**15111**

PB105264-40

OF iSW

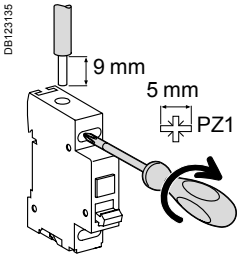
Catalogue numbers (cont.)

Auxiliary

Type				Width in 9 mm modules
OF iSW	**Rating**	**Voltage (Ue)**		
DB122821 	3 A	415 V AC	**A9A15096**	2
	6 A	250 V AC		

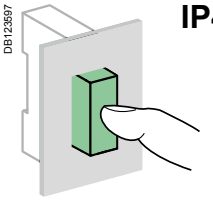
iSW switches (cont.)

Connection



20, 32 A iSW

Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible or with ferrule
		DB122945	DB122946	
iSW	20, 32 A	1.2 N.m	10 mm²	10 mm²
OF iSW	-	1.2 N.m	10 mm²	10 mm²

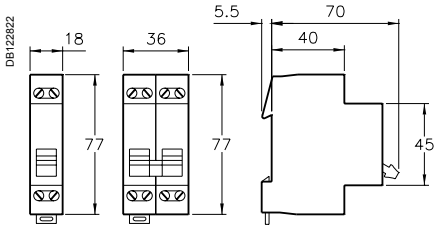


IP40

Technical data

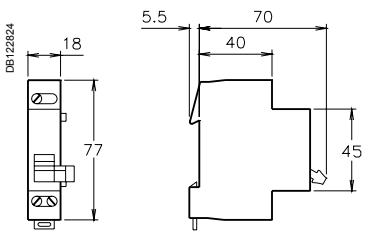
Main characteristics		20, 32 A iSW	
Insulation voltage (Ui)		**Without indicator light** ■ 1P: 250 V AC ■ 2P, 3P, 4P: 500 V AC	**With indicator light** 250 V AC
Pollution degree		2	
Power circuit			
Rated impulse withstand voltage (Uimp)		4 kV	
Operating category		AC - 22 A	
Conditional rated short-circuit current (Inc)		3 kA to IEC/EN 60669-2-4	
Additional characteristics			
Degree of protection		IP40 on the front panel	
Endurance (O-C)	Mechanical	300,000 cycles	
	Electrical	30,000 cycles	
Operating temperature		-20°C to +50°C	
Storage temperature		-40°C to +70°C	
Tropicalization		Treatment 2 (relative humidity 95% at 55°C)	

Dimensions (mm)



1P, 2P 3P, 4P

20, 32 A iSW



OF iSW

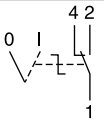
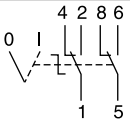
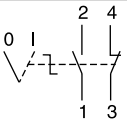
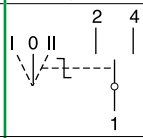
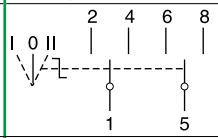
iSSW linear switches

IEC 60669-1 and IEC 60947-5-1

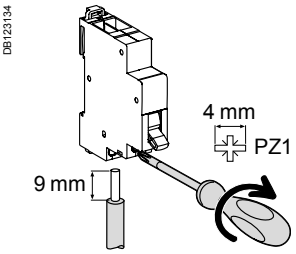
■ iSSW linear switches are used for the manual control of electric circuits.

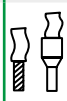
Catalogue numbers

iSSW linear switches

Type	2 positions			3 positions	
					
Contact	1 changeover switch	2 changeover switches	1 NO + 1NC	1 changeover switch	2 changeover switches
Diagram					
Cat. no.	**A9E18070**	**A9E18071**	**A9E18072**	**A9E18073**	**A9E18074**
Width in 9 mm modules	2	4	2	2	4

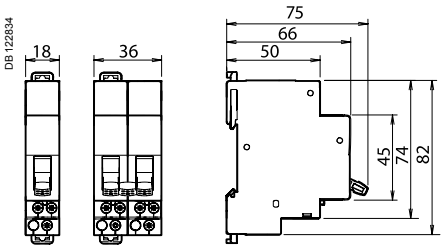
Connection



Tightening torque	Copper cables	
	Rigid	Flexible or with ferrule
		
1 N.m	0.5 mm^2 min. 2 x 2.5 mm^2 max.	0.5 mm^2 min. 2 x 2.5 mm^2 max.

■ Phase-separated wall that can be divided to allow the teeth of all types of comb busbar to pass through.
■ Staggered terminals to simplify connection.

Dimensions (mm)



Technical data

Main characteristics	
Pollution degree	3
Power circuit	
Voltage rating (Ue)	250 V AC
Current rating (Ie)	20 A
Additional characteristics	
Endurance (O-C)	30,000 cycles AC22 (cos φ = 0.8)
Operating temperature	-20°C... +50°C
Storage temperature	-40°C... +70°C
Tropicalization	Treatment 2 (relative humidity 95 % at 55°C)

iSW-NA switch-disconnector remote tripping

DB106604 DB116619

Country approval pictograms

IEC/EN 60947-3

The iSW-NA trip switch-disconnector combine the following functions:
- control (opening and closing of circuits under load)
- isolation.

It is designed for switchboard or cubicle incoming units in the tertiary and industry sectors, with the possibility of remote tripping via a coil.

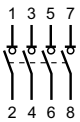
Positive break indication

- Suitability for isolation in the industrial sector to IEC/EN 60947-3.
- The presence of the green strip guarantees that the contacts open physically and allows work to be carried out safely on the downstream circuit.

PB107097-40

Catalogue number

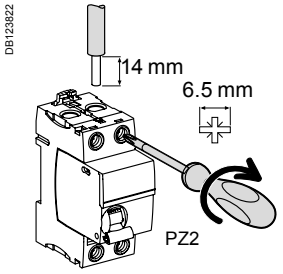
iSW-NA

Type			Width in 9 mm modules
3P+N	Rating		
DB119001 	40 A	**A9S70740**	8
Voltage rating (Ue)		400-415 V AC	
Operating frequency		50/60 Hz	
Auxiliaries*		**See page 21**	
Accessories		**See page 94**	

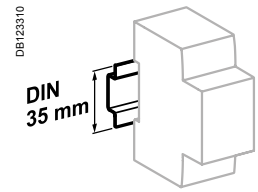
⚠ * Electrical auxiliaries must be installed to the left of the switch-disconnector. The iSD auxiliary contact must be combined with an auxiliary device (iMN, iMX, iMX+OF): it indicates that the switch-disconnector has been tripped open..

iSW-NA switch-disconnector remote tripping(cont.)

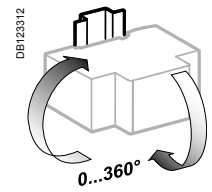
Connection



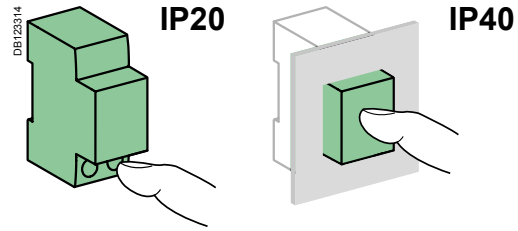
Type	Tightening torque	Without accessory: Copper cables – Rigid	Without accessory: Copper cables – Flexible or with ferrule	With accessories: 50 mm² Al terminal	With accessories: Screw-on connection for ring terminal	With accessories: Multi-cables terminal – Rigid cables	With accessories: Multi-cables terminal – Flexible cables
		DB122945 / DB122946	DB122935	Al / DB118789	DB118787		
iSW-NA	3.5 N.m	1 to 35 mm²	1 to 25 mm²	50 mm²	Ø 5 mm	3 x 16 mm²	3 x 10 mm²



Clip on DIN rail 35 mm.



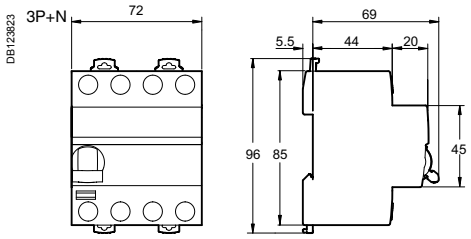
Indifferent position of installation.



Technical data

Main characteristics		
According to IEC 60947-3		
Insulation voltage (Ui)		500 V AC
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6 kV
Operating category		AC22A
Permissible rated short-time withstand current (Icw)		20 In/1s
Rated short-circuit making (Icm)		5 kÂ
Conditional rated short circuit current (Inc/IΔc)	With iC60N/H/L	Equal to breaking capacity of iC60
	With fuse	6000 A
Additional characteristics		
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical	15,000 cycles
	Mechanical	20,000 cycles
Operating temperature		-35°C to +70°C
Storage temperature		-40°C to +85°C
Tropicalization		Treatment 2 (relative humidity 95 % at 55°C)

Dimensions (mm)



Weight (g)

Switch-disconnectors	
Type	iSW-NA
3P+N	300

STI isolatable fuse-carriers

PB110043-40

PB110044-40

STI	Cartridges
IEC/EN 60947-3, IEC/EN 60269-2	IEC 60269-1, IEC 60269-2, NF C 60-200-2

PB110045-40

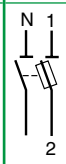
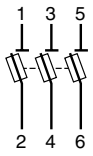
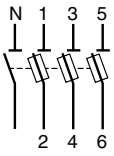
PB110046-40

- The STI isolatable fuse-carriers provide overload and short-circuit protection.
- They are used for industrial applications requiring a high breaking capacity.
- They perform the isolation function and must not be used as switches.
- To be equipped with aM or gG (gL - gI) type fuse cartridge without striker, with or without fuse blowing indicator.
- Isolation of all poles is guaranteed for the 2P, 3P, and 3P+N versions during factory assembly.

The general purpose fuse (**gG fuse**) provides overload and short-circuit protection.
The fuse for motor application (**aM fuse**) only provides short-circuit protection.
It is used for protection of loads with a high peak current (motors, transformer primaries, etc.).

PB110047-28

Catalogue numbers

Fuse cartridge (Type F)							STI fuse holder				
Type							Network type				
	Rating	Voltage rating (Ue)	Short-circuit current (Isc)								
			aM	gG	aM	gG	1P	1P+N (1)	2P	3P	3P+N (1)
PB102098-20							DB112797 	DB112798 	DB112799 	DB112800 	DB110801 
8.5 x 31.5 mm	2 A	400 V AC	20 kA	20 kA	**DF2BA0200**	**DF2BN0200**	**A9N15635**	-	-	-	-
	4 A	400 V AC	20 kA	20 kA	**DF2BA0400**	**DF2BN0400**					
	6 A	400 V AC	20 kA	20 kA	**DF2BA0600**	**DF2BN0600**					
	8 A	400 V AC	20 kA	20 kA	**DF2BA0800**	**DF2BN0800**					
	10 A	400 V AC	20 kA	20 kA	**DF2BA1000**	**DF2BN1000**					
10.3 x 38 mm	2 A	500 V AC	120 kA	120 kA	**DF2CA02**	**DF2CN02**	**A9N15636**	**A9N15646**	**A9N15651**	**A9N15656**	**A9N15658**
	4 A	500 V AC	120 kA	120 kA	**DF2CA04**	**DF2CN04**					
	6 A	500 V AC	120 kA	120 kA	**DF2CA06**	**DF2CN06**					
	10 A	500 V AC	120 kA	120 kA	**DF2CA10**	**DF2CN10**					
	16 A	500 V AC	120 kA	120 kA	**DF2CA16**	**DF2CN16**					
	20 A	500 V AC	-	120 kA	-	**DF2CN20**					
	25 A	500 V AC	-	120 kA	-	**DF2CN25**					

(1) The neutral pole comes equipped with a locked tube.

STI isolatable fuse-carriers (cont.)

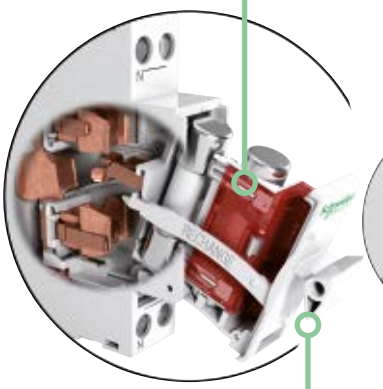
PB110050-50

230 V neon indicator light (Option)
- Indicates fuse blowing (off in normal operation and lit red after fuse blowing)
- 400 V maxi

1P+N, 3P+N
- Phase opening causes compulsory opening of the neutral
- The phase opens before the neutral on isolation and closes after the neutral on circuit closing
- Small dimensions
  - 1P+N in 18 mm
  - 3P+N in 54 mm

Clip-on markers
- Used to identify:
  - either on the front face
  - or on the downstream terminals

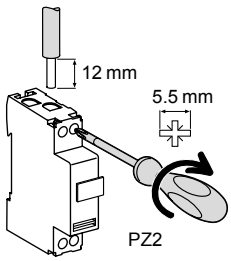
Padlocking device
- Locks the toggle in the "open" or "closed" position. Used with an 8 mm max. diameter padlock (not supplied):
  - only one padlock for 1P, 1P+N and 2P products(on the left pole)
  - and two padlock on the 3P and 3P+N products (on every extremity)



Fuse-carrier
- Captive
- Additional housing is provided for a spare fuse

Connection

DB123241



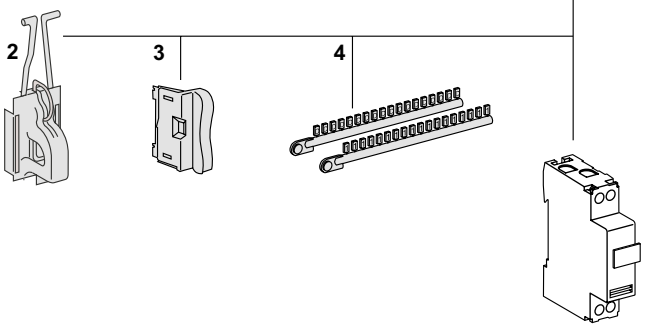
Type	Rating	Tightening torque	Without accessory: Copper cables – Rigid	Without accessory: Copper cables – Flexible or with ferrule	With accessories: Screw-on connection for ring terminal
			DB122945	DB122946	DB118789
STI	All	2 N.m	0.75 to 10 mm² 2 x 0.75 mm² to 2 x 4 mm²	0.5 to 6 mm² 2 x 0.5 mm² to 2 x 4 mm²	Ø 5 mm

DB406772

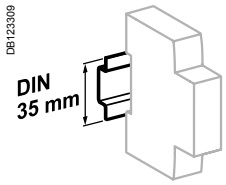
1	Screw-on connection for ring terminal	**27053**

Mounting accessories

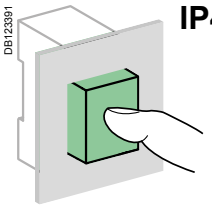
2	Padlocking device		**15669**
3	Neon indicator light	1 piece blister	**15668**
4	Clip-on terminal markers		**See page 97**



STI isolatable fuse-carriers (cont.)



Clip on DIN rail 35 mm.



Technical data

Main characteristics	
Insulation voltage (Ui)	500 V
Breaking capacity according to IEC 60269-2 ≤ 400 V	50 kA
Pollution degree	3
Operating frequency (Hz)	50/60
Additional characteristics	
Degree of protection Device in modular enclosure	IP40 Insulation class II
Operating temperature	-20°C to +60°C
Storage temperature	-40°C to +80°C

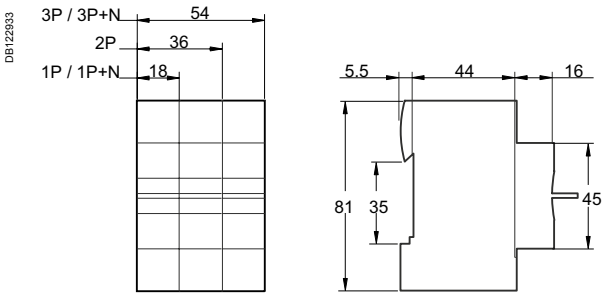
Maximum dissipated power per pole of STI isolatable fuse-carriers

Fuse cartridge type		Ith	Pmax
8.5 x 31 mm	aM	10 A	2.5 W
	gG	20 A	2.5 W
10.3 x 38 mm	aM	16 A	3 W
	gG	25 A	3 W

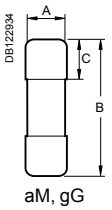
Maximum dissipated power per fuse cartridges

Fuse cartridge type		Ith	Pmax
8.5 x 31 mm	aM	2 to 10 A	0.9 W
	gG	2 to 10 A	2.5 W
10.3 x 38 mm	aM	2 to 25 A	1.2 W
	gG	2 to 25 A	3 W

Dimensions (mm)



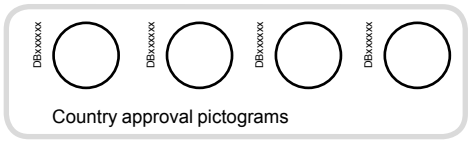
STI



aM, gG

aM, gG fuse cartridge			
Type	**A**	**B**	**C**
8.5 x 31.5 mm	8.5	31.5	10.3
10.3 x 38 mm	10.3	38	10.5

SBI fuse holders with indicator light



Country approval pictograms

IEC EN 60947-3

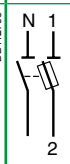
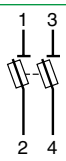
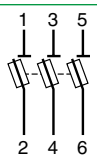
PB102092_SE


MGN15707

- SBI fuse holders provide overload and short-circuit protection.
- They are used for industrial applications requiring a high breaking capacity.
- They perform the isolation function and must not be used as switches.
- They are equipped with an indicator light indicating blowing of the fuse cartridge: to be equipped with aM or gG (gL-gI) type fuse cartridge without striker.

The general purpose fuse (gG fuse) provides overload and short-circuit protection.
The fuse for motor application (**aM fuse**) only provides short-circuit protection.
It is used for protection of loads with a high peak current (motors, transformer primaries, etc.).

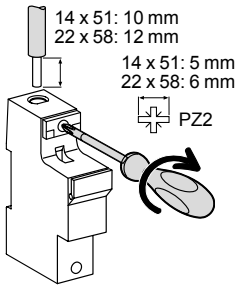
Catalogue numbers

Fuse cartridge							SBI fuse holder			
Type							Network type			
	Rating	Voltage rating (Ue)	Short-circuit current (Isc)							
			aM	gG	aM	gG	1P	1P+N (1)	2P	3P
PB102098-20							DB112797 	DB112798 	DB112799 	DB112800 
14 x 51 mm	10 A	690 V CA	120 kA	120 kA	**DF2EA10**	**DF2EN10**	**MGN15707**	**MGN15709**	**MGN15710**	**MGN15711**
	12 A	690 V CA	120 kA	-	**DF2EA12**	**-**				
	16 A	690 V CA	120 kA	120 kA	**DF2EA16**	**DF2EN16**				
	20 A	690 V CA	120 kA	120 kA	**DF2EA20**	**DF2EN20**	3 modules of 9 mm	6 modules of 9 mm	6 modules of 9 mm	9 modules of 9 mm
	25 A	690 V CA	120 kA	120 kA	**DF2EA25**	**DF2EN25**				
	32 A	500 V CA	120 kA	120 kA	**DF2EA32**	**DF2EN32**				
	40 A	500 V CA	120 kA	120 kA	**DF2EA40**	**DF2EN40**				
	50 A	400 V CA	120 kA	120 kA	**DF2EA50**	**DF2EN50**				
22 x 58 mm	32 A	690 V CA	80 kA	80 kA	**DF2FA32**	**DF2FN32**	**MGN15713**	**MGN15715**	**MGN15716**	**MGN15717**
	40 A	690 V CA	80 kA	80 kA	**DF2FA40**	**DF2FN40**				
	50 A	690 V CA	80 kA	80 kA	**DF2FA50**	**DF2FN50**				
	63 A	690 V CA	80 kA	80 kA	**DF2FA63**	**DF2FN63**	4 modules of 9 mm	88 modules of 9 mm	8 modules of 9 mm	12 modules of 9 mm
	80 A	690 V CA	80 kA	80 kA	**DF2FA80**	**DF2FN80**				
	100 A	400 V CA	120 kA	120 kA	**DF2FA100**	**DF2FN100**				
	125 A	400 V CA	120 kA	-	**DF2FA125**	**-**				
							Operating frequency: 50/60 Hz			

(1) The neutral pole comes equipped with a locked tube.

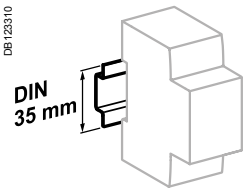
Connection

DB123264

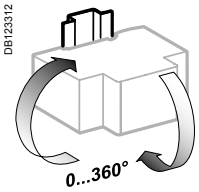


Type of fuse cartridge	Tightening torque	Copper cables		Multi-cables terminal	
		Rigid	Flexible or with ferrule	Rigid cables	Flexible cables
		DB122945 	DB122946 	DB118787 	
14 x 51 mm	3.5 N.m	2.5 to 25 mm²	2.5 to 25 mm²	2.5 to 10 mm²	2.5 to 10 mm²
22 x 58 mm	3.5 N.m	2.5 to 35 mm²	2.5 to 35 mm²	2.5 to 25 mm²	2.5 to 16 mm²

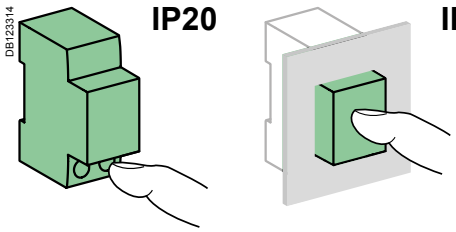
SBI fuse holders with indicator light (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical data

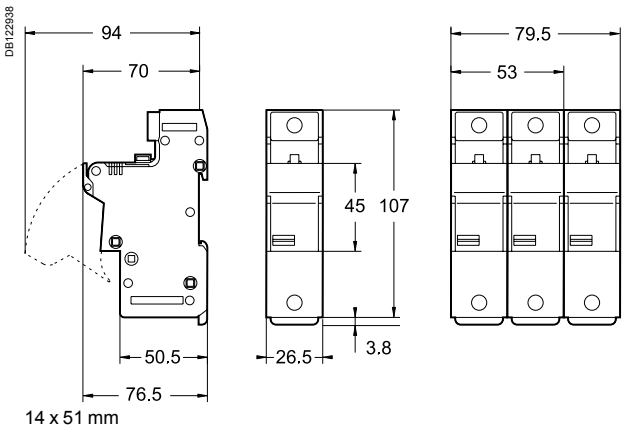
Main characteristics		
Insulation voltage (Ui)		690 V
Utilization category		AC20B isolation by switching the drawer, must not be operated under load
Additional characteristics		
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		-20°C to +60°C
Storage temperature		-40°C to +80°C
Cartridge blowing signalling		By indicator light ON (neon)

Maximum permissible characteristics of the fuse cartridges:

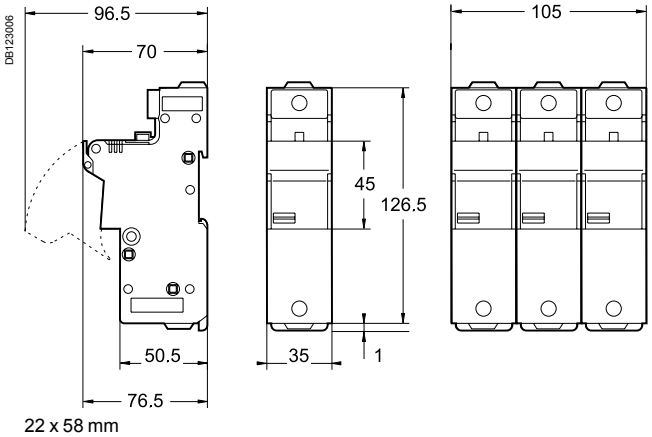
Fuse cartridge type		Ith	Pmax*
14 x 51 mm	aM	50 A	3 W
	gG	50 A	5 W
22 x 58 mm	aM	125 A	9.5 W
	gG	100 A	9.5 W

*Pmax: maximum dissipated power per fuse cartridge.

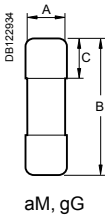
Dimensions (mm)



14 x 51 mm



22 x 58 mm



aM, gG

aM, gG fuse cartridge			
Type	**A**	**B**	**C**
14 x 51 mm	14.3	51	13.8
22 x 58 mm	22.2	58	16.2

iCT contactors

Country approval pictograms

EN 61095, IEC 1095

iCT contactors are available in two versions:

- Contactors without manually-operated
- Contactors with manually-operated.

The breadth of the iCT contactor range satisfies most application cases.

PB106115-35

PB106105-35

Manual control

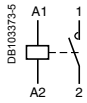
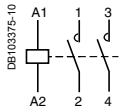
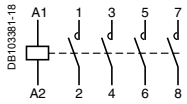
- iCT contactors can be used to remote control applications in alternative networks:
  - lighting, heating, ventilation, roller blinds, sanitary hot water
  - mechanical ventilation systems, etc
  - load-shedding of non-priority circuits

PB106115-39

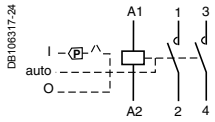
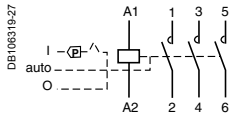
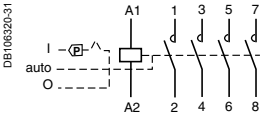
iCT contactors (cont.)

Catalogue numbers

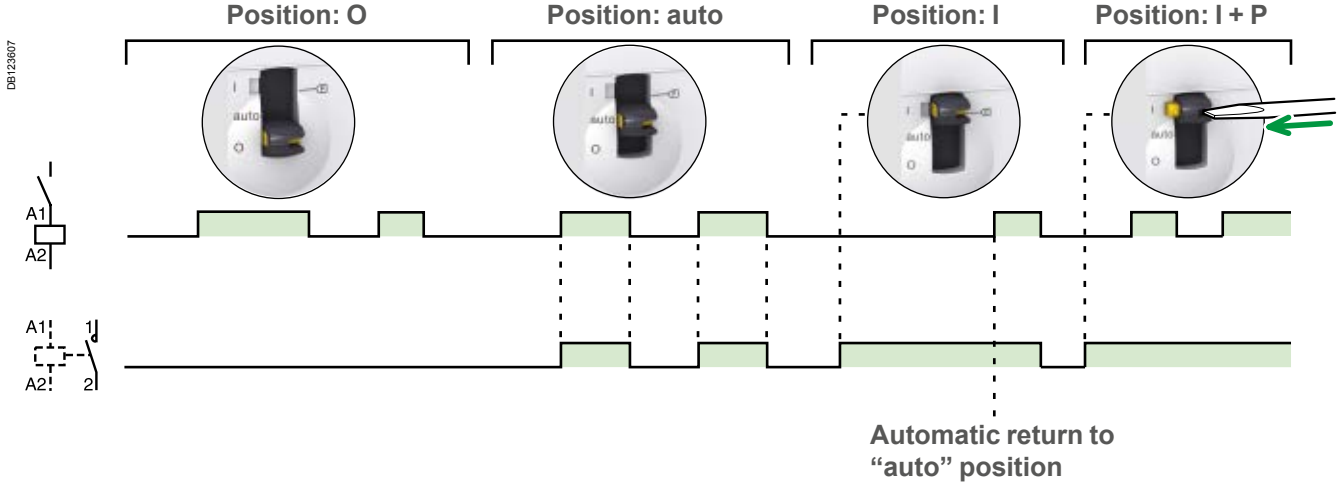
iCT contactors - 50 Hz

Type						Width in 9 mm modules
1P	Rating (In) AC7a	AC7b	Control voltage (V AC) (50 Hz)	Contact		
	25 A	8.5 A	230…240	1NO	**A9C20731**	2
2P						
	16 A	6 A	230...240	2NO	**A9C22712**	2
	25 A	8.5 A	230...240	2NO	**A9C20732**	2
	40 A	15 A	220...240	2NO	**A9C20842**	4
4P						
	25 A	8.5 A	220...240	4NO	**A9C20834**	4

iCT manual control contactor 50 Hz

Type						Width in 9 mm modules
2P	Rating (In) AC7a	AC7b	Control voltage (V AC) (50/60 Hz)	Contact		
	25 A	8.5 A	230...240	2NO	**A9C21732**	2
3P						
	25 A	8,5 A	220...240	3NO	**A9C21833**	4
4P						
	25 A	8,5 A	220...240	4NO	**A9C21834**	4

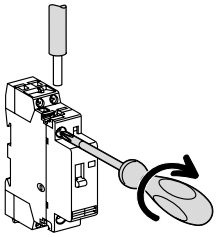
Operation (Manual control contactor)



iCT contactors (cont.)

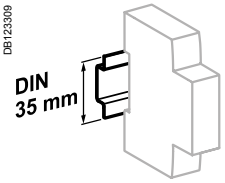
Connection

DB123606



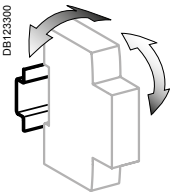
Type		Rating	Lenght tripping	Circuit	Tightening torque	Copper cables	
						Rigid	Flexible or with ferrule
					DB122945	DB122946	
iCT	PZ1: 4 mm	16 - 40 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm, 2 x 1.5 mm^2	1.5 to 2.5 mm, 2 x 2.5 mm^2
		16 and 25 A	9 mm	Power	0.8 N.m	1.5 to 6 mm^2	1 to 4 mm^2
	PZ2: 6 mm	40 A	14 mm		3.5 N.m	6 to 25 mm^2	6 to 16 mm^2

DB123309



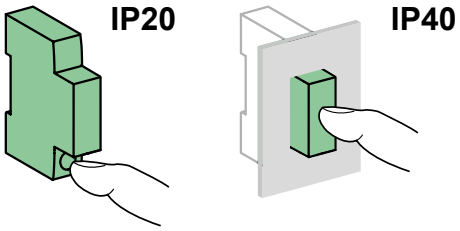
Clip on DIN rail 35 mm.

DB123300



± 30° vertical.

DB123311

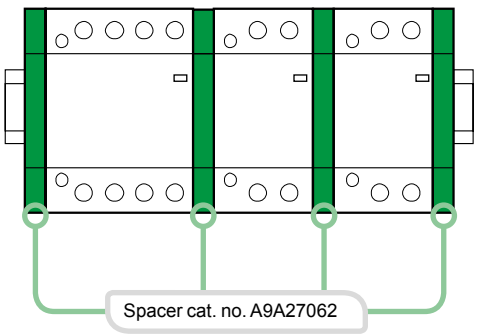


Technical data

Power circuit		
Voltage rating (Ue)	1P, 2P	250 V AC
	3P, 4P	400 V AC
Frequency		50 Hz or 60 Hz
Endurance (O-C)		
Electrical		100,000 cycles
Maximum number of switching operation a day		100
Additional characteristics		
Insulation voltage (Ui)		500 V AC
Pollution degree		2
Rated impulse withstand voltage (Uimp)		2.5 kV (4 kV for 12/24/48 V AC)
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		-5°C to +60°C (1)
Storage temperature		-40°C to +70°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % at 55°C)
The product control conforms to the SELV (safety extra low voltage) requirements		

(1) In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50°C and 60°C, it is necessary to use a spacer, cat. no. A9A27062, between each contactor

DB123331



Mounting accessories

Sealable screw shields for top and bottom	3P, 4P	25 A	**A9A15921**
	2P	40 A	**A9A15922**
9 mm spacer			**A9A27062**
Clip-on terminal markers			**See page 97**

iCT contactors (cont.)
Accessories for iCT

	Security		
Accessories	**Sealable screw shields**		**Spacer**
	PB104485-15 	PB104486-15 	PB104483-40 
Function			
	■ Designed to cover terminals to avoid contact with device screws. ■ Allow sealing		■ Required to reduce temperature rise of modular devices installed side by side. ■ Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors).
	■ **For iCT:** **3P, 4P - 25 A**	■ **For iCT:** **2P - 40 A**	
Use			
	■ Bag of 10 upstream/10 downstream		■ Bag of 5
Catalogue numbers	**A9A15921**	**A9A15922**	**A9A27062**
Technical specifications			
Width in 9 mm modules	4	4	1
Number of poles	3P, 4P	2P	–

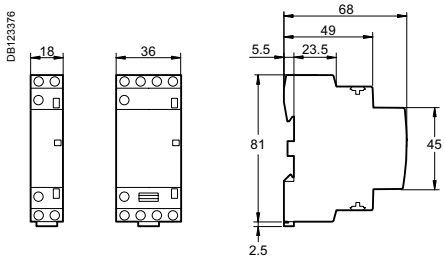
iCT contactors (cont.)
Technical advice for iCT

Consumption

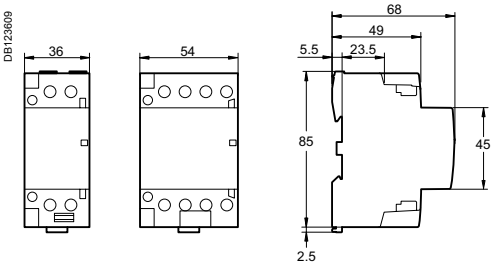
iCT contactors - 50 Hz							
Type							
1P	**Rating (In)**		**Control voltage (V AC) (50 Hz)**	**Consumption**		**Max. power**	
	AC7a	**AC7b**		**Holding**	**Inrush**		
	25 A	8.5 A	230…240	2.7 VA	9.2 VA	1.2 W	**A9C20731**
2P							
	16 A	5 A	230...240	2.7 VA	9.2 VA	1.2 W	**A9C22712**
	25 A	8.5 A	230...240	3.8 VA	15 VA	1.3 W	**A9C20732**
	40 A	15 A	220...240	4.6 VA	34 VA	1.6 W	**A9C20842**
4P							
	25 A	8.5 A	220...240	4.6 VA	34 VA	1.6 W	**A9C20834**

iCT manual control contactor 50 Hz							
Type							
2P	**Rating (In)**		**Control voltage (V AC) (50 Hz)**	**Consumption**		**Max. power**	
	AC7a	**AC7b**		**Holding**	**Inrush**		
	25 A	8.5 A	220	2.7 VA	9.2 VA	1.2 W	**A9C21732**
3P							
	25 A	8.5 A	220...240	4.6 VA	34 VA	1.6 W	**A9C21833**
4P							
	25 A	8.5 A	220...240	4.6 VA	34 VA	1.6 W	**A9C21834**

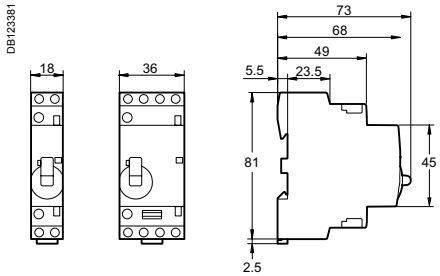
Dimensions (mm)



iCT 16/25 A



iCT 40 A



iCT manual control contactor 25 A

iTL impulse relays

DB123399 DB116619

iTL, iTLI

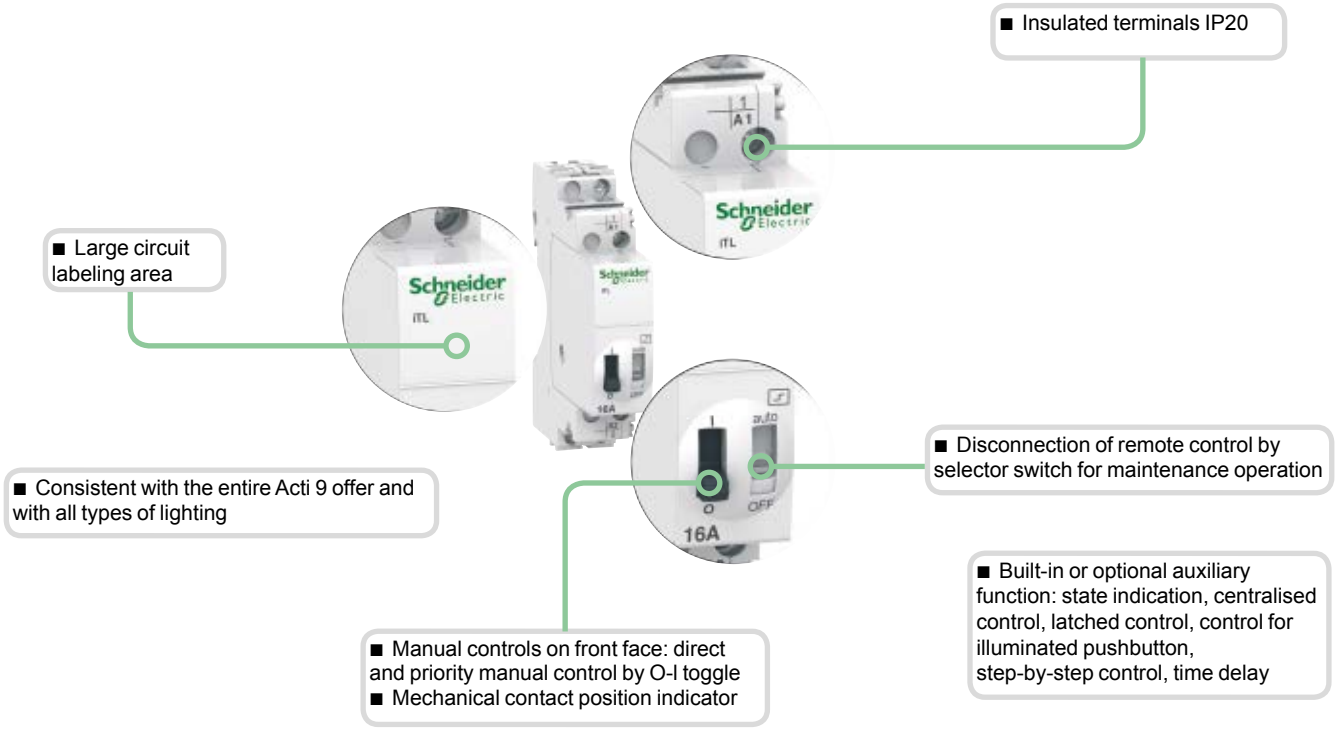
Country approval pictograms

IEC/EN 60669-2-2

PB106126-41

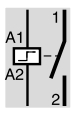
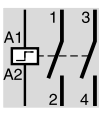
Impulse relays are used:

- Closing of the impulse relay pole(s) is triggered by an impulse on the coil.
- Having two stable mechanical positions, the pole(s) will be opened by the next impulse. Each impulse received by the coil reverses the position of the pole(s).
- Can be controlled by an unlimited number of pushbuttons.
- Zero energy consumption.



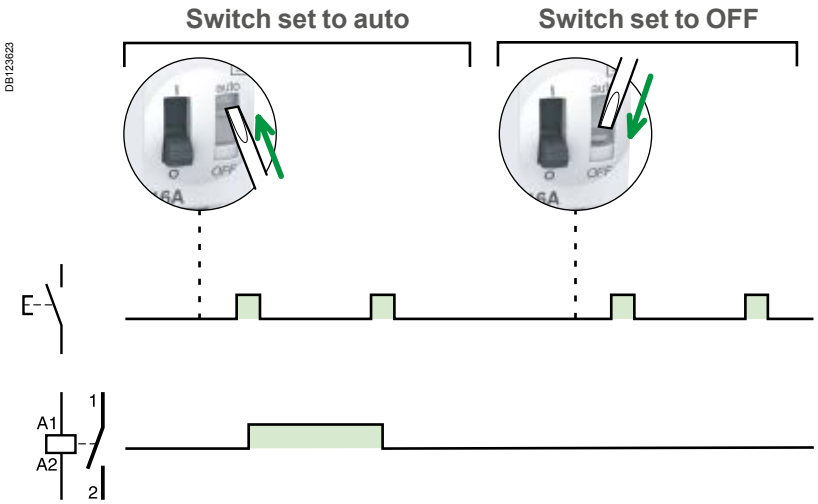
Catalogue numbers

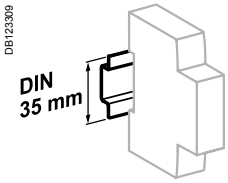
iTL impulse relays

Type			1P	2P
			DB123624  1 NO	DB123625  2 NO
Rating (In)	**Control voltage (Uc)**			
	(V AC) (50/60 Hz)	**(V DC)**		
16 A	230...240	110	**A9C30811**	**A9C30812**
Width in 9 mm modules			2	2

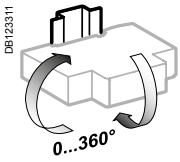
iTL impulse relays (cont.)

Operation

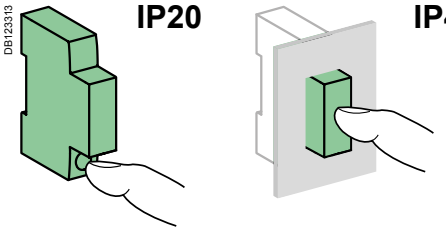




Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical data

Control circuit		
		iTL
Control voltage (Uc)	Tolerence at 50 Hz	+6 %, -15 %
	Tolerence at 60 Hz	±6 %,
	Tolerence V DC	+6 %, -10 %
Dissipated power (during the impulse)		1, 2, 3P: 19 VA
		4P: 38 VA
Illuminated PB control		Max. current 3 mA
Operating threshold		Min. 85 % of Un in conformance with IEC/EN60669-2-2
Duration of the control order		50 ms to 1 s (200 ms recommended)
Response time		50 ms
Power circuit		
Voltage rating (Ue)	1P, 2P	24 ...250 V AC
Frequency		50 Hz or 60 Hz
Maximum number of operations per minute		5
Maximum number of switching operation a day		100
Additional characteristics		
Insulation voltage (Ui)		440 V AC
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6 kV
Overvoltage category		IV
Endurance (O-C)		
Electrical		200,000 cycles (AC21)
		100,000 cycles (AC22)
Other characteristics		
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Operating temperature		-20°C to +50°C
Storage temperature		-40°C to +70°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % at 55°C)

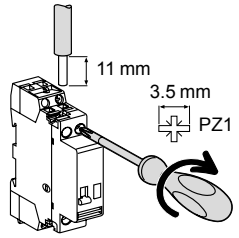
Mounting accessories

9 mm spacer	**A9A27062**
Clip-on terminal markers	**See page 97**

iTL impulse relays (cont.)

Connection

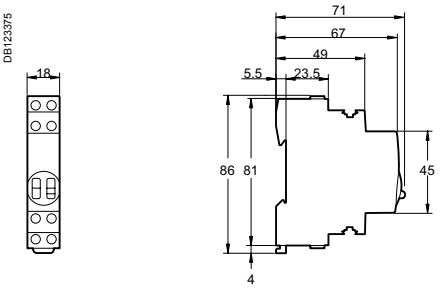
DB123132



Type	Rating	Circuit	Tightening torque	Copper cables	
				Rigid or with ferrule	Flexible or with ferrule
			DB122945	DB123553	
iTL	16 A	Control	1 N.m	0.5 to 4 mm²	1 to 4 mm²
		Power		1.5 to 4 mm²	1.5 to 4 mm²

Dimensions (mm)

DB123375



iTL

Security

Accessories	Spacer
	PB104483 
Function	
	■ Required to reduce temperature rise of modular devices installed side by side. ■ Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors).
Catalogue numbers	**A9A27062**
Technical specifications	
Width in 9 mm modules	1

Relays iRTA, iRLI, iRCP

Time delay relay is used in service sector and industrial buildings for small automatic control systems: ventilation, heating, animation, roller blind servo controls, escalators, pumps, lighting, signalling, monitoring, etc.

Time delay relays

iRTA
- Delays energizing of a load

Time delay

iRLI relay is used to relay ON or OFF information to the auxiliary circuits and actuate low-power loads

Changeover relays

iRLI
Changeover
- Relays ON or OFF information to the auxiliary circuits
- Actuates low-power loads

Relaying and control

Control relays monitor electrical parameters and indicate when they are exceeded

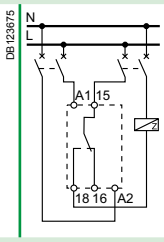
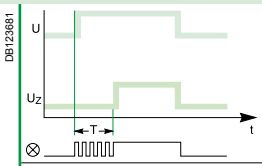
Control relays

iRCP
Phase control
- Monitors the order and asymmetry of phases and the presence of voltage on the 3 phases of a three-phase circuit (power supply of a motor, etc.)

Monitoring

Time delay relay iRTA

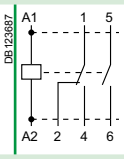
Time delay relays

Type	**iRTA**
	
Function	
	■ Delays energizing of a load
Wiring diagrams	
	
Use	
	
	■ The single time delay cycle starts at switching on of the iRTA relay power supply ■ The load is energized at the end of time delay T
Catalogue numbers	**A9E16065**

Technical specifications		
Control and power supply voltage (Uc)	V AC	24…240, ±10 %
	V DC	24, ±10 %
Operating frequency	Hz	50/60
Time delay range		0.1 s to 100 h
Precision		±10 % of full scale
Minimum duration of control impulse		100 ms
Insensitive to brownouts		≤ 20 ms
Max. resetting time per voltage interruption		100 ms
Accuracy of repetition		±0.5 % at constant parameters
Changeover contact (cadmium free)	Mini	Rating 10 mA/5 V DC
	Maxi	Rating 8 A/250 V AC/DC
Endurance	Mechanical	> 5 x 10^6 switching operations
	Electrical	> 10^5 switching operations (utilization category AC1)
Display of contact status by green indicator lamp		Flashing during time delay
Degree of protection	Device only	IP20
Connection by tunnel terminals	Without ferrule	2 x 2.5 mm^2 single-strand
	With ferrule	2 x 1.5 mm^2 multi-strand
Width in 9-mm modules		2
Operating temperature	°C	-5 … +55
Storage temperature	°C	-40 … +70

iRLI changeover extension relay

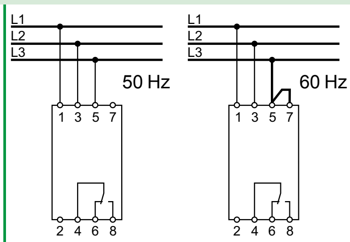
Changeover and extension relays

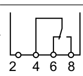
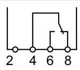
	iRLI
Type	**Changeover relay**
	 PB107108-35
Standard	IEC/EN 61810-1 and NF C 45-250
Function	
	■ Relaying of ON or OFF information to the auxiliary circuits and actuation of low-power loads
Wiring diagrams	
	 DB123687 A1 1 5 A2 2 4 6
Use	
	■ The iRLI relay contains 1 changeover contact (O-C) and 1 normally open contact (N/O)
Catalogue numbers	**A9E15535**

Technical specifications		
Control voltage (Uc)	V AC	230…240
Voltage rating (Ue)	V AC	230
Insulation voltage (Ui)	V AC	250
Rating (In)	A	10, cos φ = 1
Operating frequency	Hz	50/60
Inrush and holding power		4 VA
Endurance	Electrical	100,000 cycles AC21 (cos φ = 1)
Direct front face control	Power	By push button
	Coil	By selector switch (disconnection)
Position indicator		Mechanical indicator
Marking		Clip-on markers on the front panel
Degree of protection	Device only	IP20
Connection by tunnel terminals		0.5 x 6 mm^2
Width in 9-mm modules		2
Operating temperature	°C	-5 … +55
Storage temperature	°C	-40 … +70

iRCP phase control relay

Control relays

	iRCP
Type	**Phase control**
	PB107124-35 
Function	
	■ Monitors phases and the presence of voltage on the 3 phases of a three-phase circuit (power supply of a motor, etc.). It indicates any phase loss or inversion
Wiring diagrams	
	DB405265 
Catalogue number	**A9E21180**

Common technical specifications		
Supply voltage (Uc)	V AC	400, ±15 %
Frequency	Hz	50/60
Parameter setting		■ On the front panel, by direct scale, using a screwdriver
Precision of display		±10 % of full scale
Output by changeover contact		8 A under 250 V AC (cos φ = 1)
Indications by LED	Green	Voltage presence
	Red	Fault
Consumption	VA	3
Dissipated power	W	3 (total on the 3 phases)
Degree of protection	Device only	IP20
Connection by tunnel terminals	Rigid cable	1.5 x 6 mm²
Width in 9-mm modules		4
Operating temperature	°C	-5 … +55
Storage temperature	°C	-40 … +80
Particular technical specifications		
		Setting of phase asymmetry threshold: 5 % to 2 5% of 400 V
		Hysteresis: fixed, 5 % of asymmetry threshold
		Monitoring of direction of phase rotation
		Monitoring of presence of the 3 phases
		Fail-safe contact
		De-energized / Energized with fault 
		Energized without fault 
		Time delay on tripping: 0.3 s

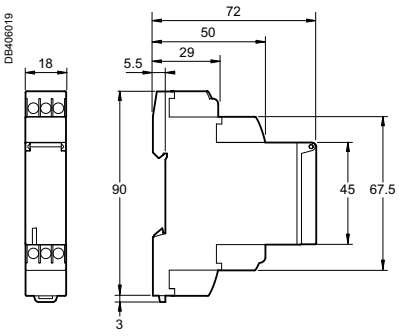
Relays

Technical data

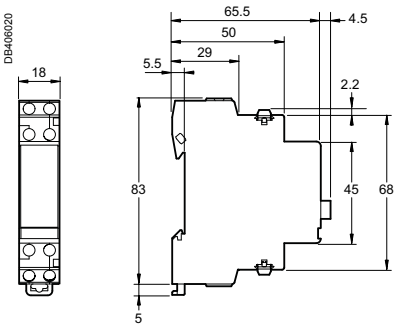
Weight (g)

Relays	
Type	
iRTA	65
iRLI	112
iRCP	210

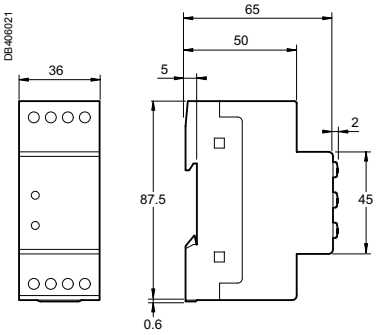
Dimensions (mm)



iRTA



iRLI



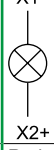
iRCP

iIL indicator light

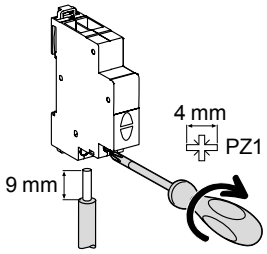
IEC 60947-5-1

■ iIL indicator, light up to indicate that a voltage is present.

Catalogue numbers

iIL indicator light	
	PB105256-40 
Diagram	DB122563 
Colour	Red
Cat. no.	
110...230 V AC 110...130 V DC	**A9E18320**
Width in 9 mm modules	2

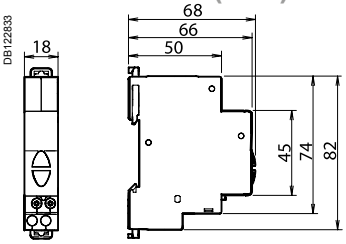
Connection

DB123137 

Tightening torque	Copper cables	
	Rigid	Flexible or with ferrule
	DB122945 	DB122946 
1 N.m	0.5 mm^2 min. 2 x 2.5 mm^2 max.	0.5 mm^2 min. 2 x 2.5 mm^2 max.

■ Phase-separated wall that can be divided to allow the teeth of all types of comb busbar to pass through.
■ Staggered terminals to simplify connection.

Dimensions (mm)

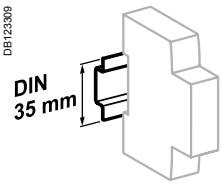
DB122833 

Technical data

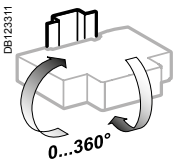
Main characteristics	
Pollution degree	3
Power circuit	
Operating frequency	50...60 Hz
Flashing frequency	2 Hz
Additional characteristics	
Operating temperature	-35°C... +70°C
Storage temperature	-40°C... +80°C
Tropicalization	Treatment 2 (relative humidity 95 % at 55°C)
LED indicator light	Consumption per indicator light: 0.3 W
	Service life: 100,000 hours of constant lighting efficiency
	Maintenance-free indicator light (non-interchangeable LEDs)

iSO bell

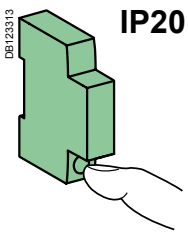
iSO

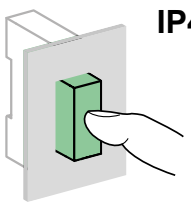


Clip on DIN rail 35 mm.



Indifferent position of installation.





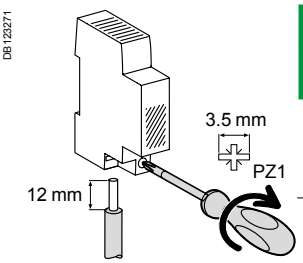
iSO

Audible indication in housing and the tertiary sector.

Catalogue number

Bell and buzzer			
Type			**Width in 9 mm modules**
iSO bell	**Voltage (Ue)**		
	230 V AC	**A9A15320**	2
Operating frequency	50...60 Hz		

Connection



Tightening torque	Copper cables	
	Rigid	**Flexible or with ferrule**
		
1.3 N.m	< 4 mm²	< 4 mm²

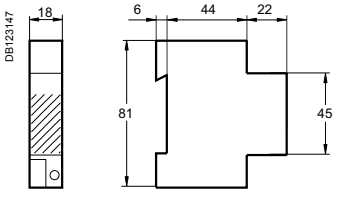
Technical data

Main characteristics		iSO
Consumption	220…240 V AC	5 VA
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP40
	Device in modular enclosure	IP20
Operating temperature		-10°C to +40°C
Storage temperature		-25°C to +60°C
Sound level (at a distance of 60 cm)		80 dBA

Weight (g)

Bell and buzzer	
Type	
iSO	77

Dimensions (mm)



iSO bell

iTR transformers

DB406142

Country approval pictogram

PB107156-35

PB107158-35

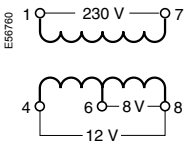
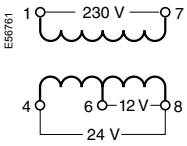
Bell transformers: EN/IEC 61558-2-8.
Safety transformers: EN/IEC 61558-2-6.

Bell transformers and safety transformers allow for a very low voltage (ELV 8 V, 12 V or 24 V) to be obtained from a low voltage network (LV 230 V).

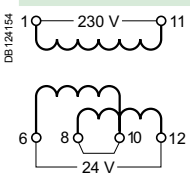
All Schneider Electric transformers are:
- Safe: primary and secondary circuits are perfectly insulated by each other
- Resistant to short-circuit currents thanks to the built-in device
- Class II with terminal shield (optional).

Catalogue numbers

Bell transformer

Type				Width in 9 mm modules
	Power	Secondary voltage		
E56760 	8 VA	8-12 V AC	**A9A15216**	4
E56761 	25 VA	12-24 V AC	**A9A15215**	6

Safety transformer

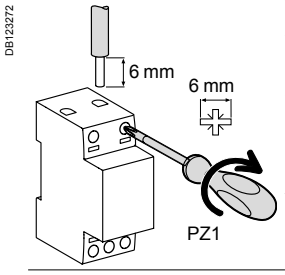
Type				Width in 9 mm modules
	Power	Secondary voltage		
DB124154 	63 VA	12-24 V AC	**A9A15222**	10
Operating frequency	50/60 Hz			

Terminal shield

Type		Width in 9 mm modules
	15228	4
	15229	6

iTR transformers (cont.)

Connection



Tightening torque	Copper cables	
	Rigid	Flexible or with ferrule
	 DB122945	 DB122946
0.5 N.m	< 2.5 mm²	< 2.5 mm²

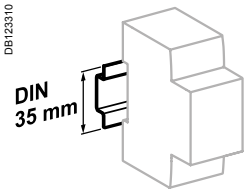
Technical data

Main characteristics		
Primary voltage		230 V AC ±10 %
Secondary voltage on load	For bell transformers	8-12-24 V AC ±15 %
	For safety transformers	12-24 V AC ±5 %

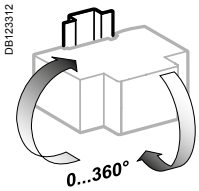
Transformer catalogue numbers	Rated secondary voltage	Off load voltage
A9A15216	8 V	13 V
	12 V	18 V
A9A15215	12 V	16 V
	24 V	32 V
A9A15222	12 V	14 V
	24 V	28 V

Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20 with terminal shield
Operating temperature		-20°C to +55°C
Storage temperature		-25°C to +80°C

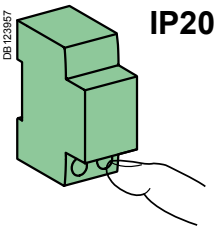
Note: Transformers have an off load operating voltage that is higher than the rated voltage. For loads that are sensitive to overloads (electro-magnetic circuits), the transformer must be made to operate at In. After operation of the protection device upon an overload, cut-off the power supply and let the transformer cool down before restart.



Clip on DIN rail 35 mm.



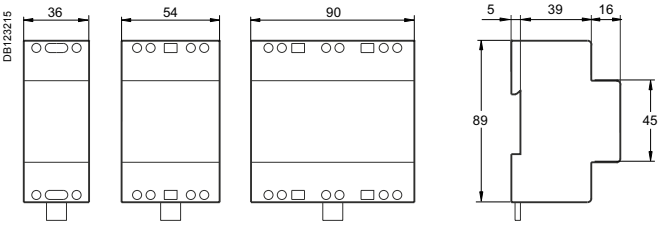
Bell transformer: indifferent position of installation.
Safety transformer: vertical position.



Weight (g)

iTR		
Type	**Cat. no.**	**Weight**
Bell	**A9A15215**	633
	A9A15216	275
Safety	**A9A15222**	1309

Dimensions (mm)



A9A15216 A9A15215 A9A15222

Modular iPC power sockets

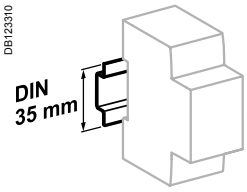
These power sockets allow low-voltage devices to be connected to the electrical network.

IEC 60884

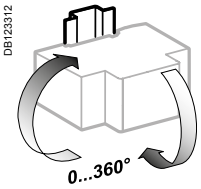
Catalogue numbers

iPC 16 A power sockets

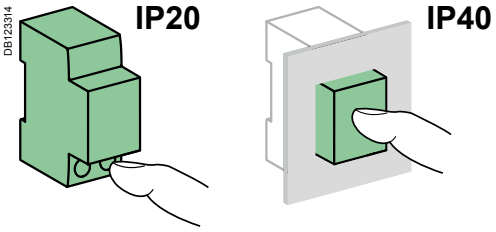
	 PB107159-35	 PB107161-35
Diagram	 DB106411	 DB106412
Approval pictogram	 DB106604 DB123399	 DB116619 DB123854
Type	**Standard**	**Standard**
Color	White	White
Cover	With	Without
Cat. no.	**A9A15306**	**A9A15310**
Standard	NF C 61314, NBN C 61112 NF C 15100 with “baby safe” type cover	VDE 0620, NEN 1020
Width in 9-mm modules	5	



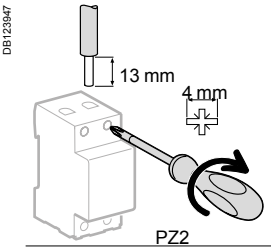
Clip on DIN rail 35 mm.



Indifferent position of installation.



Connection

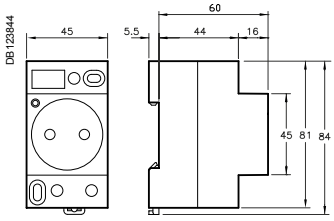


Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
		 DB122945	 DB122946
iPC 16 A	1.2 N.m	10 mm²	6 mm²

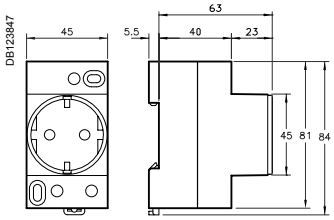
Technical data

Main characteristics		iPC 16 A
Voltage rating (Ue)		250 V AC
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		-25°C to +70°C
Storage temperature		-40°C to +80°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity of 95 % at 55°C)

Dimensions (mm)



iPC 16 A NF standard



iPC 16 A VDE standard

Weight (g)

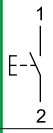
iPC power sockets	
Type	
iPC 16 A	98

iPB pushbutton

IEC 60669-1 and IEC 60947-5-1

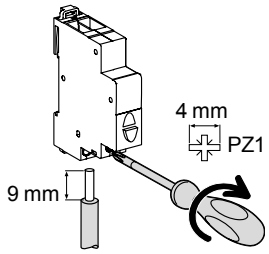
■ iPB pushbutton are used to control electric circuits by means of pulses.

Catalogue numbers

iPB pushbuttons		
		PB105259-40 
Diagram		1 NO 
Pushbutton	Colour	Grey
Cat. no.		**A9E18032**
Width in 9 mm modules		2

Connection

DB123133

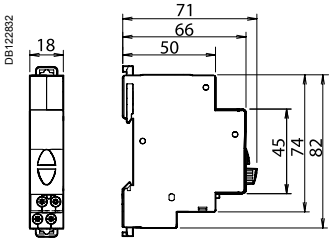


Tightening torque	Copper cables	
	Rigid	Flexible or with ferrule
	DB122945 	DB122946 
1 N.m	0.5 mm^2 min. 2 x 2.5 mm^2 max.	0.5 mm^2 min. 2 x 2.5 mm^2 max.

■ Phase-separated wall that can be divided to allow the teeth of all types of comb busbar to pass through.
■ Staggered terminals to simplify connection.

Dimensions (mm)

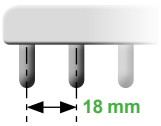
DB122832



Technical data

Main characteristics	
Pollution degree	3
Power circuit	
Voltage rating (Ue)	250 V AC
Current rating (Ie)	20 A
Additional characteristics	
Endurance (O-C)	30,000 operations AC22 (cos φ = 0.8)
Operating temperature	-35°C... +70°C
Storage temperature	-40°C... +80°C
Tropicalization	Treatment 2 (relative humidity 95 % at 55°C)

Horizontal comb busbars
18 mm modules for iC60

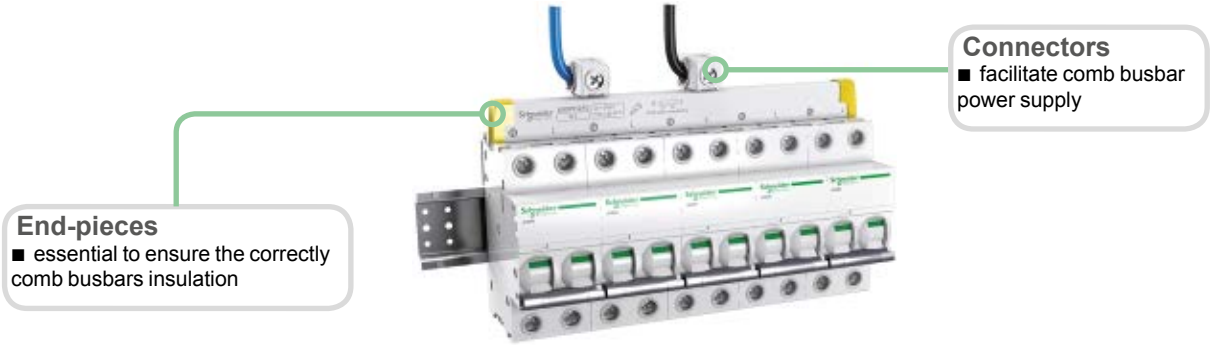


IEC 60947-7-1, IEC 61439-2

Acti 9 iC60	18 mm poles, cuttable			
Number of poles	**1P**	**1P+N**	**3P**	**3P+N**
				
Type	L1…	NL…	L1L2L3...	NL1L2L3...
Set of	1	1	1	1
Catalogue numbers				
6 modules of 18 mm	**A9XPH106**	-	**A9XPH306**	-
12 modules of 18 mm	**A9XPH112**	**A9XPH212**	**A9XPH312**	**A9XPH412**
24 modules of 18 mm	**A9XPH124**	**A9XPH224**	**A9XPH324**	**A9XPH424**
57 modules of 18 mm	**A9XPH157**	**A9XPH257**	**A9XPH357**	**A9XPH457**

Technical data

Operating current at 40°C	(Ie)	100 A
Short circuit current	(Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers
Rated insulation voltage	(Ui)	500 V AC
Operating voltage	(Ue)	415 V AC
Pollution degree		3
Fire resistance IEC 695-2-1		Self-extinguishing at 960°C 30 secondes
Color		RAL 7016 (anthracite grey)



Accessories

Number of poles	**1P**	**1P+N**	**3P**	**3P+N**	**-**	**-**
						
	End-pieces				**Tooth covers**	**Connectors**
						Monoconnect
	Lateral end-pieces providing IP20 protection				Insulate teeth that have been left free	Comb busbar power supply. Horizontal incomer on each side. For 35 mm² cable. Tightening torque 4 N.m
Set of	10	10	10	10	20	4
Catalogue numbers	**A9XPE110**	**A9XPE210**	**A9XPE310**	**A9XPE410**	**A9XPT920**	**A9XPCM04**

Horizontal comb busbars (cont.)

9 mm modules for iDPN N Vigi, DPN N Vigi

IEC 60439-1

iDPN N Vigi, DPN N Vigi	9 mm poles, cuttable							
Number of poles	**1P+N**				**3 (N+P)**			
								
Number of 18 mm modules	12	18	24	48	12	18	24	48
Supplied accessories Tooth covers (for 3 modules of 18 mm)	1	1	2	-	1	1	2	-
End-pieces	4	4	4	-	4	4	4	-
Catalogue numbers	**21501**	**19512**	**21503**	**21089**	**21505**	**19516**	**21507**	**21093**

Technical data

Operating current at 40°C	(Ie)	80 A
Short circuit current	(Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers
Rated insulation voltage	(Ui)	440 V AC
Operating voltage	(Ue)	230 V AC (P + N) - 400 V AC (3P + N)
Degree of protection		IP20
Pollution degree		3
Fire resistance IEC 695-2-1		Self-extinguishing at 960°C 30 secondes
Color		RAL 7035

Connectors
■ facilitate comb busbar power supply

End-pieces
■ essential to ensure the correctly comb busbars insulation

Tooth covers
■ Insulate teeth that have been left free

Accessories

Number of poles	**1P+N**	**3 (N+P)**			
					
	End-pieces		**Tooth covers (3 x 18 mm modules)**	**Tooth covers (1 x 18 mm module)**	**Connectors (grey)**
Set of	40		12	10	4
Catalogue numbers	**21094**	**21095**	**21096**	**10405**	**21098**

Linergy DS
Screw distribution blocks

IEC/EN 60947-7-1, IEC/EN 61439-1 & 2

Description

- Four-pole distribution block that can be installed on a standard DIN rail or on a mounting plate.
- Compatible with Prisma G and P, Pragma, Mini Pragma and Resbo series switchboards.
- Incomers and feeders are connected to screw terminals that accept rigid or flexible cables with ferrule.
- Optional: additional neutral terminal strip for four-pole distribution block.

Advantages

- Simplified power supply for main incomers.
- Easy phase balancing.
- Easy, effortless cabling due to excellent accessibility.
- Visible cabling.
- Insulation between phases.
- The single-pole distribution blocks are adjacent and bridgeable via the second incoming hole for parallel connection.

Screw distribution blocks

Number of poles		**4P**	
			
Rated operational current		100 A	160 A
Total connections capacity		4 x 7	4 x 12
Terminal capacity			
Diameter		2 x Ø 7.5 mm	1 x Ø 12 mm
		5 x Ø 5.5 mm	3 x Ø 9 mm
		-	8 x Ø 7.5 mm
		-	-
Rated peak withstand current (Ipk)	Ipk/60 ms	14 kÂ	22 kÂ
	Ipk/6 ms	24 kÂ	36 kÂ
Rated short-time withstand current (Icw) (IEC/EN 60947-7-1)		3 kA rms/1 s	8.4 kA rms/1 s
Width (number of 9 mm pitches)		8	18
Dimension (H x W x D)		100 x 71 x 50.5	100 x 174 x 50.5
Weight (g)		210	567
References		**LGY410028**	**LGY416048**

Linergy DS
Screw distribution blocks

DB406005_1.eps

On LGY416048 references.
Input cabling facilitated by side terminals.

Technical data

Common characteristics	
To IEC/EN 60947-7-1 and IEC/EN 61439-1 & 2	
Rated insulation voltage (Ui)	500 V AC
Rated operational voltage (Ue)	230 V AC (Ph/N) 440 V AC (Ph/Ph)
Rated impulse withstand voltage (Uimp)	8 kV
Rated conditional short-circuit current of an assembly	Up to the breaking capacity of Schneider Electric feeder circuit breakers, even in cascading configuration
Network frequency	50/60 Hz
Pollution degree	3
Overvoltage category	III
Additional technical characteristics	
Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C
Dielectric withstand (IEC/EN 60947-1)	2500 V AC

Terminal technical data								
Type	**PZ2 screw**							
Diameter	Ø 5.5 mm	Ø 5.8 mm	Ø 6 mm	Ø 6.5 mm	Ø 7.5 mm	Ø 8.5 mm	Ø 9 mm	Ø 9.5 mm
Section rigid cable	1.5 to 16 mm²	1.5 to 16 mm²	1.5 to 16 mm²	1.5 to 16 mm²	2.5 to 25 mm²	6 to 35 mm²	10 to 35 mm²	10 to 35 mm²
Section flexible cable or with ferrule	1.5 to 10 mm²	1.5 to 10 mm²	1.5 to 10 mm²	1.5 to 10 mm²	1.5 to 16 mm²	4 to 25 mm²	4 to 25 mm²	6 to 35 mm²
Tightening torque	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2.5 N.m	2.5 N.m
Type	**Hc screw**							
Diameter	Ø 9.5 mm	Ø 10 mm	Ø 12 mm		Ø 15.3 mm			
Section rigid cable	10 to 35 mm²	1.5 to 50 mm²	25 to 70 mm²	Ø ≤ 15 mm	35 to 120 mm²			
Section flexible cable or with ferrule	6 to 35 mm²	1.5 to 35 mm²	16 to 50 mm²		25 to 95 mm²			
Tightening torque	8 N.m	4 N.m	1P: 9 N.m	4P: 5 N.m	14 N.m			

Dimensions (mm)

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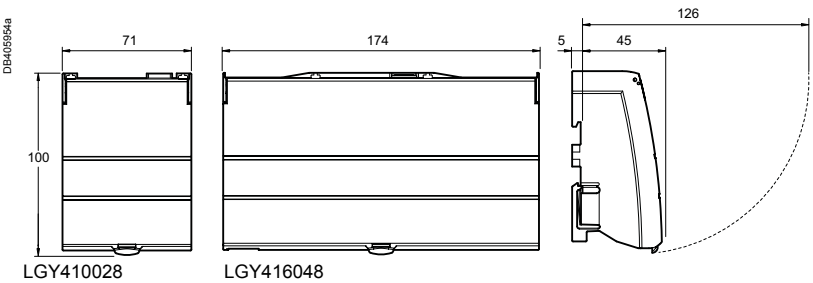


LGY410028 LGY416048

Linergy DX
Quick distribution blocks

PB104499-7.eps

IEC 60947-7-1, IEC 61439-2

Description

- Downstream circuits are connected from the front, to spring terminals.
- Contact pressure automatically adapts to the size of the conductor.
- Contacts are insensitive to vibrations and thermal variations.
- Only one cable (flexible or rigid) can be inserted per terminal.

Quick distribution blocks

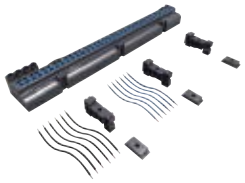
Number of poles		4P, incomers from top	4P, incomers from bottom
		PB104500-6.eps 	PB104499-6.eps 
Rated operational current at 40 °C	(Ie)	63 A	63 A
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested.	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage	(Ui)	500 V AC	500 V AC
Rated operational voltage	(Ue)	440 V AC	440 V AC
Rated impulse withstand voltage	(Uimp)	6 kV	6 kV
Rated short-time withstand current	(Icw)	-	-
Rated operational frequency		50/60 Hz	50/60 Hz
Degree of protection		IPxxB	IPxxB
Incoming terminals		1 tunnel terminal 25²/phase	1 tunnel terminal 25²/phase
Total connection capacity, outgoing terminals		24 connections: 4 x 6²/phase 12 x 6²/neutral	24 connections: 4 x 6²/phase 12 x 6²/neutral
Dimensions (H x W x D)		96.5 x 72 x 62 8 x 9 mm pitch	96.5 x 72 x 62 8 x 9 mm pitch
Installation		Clipped onto a DIN rail	Clipped onto a DIN rail
Other			
Standard for installation inside Prisma		IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11		960 °C	960 °C
Degree of pollution		3	3
References		**04040**	**04041**

Advantages

- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

Linergy FM
Quick device feeders

PB104505-30.eps



IEC 60947-7-1, IEC 61439-2

Description

- Distribution over full rows of modular devices.
- The distribution block is generally supplied by busbars in enclosures and cubicles.
- Easy phase balancing.
- Mix of devices and functions in the same row.
- Installation ≥ 160 A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

Distribution blocks

Number of poles			**4P**

PB104501-52-r.eps

			80 A
Rated peak withstand current		(Ipk)	15 kÂ
Rated conditional short-circuit current of an assembly		(Isc)	The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained.
Rated insulation voltage		(Ui)	500 V AC
Rated operational voltage		(Ue)	440 V AC
Rated impulse withstand voltage		(Uimp)	6 kV
Rated operational frequency			50/60 Hz
Degree of protection			IP20
Lenght	In 9 mm modules		48
	In 18 mm modules		24
Upstream connection capacity			Tunnel terminals for cables up to 25 mm²
Downstream connection capacity, cable to be used without ferrules	Max. 10 mm²	Phasesw	18
		Neutral	18
Accessories included	Pre-stripped copper connections		12 blue + 12 black
References			**04000**

Installation

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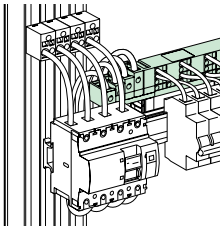
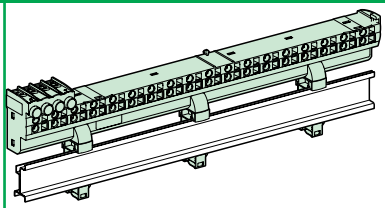


Clipped onto the back of a modular rail, or screw fixing

DB124195-LIN.eps



Clipped onto the back of a modular rail, or screw fixing

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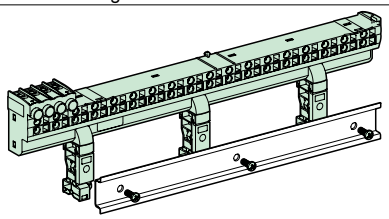


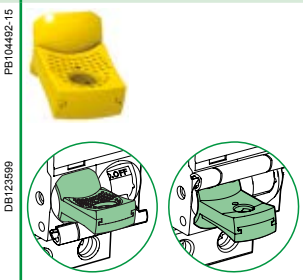
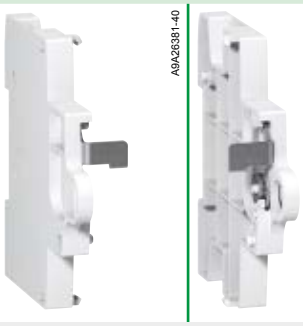
Can be mounted in Pragma Evolution enclosures and in Prisma Pack 160

Accessories for iC60, iID, iDPN Vigi, iSW-NA, iSW Acti 9

Mounting

Accessories	Rotary handle				Plug-in base	
	PB104509-35 			PB106297_10 	PB104508-35 	
Function						
	Front or side-mounted control ■ Degree of protection: IP55 rotary handle ■ Installation: □ the control mechanism is mounted on the device □ the rotary handle is fixed to the front or side of the enclosure ■ Front-mounted (on door or faceplate) ■ Prevents the door from opening when the device is in the ON position (can be deactivated) ■ Can be padlocked when the device is in the "open" position (can be padlocked with the device in the "closed" position subject to adaptation) ■ Can be locked by padlock of (dia. 5 to 8 mm), not supplied with the device ■ Pushbutton: iID test available in the front face of the rotary handle			■ The Laser Square tool brings the accurency to align the circuit breaker and the rotary handle	**Allows a breaker to be removed or replaced quickly, without handling the connections** ■ Degree of protection: IP20 ■ Consists of: □ a base to be fastened on a rail (or panel) □ 2 "blades" to be fastened in the device's terminals ■ Connection: tunnel terminals for cable up to 35 mm^2 rigid, 25 mm^2 flexible, ■ Installation: □ in universal enclosure □ on horizontal rail ■ Height: 178 mm ■ Not compatible with Vigi iC60 and auxiliaries ■ Can be locked by padlock of (dia. 6 mm), not supplied with the device	
Catalogue numbers	**A9A27005**	**A9A27006**	**A9A27008**	**GVAPL01**	**A9A27003** **(1 per pole)**	
	Operating sub-assembly					
	+	**+**				
	Black handle	Red handle	No handle			
Set of	**1**	**1**	**1**	**1**	**1**	
Suitability						
iC60	■ 2P, 3P, 4P				■	
iSW Acti 9	■ 2P, 3P, 4P				■	
iC60 + Vigi iC60	■ 2P, 3P, 4P				–	
iID	■				■ ⩽ 63 A	
iDPN Vigi	–				–	
iSW-NA	■				■	

Accessories for iC60, iID, iDPN Vigi, iSW-NA, iSW Acti 9 (cont.)

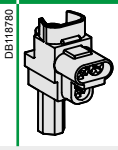
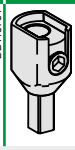
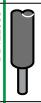
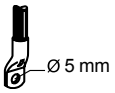
	Padlocking device			Wall mounting	Spare part Locking clips
	Front	Side			
					
	Used to padlock breaker in open or closed position ■ Padlock diameter: 3 to 6 mm ■ Sealable (max. diameter: 1.2 mm) ■ Locking in ON position does not prevent tripping of the breaker in the event of faults ■ Suitable for IEC/EN 60947-2 compliant disconnection	**Can be used to padlock a circuit breaker in open position** ■ Attached directly to the circuit breaker, it cannot be lost ■ Padlock diameter: 6 mm		**Can be used for wall mounted installation of any 18 mm DIN rail devices** ■ Degree of protection: IP40 ■ Sealable: (max. diameter: 1.5 mm)	**Top and bottom locking clips for monoconnect iC60**
	A9A26970	**A9A26380** Left-hand mounting	**A9A26381** Right-hand mounting	**15359**	**A9A27052**
	10	**1**	**1**	**1**	**10**
	■	■	■	■ All products up to 18 mm ■ Except iCT	■
	■	–	–		–
	■	–	–		–
	■	■	–		–
	■	–	–		–
	■	–	–		–

Accessories for iC60, iID, iDPN Vigi, iSW-NA, iSW Acti 9 (cont.)

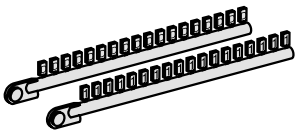
	Security					
Accessories	**Screw shield**		**Terminal shield**		**Inter-pole barrier**	**Spacer**
	PB104489-14 	PB104488-14 	PB104502-35 	PB104503-35 	PB104484-30 	PB104483-35 
Function						
	Prevents any contact with the connecting screws ■ Upgrades degree of protection to IP20D ■ Sealable, max. diameter 1.2 mm		**Prevents any contact with the terminals** ■ Upgrades degree of protection to IP20D ■ Sealable, max. diameter 1.2 mm ■ Set of two, for upstream and downstream terminals ■ For 3 poles: **A9A26975** + **A9A26976** ■ For 4 poles: 2 X **A9A26976**		**Enhances insulation between connections: cables, terminals, lugs, etc**	■ Used to: □ complete rows □ separate devices. Width: 1 x 9 mm module ■ Allows cable routing from one row to another, (above and below), up to 6 mm^2
Catalogue numbers	**A9A26982**	**A9A26981**	**A9A26975**	**A9A26976**	**A9A27001**	**A9A27062**
Set of	**12 x 1 pole**	**20 x 4 poles (splittable)**	**2 x 1 pole**	**2 x 2 poles**	**10**	**5**
Suitability						
iC60	–	■	■	■	■	■
iSW Acti 9	–	–	■	■	■	■
Vigi iC60	■	–	–	–	–	■
iID	–	■	–	■	■	■
iDPN Vigi	–	–	–	–	–	■
iSW-NA	–	■	–	■	■	■

Accessories for iC60, iID, iDPN Vigi, iSW-NA, iSW Acti 9 (cont.)

Connection

Accessories	Multi-cable terminal		50 mm² terminal Al	Screw-on connection for ring terminal
				
Function				
	For 3 copper cables: ■ Rigid up to 16 mm² ■ Flexible up to 10 mm²		**For aluminium cables from 16 to 50 mm²**	**For lug tipped cables, front or rear mounting**
				
Catalogue numbers	**19091**	**19096**	**27060**	**27053**
Set of	**4**	**3**	**1**	**8**
Suitability				
iC60 ⩽ 25 A	–	–	–	■
iC60 >25 A, iSW Acti 9	■	■	■	■
Vigi iC60	–	–	–	–
iID	■	■	■	■
iDPN Vigi	–	–	–	■
iSW-NA	■	■	■	■
Tightening torque	2 N.m		10 N.m	2 N.m
Lenght stripping	11 mm		13 mm	–
Tools to use	Dia. 5 mm or PZ2		Hc 1/5" or 5 mm	Dia. 5mm

Marking

Accessories	Marker strip
	
	Used for connection identification

Catalogue numbers	0: **AB1-R0** 1: **AB1-R1** 2: **AB1-R2** 3: **AB1-R3** 4: **AB1-R4**	5: **AB1-R5** 6: **AB1-R6** 7: **AB1-R7** 8: **AB1-R8** 9: **AB1-R9**	A: **AB1-GA** B: **AB1-GB** C: **AB1-GC** D: **AB1-GD** E: **AB1-GE** F: **AB1-GF** G: **AB1-GG** H: **AB1-GH** I: **AB1-GI**	J: **AB1-GJ** K: **AB1-GK** L: **AB1-GL** M: **AB1-GM** N: **AB1-GN** O: **AB1-GO** P: **AB1-GP** Q: **AB1-GQ** R: **AB1-GR**	S: **AB1-GS** T: **AB1-GT** U: **AB1-GU** V: **AB1-GV** W: **AB1-GW** X: **AB1-GX** Y: **AB1-GY** Z: **AB1-GZ**	+: **AB1-R12** -: **AB1-R13** Blank: **AB1-RV**
Set of	**250**					
Suitability						
iC60, iSW Acti 9	■ 4 markers max. per pole					
Vigi iC60	■ 4 markers max. per device					
iID	■ 4 markers max. per device					
iDPN Vigi	■ 4 markers max. per device					
iSW-NA	■ 4 markers max. per device					

Accessories for iC60, iID, iDPN Vigi, iSW-NA, iSW Acti 9 (cont.)

Dimensions (mm)

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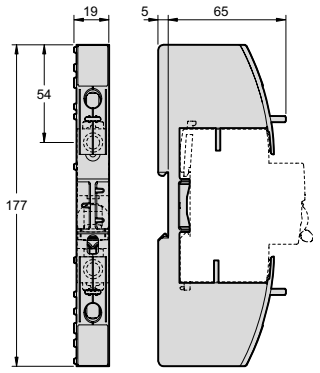

Plug-in base

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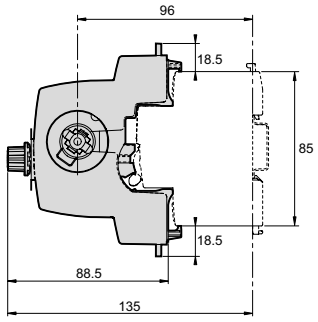
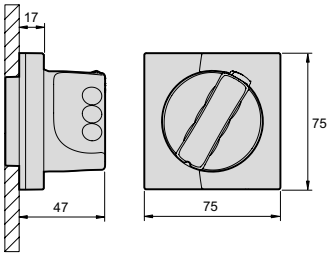
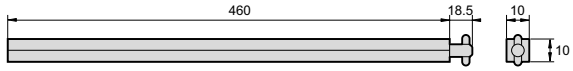


Control mechanism

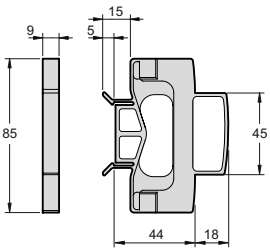


Handle



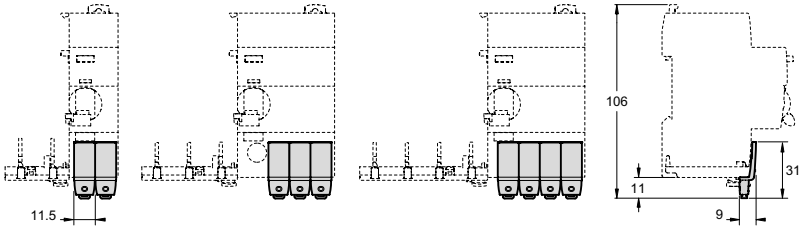
Rotary handle

DB124150



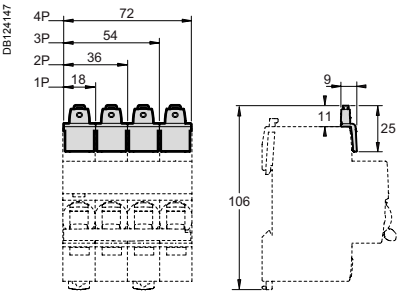
Spacer

DB124146



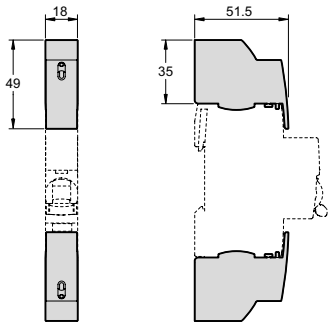
Screw shield 1P (A9A26982)

DB124147



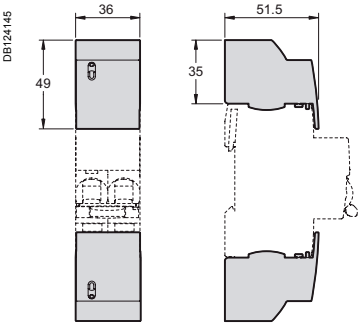
Screw shield 4P (A9A26981)

DB124144



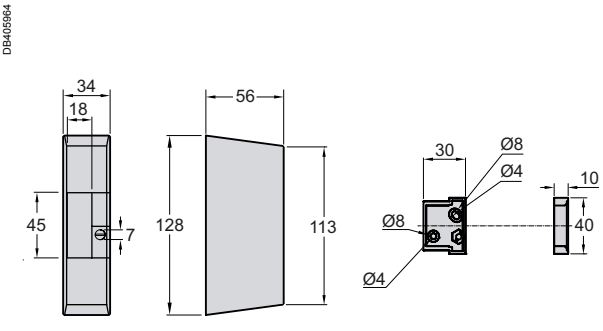
Terminal shield 1P

DB124145



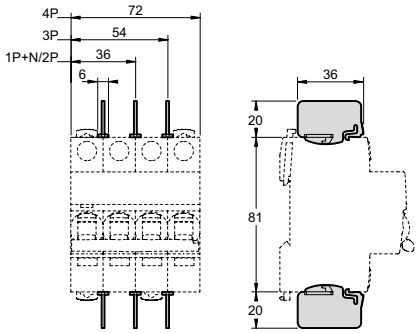
Terminal shield 2P

DB405964



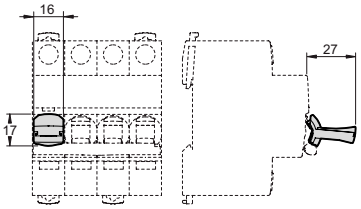
Wall mounted

DB124148



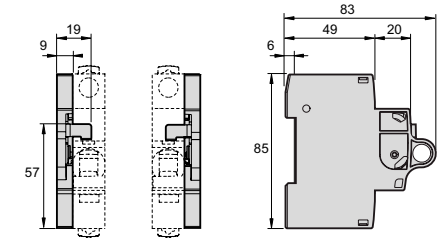
Inter-pole barrier

DB124143



Front padlocking device

DB407756

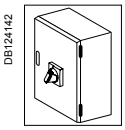


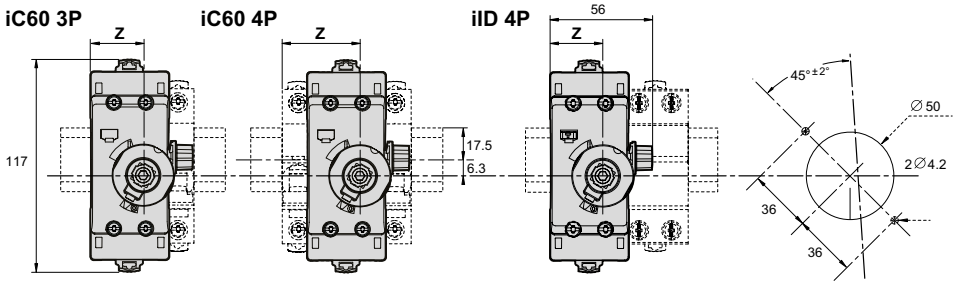
Side padlocking device

Accessories for iC60, iID, iDPN Vigi, iSW-NA, iSW Acti 9 (cont.)

Rotary handle installation

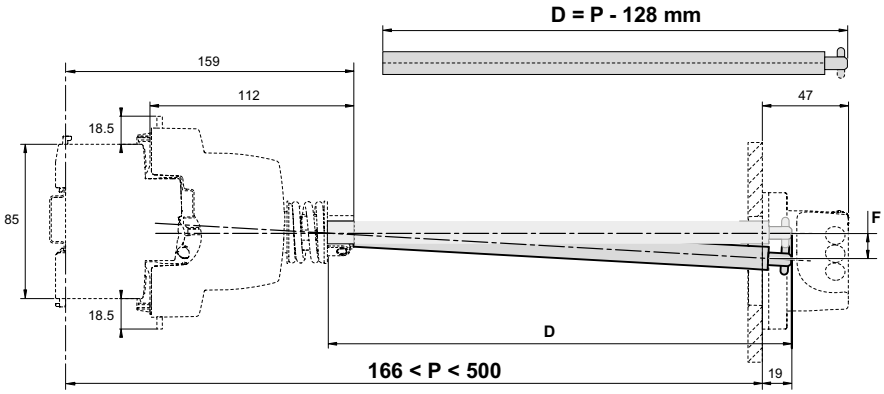
Dimensions (mm)

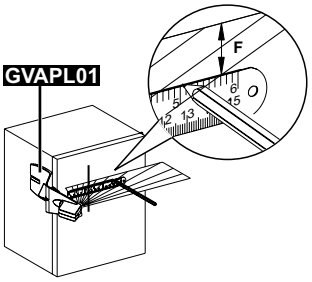




iC60	Z (mm)
2P	25.3
2P + Vigi	25.3
3P	25.3
3P + Vigi	43
4P	43
4P + Vigi	43

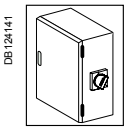
iID	Z (mm)
2P	25.3
4P	25.3

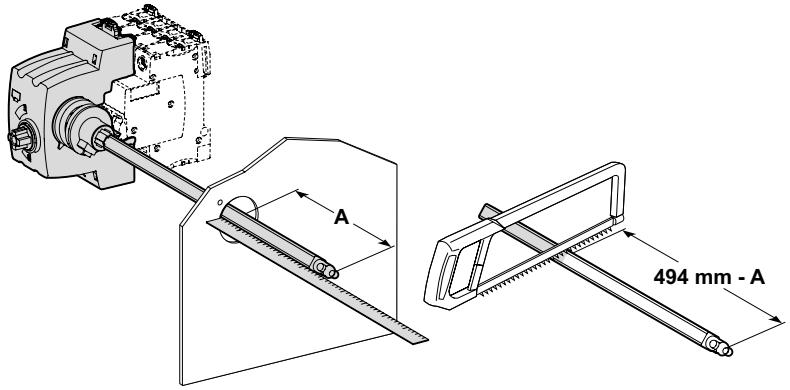


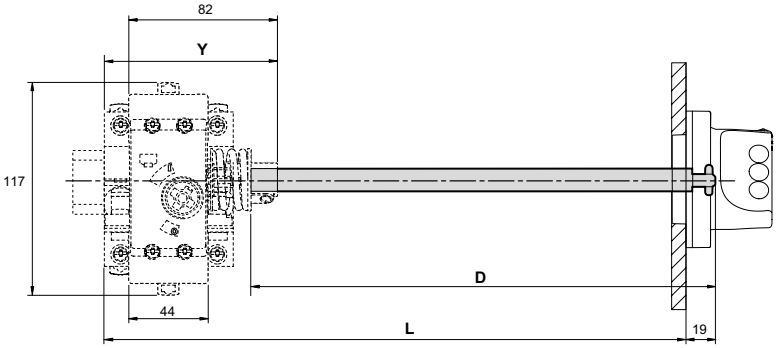


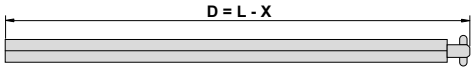
P (mm)	F (mm)
300	5
500	11

Rotary handle: front mounted control









iC60	X (mm)	Y (mm)
2P	44.5	76.8
2P + Vigi	44.5	76.8
3P	44.5	76.8
3P + Vigi	62	94.5
4P	62	94.5
4P + Vigi	62	94.5

iID/iSW-NA	X (mm)	Y (mm)
2P	44.5	76.8
4P	44.5	76.8

Rotary handle: side mounted control

Accessories for C120, C60H- DC, iSW, DPN N Vigi devices

Installation

Accessories	Rotary handle			Plug-in base		Padlocking device	
	PB100137_SE-24 PB100138_SE-24 			PB111764-40 		056886_SE 	057209J_SE-20 
Function							
	Front or side control of 2, 3 and 4-pole circuit breakers ■ Degree of protection: IP40 ■ A complete rotary handle consists of: □ a circuit-breaker operating sub-assembly, cat. no. **27046**, □ a handle cat. no. **27047** or a handle cat. no. **27048** ■ Installation: □ the circuit-breaker operating sub-assembly cat. no. **27046** is fixed to the circuit breaker □ the removable handle cat. no. **27047** is mounted on the removable front panel or on the enclosure door □ the fixed handle cat. no. **27048** is fixed to the front or side panel of the enclosure			**Allows a circuit breaker to be quickly removed or replaced, without touching the connections** ■ Degree of protection: IP20 ■ It consists of: □ a base to be fixed to a rail (or panel) □ 2 “blades” to be fixed in the device terminals ■ Connection: tunnel terminals for cables up to 50 mm² (rigid) or 35 mm² (flexible) ■ Installation: □ on backplate □ on a horizontal rail ■ Centreline between two rows: 200 mm ■ Only on the circuit breaker, without a Vigi device or auxiliary ■ Padlocking option (8 mm dia. padlock not supplied)		**Used to padlock a circuit breaker in the "open" or "closed" position** ■ Diameter of the padlock: 8 mm max. ■ Locking in the ON position does not prevent the circuit breaker from tripping in the event of a fault ■ Isolation: in conformity with IEC/EN 60947-2.	
Cat. numbers	**27047** Removable extended handle	**27048** Fixed handle	**27046** Operating sub-assembly	**26996** (1 per pole)	**26997** (1 per pole)	**27145**	**26970**
Set of	**1**	**1**	**1**	**1**	**1**	**4**	**2**
Suitable for the following devices:							
C120	■ 2P, 3P, 4P			–	■ ⩽ 63 A	■	–
C120 + Vigi C120	■ 2P, 3P, 4P			–	–	■	–
C60H-DC	■ 2P			■	–	–	■
iSW	■ iSW ⩾ at 4 modules of 9 mm			■ iSW 40 to 63 A	–	–	■
DPN N Vigi	■			–	–	–	■

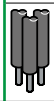
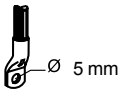
Accessories for C120, C60H- DC, iSW, DPN N Vigi devices (cont.)

Safety

Accessories	Screw shield		Terminal shield			Interpole barrier	Spacer
	056870_SE-33 	PB124114 	056869_SE-38 		DB123898	PB104483-35  	
Function							
	Prevents all contact with the fixing screws ■ The degree of protection becomes IP40 ■ Sealable, max. diameter 1.2 mm ■ Dividable		**Prevents all contact with the terminals** ■ Degree of protection becomes IP40 ■ Sealable, max. diameter 1.2 mm			**Improves the insulation between the connections: cables, terminals, lugs, etc.**	■ Used to: □ complete the rows □ separate the devices ■ Width: 1 x 9 mm module ■ Allows that 2 cables are routed from one row to another (above and below), up to 6 mm²
			■ 1P	■ 1P	■ 2P		
				■ 3P: 1 x 26975 + 1 x 26976 ■ 4P: 2 x 26976			
Cat. numbers	**18527**	**26981**	**18526**	**26975**	**26976**	**27001**	**A9N27062**
Set of	**2 (4P dividable)**		**2 (for upstream/downstream terminal)**			**10**	**1**
Suitable for the following devices:							
C120	■	–	■	–	–	■	■
Vigi C120	–	–	–	–	–	–	■
C60H-DC	–	■	–	■	■	■	■
iSW	–	■ iSW 40 to 125 A	–	■ iSW 40 to 125 A		■ iSW 40 to 125 A	■
	–	–	–	–		–	■

Accessories for C120, C60H- DC, iSW, DPN N Vigi devices (cont.)

Connection

Accessories	Multi-cable terminal		50 mm² Al terminal	Screw-on connection for ring terminal	Connection kit for ring terminals	Terminal for rear connector
	DB118780 		DB118782 	DB123897 	058967N-23 	DB118784 
Function						
	For 3 copper cables: ■ Rigid up to 16 mm² ■ Flexible up to 10 mm²		**For 16 to 50 mm² aluminium cables**	**For lug tipped cables, front or rear mounting**	**For terminal up to 63 A, front or rear access (screw Ø 5 mm)** ■ It incorporates a "conductive" part and an "insulating" part which ensures the phase-to-phase clearance	**For cable up to 50 mm² or by terminal** ■ Supplied with a 1P terminal shield
	DB118787 		DB122935  Al	DB118789  Ø 5 mm		
Cat. numbers	**19091**	**19096**	**27060**	**27053**	**17400**	**18528**
Set of	**4**	**3**	**1**	**8**	**2**	**2**
Suitable for the following devices:						
C120	■	■	■	■	–	■
Vigi C120	■	■	■	–	–	–
C60H-DC, iSW 40 to 125 A	■	■	■	■	■	–
C60NA-DC	■	■	■	■	–	–
DPN N Vigi	–	–	–	■	–	–
Tightening torque	2 N.m		10 N.m	2 N.m	–	–
Stripping length	11 mm		13 mm	–	–	–
Tools to be used	Diameter 5 mm or PZ2		Hc 1/5" or 5 mm	Diameter 5 mm	Diameter 5 mm	13 mm spanner

Identification

Accessories	Clip-on terminal marker strip			
	0312040_SE-23 			
Function	**For connection identification**			
Cat. numbers	0: **AB1-R0**	A: **AB1-GA**	K: **AB1-GK**	U: **AB1-GU**
	1: **AB1-R1**	B: **AB1-GB**	L: **AB1-GL**	V: **AB1-GV**
	2: **AB1-R2**	C: **AB1-GC**	M: **AB1-GM**	W: **AB1-GW**
	3: **AB1-R3**	D: **AB1-GD**	N: **AB1-GN**	X: **AB1-GX**
	4: **AB1-R4**	E: **AB1-GE**	O: **AB1-GO**	Y: **AB1-GY**
	5: **AB1-R5**	F: **AB1-GF**	P: **AB1-GP**	Z: **AB1-GZ**
	6: **AB1-R6**	G: **AB1-GG**	Q: **AB1-GQ**	+: **AB1-R12**
	7: **AB1-R7**	H: **AB1-GH**	R: **AB1-GR**	-: **AB1-R13**
	8: **AB1-R8**	I: **AB1-GI**	S: **AB1-GS**	Blank: **AB1-RV**
	9: **AB1-R9**	J: **AB1-GJ**	T: **AB1-GT**	
Set of	**250**			
Suitable for the following devices:				
C120	■ 4 markers max. per pole			
Vigi C120	■ 4 markers max. per device			
C60H-DC	■ 4 markers max. per pole			
iSW	-			
DPN N Vigi	■ 4 markers max. per pole			

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