Low Voltage Final Distribution

Acti9 Protection and Isolation	
General overview Circuit Protective Devices	C-3
Switches and Disconnectors	
iSW switches	C-5
Accessorisation / Auxiliarisation iSW	C-8
Circuit Protective Devices - MCBs	
iC60N miniature circuit breakers (6000A MCBs)	C-9
iC60H miniature circuit breakers(10000A MCBs)	C-12
iC60L miniature circuit breakers (15kA MCBs)	
Accessorisation / Auxiliarisation iC60	C-19
C60H-DC miniature circuit breakers (DC MCBs)	C-20
Accessorisation / Auxiliarisation C60H-DC	C-23
C120N miniature circuit breakers (10000A MCBs)	C-24
C120H miniature circuit breakers (15000A MCBs)	C-25
Accessorisation / Auxiliarisation C120, Vigi C120	C-28
STI isolatable fuse-carriers	C-29
Earth Leakage Protection Devices	
General overview	C-32
Residual Current Devices - RCDs	
ilD residual current circuit breakers (A, A-SI type RCCBs)	C-35
iID residual current circuit breakers (B-SI type RCCBs)	C-38
iID residual current circuit breakers (B-EV type RCCBs)	C-39
Vigi iC60 add-on residual current devices (A type)	C-42
Vigi C120 add-on residual current devices (A type)	C-46
iDPN Vigi residual current devices (A, A-SI type RCBOs)	C-49
iC60N residual current devices (A type RCBOs)	C-51
iC60H residual current devices (A type RCBOs)	C-52
iC60H2 residual current devices (A type 2P RCBOs)	C-53
iSPN Vigi residual current devices (10mA RCBOs)	C-56
Arc Fault Detection Devices - AFDDs	
iDPH VigiARC Arc fault detection RCBOs	C-58
Surge Protection Devices - SPDs	
iPRD1 Surge arresters Type 1 + 2	C-60
iPRD Surge arresters Type 2 or Type 3	C-62
Accessories	
iC60, iID, iDPN Vigi, iSW	C-66
C120, C60H-DC, iSW	C-71
NG125 Devices	C-73
Auxiliaries	
iC60, iID, iDPN Vigi, iDPN VigiARC	C-74
C120, C60H-DC	C-82

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Low Voltage Final Distribution

Acti9 Control and signalling

Push-buttons and Indication	
iPB Push-Buttons	C-87
ilL indicator lights	C-88
Selector switches	
iSSW Linear Switches	C-89
Remote Control	
iCT contactors	C-90
iCT contactor auxiliaries	C-95
iCT+ high-performance contactors	C-100
iTL impulse relays	C-102
iTL+ high-performance impulse relays	C-116
Time Delay Relays	C-118

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General overview

Choice of Circuit Protective Devices



Protection of electrical circuits against short circuits and thermal overloads



Protection of loads against overloads



Protection of control devices



Protection for people against indirect contacts in IT and TN earthing systems Circuit breakers can:

- Provide protection against fires that might be caused by a faulty electric circuit (short circuit, overload, insulation fault)
- Provide protection against electric shock in the event of indirect contact.
- The choice of circuit breakers must be optimised to provide optimum protection while providing continuity of service.
- Although circuit breakers are sometimes used as circuit control devices, it is recommended to install separate control devices which are more suitable for frequent switching operations (switch, contactor, impulse relay).

Choice of protective circuit breakers

This depends on several criteria:

- breaking capacity
- max. voltage rating
- planned amperage for the circuit to be protected
- nature and cross section of cables
- ambient temperature (possible derating)
- the loads, which determine the number of poles of the protective circuit breaker installed on their power supply circuit and the tripping curve.

Choice of breaking capacity

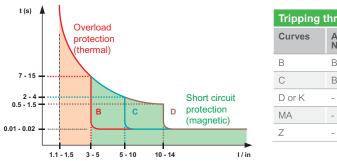
- The breaking capacity must be greater than or equal to the prospective short circuit current (lsc) upstream of the circuit breaker (lsc depends on the length and cross section of the cable and the power of the source).
- However, in the event of use in combination with an upstream circuit breaker limiting the current, this breaking capacity can possibly be reduced (cascading, see module 557E4200 and short circuit current limiting, see module CA908025).

Choice of rating

- The rating (In) is chosen above all to protect the electrical connections:
 - for cables: it is chosen according to the current carrying capacity
 - for Canalis prefabricated busbar trunking: it must be simply less than or equal to the rating of the busbar trunking.
- Generally, the rating should be greater than the nominal current of the circuits.

Choice of tripping curve

- The tripping curve makes the protection more or less sensitive to:
- the inrush current at power up
- the overload current.



Tripping thresholds (x In)							
Curves	AS/NZS 60898 and AS/ NZS IEC 60947-2	AS/NZS 60898 and AS/ NZS IEC 60947-2					
В	Between 3 In and 5 In	Between 3.2 In and 4.8 In					
С	Between 5 In and 10 In	Between 7 In and 10 In					
D or K	-	Between 10 In and 14 In					
MA	-	12 In					
Z	-	Between 2.4 In and 3.6 In					

• To prevent nuisance tripping, it may be advisable to choose a less sensitive curve, e.g. change from B to C (tripping curves, see module CA908024).



Acti9 Isolation and Overcurrent Protection

General overview

Choice of Circuit Protective Devices

Continuity of service

- Nuisance tripping can be generated by:
 - the inrush current at circuit closure
 - the overload current, and sometimes the harmonic current flowing through the neutral of three-phase circuits⁽¹⁾.

Solutions

- Choose a circuit breaker with a less sensitive curve: change from B curve to C curve or from C curve to D curve (2).
- Reduce the number of loads per circuit.
- Energise the circuits in succession, using time delay auxiliaries on the control devices.
- Increase the rating of the circuit breaker to a greater value that will still maintain the protection of the downstream circuit.
- Ensure discrimination of the protective devices (see modules 557E4300/4305/4310/4320/4330).

Discrimination is the coordination of automatic breaking devices in such a way that a fault occurring at any point on the network is interrupted by the circuit breaker located immediately upstream of the fDIt, and by it alone.

Total discrimination

For all values of the fault, from overload to non-resistive short circuit, distribution is fully discrimina 📩 if D2 opens and if D1 remains closed.

Partial discrimination

Discrimination is partial if the above condition is not complied with up to full short circuit current, but only up to a lower value. This value is called the discrimination limit. In the event of a fault exceeding this value, circuit breakers D1 and D2 open.

- (1) In the specific case of three-phase circuits supplying single-phase non-linear loads such as single-phase VSD's or discharge lamps with electronic ballasts, harmonic currents of the third order and multiples of three are generated. The neutral cable must be sized to prevent it from overheating. However, the current flowing through the neutral conductor may become greater than the current of each phase and cause nuisance tripping.
- (2) In the case of installations with very long cables in a TN or IT system, it may be necessary to add an earth leakage protection device to provide protection against indirect contact due to increased earth fault loop impedance



Switching and Disconnection

The purpose of disconnection is to separate and isolate a circuit or a device from the rest of the electrical installation in order to provide safety for personnel having to work on the electrical installation for maintenance or repair.

- The circuit breaker must interrupt all active conductors. The neutral (1), may be interrupted according to the restrictions of AS/NZS 3000.
- It must be lockable or padlockable in "open" position in order to prevent any unintentional reclosing, at least in industrial environments.
- It must be suitable for isolation.

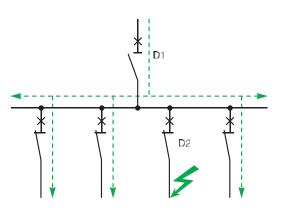
(1) With the exception of the PEN conductor, which should never be cut off.

Motor protection

Motor protection

Protection of motors against risks of overheating due, for example, to an extended overload, rotor blocking or singlephase operation. Given the specific characteristics of motors:

- overload detection is provided by a thermal relay specially designed for their protection.
- in this case short circuit protection is provided by a circuit breaker without a thermal release (MA type).





General overview

iSW switches



AS/NZS IEC 60947-3

As per the above standards:

The switch-disconnectors combine the following functions:

Contrc jopening and closing of circuits under load).

iOF au iliary

• Mounted on the left, it indicates the "open" or "closed" position of the switch and has a normally open (NO) or norma \mathbf{J} closed (NC) contact.

Catal g numbers

40 to 125 A iSW switch-disconnectors

Туре	Ш	Rating	Voltage (Ue)	Reference	Width in 9 mm modules
1P	Ϋ́L	63 A	240 V AC	A9S66163	2
	יו <u>י</u>	100 A	240 V AC	A9S66191	
	 2	125 A	240 V AC	A9S66192	
2P	1 3	63 A	415 V AC	A9S66263	4
	$\frac{1}{4}$	100 A	415 V AC	A9S66291	
	 2 4	125 A	415 V AC	A9S66292	
3P	135	63 A	415 V AC	A9S66363	6
	\ <u>+</u> +	100 A	415 V AC	A9S66391	
	 2 4 6	125 A	415 V AC	A9S66392	
4P	1357	63 A	415 V AC	A9S66463	8
	<u> </u>	100 A	415 V AC	A9S66491	
	 2 4 6 8	125 A	415 V AC	A9S66492	
Opera	ting frequency		50/60 Hz		
Acces	ssories		Catalog page C63		



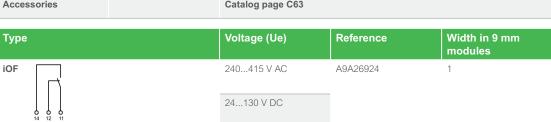
PB110912

PB110909

PB110910

PB110911







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General overview

iSW switches

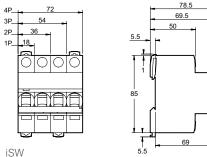
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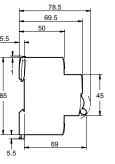


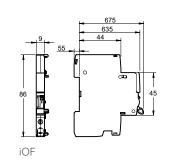


Clip for dismounting

Dimensions (mm)







Positive contact indication

opening of all the poles

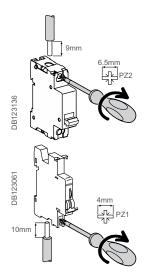
 Suitable for industrial isolation according to AS/NZS IEC 60947-2 standard. • A green strip on the toggle indicates full

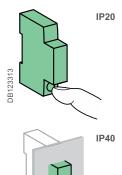
iSW switches

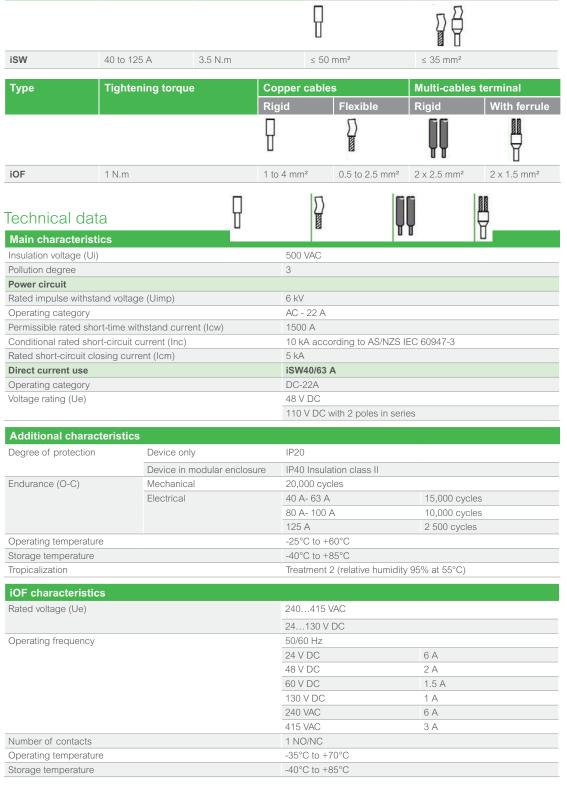
Connection

Rating

Туре







П

Copper cables

Rigid

Tightening torque

Flexible or with ferrule



Accessories

Accessorisation / Auxiliarisation iSW

27060

A9A26924

Connection accessories

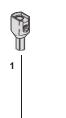
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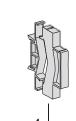
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50 mm² Al terminal

Mounting accessories

2	Sealable terminal	1P (set of 2)	A9A26975
	shields for top and bottom connection	2P (set of 2)	A9A26976
		3P	1P + 2P
		4P	2P + 2P
3	Interpole barrier	(set of 10)	A9A27001
4	9 mm spacer		A9A27062
5	Padlocking device	(set of 10)	A9A26970
6		Plug-in base	A9A27003
7	Rotary handle	Black handle	A9A27005
		Red handle	A9A27006

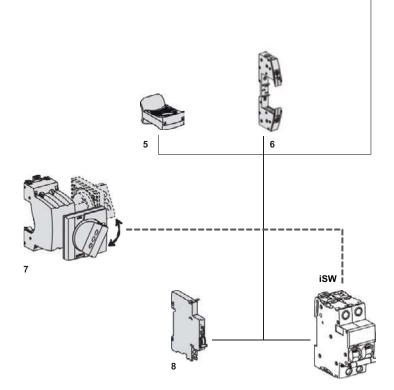




Auxiliary

Indication

8 iOF open/close auxiliary contact



3

iC60N miniature circuit breakers (curve C, D)



As per the above standards:

- 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 AS/NZS IEC 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 AS/NZS IEC 60947-2					Service breaking capacity (lcs)
		Voltage (Ue)		
Ph/Ph (2P, 3P)		12 to 133 V	230 to 240V		
Ph/N (1P)		12 to 60 V	100 to 133 V		
Rating (In)	1 to 4 A	50 kA	50 kA	50 kA	100 % of Icu
	6 to 63 A	36 kA	20 kA	10 kA	75 % of Icu

Breaking capacity (Icn) according to AS/NZS 60898-1					
Voltage (Ue)					
Ph/Ph		400 to 415 V			
Ph/N		230 to 240 V			
Rating (In)	1 to 63 A	6000 A			

Direct current (DC)

Breaking capaci	ty (Icu) acco	Service breaking capacity (lcs)		
		Voltage (Ue)	
Between +/-		250 V	500 V	
Number of poles		1P	2P	
Rating (In) 1 to 63 A 6		6 kA	6 kA	75% of Icu

Catalog numbers

iC60N circuit breaker

Туре	1P		2P		3P	
	¹ [±] ² Curve		1 3 <u>*</u> <u>*</u> 	urve	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	Curve
Rating (In)	D	С	D	С	D	С
1 A(1)		A9F44101		A9F44201		A9F44301
2 A(1)		A9F44102		A9F44202		A9F44302
4 A(1)		A9F44104		A9F44204		A9F44304
6 A	A9F45106	A9F44106	A9F45206	A9F44206	A9F45306	A9F44306
10 A	A9F45110	A9F44110	A9F45210	A9F44210	A9F45310	A9F44310
16 A	A9F45116	A9F44116	A9F45216	A9F44216	A9F45316	A9F44316
20 A	A9F45120	A9F44120	A9F45220	A9F44220	A9F45320	A9F44320
25 A	A9F45125	A9F44125	A9F45225	A9F44225	A9F45325	A9F44325
32 A	A9F45132	A9F44132	A9F45232	A9F44232	A9F45332	A9F44332
40 A	A9F45140	A9F44140	A9F45240	A9F44240	A9F45340	A9F44340
50 A	A9F45150	A9F44150	A9F45250	A9F44250	A9F45350	A9F44350
63 A	A9F45163	A9F44163	A9F45263	A9F44263	A9F45363	A9F44363
Width in 9-mm modules	2		4		6	





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General overview

iC60N circuit breakers (curve C, D) (cont.)



Double clip for dismounting with comb busbar in place



Large circuit labelling area



Insulated terminals IP20



VISI-SAFE window

Fault tripping is indicated by a red mechanical indicator on the front face



Positive contact indication

- Suitable for industrial isolation according to AS/NZS IEC 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

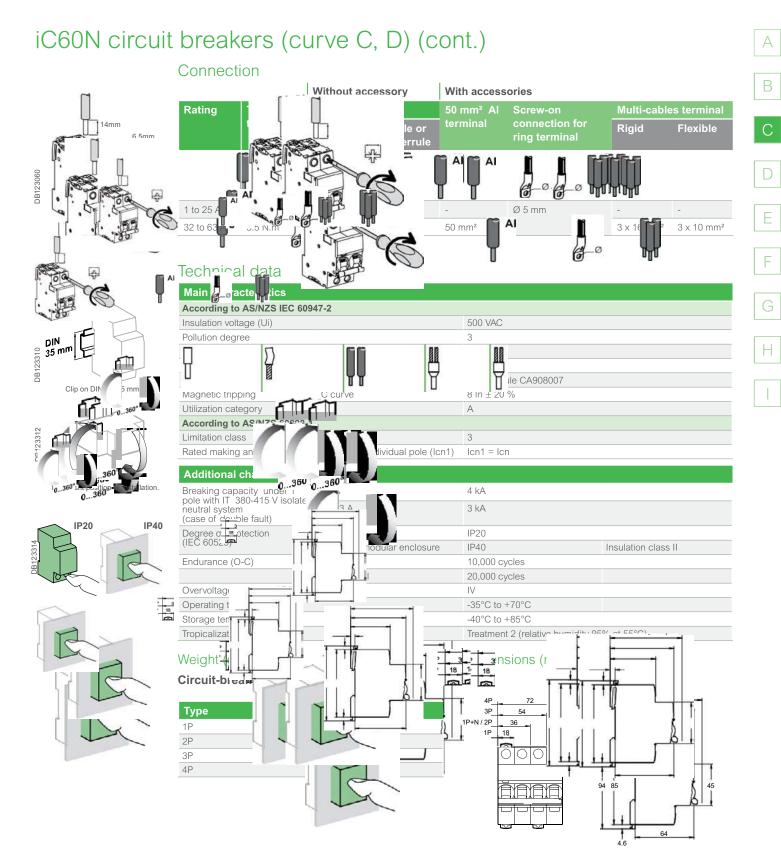
Increased product service life thanks to:

- 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.



Double clip for dismounting with comb busbar in place





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General overview

iC60H miniature circuit breakers (curve B, C, D)



As per the above standards:

- 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 AS/NZS IEC 60947-2, standard.
 - fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capac		Service breaking capacity (Ics)					
	Voltage (Ue)						
Ph/Ph (2P, 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 63 A	42 kA	30 kA	15 kA	10 kA	75 % of Icu	

Breaking capacity (Icn) according to AS/NZS 60898-1						
Voltage (Ue)						
Ph/Ph		400 to 415 V				
Ph/N		230 to 240 V				
Rating (In)	1 to 63 A 10000 A					

Direct current (DC)

Breaking capaci	Service breaking					
	capacity (lcs)					
Between +/-	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Number of poles	1P		2P	ЗP	4P	
Rating (In)	20 kA	15 kA	15 kA	15 kA	15 kA	100% of Icu

Catalog numbers

iC60H circuit breaker

Туре	1P			2P		
	1 ¥1 2			1 3 ¥ 1 5 1 4		
Rating (In)	Curve			Curve		
	В	С	D ⁽¹⁾	В	С	D ⁽¹⁾
1 A ⁽¹⁾	A9F53101	A9F54101	A9F55101	A9F53201	A9F54201	A9F55201
2 A ⁽¹⁾	A9F53102	A9F54102	A9F55102	A9F53202	A9F54202	A9F55202
4 A ⁽¹⁾	A9F53104	A9F54104	A9F55104	A9F53204	A9F54204	A9F55204
6 A	A9F53106	A9F54106	A9F55106	A9F53206	A9F54206	A9F55206
10 A	A9F53110	A9F54110	A9F55110	A9F53210	A9F54210	A9F55210
16 A	A9F53116	A9F54116	A9F55116	A9F53216	A9F54216	A9F55216
20 A	A9F53120	A9F54120	A9F55120	A9F53220	A9F54220	A9F55220
25 A	A9F53125	A9F54125	A9F55125	A9F53225	A9F54225	A9F55225
32 A	A9F53132	A9F54132	A9F55132	A9F53232	A9F54232	A9F55232
40 A	A9F53140	A9F54140	A9F55140	A9F53240	A9F54240	A9F55240
50 A	A9F53150	A9F54150	A9F55150	A9F53250	A9F54250	A9F55250
63 A	A9F53163	A9F54163	A9F55163	A9F53263	A9F54263	A9F55263
Width in 9-mm modules	2			4		





С

iC60H miniature circuit breakers (curve B, C, D) (cont.)

Catalog numbers

Туре

iC60H circuit breaker

3P		
1 *	* *	

					Г 3	
Rating (In)	Curve			Curve		
	В	С	D ⁽¹⁾	В	С	D ⁽¹⁾
1 A ⁽¹⁾	A9F53301	A9F54301	A9F55301	A9F53401	A9F54401	N/A
2 A ⁽¹⁾	A9F53302	A9F54302	A9F55302	A9F53402	A9F54402	A9F55402
4 A ⁽¹⁾	A9F53304	A9F54304	A9F55304	N/A	A9F54404	A9F55404
6 A	A9F53306	A9F54306	A9F55306	A9F53406	A9F54406	A9F55406
10 A	A9F53310	A9F54310	A9F55310	A9F53410	A9F54410	A9F55410
16 A	A9F53316	A9F54316	A9F55316	A9F53416	A9F54416	A9F55416
20 A	A9F53320	A9F54320	A9F55320	A9F53420	A9F54420	A9F55420
25 A	A9F53325	A9F54325	A9F55325	A9F53425	A9F54425	A9F55425
32 A	A9F53332	A9F54332	A9F55332	A9F53432	A9F54432	A9F55432
40 A	A9F53340	A9F54340	A9F55340	A9F53440	A9F54440	A9F55440
50 A	A9F53350	A9F54350	A9F55350	A9F53450	A9F54450	A9F55450
63 A	A9F53363	A9F54363	A9F55363	A9F53463	A9F54463	A9F55463
Width in 9-mm modules	6			8		

4P

 $\overset{1}{\underline{x}},\overset{3}{\underline{x}},\overset{5}{\underline{x}},\overset{7}{\underline{x}}$

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General overview

iC60H circuit breakers (curve B, C, D) (cont.)

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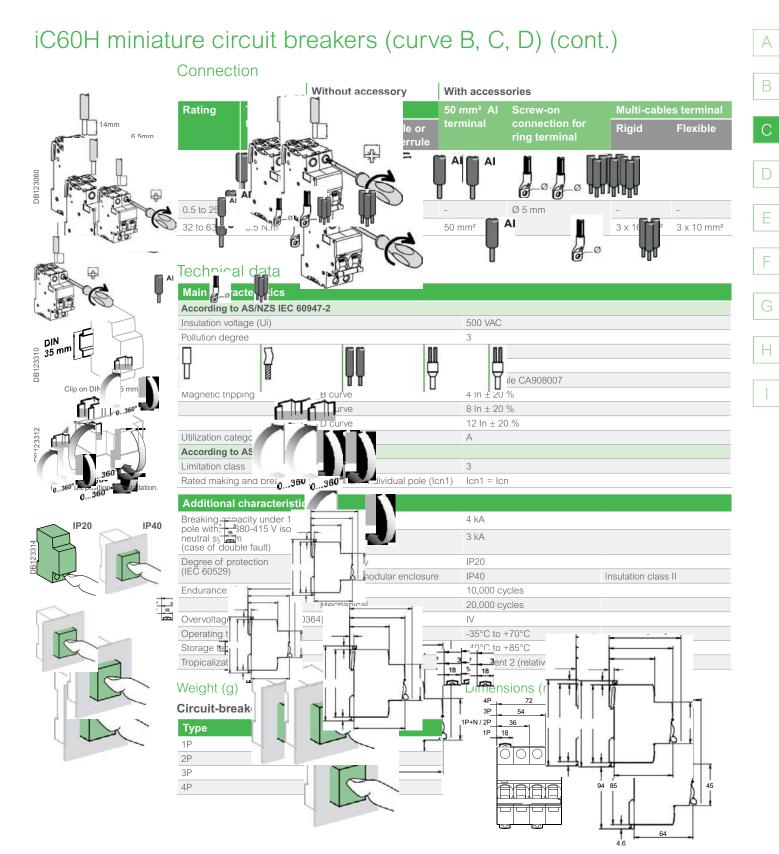


Double clip for dismounting with comb busbar in place

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.





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General overview

iC60L miniature circuit breakers (curve B, C)



AS/NZS IEC 60947-2 AS/NZS 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 AS/NZS IEC 60947-2, standard.
- fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capaci	ty (Icu) acc	ording to AS/N	ZS IEC 60947-2	2		Service breaking
		Voltage (Ue)				capacity (Ics)
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 63 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 capacit	y (Icn) acco	ording to AS/NZS 60898-1
		Voltage (Ue)
Ph/Ph		400 to 415 V
Ph/N		230 to 240 V
Rating (In)	1 to 40 A	15000 A

Direct current (DC)

Breaking capacity (cu) accordin	g to AS/NZS IE	EC 60947-2			Service breaking
	Voltage (Ue)	j.				capacity (Ics)
Between +/-	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Number of poles	1P		2P	3P	4P	
Rating (In) 0.5 to 63 A	25 kA	20 kA	20 kA	20 kA	20 kA	100% of Icu

Catalog numbers

iC60L circuit breaker

Туре	1P		2P	
	1 ¥ 2		1 3 * * ~ ~ ~ ~	
Rating (In)	Curve		Curve	
	В	С	В	С
1 A	A9F93101	A9F94101	A9F93201	A9F94201
2 A	A9F93102	A9F94102	A9F93202	A9F94202
4 A	A9F93104	A9F94104	A9F93204	A9F94204
6 A	A9F93106	A9F94106	A9F93206	A9F94206
10 A	A9F93110	A9F94110	A9F93210	A9F94210
16 A	A9F93116	A9F94116	A9F93216	A9F94216
20 A	A9F93120	A9F94120	A9F93220	A9F94220
25 A	A9F93125	A9F94125	A9F93225	A9F94225
32 A	A9F93132	A9F94132	A9F93232	A9F94232
40 A	A9F93140	A9F94140	A9F93240	A9F94240
50 A	A9F93150	A9F94150	A9F93250	A9F94250
63 A	A9F93163	A9F94163	A9F93263	A9F94263
Width in 9-mm modules	2		4	

(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.







iC60L circuit breakers (curve B, C) (cont.)

Catalog numbers				
iC60L circuit breaker	3P		4P	
Туре				
			* * * * 	
Rating (In)	2 4 6		2 4 6 8 Curve	
	В	С	В	С
1 A	A9F93301	A9F94301	A9F93401	A9F94401
2 A	A9F93302	A9F94302	A9F93402	A9F94402
4 A	A9F93304	A9F94304	A9F93404	A9F94404
6 A	A9F93306	A9F94306	A9F93406	A9F94406
10 A	A9F93310	A9F94310	A9F93410	A9F94410
16 A	A9F93316	A9F94316	A9F93416	A9F94416
20 A	A9F93320	A9F94320	A9F93420	A9F94420
25 A	A9F93325	A9F94325	A9F93425	A9F94425
32 A	A9F93332	A9F94332	A9F93432	A9F94432
40 A	A9F93340	A9F94340	A9F93440	A9F94440
50 A	A9F93350	A9F94350	A9F93450	A9F94450
63 A	A9F93363	A9F94363	A9F93463	A9F94463
Width in 9-mm modules	6		8	

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.



Double clip for dismounting with comb busbar in place

Schneider

Large circuit labelling area



with comb busbar in place



VISI-SAFE window Fault tripping is indicated by a red

mechanical indicator on the front face

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Positive contact indication

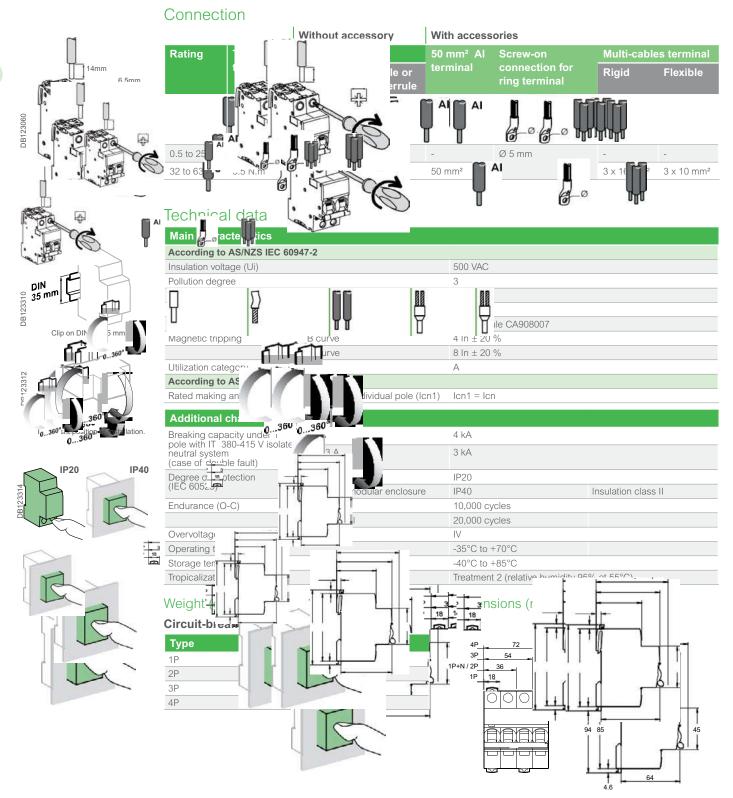
- Suitable for industrial isolation according to AS/ NZS IEC 60947-2 standard.
- The presence of the green strip guarantees • physical opening of the contacts and allows operations to be performed on the downstream circuit in complete safety



General overview

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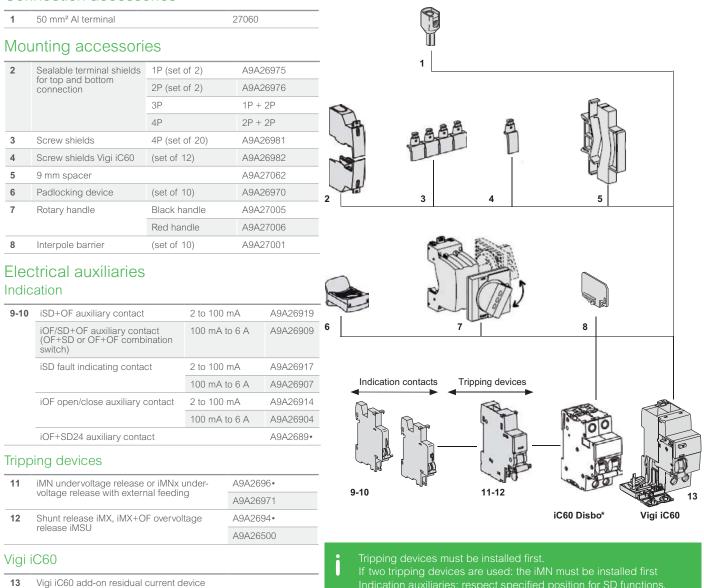
iC60L circuit breakers (curve B, C) (cont.)



Accessories

Accessorisation / Auxiliarisation iC60

Connection accessories



Assembly rule

The mounting order and the number for the various auxiliaries must be complied with.

The tripping auxiliaries iMN, iMX, iMSU...) should be mounted first 1 as close as possible to the main device.

Then at the left, the indicating auxiliaries (iOF, iSD) should be mounted 2 then 3 complying with the following association table.

Indicating auxiliaries		Tripping auxiliaries	Device	Vigi iC60
3	+ 2	+1		
1 iOF	1 (iSD or iOF)	2 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU)	iC60 Disbo	Vigi iC60
-	-	3 iMSU		



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C60H-DC miniature circuit breakers (curve C)

DC circuit supplementary protectors for feeders / distribution systems



AS/NZS IEC 60947-2

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

Direct current (DC)

Breaking capacity	(Icu) accore	ding to AS/NZ	S IEC 60947-2	2		Service breaking
Туре	Voltage					capacity (Ics)
1P	110 V	220 V	250 V	440 V	500 V	
Rating (In) 1 to 63 A	20 kA	10 kA	6 kA	-	-	75% Icu
2P (in series)	110 V	220 V	250 V	440 V	500 V	
Rating (In) 1 to 63 A	-	20 kA	20 kA	10 kA	6 kA	75% Icu

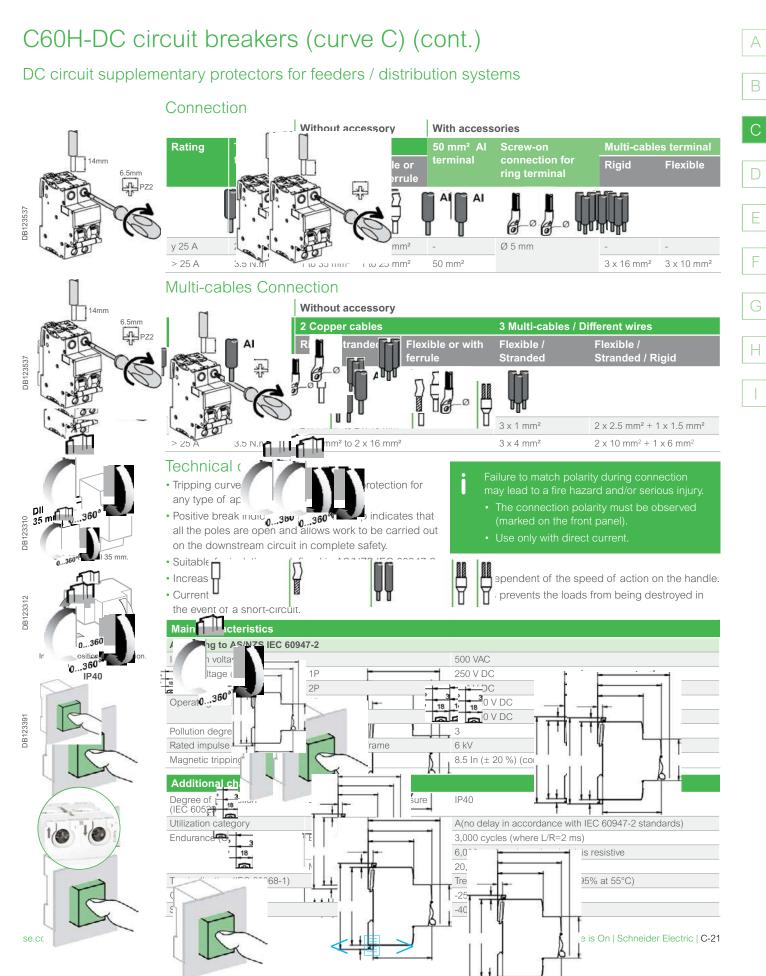
Catalog numbers

Туре	1P	2P	
		* * * *	1 3 * * * * *
	Supply from above or below, observing the polarity	Supply from above	Supply from below
Rating (In)	Curve		
	C	C	
1 A	A9N61501	A9N61521	
2 A	A9N61502	A9N61522	
4 A	A9N61504	A9N61524	
6 A	A9N61506	A9N61526	
10 A	A9N61508	A9N61528	
16 A	A9N61511	A9N61531	
20 A	A9N61512	A9N61532	
25 A	A9N61513	A9N61533	
32 A	A9N61515	A9N61535	
40 A	A9N61517	A9N61537	
50 A	A9N61518	A9N61538	
63 A	A9N61519	A9N61539	
Number of modules of 9 mm	2	4	

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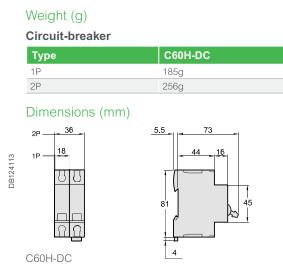


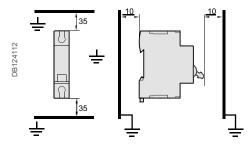


General overview

C60H-DC circuit breakers (curve C) (cont.)

DC circuit supplementary protectors for feeders / distribution systems





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

Accessories

Accessories and Auxiliaries for C60H-DC devices

Со	nnection accessories	
1	50 mm ² Al terminal	27060
Мо	ounting accessories	
2	Sealable terminal shield	
3	Rotary handle Switching sub sembly	o-as- 27046
	Disconnectab handle	le 27047
	Fixed handle	27048
4	Screw shield	
5	Padlocking accessory (to be locked in the "open" position)	26970
Indi 6	SD fault indicating switch	A9N26927
7	OF+SD24 auxiliary contact	A9N26899
8	OF open/closed contact	A9N26924
9	OF+SD/OF auxiliary contact (OF+SD or OF+OF combination switch)	A9N26929
Trip	pping	
10	MN, MNx, MNs undervoltage release	
11	MX, MX + OF shunt release	
İ	Tripping devices must be installed If two tripping devices are used: th be installed first Indication auxiliaries: respect spec position for SD functions.	he iMN must
Δss	sembly rule	
/ \33		

The mounting order and the number for the various auxiliaries must be complied with.

The tripping auxiliaries MN, MX...) should be mounted first 1 as close as possible to the main device.

Then at the left, the indicating auxiliaries (OF, SD) should be mounted 2 then 3 complying with the following association table.

Indicating auxiliaries		Tripping auxiliaries	Device
3	+ 2	+ 1	
1 (OF+SD/OF or OF+SD24)	1 OF+SD/OF	1 (MN, MNx, MNs or MX, MX+OF)	C60H-DC
1 OF	1 (OF+SD/OF or SD or OF)	2 (MN, MNx, MNs or MX, MX+OF)	
-	1 OF+SD24	2 (MN, MNx, MNs or MX, MX+OF)	





General Overview

C120N miniature circuit breakers (curve C)



公 AS/NZS 60898-1

C120N 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 60947.2
- fault tripping and indication by adding auxiliaries.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) to IEC 60947.2						Service breaking
Туре		Voltage (V)				capacity (lcs)
1P		12 to 130 V	220 to 240 V	380 to 415 V	440 V	
Rating (In)	63 and 125 A	20 kA	10 kA	3 kA (1)	-	75 % of Icu
2P, 3P, 4P		12 to 130 V	220 to 240 V	380 to 415 V	440 V	
Rating (In)	63 and 125 A	-	20 kA	10 kA	6 kA	75 % of Icu

Breaking capacit	Service breaking			
Туре		Voltage (V)	capacity (lcs)	
1P, 2P, 3P, 4P		230 - 240 V or 400-415 V		
Rating (In)	63 and 125 A	10000 A	75 % of Icu	

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

Direct current (DC)

Breaking capacity (Icu) according to IEC 60947.2						Service breaking
	Voltage					capacity (lcs)
Between +/-	12 to 125 V	\leq 144 V	≤ 250 V	≤ 375 V	≤ 500 V	
Number of poles	1P		2P	ЗP	4P	
Rating (In) 63 and 125 A	15 kA	10 kA	10 kA	10 kA	10 kA	100% Icu

Catalog numbers

C120N circuit breaker

Туре	1P	2P	3P	4P				
	*	* * \	* * * 	* * * * 				
Auxiliaries	2 Remote indicatio	2 2 4 2 4 6 2 4 6 8 Remote indication and tripping, refer page C96						
Vigi C120		Vigi C120 add-on residual current device,						
Rating (In)	Curve							
	С	С	С	С				
63 A	A9N18356	A9N18360	A9N18364	A9N18371				
80 A	A9N18357	A9N18361	A9N18365	A9N18372				
100 A	A9N18358	A9N18362	A9N18367	A9N18374				
125 A	A9N18359	A9N18363	A9N18369	A9N18376				
Number of modules of 9 mm	3	6	9	12				
Accessories	Refer to page CS	96						



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C120H miniature circuit breakers (curves B, C)





AS/NZS 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 60947.2
- fault tripping and indication by adding auxiliaries.



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Alternating current (AC) 50/60 Hz

Breaking capacit	Service breaking					
Туре		Voltage (V)			capacity (Ics)	
1P		12 to 130 V	220 to 240 V	380 to 415 V	440 V	
Rating (In)	63 and 125 A	30 kA	15 kA	4.5 kA (1)	-	75 % of Icu
2P, 3P, 4P		12 to 130 V	220 to 240 V	380 to 415 V	440 V	
Rating (In)	63 and 125 A	-	30 kA	15 kA	10 kA	75 % of Icu

Breaking capacit	Service breaking		
Туре		Voltage (V) capacity (Ic	
1P, 2P, 3P, 4P		230 - 240 V or 400-415 V	
Rating (In)	63 and 125 A	15000 A	75 % of Icu

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

Direct current (DC)

Breaking capacity (Icu	Service breaking					
	Voltage					capacity (Ics)
Between +/-	12 to 125 V	\leq 144 V	≤ 250 V	≤ 375 V	\leq 500 V	
Number of poles	1P		2P	3P	4P	
Rating (In) 63 and 125 A	20 kA	15 kA	15 kA	15 kA	15 kA	100% Icu

Catalog numbers

C120H circ	uit breaker	-						
Туре	1P		2P		3P		4P	
	1 ₩ 2		± ± ↓ 3 ★ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		± ± ±		± ± ± ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	* *
Auxiliaries	Remote indication and tripping, refer to page C-96							
Vigi C120	Vigi C120 add-on residual current device,							
Rating (In)	Curve							
	В	С	В	С	В	С	В	С
63 A	A9N18401	A9N18445	A9N18412	A9N18456	A9N18423	A9N18467	A9N18434	A9N18478
80 A	A9N18402	A9N18446	A9N18413	A9N18457	A9N18424	A9N18468	A9N18435	A9N18479
100 A	A9N18403	A9N18447	A9N18414	A9N18458	A9N18425	A9N18469	A9N18436	A9N18480
125 A	A9N18404	A9N18448	A9N18415	A9N18459	A9N18426	A9N18470	A9N18437	A9N18481
Number of modules of 9 mm	3		6		9		12	
Accessories	Refer to page	e C-96						



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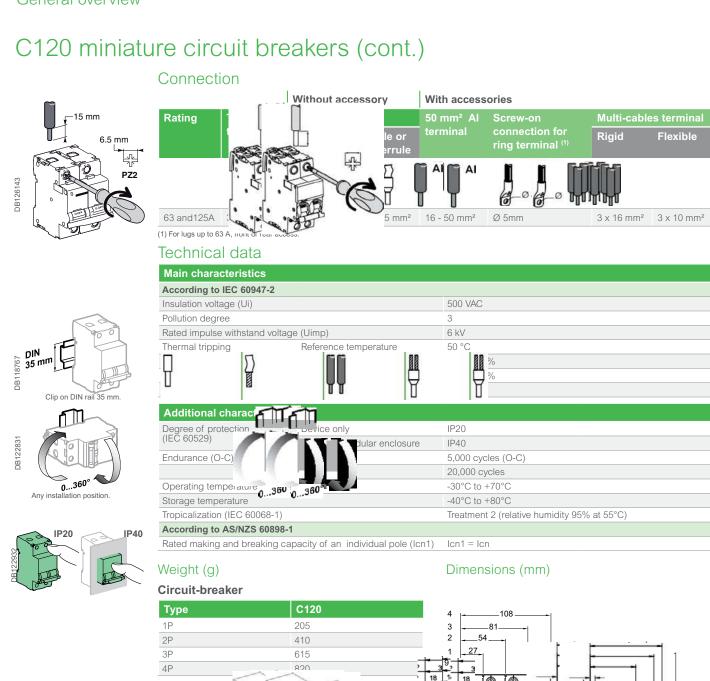
General overview

C120 miniature circuit breakers



Longer product service life thanks to:

- good overvoltage withstand capacity: products designed to offer 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.



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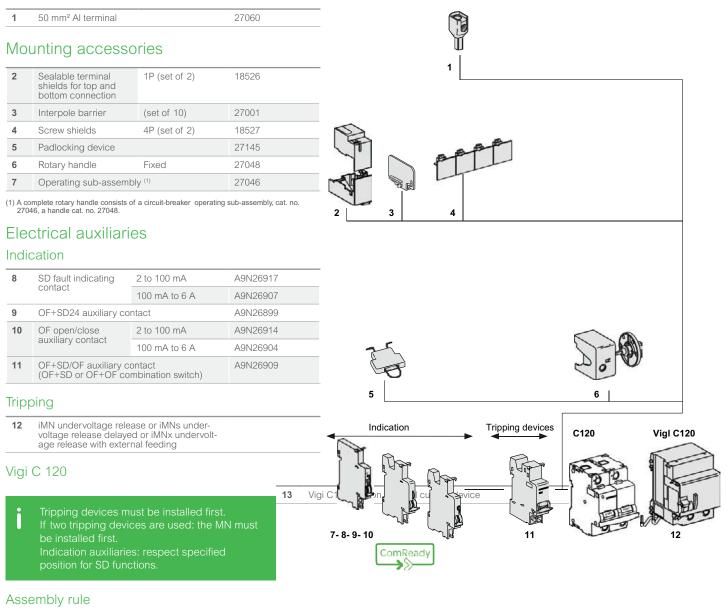
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Accessories

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Accessories and Auxiliaries for C120, Vigi C120 devices

Connection accessories



The mounting order and the number for the various auxiliaries must be complied with.

The tripping auxiliaries MN, MX, MSU...) should be mounted first 1 as close as possible to the main device.

Then at the left, the indicating auxiliaries (OF, SD) should be mounted 2 then 3 complying with the following association table.

Indicating auxiliaries		Tripping auxiliaries	Device	Vigi C120
3	+ 2	+ 1		
1 (OF+SD/OF or OF+SD24)	1 OF+SD/OF	1 (MN, MNx, MNs or MX, MX+OF or MSU)	C120	Vigi C120
1 OF	1 (OF+SD/OF or SD or OF)	2 (MN, MNx, MNs or MX, MX+OF or MSU)		
-	1 OF+SD24	2 (MN, MNx, MNs or MX, MX+OF or MSU)		
-	-	3 MSU		



STI isolatable fuse-carriers

Tertiary sector, Industry



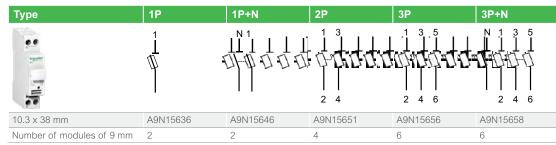


Cartridges IEC 60269-1, IEC 60269-2

- The STI isolatable fuse-carriers provide overload and short-circuit protection. b They are used for tertiary and industrial applications requiring a high breaking capacity.
- They perform the isolation function and must not be used as switches.
- To be equiped with aM or gG (gL gl) type fuse cartridge without striker, with or without fuse blowing indicator. 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.).

Catalog numbers

STI fuse holder





PB110044-40

PB110043-40



PB110046-40



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General overview

STI isolatable fuse-carriers (cont.)

Tertiary sector, Industry

230 V neon indicator light (Option)

 Indicates fuse blowing (off in normal operation and lit red after fuse blowing)

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• 400 V maxi

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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 padlocks on the 3P and 3P+N products (on every extremity)

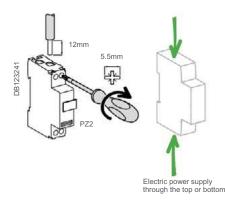
1P+N, 3P+N

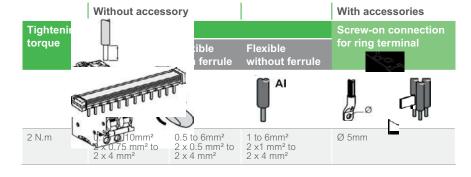
- Phase opening causes compulsory opening of the neutral
- The phase opens before the neutral on isolation and closes after the neutral on circuit closing
- Small dimensions:
 - 1P+N in 18 mm
 - 3P+N in 54 mm

Clip-on markers

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

Connection





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Additional housing is provided

Fuse-carrierCaptive

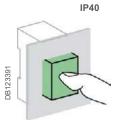
for a spare fuse

STI isolatable fuse-carriers (cont.)

Tertiary sector, Industry

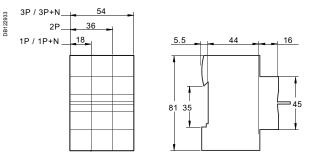
Technical data





Main characteristics						
Insulation voltage (Ui)		500 VAC				
Breaking capacity accordi	ng to AS/NZS IEC 60947-2 ≤400 V	8 kA				
Pollution degree		3				
Operating frequency		50/60 Hz				
Additional characteris	stics					
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 pov	ver per pole of STI isolatable fuse-ca	arriers				
Fuse cartridge type		lth	Pmax			
10.3 x 38 mm	aM	16 A	3 W			
	gG	25 A	3 W			
Maximum dissipated pov	ver per fuse cartridges					
Fuse cartridge type		lth	Pmax			
10.3 x 38 mm	aM	2 to 25 A	1.2 W			
	gG	2 to 25 A	3			

Dimensions (mm)



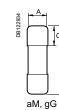
STI

aM, gG fuse cartridge

Туре	Α	В	С
10.3 x 38 mm	10.3	38	10.5

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General Overview

Choice of Earth Leakage Protection Devices

The sensitivity of an earth leakage protection device depends mainly on the function it has to perform:

- protection from electric shock by direct contact
- · protection from electric shock by indirect contact
- · protection from fire due to current leakage.

The following table gives a reminder of:

- the circuits that must be protected against these various risks (obligation or recommendation)
- the type of earth leakage protection device to be used in each case, its sensitivity, and its location in the distribution diagram.

Type of protection

	Obligations	Sensitivity (I∆n)		
	National standard AS/NZS:3000	30 mA (*)	100 mA to 3000 mA	300 mA (or 500 mA)
Protection from	electric shock by direct conta	act		
DB123167	 Basic protection shall be pro- vided using insulation, barriers, enclosures, obstacles or by placing out of reach. Additional protection shall be provided by a residual current device installed on circuits, socket outlets, lighting points and hand held equipment. 	 Setup in final distribution switchboard Residual current device pro- tecting a circuit Residual current circuit breaker protecting a group of circuits 		
Protection from	electric shock by indirect con	ntact		
DB123168	 Shall be provided through means of: A system of earthing An automatic disconnection device residual current device or circuit breaker that will disconnect under earth fault conditions 		Setup in final distribution switchboard • Residual current circuit breaker or device, on incoming feeder Setup in subdistribution board or main switchboard • Residual current device protecting a circuit • Residual current device or circuit breaker protecting a group of circuits • On incoming feeder: residual current circuit breaker or device	
Protection from	fire due to current leakage			-
DB123169	Protection should be provided to prevent the risk of fire initiated or propagated by components of the electrical installation. If protection against initiation of fire is required, then a residual current device should be installed.			 Setup in final distribution switchboard Residual current circuit breaker or device, on incoming feeder Setup in subdistribution board or main switchboard Residual current device protecting each circuit to a high-risk zone Residual current device or circuit breaker protecting a group of circuits On incoming feeder: residual current circuit breaker or device

(*) The 10 mA sensitivity is useful for certain very specific applications, where there is a risk that someone could sustain a non-dangerous current (10 to 30 mA) without being able to get free. Example: health care equipment for hospital beds. Generally, devices with this very high sensitivity are liable to cause frequent tripping, due to the natural leakage currents of the installation.

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Nuisance tripping

Consequences: nuisance tripping

When the sum of the natural earth leakages reaches ~30% of the residual current devices rated sensitivity (e.g. 10mA for a 30mA RCD), any surge (e.g. caused by switching) may cause nuisance tripping of the RCD.

Solutions:

· Dividing up the circuits

Dividing up the circuits reduces the natural leakage on a single-phase residual current device. The figure of a maximum of 6 loads is usually suggested by assuming in the worst case, a leakage of 1.5 mA for each load, or a total leakage of 9 mA or 30% of the sensitivity threshold for a 30 mA residual current device.

Using SI residual current devices

Thanks to its improved immunity from transient surge currents, the "si" range is specially recommended for installations with computer equipment. It means that a greater number of machines may be installed (a maximum of around 12 machines) with the same residual current device, before nuisance tripping will occur.

Interference immunity

Schneider Electric provides various equipment technologies capable of overcoming the consequences of interference of all kinds.

Operating	conditions		Examples	Types						
					A Iñ	SI Kan	B			
Loads										
	With no special	characteristics	 General purpose power sockets Incandescent lighting Household appliances: microwave oven, dishwasher, clothes dryer Electric heating, water heater 	•	•	•	•			
	rectifier		 Household appliances: induction cooking appliances, washing machines (variable speed) Single-phase variable speed drives 	-	•	•	-			
		Three phase	Three-phase variable speed industrial drivesThree-phase uninterruptible power supplies	-	-	-	•			
	Generating high-frequency interference (current peaks, harmonics)		 Fluorescent lighting powered by extra low voltage transformer, by electronic ballast Variable luminosity lighting Powerful IT equipment Single-phase variable speed industrial drives Air conditioning Telecommunications equipment Capacitor banks 	-	_	•	•			
	Including an ar in the power su	nti-harmonic filter Ipply	Microcomputer systemsComputer peripherals (printers, scanners, etc.)	_	_	•	•			

(1) According to amendment 2 of the wiring rules AS/NZS 3000, Type AC RCD shall not be used for the following applications from 30 April 2023: - Domestic and Residential, all final subcircuits - Non-domestic and non-residential socket outlets and lighting, directly connected hand-held equipment and increased risk circuits up to 32A. Recognising Type A RCDs as accepted general usage, Schneider doesn't carry any Type AC RCD in the Acti9 offer of RCCBs and RCBOs.

Example:

Number of loads depending on earthing systems

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PC, office workstation, workstation					
with "si" RCD	TNS				
Computer equipment	8-12				
Office workstation	3-4				
Workstation	1-2				



General Overview

	Operating	conditions	Examples	Types			
					A The second sec	si K	B
	Electrical er	nvironment					
3166	757	Vicinity of equipment gener- ating Vicinity of equipment generating	High-powered switching devicesReactive energy compensation banks	_	_	•	•
DB123166		Circuits powered by an uninter- ruptible power supply	Backed-up networks	-	-	•	•
		"Isolated neutral" (IT) earthing system	-	_	_	•	•
		Major risk of lightning strikes	 Buildings protected by a lightning protection system Mountainous or humid regions Regions with high keraunic level 	-	_	•	•
	Atmosphere	9					
		Ambient temperature which could be less than -5°C	-	-	•	•	•
DB123164	U	Presence of corrosive agents (AF2 to AF4) or dust	 Indoor swimming pools Yacht harbours, marinas, camping grounds Water treatment Chemical industries, heavy industries, paper mills Mines and cellars, road tunnels 	_	_	• 2	_

• Mines and cellars, road tunnels

Markets, stock raising, food processing industries

According to amendment 2 of the wiring rules AS/NZS 3000, Type AC RCD shall not be used for the following applications from 30 April 2023:
 Domestic and Residential, all final subcircuits
 Non-domestic and non-residential socket outlets and lighting, directly connected hand-held equipment and increased risk circuits up to 32A. Recognising Type A RCDs as accepted general usage, Schneider doesn't carry any Type AC RCD in the Acti9 offer of RCCBs and RCBOs.
 SiE for C120 and NG125 circuit breakers.

Discrimination

Residual current devices of average sensitivity (100 mA and more) are available in a selective (s) and delayed (R) version. This option ensures that, in the event of an earth fault downstream of the installation, only the defective part is switched off. The table below shows (in green) which upstream/downstream equipment combinations provide this discrimination.

			Sensitivity (mA) - Upstream												
			Instan	itaneou	s				Select	ive s				Delay	ed R
Sensitivity (mA) - Downstream		30	100	300	500	1000	3000	100	300	500	1000	3000	1000	3000	
I.	Instantaneous	30	-	-	-	-	-	-							
*		100	_	_	_	_	_	_	-						
s or R		300	-	-	_	_	_	-	_	-	-				
\bigcirc		500	_	_	_	_	_	_	_	_	_	_		-	
		1000	-	-	-	-	-	-	-	-	-	-		-	
		3000	-	-	_	_	_	-	_	-	-	-	-	-	-
h	Selective s	100	-	-	-	-	-	-	-	-	-	-	-		
+ $+$		300	_	_	-	-	_	-	_	-	_	_	_	_	
		500	-	-	-	-	-	-	-	-	-	-	-	-	
		1000	_	_	-	_	_	-	_	-	_	_	_	_	
		3000	-	-	-	-	-	-	-	-	-	-	-	-	-
	Delayed R	1000						_	_	_	_	_	_	_	_
		3000						-	-	-	-	-	-	-	-

General Overview & Reference Numbers

iID residual current circuit breakers (A & SI types)





- 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.

ID residual current circuit breakers for 230/400 V network

Туре			/	A	Ş	Width in 9mm module	
Auxiliaries			Refer to p	bage C-45	Refer to		
2P	Sensit	ivity	30 mA	300 mA s	30 mA	300 mA s	
N 1		40A	A9R51240	-	A9R91240	A9R35240	4
1 Δ	-	63A	A9R51263	A9R25263	A9R91263	A9R35263	4
	-	100A	A9R21291	A9R25291	-	-	4
4P	Sensitivity		30 mA	300 mA s	30 mA	300 mA s	
N 1 3 5	Rating	40A	A9R51440	-	A9R91440	A9R35440	8
$1 \downarrow 1 \downarrow 1$	-	63A	A9R51463	A9R25463	A9R91463	A9R35463	8
	_	80A	A9R21480	A9R25480	-	-	8
N 2 4 6		100A	A9R21491	A9R25491	-	-	8
Voltage rating (Ue)		2P	230 -	230 - 240 V 400 - 415 V		230 - 240 V	
	-	4P	400 -			415 V	
Operating frequency			50/6	0 Hz	50/6	60 Hz	
Accessories			Refer to page C-37		Refer to	page C-37	

A B C D E F G

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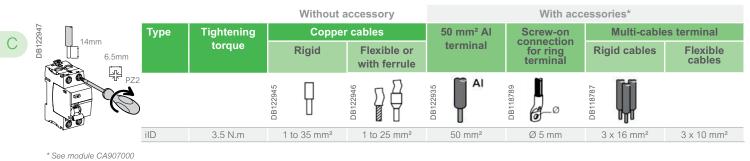
DB122476

DB122477

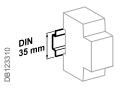
General Overview

iID residual current circuit breakers (A, SI types)

Connection



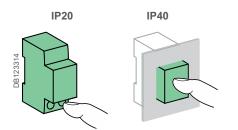
Technical Data



Clip on DIN rail 35 mm.



Indifferent position of installation.



Weight (g)

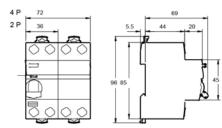
Residual current circuit breakers					
Туре	iID				
2P	210				
4P	370				

Main characteristics						
Insulation voltage (Ui)	500 V					
Pollution degree				3		
Rated impulse withstand voltage (Uimp)				6 kV		
According to AS/NZS 61008-1						
Making and breaking capacity (Im/I Δ m)	1500 A					
Surge current withstand (8/20 µs)	A types (no	selec	tive s)	250 Â		
without tripping	A types (sel	ective	e s)	3 kÂ		
	SI type		3 kÂ			
Conditional rated short circuit current (Inc/IΔc)	With iC60N/H/L		With iC60N/H/L			Equal to breaking capacity of iC60
	With fuse 100A		A00	10,000 A		
Behaviour in case of voltage drop		٧	ł	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	A and SI types	12 T	-25°C to +60°C
Storage temperature			-40°C to +85°C

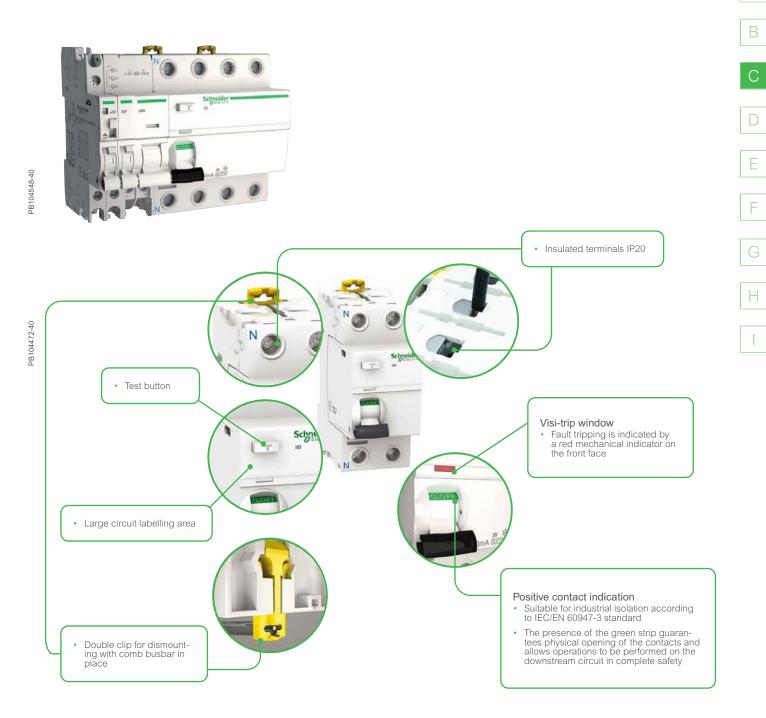
Dimensions (mm)

DB122775



General Overview

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



SI type

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

А

General Overview & Reference Numbers

iID B-SI type residual current circuit breakers (RCCB)



AS/NZS 61008-2-1, IEC/EN 62423, IEC 61543

As per the above standards:

- The Acti9 iID B-SI type residual current circuit breakers provide:
- protection of persons against electric shock by direct contact (30 mA),
- protection of installations against the risk of fire (300 mA or 500 mA).

B-SI type 🖳 🚥

- The Acti9 iID B-SI type residual current circuit breakers provide:
- protection in the event of a continuous earth fault current on networks generated by:
- controllers and variable speed drives,
- battery chargers and inverters, such as used in photovoltaic application,
- backed-up power supplies.
- They include protection against earth fault currents:
- sinusoidal AC residual currents (AC type),
- pulsed DC residual currents (A type),
- multi frequency residual current (F type).
- The use of Acti9 iID B-SI type residual current circuit breaker can be made mandatory, according to standards applicable in country.
- For applications using 3-poles drives, such as:
- crane,
- lift,
- HVAC,
- pumping system.

B type is recommended.

For more information, see earth leakage protection guide CA908066E.

- The Acti9 iID B-SI type works optimally with the variable speed drives manufactured by Schneider Electric, even with a long cable length between motor and variable speed drive (up to 50 m).
- SI technology is embedded in Acti9 iID B-SI type residual current circuit breaker, providing increased immunity from electrical interference and polluted environments.
- The Acti9 iID B-SI type is compatible with Schneider Electric AC and A types wired in parallel or in series in the installation, following coordination tables (refer to earth leakage protection guide CA908066E).

Acti9 iID B-SI type residual current circuit breakers								
Туре				B-SI				Width in 9 mm module
2P		Se	ensitivity	30 mA	300 mA	300 mAs	500 mA	
N 1	Rating	25 A		A9Z61225		-	-	8
		40 A		A9Z61240				
┟╚╁╍╁┸┸┬┘		63 A		A9Z61263		-	-	
Voltage rating (Ue)				230 - 240V				
Operating frequency				50 Hz				
4P		Se	ensitivity	30 mA	300 mA	300 mAs	500 mA	
	Rating	40A		A9Z61440				8
		63A		A9Z61463	A9Z64463	A9Z65463	A9Z66463	
╎╚══╪═╬┍╂╱═╷┘		80A		A9Z61480				
Voltage rating (Ue)				400-415 V				
Operating frequency				50 Hz				





General Overview & Reference Numbers

iID B type EV residual current circuit breakers (RCCB) for Electric Vehicle



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AS/NZS 61008-2-1, IEC/EN 62423, IEC 61543, VDE 0664

As per the above standards:

- The Acti9 iID B type EV 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,
- protection of installations against the risk of fire.



9Z51216-40

B type 🖳 💳 💓

The Acti9 iID B type EV residual current circuit breakers provide:

- protection in the event of a continuous earth fault current on networks generated by electric car charging station.
- The use of Acti9 iID B type EV residual current circuit breaker can be made mandatory, according to standards applicable in country.
- The Acti9 iID B type EV is compatible with Schneider Electric AC and A types wired in parallel or in series in the installation, following coordination tables (refer to earth leakage protection guide CA908066E).

Acti9 iID B type EV residual of	urrent circ	uit breakers		
Туре			B 流 🚍 🔳	Width in 9 mm module
2P		Sensitivity	30 mA	
N 1	Rating	25A	A9Z51225	8
		40A	A9Z51240	
Voltage rating (Ue)			230-240 V	
Operating frequency			50 Hz	
4P		Sensitivity	30 mA	
N 1 3 5	Rating	40A	A9Z51440	8
		63A	A9Z51463	
Voltage rating (Ue)			400 -415 V	
Operating frequency			50 Hz	



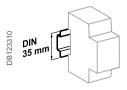


General Overview

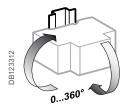
iID B type EV and iID B-SI type residual current circuit breakers (RCCB)

Technical Data

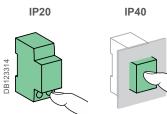
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Clip on DIN rail 35 mm.

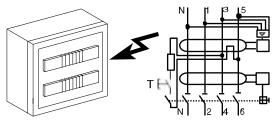


Indifferent position of installation.



Insulation voltage (Ui)		2P	250 V
		4P	500 V
Pollution degree			3
Rated impulse withstand voltage (U	imp)		6 kV
According to AS/NZS 61008-2-1			
Making and breaking capacity (Im/I	Dm)		1500 A
Surge current withstand (8/20 µs)	No selective s		3 kÂ
without tripping	Selective s		5 kÂ
Conditional rated short circuit current (Inc/IDc)	With 100 A gG fuse		10,000 A
Additional characteristics			
Degree of protection (IEC 60529)	Device only		IP20
	Device in modular e	nclosure	IP40
			Insulation class II
Endurance (O-C)	Electrical	y 63 A	15,000 cycles
		> 63 A	10,000 cycles
	Mechanical		20,000 cycles
Range of test button operating voltage	30 mA	2P	180270 V AC
		4P	300450 V AC
	300, 500 mA	2P	140330 V AC
		4P	220450 V AC
Impulse withstand according to IEC	60068-2-27		15 g
Vibration withstand according to IE0	3 g		
Electromagnetic compatibility	According to IEC 61543		
Operating temperature	-25°C to +60°C		
Storage temperature			-40°C to +85°C
Dissipated power			Module CA908009

Dielectric test



DB1428455

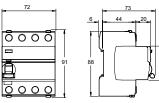
d To perform the dielectric test, disconnect terminals: 4P: 1, 3, 5 and 2, 4, 6 2P: 1 and 2

Weight (g)

Residual current circuit breakers				
Туре	iID			
2P	350			
4P	415			



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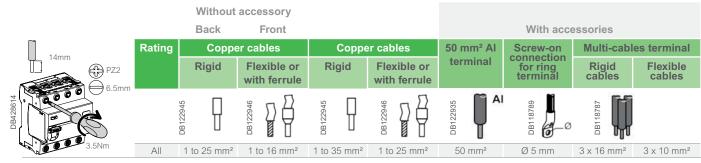


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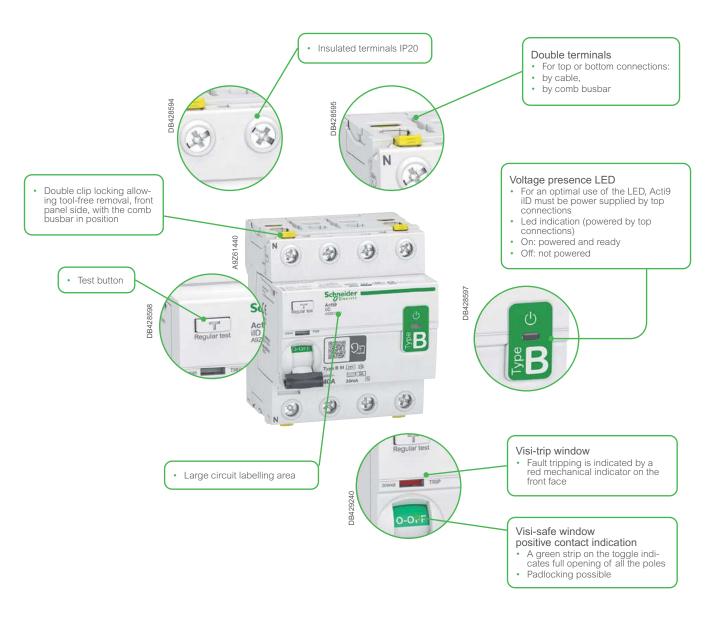
General Overview

iID B type EV and iID B-SI type residual current circuit breakers (RCCB) (cont.)

Connection



Accessories: module CA907000 and CA907001



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Acti9 Protection and Isolation

General Overview & Reference Numbers

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





- Combined with iC60 circuit breaker, the Acti9 Vigi iC60 provide:
- protection of persons against electric shock by direct contact (30 mA),
- protection of installations against the risk of fire (300 mA).
- With flexible neutral wire.

Vigi iC60 add-on residual current	nt devices for 230/40	00 V network			
Туре		A 📉			Width in 9 mm modules
Auxiliaries		Without auxiliaries			
2P	Sensitivity	30 mA		300 mA	
Rating	63A	A9V02663		A9V06663	4
4P	Sensitivity	30 mA		300 mA	
Rating	63A	A9V02763	-	A9V06763	7
Voltage rating (Ue)	2P	230 - 240 V			
	4P	400 - 415 V			
Operating frequency		50/60 Hz			
Accessories		Refer to catalogue page	e C-37		

General Overview & Reference Numbers

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





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

Vigi	Vigi iC60 add-on residual current devices for 230/400 V network									
Тур	e			Α						Width in 9 mm modules
Auxi	liaries			Without aux	ciliaries					
2P			Sensitivity	30 mA		300 mA				
		Rating						-	-	3
462	·		63A	A9V51263		A9V54263				
DB122462										
										4
	$\sum_{i=1}^{n}$									
40	2 4		0 111 11	00 4		000 4				
4P			Sensitivity	30 mA		300 mA				
		Rating						-	-	6
t64	. ⁴ . ¥. ¥		63A	A9V51363		A9V54363				
DB122464									7	
DE										
	2 4 0									
Volta	Voltage rating (Ue) 2P 3P		2P	230 - 240 V						
volla			3P	400 - 415 V						
Ope	rating frequency		50/60 Hz							
Acc	Accessories Refer to catalogue page C-37									



General Overview & Reference Numbers

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



Association iC60N, H, L + Vigi iC60

iC60	Vigi iC60 40 A	Vigi iC60 63 A
01A to 25 A	 • 	• • • • • • • • • • • • • • • • • • •
32 A - 40 A		
50 A - 63 A	NO	• • • • • • • • • • • • • • • • • • •

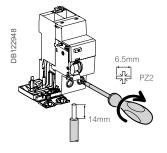


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General Overview

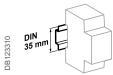
Vigi iC60 add-on residual current devices (A type) (cont.)

Connection

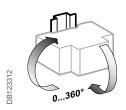


Туре	Rating	Tightening torque	Copper cables			
			Rigid	Flexible or with ferrule		
			DB122945			
Vigi iC60						
	40 to 63 A	3.5 N.m	1 to 35 mm ²	1 to 25 mm ²		

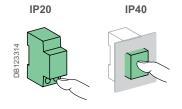
Technical Data



Clip on DIN rail 35 mm.



Indifferent position of installation.

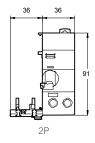


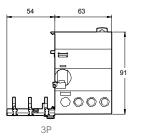
Main characteristics				
Insulation voltage (Ui)		500 V		
Pollution degree		3		
Rated impulse withstand	voltage (Uimp)	6 kV		
According to AS/NZS 61	009-1			
Surge current withstand	A types (no selective s)	250 Â		
(8/20 μs) without tripping	A types (selective s)	3 kÂ		
Behaviour in case of volta	Vł	Residual current protection down to 0 V according to IEC/ EN 61009-1 § 3.3.8		
Degree of protection	Device only	IP20		
	Device in modular enclosure	IP40		
		Insulation class II		
Operating temperature	A and A-SI types	-25°C to +60°C		
Storage temperature		-40°C to +85°C		

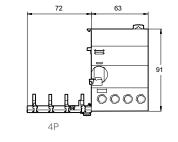
Weight (g)

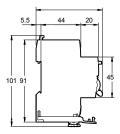
Туре	Vigi iC60	
2P	165	
3P	210	
4P	245	

Vigi iC60 40 and 63A









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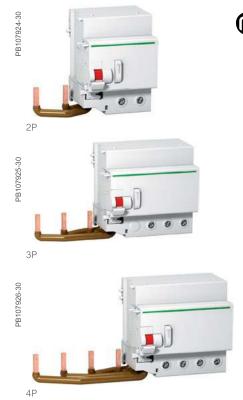
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General Overview & Reference Numbers

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





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 installations against fire hazards (300 mA)

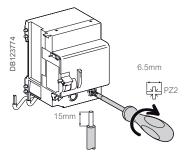
Vigi C120 add-on r	esidual current	devices		
Type Product		A 🔜 Vigi C120		Width in 9 mm modules
Auxiliaries		Without auxili	ary	
2P	Sensitivity	30 mA	300 mA	
		A9N18572	A9N18573	7
3P	Sensitivity	30 mA	300 mA	
		A9N18575	A9N18576	10
4P	Sensitivity	30 mA	300 mA	
		A9N18578	A9N18579	10
Voltage rating (Ue)	2P	230 - 240 V		
	3P-4P	400 - 415 V		
Operating frequency		50/60 Hz		
Accessories		Refer to catalo	ogue page C-39	

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General Overview

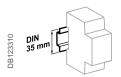
Vigi C120 add-on residual current devices (A type)

Connection

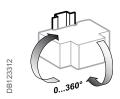


Type Sensitivity Tightening torque Copper cables Rigid Flexible or with ferrule Vigi C120 30...300 mA 3.5 N.m 1 to 50 mm² 1 to 35 mm²

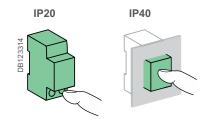
Technical Data



Clip on DIN rail 35 mm.



Indifferent position of installation.

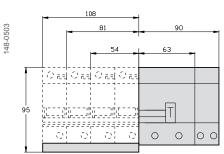


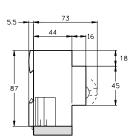
Main characteristics					
To IEC 60947-2					
Insulation voltage (Ui)		500 V AC			
Degree of pollution		3			
Rated impulse withstand	voltage (Uimp)	6 kV			
To AS/NZS 61009					
Impulse current	Type A (non-selective s)	250 Â			
withstand (8/20 µs) without tripping					
Additional characteristics					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

Weight (g)

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

Dimensions (mm) C120 + Vigi C120





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General Overview

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Vigi C120 add-on residual current devices (A type) (cont.)



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General Overview

iDPN Vigi Residual current devices





iDPN N Vigi



AS/NZS 61009-1

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

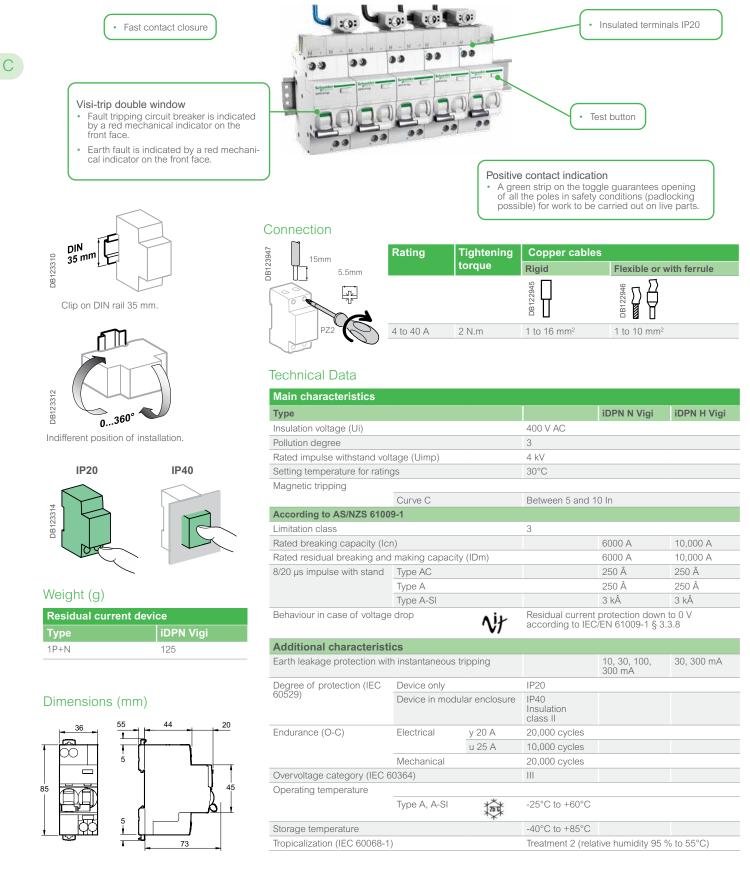
iDPN N	l Vigi 6000						
Туре	be			А	A-SI	Width in 9 mm modules	
Auxiliar	ies			Refer to	o catalogue pag	ge C-45	
1P+N	Curve C		Sensitivity		30 mA	30 mA	
-	N 1	Rating	6 A		A9D32606		_ 4
	l *	(In)	10 A		A9D32610	A9D33610	
171			13 A		A9D32613	A9D33613	_
E-7			16 A		A9D32616	A9D33616	
- F <	Ьſ		20 A		A9D32620	A9D33620	
			25 A		A9D32625	A9D33625	
1 19	N 2		32 A		A9D32632	A9D33632	
			40 A		A9D32640	A9D33640	
Voltage	oltage rating (Ue)		23024	0 V AC			
Operatir	ng frequency	/		50 Hz			





General Overview

iDPN Vigi Residual current devices (cont.)



General Overview & Reference Numbers

iC60N RCBO 6000 A / 30 mA





As per the above standards:

 The single-phase iC60N RCBO's self-contained residual current device carries А

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- out complete protection of final circuits:
- protection against short-circuits and cable overloads,
- protection against electrocution by direct contact.
- The neutral is not interrupted when the device is tripped. Hence iC60N RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems.

Alternating current (AC) 50/60 Hz					
Breaking capacity (Icn) according to AS/NZS 61009-1					
Voltage (Ue)					
Ph/N	230 - 240 V				
Rating (In) 6 to 45 A	6000 A				

Accessory Padlocking device

• Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

iC60N RCB	O 6000					
1P+N					A	Width in 9-mm modules
C curve		Voltage rating (V)	S	Sensitivity (I∆n)	30 mA	
	Lin	230 - 240	Rating	6 A	A9D61806	2
038	Ţ		(ln)	10 A	A9D61810	
				16 A	A9D61816	
				20 A	A9D61820	
				25 A	A9D61825	
				32 A	A9D61832	
FE Nin				40 A	A9D61840	
	Nout Lout			45 A	A9D61845	
Operating free	rating frequency				5060 Hz	
Auxiliaries					Refer to catalogue page C-45	
Accessories	Accessories				Refer to catalogue page C-37	



General Overview & Reference Numbers

iC60H RCBO 10000 A / 10, 30 and 100 mA







As per the above standards:

- The single-phase iC60H RCBO's self-contained residual current device carries out complete protection of final circuits:
- protection against short-circuits and cable overloads
- protection of persons against electric shock by direct contact (10, 30 mA sensitivities),
- protection of persons against electric shock by indirect contact (100 mA sensitivity),
- protection of equipment against fires set by leakage currents (100 mA sensitivity).
- The neutral is not interrupted when the device is tripped. Hence iC60H RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems.

Alternating current (AC) 50/60 Hz					
Breaking capacity (Icn) according to AS/NZS 61009-1					
Ph/N	110V	230 - 240 V			
Rating (In) 6 to 45 A	10000 A	10000 A			

Accessory Padlocking device

• Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

iC60H RCBO 1000	0						
1P+N				A			Width in 9-mm modules
C curve	Voltage rating (V)		Sensitivity (I∆n)	10 mA	30 mA	100 mA	
Lin	110	Rating	10 A	-	A9D19810	-	2
1		(In)	16 A	-	A9D19816	-	
			20 A	-	A9D19820	-	
			25 A	-	A9D19825	-	
			32 A	-	A9D19832	-	
	230 - 240	Rating	6 A	A9D10806	A9D11806	A9D12806	
		(In)	10 A	A9D10810	A9D11810	A9D12810	
FE Nin			16 A	A9D10816	A9D11816	A9D12816	
Nout Lo	out		20 A	A9D10820	A9D11820	A9D12820	
ø			25 A	A9D10825	A9D11825	A9D12825	
DB405038			32 A	A9D10832	A9D11832	A9D12832	
DB4(40 A	-	A9D11840	A9D12840	
_			45 A	-	A9D11845	A9D12845	
Operating frequency				5060 Hz			
Auxiliaries		Refer to catalo	gue page C-45				
Accessories				Refer to catalo	gue page C-37		

PB111075-70

General Overview & Reference Numbers

iC60H2 RCBO 10000 A / 30 and 100 mA







As per the above standards:

 The 2-poles iC60H2 RCBO's self-contained residual current device carries out А

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- complete protection of final circuits:
- protection against short-circuits and cable overloads,
- protection of persons against electric shock by direct contact (30 mA sensitivities),
- iC60H2 RCBO switches neutral, together with phase. It is therefore suitable for all circuits, whatever the earthing system (except for TN-C).

Alternating current (AC) 50/60 Hz					
Breaking capacity (Icn) according to IEC 61009-1 Voltage (Ue)					
Ph/N, Ph/Ph	110 V	230 - 240 V			
Rating (In) 10 to 32 A	10000 A	10000 A			

Accessory

Padlocking device

• Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

iC60H2 RCBO 10000					
2P				А	Width in 9-mm modules
C curve	Voltage rating (V)	Sensitivit	sy (l∆n)	30 mA	
	110	Rating	10 A	A9D19210	4
N/L1in L2in		(In)	16 A	A9D19216	
B40			20 A	A9D19220	
$\square \Delta \dots \lambda^{\perp} \rangle^{\perp}$			25 A	A9D19225	
			32 A	A9D19232	
	230 - 240	Rating	10 A	A9D11210	
\square		(In)	16 A	A9D11216	
N/L1out L2out		. ,	20 A	A9D11220	
IN/L TOUT L2OUT			25 A	A9D11225	
			32 A	A9D11232	
Dperating frequency				5060 Hz	
Auxiliaries				Refer to catalogue page	C-45
Accessories				Refer to catalogue page	C-37

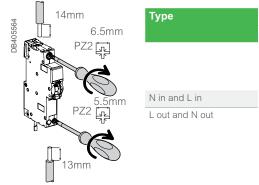
General Overview

iC60N, iC60H, iC60H2 RCBO 10, 30 and 100 mA



- Increased product service life thanks to fast closing independent of the speed of actuation of the toggle.
- Remote indication, open/closed/tripped, by optional auxiliary contacts.

Connection



Туре	Rating	Tightening torque	Copper cables	
			Rigid	Flexible
			DB122945	
N in and L in	6 to 45 A	3.5 N.m	1 to 25 mm ²	1 to 16 mm ²
L out and N out		2 N.m	1 to 16 mm ²	1 to 10 mm ²

Technical & Reference Numbers

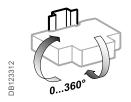
iC60N, iC60H, iC60H2 RCBO 10, 30 and 100 mA

Technical Data

Main characteristics	iC60N RCBO	iC60H RCBO	iC60H2 RCBO			
Insulation voltage (Ui)	400 V AC					
Rated impulse withstand voltage (Uimp)	4 kV					
Rated residual operating current (IΔn)	30 mA	10, 30, 100 mA	30 mA			
Thermal tripping Reference temperature	50°C					
Temperature derating	See module CA9080	07				
Limitation class	3					
Surge current withstand (8/20 µs) without tripping	250 Â					
Rated nominal breaking capacity (Icn)	6,000 A	10,000 A	10,000 A			
Phase/earth rated residual breaking and making capacity	(I∆m) 6,000 A	7,500 A	7,500 A			
Additional characteristics						
Degree of protection Device only	IP20					
Device in modular end	closure IP40	IP40				
Endurance (O-C) Electrical	5,000 cycles					
Mechanical	20,000 cycles	20,000 cycles -15°C to +60°C				
Operating temperature	-15°C to +60°C					
Storage temperature	-40°C to +85°C					
Tropicalization	Treatment 2 (relative	Treatment 2 (relative humidity: 95 % at 55°C)				



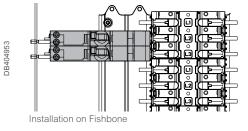
Clip on DIN rail 35 mm.

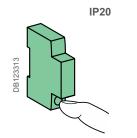


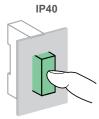
Indifferent position of installation.

Weight (g)

iC60 RCBO	
iC60N RCBO	205
iC60H RCBO	205
iC60H2 RCBO	332







А

В

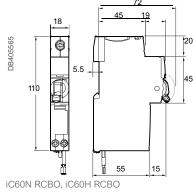
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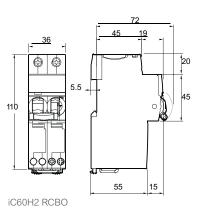
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T.

Dimensions (mm)





se.com/au



General Overview & Reference Numbers

iSPN Vigi residual current devices 10mA, C curve



AS/NZS 61009.1

- The single-phase iSPN Vigi self-contained residual current device carries out:
 - protection of persons against direct and indirect contacts (10 mA)
 - complete protection of final circuits (overcurrents and insulation faults)
- safety device to switch both of active and neutral.
- A class iSPN Vigi are sensitive to the pulsed type DC component.
- Overload, short circuit and earth fault currents are indicated by location of the handle in the OFF position.
- A push-test button "T" is positioned on the front of the device for testing that product is operational.
- This 10mA RCBO is also Type I (according to AS/NZS 3190) and complies with the requirements of the installation rules for Patient areas, AS/NZS 3003.

Accessories

Padlocking device

• Used to lock the toggle in the "open" or "closed" position by 8 mm diameter padlock (not supplied).

1P+N comb busbars

• The comb busbars make it easier to install Schneider Electric products.

Catalog numbers iSPN Vigi

Туре				A Ã	Width in 9-mm modules
C curve	Voltage rating (V)	Sensitivity (IΔ	n)	10 mA	
N ↓1	230/240 V AC	Rating (In)	6 A	A9D40606	2
$\frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}}$			10 A	A9D40610	
			16 A	A9D40616	
₽, CP-I			20 A	A9D40620	
			25 A	A9D40625	
N 12			32 A	A9D40632	
Operating frequency					

Accessories

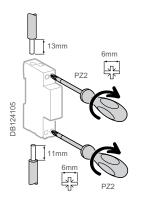
Туре	
Padlocking device (bag of 2 pieces)	26970



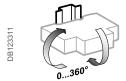
General overview

iSPN Vigi residual current devices 10mA, C curve (cont.)

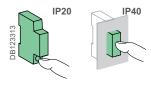
Rating







Indifferent position of installation.



L and N upstream	6 to 32 A	2 N.m	1 to 16 mm ²	2	1 to 16 mm ²	
L and N downstream		2 N.m	1 to 10 mm ²	2	1 to 10 mm ²	
lote: for any case, isolate power befo	ore installation. Wire neutral prior to installing	g active.				
Fechnical data						
Main characteristics						
Voltage rating (Ue)		230/240 V	AC			
Insulation voltage (Ui)		400 VAC				
Rated impulse withstand vol	Itage (Uimp)	4 kV				
Rated residual operating cu	rrent (I∆n)	10 mA				38
Thermal tripping	Reference temperature	H 30 °C	U H		BB 1	18
Magnetic tripping	C curve	Between 5	1.64			Ē
Limitation class		3				U
Rated nominal breaking cap	pacity (Icn)	6000 A				
Phase/earth rated residual k	preaking and making capacity (I∆r	n) 3000 A				
Additional characterist	tics					
Degree of protection	Device only	IP20				
	Device in modular enclosure	IP40				
Endurance (O-C)	Electrical	10,000 cyc	les			
	Mechanical	20,000 cyc	les			
Operating temperature		-25°C to +5	55°C			
Storage temperature		-25°C to +7	70°C			

Tightening torque

Copper cables

Rigid

Flexible

Weight (g)

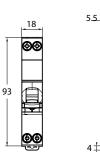
Connection

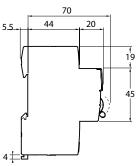
Туре

Residual current device

Туре	iSPN Vigi
1P+N	136

Dimensions (mm)







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General overview

iDPH VigiARC Arc fault detection RCBO



0T26620-56



Acti9 iDPH VigiARC is an arc fault detection device with overload, short circuit and residual current protection, which aims to reduce the risk of electrical fire.

By continuously analyzing a large number of electrical parameters, it detects the appearance of electric arcs that are responsible for starting fires. It isolates the circuit concerned which reduces flame appearance occurrence.

The European installation standard IEC 60364- 4-42 recommends the use of AFDD to protect against arc fault in final circuit:

- in locations with sleeping accommodations (e.g. hotels, nursing homes, bedrooms in homes)
- in locations with risks of fire due to high quantities of flammable materials (e.g. barns, wood-working shops, stores of combustible materials)
- in locations with combustible constructional materials (e.g. wooden buildings)
- in fire propagating structures (e.g. high rise buildings)
- in locations where irreplaceable goods are housed (e.g. museums).

More specifically, the installation of Acti9 iDPH VigiARC is highly recommended t protect circuits with highest risk of fire, such

- protruding cables (risk of knocks)
- outside cables (greater risk of deterioration)
- unprotected cables in secluded areas (like
- storage rooms)aging, deteriorating wiring or wiring for which

Acti9 iDPH VigiARC must not be installed on circuits requiring a high level of continuity of service. Acti9 iDPH VigiARC is not compatible with ATEX regulations.



IEC 62606

General requirements for arc fault detection devices.

AS/NZS 61009-1

Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs).

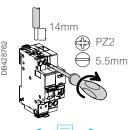
As per the above standards

- The Acti9 iDPH VigiARC provides a protection for final circuits against
- overcurrents and insulation faults (protection for people against electric shocks).
- In addition to these protections, the Acti9 iDPH VigiARC monitors for electric arcs
- that occur in cables and connections, that may cause a fire.
- These arcs are the result of localised cable deterioration or loose connections.
- It is used for three types of situations that can result in a fire:
- parallel arc detection: insulation problems between two live conductors that cause a resistive short-circuit, too weak to be detected by a circuit breaker and with no earth leakage to be detected by a residual current circuit breaker,
- series arc detection: a damaged conductor or connection that causes part of the current to flow through its carbonised insulation due to a local rise in temperature
- overheating of electronic components in loads, when exposed to an overvoltage for several seconds.
- It combines the following functions:
- circuit protection against overload and short-circuit currents (circuit breaker function),
- protection for people against electric shocks by direct contacts and indirect contacts (30 mA),
- protection against fire hazards by detection of abnormal electric arcs
 protection against load fire hazards due to slow overvoltages (network
 - overvoltage),
- fire hazard tripping indication via the front panel indicator,
- device diagnosis via the test button,
- positive contact indication (green strip),
- tripping faults diagnosis by LED blinking in front face.
- The Acti9 iDPH VigiARC should be installed in the place of the circuit's final protection device.
- Product is reverse feeding: it can be supplied either by the top or the bottom.

Arc Fault Dete	Width in 9 mm modules			
1P+N			iDPN H VigiARC	
			10000	
N +1	Rating (In)	6 A	A9T27606	4
		10 A	A9T27610	
		16 A	A9T27616	
		20 A	A9T27620	
N I2		25 A	A9T27625	
Operating voltage	230/240 V AC			
Operating	50 Hz			

frequency

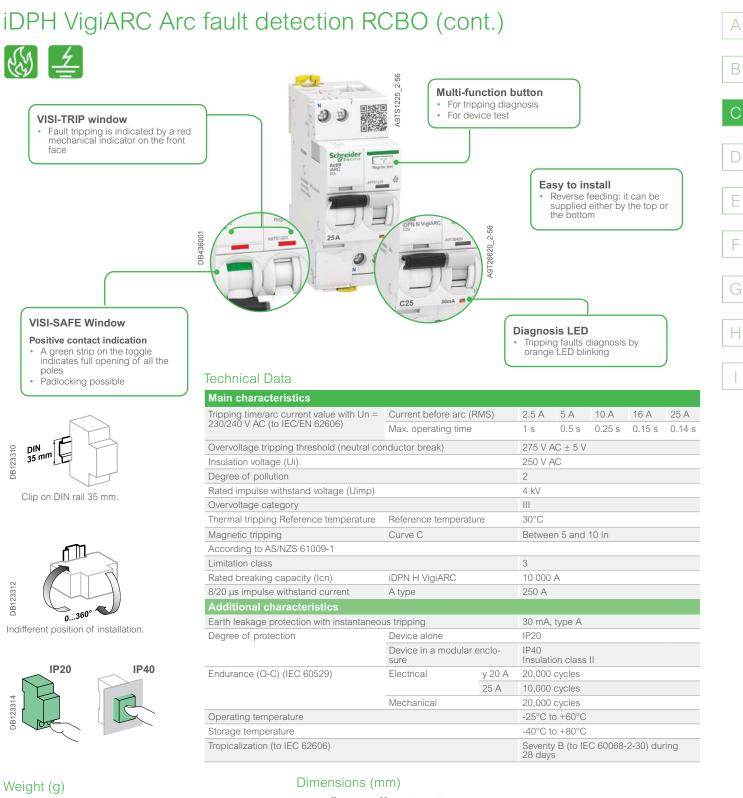
Connection

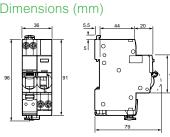


Tightening torque	Copper cables						
	Rigid	Flexible or with ferrule					
	DB122945						
2 N.m	1 x 1 to 16 mm ²	1 x 1 to 10 mm ²					

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General overview





DB428764

General overview

iPRD1 12.5r Type 1 + 2 Low Voltage surge arresters

The Type 1 range of surge arresters meets the normative withstand capability of current wave type 10/350 μ s (8/20 μ s for Type 2 surge arresters).

It is suitable for use with TT, TN-S, TN-C and IT earthing connection systems (neutral point connection).

iPRD1 12.5r surge arresters are fitted with a remote transfer contact to send "end-of-life indication" information.

They are also fitted with easy-to-replace withdrawable cartridges.



iPRD1 12.5r

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.

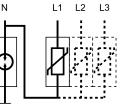
It is used to conduct the direct lightning current, propagating from the earth conductor to the network conductors.

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.

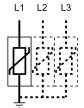
iPRD1 12.5r surge arresters also provide Type 2 protection and protect the electrical installation by inely clipping the lightning wave overvoltages.

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Cover all applications required by the MEN earthing system (Multiple Earthed Neutral) defined by AS/NZS 3000. 1P or 3P SPDs need to be installed in the main LV switchboard where the MEN link is connected. 1PN or 3PN are installed in the other distribution boards.



. iPRD1 12.5r (1P+N, 3P+N)



iPRD1 12.5r (1P) iPRD1 12.5r (3P)

			(Neutral cartridge is		II ND I 12.	01(11) 1	PRD1 12.51 (JF)	
Туре			Product Solution	ı				Earthi	ng system
Cartrid	ridge surge arrester 1P+N 3P+N 1P 3P								
iPRD1 1	12.5r		A9L16282	A9L16482				TT, TN-	S
T1 + T2					A9L16182	2	A9L16382	TN-C	
Туре	No. of poles	Width 9 mm mod- ules	l imp (kA) (10/350) Impulse current	l max (kA) (8/20) Maximum discharge current	In - kA Nominal discharge current	Up - kV Voltage pro- tection level	· · · · ·	Uc - V Maximum continious operating voltage (L N)/(N-PE)	s
Withdra	awable su	rge arrest	er						
iPRD1	1P	2	12.5 (L-N)/50 (N-PE)	50	20	≤ 1.5	230	350/255	A9L16182
12.5r	1P+N	4	12.5 (L-N)/50 (N-PE)	50	20	≤ 1.5	230	350/255	A9L16282
Type 1 + 2	3P	6	12.5	50	20	≤ 1.5	230/400	350	A9L16382
1 + 2	3P+N	8	12.5 (L-N)/50 (N-PE)	50	20	≤ 1.5	230/400	350/255	A9L16482
Spare	cartridg	ge							
iPRD1 12.5r	-	2	-	-	20	≤ 1.5	-	350	A9L16082

Surge arresters	Spare cartridge			
	Phase	Neutral		
iPRD1 12.5r	A9L16082	-		

Technical Data

iPRD1 12.5r Type 1 + 2 Low Voltage surge arresters (cont.)

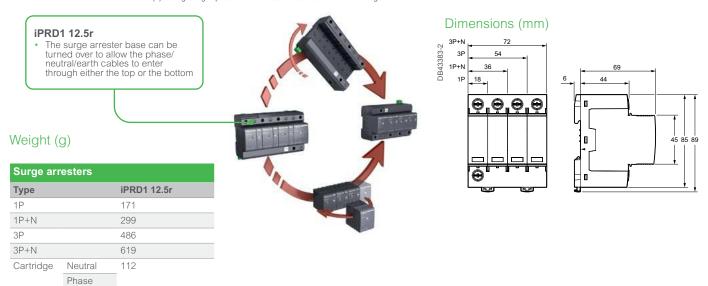


Technical Data			
Main characteris	tics		
Operating frequency	/		50 Hz
Degree of protection	1	Front panel	IP40
		Terminals	IP20
		Impacts	IK05
Response time			< 25 ns
Short circuit withstar	nd (Isccr)		50 kA
Temporary overvolta	ge withstand (U _T)	U _T (L-N)	337 V AC/5 s
		U _T (L-PE)	442 V AC/120 min
Temporary overvolta	ge Safe failure mode (U _T)	U _T (N-PE)	1200 V AC/200 ms
		U _T (L-PE)	1455 V AC/200 ms
Ground residual cur	rent (I _{PE})	I _{PE} (L-PE)	0.009 mA for 1P, 3P
		I _{PE} (N-PE)	0.000003 mA for 1P+N,3P+N
Follow current interre	upting rating (I _{fi})	I _{fi} (N-PE)	100 A
End-of-life indication			White: correct operation
			Red: at end of life
		Remote notification	1.5 A/250 V AC
By tunnel terminal	Live conductor	Rigid cable	1035 mm ²
		Flexible cable	1025 mm ²
	Earth cable	Rigid cable	1635 mm ²
		Flexible cable	1625 mm ²
Operating temperatu	ire		-25°C to +60°C
Humidity range			5 % to 95 %
Standards			IEC 61643-11: 2011 T1, T2 EN 61643-11: 2012 Type 1 + Type 2
Approvals			CE, EAC, VDE

Choice of disconnector / surge arrester

Туре	l imp: impulse current	lsc: prospec	lsc: prospective short circuit current at installation point									
		10) kA 🤺	15 kA	16 kA	25	kA	3	5 kA	50 I	κA	70 kA
iPRD1 12.5r	12.5 kA	C120N C80 A ⁽¹⁾	C120H C80 A ⁽¹⁾)	NG125N A ⁽²⁾	C80	Compact NSXm F TM80D		Compact NSXm N TM80D		Compact NSXm H TM80D	

(1): For lightning impulse current withstand use NSXm E TM80D range (2): For lightning impulse current withstand use NSXm B TM80D range



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Reference Numbers

iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters

arresters allow quick replacement of damaged

- 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)

Type of protection

- the iPRD40(r) is recommended for a high risk level
- the iPRD20(r) is recommended for a medium risk level

Nominal

• secondary protection (type 2 or 3):

Rated discharge

- 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.

Network

The iPRD surge arresters with "r" indication have remote transfer of the information: "cartridge to be replaced". Cover all applications required by the MEN earthing system (Multiple Earthed Neutral) defined by AS/NZS 3000. 1P or 3P SPDs need to be installed in the main LV switchboard where the MEN link is connected. 1PN or 3PN are installed in the other distribution boards.





current (Imax)	discharge current (In)			DB122942					
		Incoming	Secondary	1P+N	3P+N	1P	2P	3P	4P
iPRD65									
65 kA Very high risk level	20 kA	iPRD65				A9L65101 A9L65121			
(strongly exposed site)				A9L65501		7.0200121			
								A9L65301	
					A9L65601				
iPRD40									
40 kA	15 kA	iPRD40				A9L40101			
High risk level						A9L40100			
				A9L40501					
				A9L40500					
								A9L40301	
					A9L40601			A9L40300	
					A9L40600				
iPRD20					7.0210000				
20 kA	5 kA	iPRD20				A9L20100			
Medium risk level				A9L20501					
				A9L20500					
								A9L20300	
					A9L20601				
					A9L20600				
iPRD8									
8 kA Secondary pro- tection: placed near the	2.5 kA		iPRD8	4.01.00561		A9L08100			
loads to be protected				A9L08501 A9L08500					
when they are at a dis- tance of more than 10 m				A9E00000				A9L08300	
from the incoming surge					A9L08601			A3E00300	
arrester					A9L08600				



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Reference Numbers

iPRD surge arresters

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

	Pres	Spare cartri	dges iPRD	
22	S. gradier	Туре	Spare cartridges for	Cat. no
	-	iPRD 65-350	iPRD65r	A9L65102
		iPRD 40-350	iPRD40, iPRD40r	A9L4010
		iPRD 20-350	iPRD20, iPRD20r	A9L2010
		iPRD 8-350	iPRD8, iPRD8r	A9L0810
	1000	iPRD Neutral	All products (1P+N, 3P+N)	A9L0000

	Earthing system	Transfer	Surge arrester name	Width in mod. of 9 mm	Up - (k Voltagi		tion level	Un - (V) Rated voltage network	Uc - (V) Maximu	Uc - (V) Maximum continuous operating	
					CM*		DM*		CM*		DM*
					L/t	N/t	L/N		L/t	N/t	L/N
iPRD65											
A9L65101	TT & TN		iPRD65r 1P	2	y 1.5	-	-	230	350	-	-
A9L65501	TT & TN-S		iPRD65r 1P+N	4	-	y 1.4	y 1.5		-	260	350
A9L65301	TN-C		iPRD65r 3P	6	y 1.5	-	-	230/400	350	-	-
A9L65601	TT & TN-S		iPRD65r 3P+N	8	-	y 1.4	y 1.5		-	260	350
iPRD40											
A9L40101	TT & TN		iPRD40r 1P	2	y 1.6	-	-	230	350	-	-
A9L40100	TT & TN		iPRD40 1P		y 1.6	-	-		350	-	-
A9L40501	TT & TN-S		iPRD40r 1P+N	4	-	y 1.4	y 1.6		-	260	350
A9L40500	TT & TN-S		iPRD40 1P+N		-	y 1.4	y 1.6		-	260	350
A9L40301	TN-C		iPRD40r 3P	6	y 1.6	-	-	230/400	350	-	-
A9L40300	TN-C		iPRD40 3P		y 1.6	-	-		350	-	-
A9L40601	TT & TN-S		iPRD40r 3P+N	8	-	y 1.4	y 1.6		-	260	350
A9L40600	TT & TN-S		iPRD40 3P+N		-	y 1.4	y 1.6		-	260	350
iPRD20											
A9L20100	TT & TN		iPRD20 1P	2	y 1.2	-	-	230	350	-	-
A9L20501	TT & TN-S		iPRD20r 1P+N	4	-	y 1.4	y 1.2		-	260	350
A9L20500	TT & TN-S		iPRD20 1P+N		-	y 1.4	y 1.2		-	260	350
A9L20300	TN-C		iPRD20 3P	6	y 1.2	-	-	230/400	350	-	-
A9L20601	TT & TN-S		iPRD20r 3P+N	8	-	y 1.4	y 1.2		-	260	350
A9L20600	TT & TN-S		iPRD20 3P+N		-	y 1.4	y 1.2		-	260	350
iPRD8 (1)					Type 2 /	Туре 3 (1)				
A9L08100	TT & TN		iPRD8 1P	2	y 1.2	-	-	230	350	-	-
A9L08501	TT & TN-S		iPRD8r 1P+N	4	-	y 1.4	y 1.2		-	260	350
A9L08500	TT & TN-S		iPRD8 1P+N		-	y 1.4	y 1.2		-	260	350
A9L08300	TN-C		iPRD8 3P	6	y 1.2	-	-	230/400	350	-	-
A9L08601	TT & TN-S		iPRD8r 3P+N	8	-	y 1.4	y 1.2		-	260	350
A9L08600	TT & TN-S		iPRD8 3P+N		-	y 1.4	y 1.2		-	260	350

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

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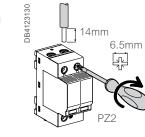
General overview

iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters

Connection

С



Type Tightening torque		Copper cables		
		Rigid	Flexible or with ferrule	
		DB122945		
iPRD	3.5 N.m	2.5 to 25 mm ²	4 to 16mm ²	

Technical Data iPRD surge arresters

Main characteristics	iPRD		
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), o	-		
Temporary overvoltage withstand	U _T (L-N)	337 V AC / 5 s	
(U _T)	U _T (L-PE)	442 V AC / 120 min	
Temporary overvoltage	U _T (N-PE)	1200 V AC / 200 ms	
Safe failure mode (U_{τ})	U _T (L-PE)	1455 V AC / 200 ms	
Ground residual current (I _{PE})	I _{PE} (L-PE) 600 μA for 1P, 2P, 3P, 4P		
	I _{PE} (N-PE)	3 μA for 1P+N, 3P+N	
Satisfactory operation indication:	White	In operation	
by mechanical indicator	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 mm ²	
Standards		IEC 61643-11: 2011 T2 , T3 and EN 6164 11: 2012 Type 2, Type 3	

Surge arrester/cir	Associated circuit breaker iPRD			
	lsc y 25 kA	lsc y 50 kA		
iPRD65	Curve C 50 A	Curve C 63 A		
iPRD40	Curve C 40 A	Curve C 63 A		
iPRD20	Curve C 20 A	Curve C 63 A		
iPRD8	Curve C 10 A	Curve C 63 A		

Weight (g)

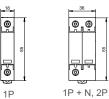
DB123314

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

IP20

IP40

iPRD dimensions (mm)



DB404819







C-64 | Life is On | Schneider Electric

General overview

iPRD surge arresters

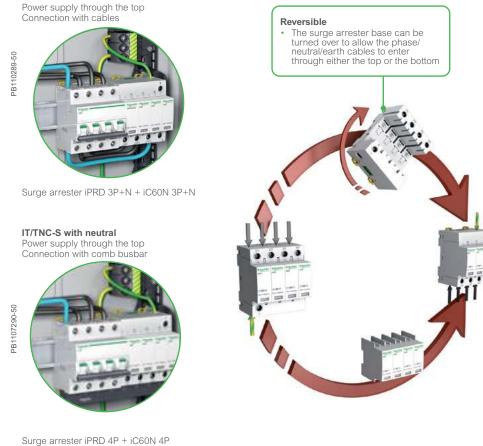
Type 2 or 3 LV withdrawable surge arresters (cont.)

iPRD surge arresters



Connection iPRD surge arresters with its short circuit disconnector

TT/TN-S



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



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

IT/TNC-S with neutral Power supply through the bottom Connection with comb busbar

PB110794-50



Surge arrester iPRD 4P + iC60N 4P



Accessories

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iC60, iID, iDPN Vigi, RCA, ARA, iSW

Accessories	Mounting			
	Rotary handle		Plug-in base	
	BB1045035		PB104508-35	
Function				
	 the rotary handle is fix Front-mounted (on door of orm (can be deactivated) Can be padlocked with padlocked with the de tion) Can be locked by padlocked by padlocke	IP55 rotary handle i is mounted on the device ed to the front or side of the enclosure	 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) v 2 "blades" to be fastened in the device's terminals Connection: tunnel terminals for cable up to 35 mm² rigid, 28 mm² 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	A9A27003	
	Operating sub-assembly		(1 per pole)	
	+	+	-	
	Black handle	Red handle		
Set of	1	1	1	
Suitability				
iC60	■ 2P, 3P, 4P			
iC60 RCBO	_		-	
iSW	■ 2P, 3P, 4P			
iC60 + Vigi iC60	■ 2P, 3P, 4P		_	
iID	•		■ ≤ 63 A	
iDPN Vigi	-		_	
RCA+iC60 or ARA+iC60	-		-	
ARA+iID	_		_	

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Accessories

iC60, iID, iDPN Vigi, RCA, ARA, iSW (Cont.)

Accessories	Mounting Padlocking device		Captive padlocking device		В
		PB111077-16		SAUA9PLDxx	C
Function					E
runction	 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 	Used to padlock protection device in open position • Padlock diameter: 3 mm • Suitable for IEC/EN 60947-2 compliant disconnection	Used to padlock breaker in closed position • Padlock diameter : 3 to 6 mm • Fixed mounting on the left side or right side of the device • 9 mm wide • Compatible with comb busbar	Used to padlock breaker in closed position Padlock diameter : 3 to 6.5 mm Fixed mounting on the line side of the device Compatible with MSC chassis Special Escutcheon Cut Out for SAUA9PLDx is 63mm (47mm + 16mm for padlocking device)	F G H
Catalogue numbers	A9A26970	A9A27049	A9A26380 A9A26381	SAUA9PLDF Front padlock device (set of 1), SAUA9PLDTC Padlock device terminal cover (set of 10), SAUA9PLDPF Padlock device pole filler (set of 2)	
Set of	10	10	1		
Suitability					
	•	-	■ iC60, iC60 RCBO (left only)	■ iC60, iC60 RCBO	
	_	•	– iC60+ Vigi iC60, iID		
		-			
		-			
		-			
	•	-	-		
	•	-			
			-		

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Accessories

iC60, iSW



Function

Prevents any contact with the connecting screws

Upgrades degree of protection to IP20D

• Sealable, max. diameter 1.2 mm

- g Prevents any contact with the terminals
- Upgrades degree of protection to IP20D
- Sealable, max. diameter 1.2 mm
- Set of two, for power supply and output 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 mm²

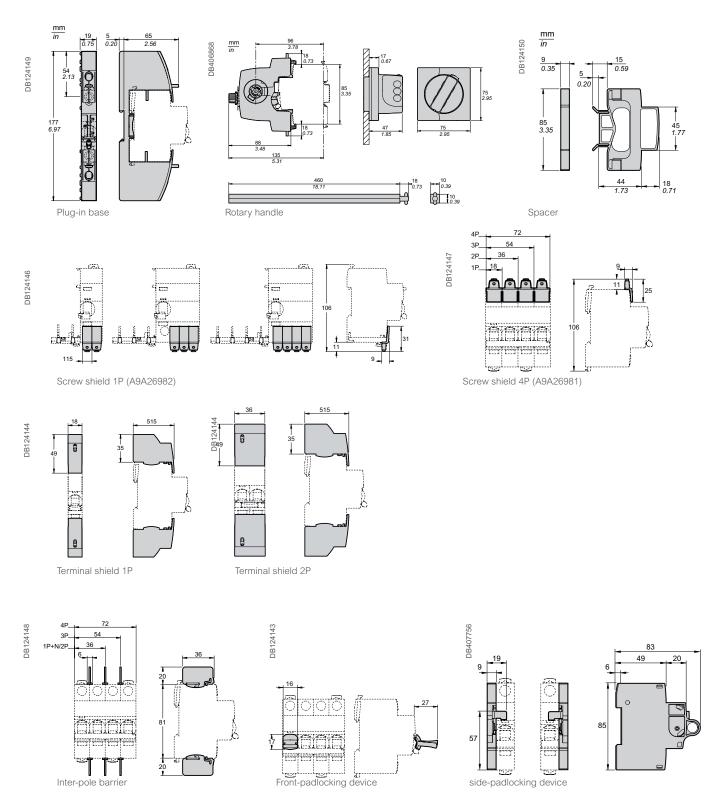
Catalogue numbers	A9A26982	A9A26981	A9A26975	A9A26976	A9A27001	A9A27062
Set of	12 x 1 pole	20 x 4 poles (split- table)	2 x 1 pole	2 x 2 poles	10	5
Suitability						
iC60	_					
iSW	-	-				
Vigi iC60		-	-	_	_	
iID	-		-			
iCV40,	_	-	_	_	_	
iDPN Vigi	-	-	-	-	-	
iID40	_	(2)	_	■ (2)	 only on power supply terminals (bottom) 	•
Reflex iC60 or	-					
RCA+iC60 or						
ARA+iC60						
ARA+iID	-		_			

(2) compatible only with power supply terminals (bottom), having removed the indication flap of connection direction.

Accessories



Dimensions (mm)







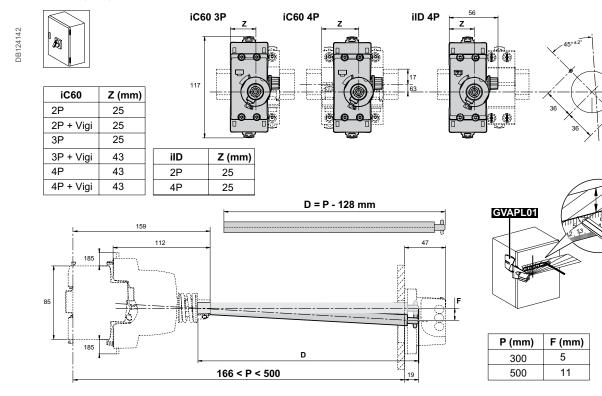
Accessories

iC60, iSW (cont.)

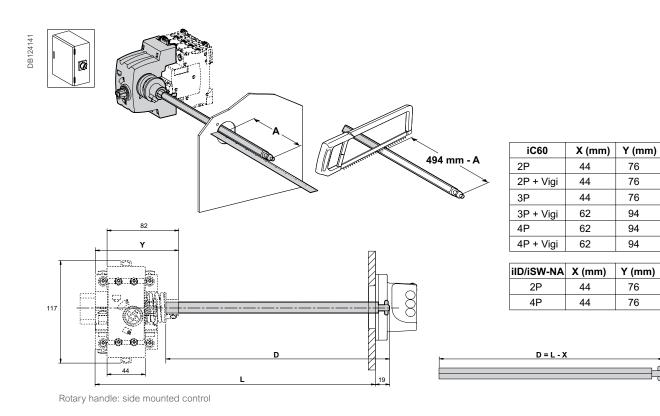
Rotary handle installation

Dimensions (mm)

С



Rotary handle: front mounted control



Ø 50

2Ø42

Accessories

C120, C60H-DC, iSW devices

circuit breaker

panel or on the enclosure doorthe fixed handle cat. no. 27048 is fixed to thefront or side panel of the enclosure

- the removable handle cat. no. 27047 is mounted on the removable front

Accessories	Installation					
	Rotary handle	Padlocking device				
	PB10013B_SE24	056886_SE				
unction						
	Front or side control of 2, 3 and 4-pole circuit breakers	Used to padlock a circuit breaker in the "open" or "closed" position				
	Degree of protection: IP40	Diameter of the padlock: 8 mm max.				
	A complete rotary handle consists of:	Locking in the ON position does not prevent the				
	- a circuit-breaker operating sub-assembly, cat. no. 27046,	circuit breaker from tripping in the event of a				
	- a handle cat. no. 27047 or a handle cat. no. 27048	fault				
	Installation:	 Isolation: in conformity with IEC/EN 60947-2. 				
	- the circuit-breaker operating sub-assembly cat. no. 27046 is fixed to the					

Cat. numbers	27047 Removable extended handle	27048 Fixed handle	27046 Operating sub-assembly	27145	26970
Set of	1	1	1	4	2
Suitable for the fo	Ilowing devices:				
C60	■ 2P, 3P, 4P			-	
C120	■ 2P, 3P, 4P			•	-
C120 + Vigi C120	■ 2P, 3P, 4P				-
DPN, DPN Vigi	■ 3P, 4P			-	•
C60H-DC	■ 2P			-	
ID	-			-	•
iSW	■ iSW u at 4 modules of 9 mm			-	•
				-	

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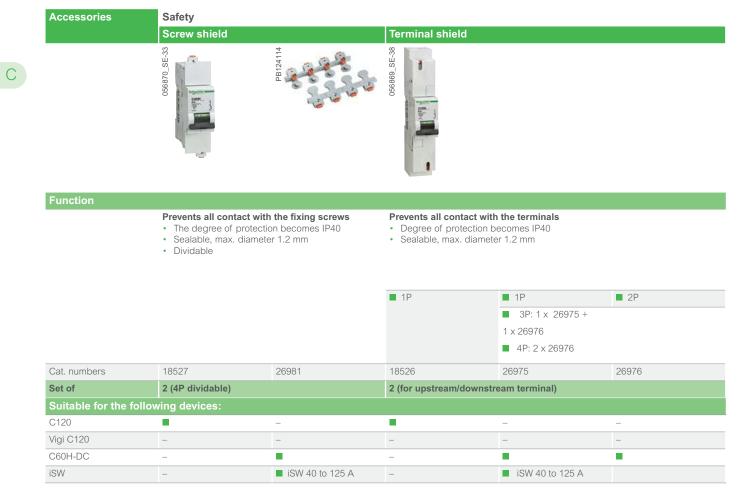
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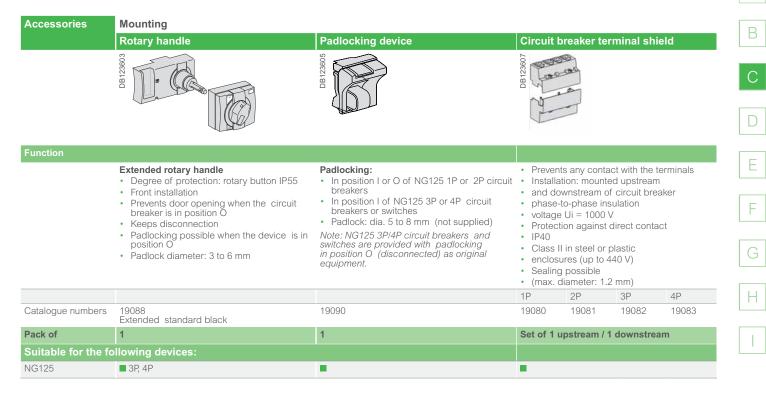
Accessories

C120, C60H-DC, iSW devices (cont.)



Accessories

NG125 Devices





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Acti9 Protection and Isolation

Auxiliaries

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Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC

- The electrical auxiliaries are combined with iC60, iDPN Vigi circuit breakers, iID, iDPN VigiARC
- 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.
- The iOF+SD24 auxiliary can report open/ closed (OF) status information and intentional or fault tripping of the associated device (SD) to the Acti9 Smartlink or a programmable logic controller via the TI24 interface (24 V DC).
- The low current auxiliaries iOF, iSD, iSD+OF (2 to 100 mA) are especially dedicated to low current application to report status information to a Programmable Logic Controller (Industry) or a Controller (Building/BMS).

Tripping auxiliaries:

IEC 60947-1 / AS/NZS 60947.1

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

IEC 63052

• iMSU: overvoltage release.

Indication auxiliaries:

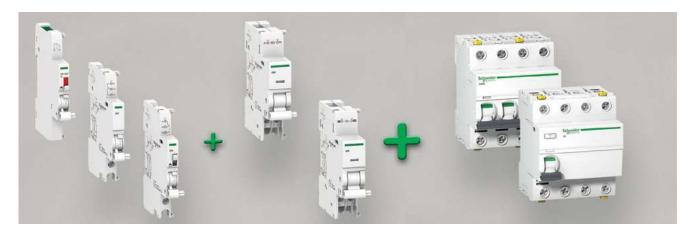
AS/NZS IEC 60947-5-1

- iOF: open/close contact 0.1 6A
- iSD: fault indicating contact 0.1 6A
- iOF/SD+OF: open/close contact and switchable OF or SD contact 0.1 6A
- iOF+SD24: open/close contact OF and default indicating contact SD with Ti24 interface.

AS/NZS IEC 60947-5-4

• iOF+SD24: open/close contact OF and default indicating contact SD with Ti24 interface.

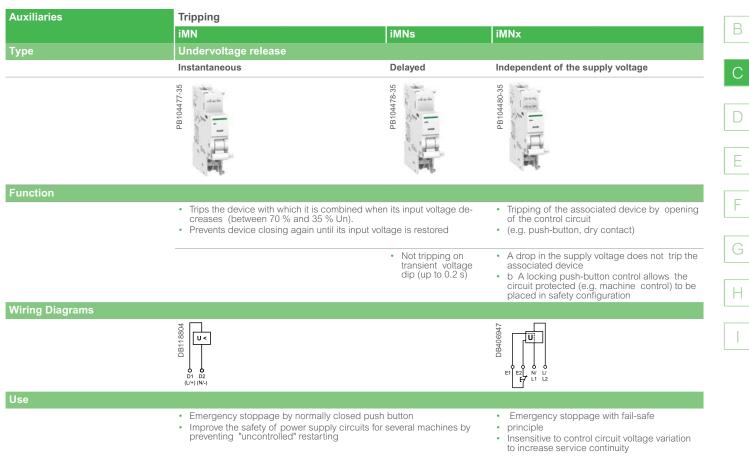






Auxiliaries

Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC (cont.)



Important: Before any servicing operation switch off the mains power supply (voltage presence at terminals E1/E2)

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Catalogue numbers	A9A26960	A9A26961	A9A26963	A9A26969	A9A26971
iC60, iID, iDPN Vigi					
iC60 RCBO					
Technical specifications					
Rated voltage (Ue)	220240 V AC	48 V AC	220240 V AC	220240 V AC	380415 V AC
	-	48 V CC	-	-	
Standardised operating and	_	-	-	_	-
non-response to voltage times (Ua)*					
Maximum operating time	-	-	-	-	-
Minimum non-response time	-	-	-	-	-
Operating frequency	50/60 Hz		50/60 Hz	50/60 Hz	
Red mechanical indicator	On front face		On front face	On front face	
Test function	-		-	_	
Width in 9 mm modules	2		2	2	
Operating current	_		_	_	
Number of contacts	-		-	-	
Operating temperature	-35+70°C		-35+70°C	-35+70°C	
Storage temperature	-40+85°C		-40+85°C	-40+85°C	

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



Acti9 Protection and Isolation

Auxiliaries

Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC (cont.)

		Tripping				10/1-05		
	iMSU					iMX+OF		
Гуре	Overvoltage release					Shunt release		
						With Open/Close a	uxiliary contact	
	PB104479-35					PB104481-35		
unction	and the					and a		
	Switches of it is combi- ceeded (lo tripping au	oss of neutral	supply by ope vent that the pl). For a four-pl	ning the break nase/neutral vo nase network, u	er with which Itage is ex- Ise three iMSU	Trips the association	ated device when it	is powered on
						 Includes an operative state of the state of	en/close contact (Of of the device) to indicate the "open"
Viring Diagrams								
	<pre>C DB118806 C DB18</pre>							
lse						(L/+) (N/-)		
	Protection	of equipmen	t against over	voltages on the		Emergency stor	page by normally o	nen push button
atalagua numbara	electrical nVoltage m	network (neut	ral conductor	voltages on the break) nd neutral cond		Remote indication		the associated device
-	electrical n Voltage m A9A26500	network (neut	ral conductor	break)		Remote indication A9A26946	A9A26947	the associated device A9A26948
C60, iID, iDPN Vigi	electrical n Voltage m A9A26500	network (neut	ral conductor	break)		Remote indication A9A26946	A9A26947	the associated device A9A26948
C60, iID, iDPN Vigi C60 RCBO echnical	electrical n Voltage m A9A26500	network (neut	ral conductor	break)		Remote indication A9A26946	A9A26947	the associated device A9A26948
C60, iID, iDPN Vigi C60 RCBO echnical	electrical n Voltage m A9A26500	network (neut	ral conductor	break)		Remote indication A9A26946	A9A26947	the associated device A9A26948
C60, iID, iDPN Vigi C60 RCBO echnical	electrical r Voltage m	network (neut	ral conductor	break)		Remote indication A9A26946	A9A26947	the associated device
C60, iID, iDPN Vigi C60 RCBO echnical	electrical r Voltage m A9A26500 230 V AC	network (neut	ral conductor	break)		Remote indication A9A26946 Indication 100415 V AC	A9A26947	A9A26948 1224 V AC
C60, iID, iDPN Vigi C60 RCBO echnical	electrical r Voltage m A9A26500 C 230 V AC -	275 V AC 15 s	rral conductor ween phase ar	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC 	A9A26947 48 V AC 48 V DC	the associated device A9A26948
C60, iID, iDPN Vigi C60 RCBO echnical	electrical r Voltage m A9A26500 Solution 230 V AC - 255 V AC	network (neut onitoring betw 275 V AC	and conductor ween phase an second se	break) nd neutral cond 350 V AC	uctors 400 V AC	 Remote indication A9A26946 100415 V AC 110130 V DC - 	A9A26947 A8V AC 48 V AC 48 V DC -	the associated device A9A26948 1224 V AC 1224 V DC -
C60, iID, iDPN Vigi C60 RCBO echnical	electrical r Voltage m A9A26500 Solution 230 V AC - 255 V AC	275 V AC 15 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz 	A9A26947 A8 V AC 48 V AC 48 V DC – –	the associated device A9A26948 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
C60, iID, iDPN Vigi C60 RCBO echnical	 electrical r Voltage m A9A26500 230 V AC - 255 V AC No tripping	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - - - - 	A9A26947 A8 V AC 48 V AC 48 V DC – –	the associated device A9A26948 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
C60, iID, iDPN Vigi C60 RCBO echnical	 electrical r Voltage m A9A26500 230 V AC 230 V AC 255 V AC No tripping 50/60 Hz 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz 	A9A26947 A8 V AC 48 V AC 48 V DC – –	the associated device A9A26948 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
C60, iID, iDPN Vigi C60 RCBO echnical	electrical r Voltage m A9A26500 A9A26500 230 V AC - 255 V AC No tripping 50/60 Hz On front face	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face 	A9A26947 A8 V AC 48 V AC 48 V DC – –	the associated device A9A26948 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
C60, iID, iDPN Vigi C60 RCBO echnical	electrical r Voltage m Vo	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face - 	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
C60, iID, iDPN Vigi C60 RCBO echnical	 electrical r Voltage m A9A26500 A9A26500 230 V AC 230 V AC - 255 V AC No tripping 50/60 Hz On front face - 2 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face - 2 	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
C60, iID, iDPN Vigi C60 RCBO Technical	 electrical r Voltage m A9A26500 A9A26500 230 V AC 230 V AC - 255 V AC No tripping 50/60 Hz On front face - 2 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face - 2 10 mA mini, 6 A mini 	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948
C60, iID, iDPN Vigi C60 RCBO Technical	 electrical r Voltage m A9A26500 A9A26500 230 V AC 230 V AC - 255 V AC No tripping 50/60 Hz On front face - 2 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face - 2 10 mA mini, 6 A ministric 4 V DC 	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948 A9A26948 1224 V AC 1224 V DC
C60, iID, iDPN Vigi C60 RCBO Technical	 electrical r Voltage m A9A26500 A9A26500 230 V AC 230 V AC - 255 V AC No tripping 50/60 Hz On front face - 2 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face - 2 10 mA mini, 6 A ministriction ≤ 24 V DC 48 V DC 	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948 A9A26948 1224 V AC 1224 V AC 1224 V DC
C60, iID, iDPN Vigi C60 RCBO Technical	 electrical r Voltage m A9A26500 A9A26500 230 V AC 230 V AC - 255 V AC No tripping 50/60 Hz On front face - 2 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 ■ <li< td=""><td>A9A26947 A8 V AC 48 V AC 48 V DC - - -</td><td>the associated device A9A26948 A9A26948 1224 V AC 1224 V AC 1224 V DC</td></li<>	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948 A9A26948 1224 V AC 1224 V AC 1224 V DC
C60, iID, iDPN Vigi C60 RCBO Technical	 electrical r Voltage m A9A26500 A9A26500 230 V AC 230 V AC - 255 V AC No tripping 50/60 Hz On front face - 2 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face - 2 10 mA mini, 6 A mini ≤ 24 V DC 48 V DC ≤ 130 V DC ≤ 240 V AC 	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948 A9A26948 1224 V AC 1224 V DC
Catalogue numbers C60, iID, iDPN Vigi C60 RCBO Fechnical specifications	 electrical r Voltage m A9A26500 A9A26500 230 V AC 230 V AC - 255 V AC No tripping 50/60 Hz On front face - 2 	275 V AC 15 s 3 s	and conductor ween phase an	break) nd neutral cond 350 V AC 0.75 s	400 V AC 0.20 s	 Remote indication A9A26946 100415 V AC 110130 V DC - - 50/60 Hz On front face - 2 10 mA mini, 6 A main ≤ 24 V DC 48 V DC ≤ 130 V DC ≤ 240 V AC 415 V AC 	A9A26947 A8 V AC 48 V AC 48 V DC - - -	the associated device A9A26948 A9A26948 1224 V AC 1224 V DC

Auxiliaries

Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC (cont.)

Auxiliaries		Indication			
		iSD+OF	iOF/SD+OF	iOF+SD24	
Туре		Open/close and fault indicating contact	Double open/close or fault	Double open/close and fa	ult indicating contact
			indicating contact		
Function			1.0		
		 The iSD+OF auxiliary is a 2-in-1 product: it provides an OF+SD contact 2 contacts (2 NO/NC) can report the signalling information of the associated device to a Programmable Logic Controller (Industry) or a Controller (Building/BMS) 	cal selector switch, it provides 2 contacts, OF+SD or OF+OF	 2 contacts (1 NO + 1 NC information of the associ Smartlink, a Programmal dustry) or a Controller (B electrical fault actuation of the tripp "Open" or "Closed" p device 	ated device to the Acti9 ble Logic Controller (In- uilding/BMS):
Wiring Diagrams		€ 14 12 11 8 9 9 9			
		SD+OF	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		24 VDC/VCC SD OF
Utilization		 Remote indication of position and tripping upon a fault of the associated device 	 Remote indication of position and/or tripping upon a fault of the associated device 	 Remote indication of pos fault of the associated de 	
Catalogue numbers		A9A26919	A9A26909	A9A26897	A9A26898
iC60, iID, iDPN Vigi, iDP	'N VigiARC				
iC60, iID double termina		•	•		
C60 RCBO, iKQE RCBO		•		•	-
Technical specification					
Rated voltage (Ue)	VAC	24250	24415	-	-
-	V DC	24220	24130	24	24
Operating frequency	Hz	50/60	50/60	-	-
Red mechanical indicat	.or	On front face	On front face	On front face	On front face
Test function		() p togglo		On toggle	() in to origin
		On toggle	On toggle	0.0	On toggle
Width in 9 mm modules		1	1	1	1
Width in 9 mm modules	24 V DC	1 2 mA to 100 mA	1 100 mA to 6 A	1 2 mA to 100 mA	1 2 mA to 100 mA
Width in 9 mm modules	24 V DC 48 V DC	1 2 mA to 100 mA 2 mA to 100 mA	1 100 mA to 6 A 100 mA to 2 A	1	1
Width in 9 mm modules	24 V DC 48 V DC 60 V DC	1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A	1 2 mA to 100 mA	1 2 mA to 100 mA
Width in 9 mm modules	24 V DC 48 V DC 60 V DC 130 V DC	1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A	1 2 mA to 100 mA - -	1 2 mA to 100 mA - - -
Width in 9 mm modules	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC	1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A	1 2 mA to 100 mA - - -	1 2 mA to 100 mA - - -
Width in 9 mm modules	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC 24240 V AC	1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A	1 2 mA to 100 mA - -	1 2 mA to 100 mA - - -
Width in 9 mm modules Operating current	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC	1 2 mA to 100 mA 2 mA to 100 mA	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A	1 2 mA to 100 mA - - - -	1 2 mA to 100 mA - - -
Width in 9 mm modules Operating current	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC 24240 V AC	1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A	1 2 mA to 100 mA - - -	1 2 mA to 100 mA - - -
Width in 9 mm modules Operating current Number of contacts	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC 24240 V AC 415 V AC	1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OE) / NC	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A	1 2 mA to 100 mA - - - -	1 2 mA to 100 mA - - - - - -
Width in 9 mm modules Operating current Number of contacts Connections - terminals	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC 24240 V AC 415 V AC	1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC 1 NO / NC (SD)	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC	1 2 mA to 100 mA - - - - - 1 NO (OF) + 1 NC (SD)	1 2 mA to 100 mA - - - - - -
Width in 9 mm modules Operating current Number of contacts Connections - terminals Wiring position	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC 24240 V AC 415 V AC	1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC 1 NO / NC (SD) Screw clamp	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC 1 NO (OF) / NC 1 NO (OF) / NC 2 NO (OF) / NC 1 NO (OF) /	1 2 mA to 100 mA - - - - - 1 NO (OF) + 1 NC (SD) Spring-loaded Ti24 (sold set	1 2 mA to 100 mA - - - - - - - -
Width in 9 mm modules Operating current Number of contacts Connections - terminals Wiring position Busbar compatibility Operating temperature	24 V DC 48 V DC 60 V DC 130 V DC 220 V DC 24240 V AC 415 V AC	1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC 1 NO / NC (SD) Screw clamp	1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC 1 NO (OF) / NC 1 NO (OF) / NC 2 NO (OF) / NC 1 NO (OF) /	1 2 mA to 100 mA - - - - 1 NO (OF) + 1 NC (SD) Spring-loaded Ti24 (sold set Top	1 2 mA to 100 mA - - - - - - - - - - - - -



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Acti9 Protection and Isolation

Auxiliaries

Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC

Auxiliaries		Indication					
		iOF		iSD	iSD		
Туре		Open/closed auxiliary	contact	Fault indicating conta	ct		
		A9A26914	A9A26904	A9A26917	A9A26907		
Function							
Wiring Diagrams		 of the device Low current auxiliary can report the signal 	indicates "open" or "closed" positic (2 to 100 mA): 1 contact (1 NO/N(ling information to a Programmabl ustry) or a Controller (Building/BM	upon: • electrical fault • action on trippin • Same indication as N • Low current auxiliary NC) can report the s			
				0843389257 0 0 0943389257 0 0 0443389257 0 0443389257			
Utilization							
		Remote indication of device	the position of the associated	 Remote indication of ated device 	tripping upon a fault of the asso		
Catalogue numbers		A9A26914	A9A26904	A9A26917	A9A26907		
iC60, iID, iDPN Vigi, iD	PN VigiARC						
iC60, iID double termir		_	-	-	-		
iC60 RCBO, iKQE RCE	30						
Technical specification	ons						
Rated voltage (Ue)	V AC	24250	24415	24250	24415		
	V DC	24220	24130	24220	24130		
Operating frequency	Hz	50/60	50/60	50/60	50/60		
Red mechanical indica	ator	-	-	On front face	On front face		
Test function		On toggle	On toggle	On toggle	On toggle		
Width in 9 mm module		1	1	1	1		
Operating current	24 V DC	2 mA to 100 mA	100 mA to 6 A	2 mA to 100 mA	100 mA to 6 A		
	48 V DC	2 mA to 100 mA	100 mA to 2 A	2 mA to 100 mA	100 mA to 2 A		
	60 V DC	2 mA to 100 mA	100 mA to 1.5 A	2 mA to 100 mA	100 mA to 1.5 A		
	130 V DC	2 mA to 100 mA	100 mA to 1 A	2 mA to 100 mA	100 mA to 1 A		
	220 V DC	2 mA to 100 mA	-	2 mA to 100 mA	-		
	24240 V AC	2 mA to 100 mA	100 mA to 6 A	2 mA to 100 mA	100 mA to 6 A		
	415 V AC	-	100 mA to 3 A	-	100 mA to 3 A		
Number of contacts		1 NO (OF) / NC	1 NO (OF) / NC	1 NO / NC (SD)	1 NO / NC (SD)		
Connections - terminal	ls	Screw clamp	Screw clamp	Screw clamp	Screw clamp		
Wiring position		Bottom	Bottom	Bottom	Bottom		
Busbar compatibility		Тор	Тор	Тор	Тор		
Operating temperature	e °C	-25+70	-35+70	-25+70	-35+70		
Storago tomporaturo	°C	40 195	40 195	40 +85	40 +85		

Storage temperature °C

-40...+85

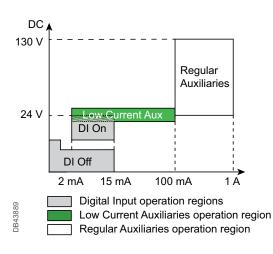
-40...+85

-40...+85

-40...+85

Auxiliaries

Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC (cont.)

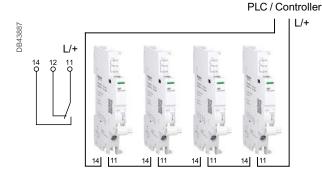


How to generate summary data using OF or SD contacts of low current electrical auxiliaries

- Electrical summary of the OF signals or electrical summary of the SD signals can be generated with low current indication auxiliaries (2 mA to 100 mA) wired as a daisy chain
- The OF connections and the SD connections must not be connected on the same daiy chain: 2 separate daisy chains are required to report OF information on the one hand and SD information on the other
- A daisy chain is made of up to 100 OF contacts or 100 SD contacts
- A daisy chain is connected locally to the PLC or the Controller (inside the same switchboard).

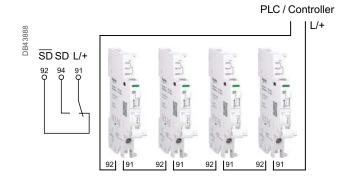
OF contacts within a daisy chain

- OF contacts are Normally Open (NO)
- The electrical summary of the OF signals can be done by cabling in series all OF signals
- Any open position opens the daisy chain and can be detected.



SD contacts within a daisy chain

- SD contacts are Normally Closed (NC)
- The electrical summary of the SD signals can be done by cabling in series all SD signals
- Any SD signal opens the daisy chain and can be detected.



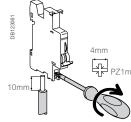


Acti9 Protection and Isolation

Auxiliaries

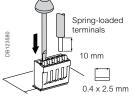
Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC (cont.)

Connection



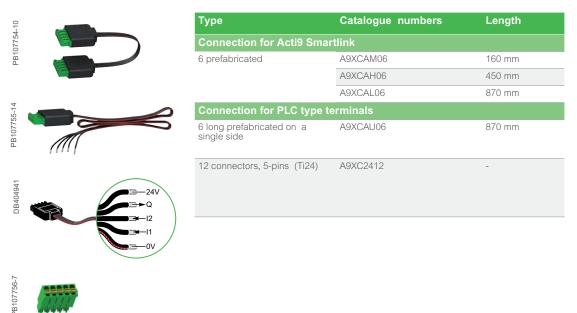
	Туре			es	Multi-cables		
		torque	Rigid	Flexible	Rigid	Cables with ferrule	
n PZ1mm			DB122945	DB123007	DB123011	DB123008	
Ś	Indication auxiliaries	1 N.m	1 to 4 mm ²	0.5 to 2,5 mm ²	2 x 2.5 mm ²	2 x 1.5 mm ²	
\mathcal{I}	Tripping auxiliaries	1 N.m	1 to 6 mm ²	0.5 to 4 mm ²	2 x .2.5 mm ²	2 x 2.5 mm ²	

Ti24 connector Connection



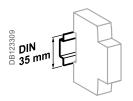
d	Туре	Catalogue numbers	Copper cables	
			Rigid	Flexible
			DB122945	DB173863
nm	Ti24 interface	A9XC2412	1×0.5 to 1.5 mm^2	1 x 0.5 to 1.5 mm ²

Ti24 prefabricated cables connection

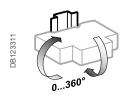


Auxiliaries

Electrical auxiliaries for iC60, iID, iDPN Vigi, iDPN VigiARC (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.

Technical data
Weight (g)

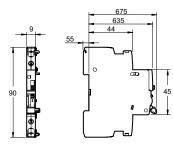
Electrical auxiliaries						
Туре						
iMN	69					
iMNs	72					
iMNx	79					
iMSU	68					
iMX	64					
iMX+OF	68					
iOF	32					
iSD	33					
iOF/SD+OF	43					
iOF+SD24	25					



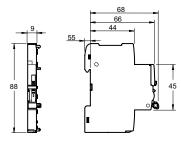
А

В

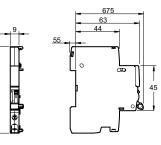
Dimensions (mm)



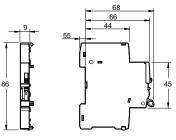
iOF/SD+OF



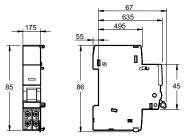
iOF+SD24 (A9A26897)



iOF, iSD



iOF+SD24 (A9A26898)



iMN, iMNs, iMNx, iMSU, iMX, iMX+OF

Acti9 Protection and Isolation

Auxiliaries

Electrical auxiliaries for C120, C60H-DC

- 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.
- The OF+SD24 auxiliary can report open/ closed (OF) status information and intentional or fault tripping of the associated device (SD) to the Acti 9 Smartlink or a programmable logic controller via the TI24 interface (24 V DC).
- The low current auxiliaries OF, SD (2 to 100 mA) are especially dedicated to low current application to report status information to a Programmable Logic Controller (Industry) or a Controller (Building/BMS).

Tripping auxiliaries:

AS/NZS IEC 60947-1

- MN: undervoltage release
- MNs: delayed undervoltage release
- MNx: undervoltage release, independant from supply voltage
- MX: shunt release
- MX+OF: shunt release with open/close contact.

IEC 63052

• MSU: overvoltage release.

Indication auxiliaries:

AS/NZS IEC 60947-5-1

- OF.S: open/closed contact for ID
- 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
- OF+SD24: open/close contact OF and cfault indicating contact SD with Ti24 interface.

AS/NZS IEC 60947-5-4

• OF+SD24: open/close contact OF and default indicating contact SD with Ti24 interface.

Auxiliaries

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



(1) For C120, DPN.

EN 62019-2(1)

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



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Acti9 Protection and Isolation

Tripping

Auxiliaries

Auxiliaries

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

С

	MSU			MX MX+OF							
	Voltage threshold release			Shunt release							
				With		With Open/C	Vith Open/Close auxiliary contact				
	B107153-30					PB107150-30			PB107148-30		
unction											
	with whic voltage is	ch it is as: exceed	supply by op sociated whe ed (loss of ne e three MSU	n the phase eutral). For a	e/neutral a four-	• Trips the a	associated dev	vice when it is	 Includes a to indicate 	the "open" of	contact (OF
Niring Diagrams									position of	the breaker	
	×€U]				DB123012			65 14 12 12 12 12 12 11 (L ⁴) (N ²)]	
Jtilization	on the el conducto • Monitorin	ectrical n or) g the volt	levices again: etwork (breal age between I conductor	< in the neu	tral	Emergence pushbutto	sy stop via a no n.	ormally-open	pushbuttor Remote inc	1	
Catalogue numbers	A9N26500					A9N26476	A9N26477	A9N26478	A9N26946	A9N26947	A9N26948
									•		
	-					-	-		-	•	-
Technical specifications											
						100415	48	1224	100415	48	1224
	230										
	-					110130	48	1224	110130	48	1224
		275 V AC	300 V AC	350 V AC							
	-	275 V AC 15 s	300 V AC 5 s	350 V AC	400 V AC 0.20 s	110130 -	48	1224	110130	48	1224
	- 255 V AC	AC			AC	110130 - -	48	1224 -	110130 -	48	1224 -
	- 255 V AC	AC 15 s	5 s	0.75 s	AC 0.20 s	110130 - -	48 - -	1224 - -	110130 - -	48 - -	1224 - -
	- 255 V AC No tripping	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - -	48 	1224 - -	110130 - - -	48 - - -	1224 - -
	- 255 V AC No tripping 50/60	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60	48 	1224 - -	110130 - - 50/60	48 - - -	1224 - -
	- 255 V AC No tripping 50/60 On front fact	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face	48 	1224 - -	110130 - - 50/60 On front face	48 - - -	1224 - -
	- 255 V AC No tripping 50/60 On front fact	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face -	48 	1224 - -	110130 - - 50/60 On front face -	48 - - -	1224 - -
	 255 V AC No tripping 50/60 On front fact - 2	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2	48 	1224 - -	110130 - - 50/60 On front face - 2	48 - - 6 A maxi 6 A	1224 - -
	 255 V AC No tripping 50/60 On front fact - 2	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC	48 - - - 6 A maxi	1224 - -
	 255 V AC No tripping 50/60 On front fact - 2	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC	48 - - 6 A maxi 6 A 2 A 1 A	1224 - -
	 255 V AC No tripping 50/60 On front fact - 2	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC	48 - - 6 A maxi 6 A 2 A 1 A 6 A	1224 - -
	 255 V AC No tripping 50/60 On front fact - 2	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 240 V AC	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -
	 255 V AC No tripping 50/60 On front fact - 2	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 240 V AC AC	48 - - 6 A maxi 6 A 2 A 1 A 6 A	1224 - -
	 255 V AC No tripping 50/60 On front fact - 2 -	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2 - -	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 240 V AC y 240 V AC AC 1 NO/NC	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -
	 255 V AC No tripping 50/60 On front face - 2 - - - - - 	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2 - - - - - - - - - - - - -	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 240 V AC y 240 V AC AC 1 NO/NC -25+50	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -
Standards	 255 V AC No tripping 50/60 On front fact - 2 -	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2 - -	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 240 V AC y 240 V AC AC 1 NO/NC	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -
Standards		AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - - 50/60 On front face - 2 - - - -25+50 -40+85	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 240 V AC y 240 V AC AC 1 NO/NC -25+50 -40+85	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -
Standards	 255 V AC No tripping 50/60 On front fac. - 2 - 2 - - - - - - - - - - - - - - -	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - 50/60 On front face - 2 - - - -25+50 -40+85	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 130 V DC y 130 V AC - AC 1 NO/NC -25+50 -40+85	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -
Standards	 255 V AC No tripping 50/60 On front fac. - 2 - 2 - - - - - - - - - - - - -	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - 50/60 On front face - 2 - - - - -25+50 -40+85 - -	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 ∨ DC 48 ∨ DC y 130 ∨ DC y 130 ∨ DC y 130 ∨ DC AC 1 NO/NC -25+50 -40+85 -	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -
Standards	 255 V AC No tripping 50/60 On front fac. - 2 - 2 - - - - - - - - - - - - - - -	AC 15 s 3 s	5 s	0.75 s	AC 0.20 s	110130 - 50/60 On front face - 2 - - - -25+50 -40+85	48 	1224 - -	110130 - - 50/60 On front face - 2 10 mA mini, y 24 V DC 48 V DC y 130 V DC y 130 V DC y 130 V AC - AC 1 NO/NC -25+50 -40+85	48 - - 6 A maxi 6 A 2 A 1 A 6 A 415 V	1224 - -

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Auxiliaries

Electrical auxiliaries for C120, C60H-DC, C60PV-DC (cont.)

Auxiliaries		Indication			
		OF	OF	SD	
Гуре		Open/closed auxilia	arv contact	Fault indicating conta	ct
			-		-
		A9N26914	A9A26904	A9N26917	A9N2690
		A9h	A9/	49A	AS
		1.	20		100
		E B I	a the first	ERT	
		ALL	and the second s	a la	
			S IN STATE		State Com
			1.		1. A.
unction				1.0	
anotion		Changeover contact	indicates the "open" or "closed"	Changeover contact inc	dicates the position of the device upon:
		position of the device	е .	 electrical fault 	
		Low current auxiliary can report the signal	(2 to 100 mA): 1 contact (1 NO/NC ling information to a Programmable	 action on tripping a 	
			ustry) or a Controller (Building/BMS	 Low current auxiliary (2 the signalling informatic 	to 100 mA): 1 contact (1 NO/NC) can repo on to a pProgrammable Logic Controller
				(Industry) or a Controlle	er (Building/BMS)
Viring diagr	ams				
		014 12 11 018 0 0 0		C1 92 94 91	
				╝│└╴┶┐	
se			a 10 ca 1		
		 Remote indication of device 	the position of the associated	 Remote fault tripping in 	dication of the associated device
atalogue n	umbers	A9N26914	A9N26904	A9N26917	A9N26907
					_
)					
C60, C120, D C60H-DC, C6 C, C60PV-D	DPN, DPN Vigi, 60H-DC, SW60- DC, C60NA-DC,				
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC	50H-DC, SW60-				
260, C120, D 260H-DC, C6 0C, C60PV-D 2120NA-DC 2 echnical sp	60H-DC, SW60- DC, C60NA-DC, ecifications				24415 V AC
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp	60H-DC, SW60- DC, C60NA-DC, ecifications	•	•	•	•
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp ated voltage	60H-DC, SW60- C, C60NA-DC, ecifications e (Ue)	■ 24250 V AC	24415 V AC	24250 V AC	24415 V AC
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp ated voltage	60H-DC, SW60- C, C60NA-DC, ecifications e (Ue)	24250 V AC 24220 V DC	24415 V AC 24130 V DC	24250 V AC 24220 V DC	24415 V AC 24130 V DC
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC achnical sp ated voltage perating fre lechanical s	60H-DC, SW60- IC, C60NA-DC, ecifications e (Ue) equency	24250 V AC 24220 V DC 50/60 Hz	24415 V AC 24130 V DC 50/60 Hz	24250 V AC 24220 V DC 50/60 Hz	24415 V AC 24130 V DC 50/60 Hz
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp ated voltage perating fre lechanical s est function	60H-DC, SW60- C, C60NA-DC, ecifications e (Ue) equency tate indicator	24250 V AC 24220 V DC 50/60 Hz -	24415 V AC 24130 V DC 50/60 Hz -	24250 V AC 24220 V DC 50/60 Hz On front face	24415 V AC 24130 V DC 50/60 Hz On front face
260, C120, D 260H-DC, C6 20, C60PV-D 2120NA-DC echnical sp 20 20 20 20 20 20 20 20 20 20 20 20 20	60H-DC, SW60- C, C60NA-DC, ecifications e (Ue) equency tate indicator	24250 V AC 24220 V DC 50/60 Hz – On front face	24415 V AC 24130 V DC 50/60 Hz - On front face	24250 V AC 24220 V DC 50/60 Hz On front face On front face	24415 V AC 24130 V DC 50/60 Hz On front face On front face
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp ated voltage perating fre lechanical s est function <i>l</i> idth in 9 mm perating	actifications ac	24250 V AC 24220 V DC 50/60 Hz - On front face 1	24415 V AC 24130 V DC 50/60 Hz - On front face 1	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp ated voltage perating fre lechanical s est function <i>l</i> idth in 9 mm perating	actifications ac	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp ated voltage perating fre lechanical s est function <i>l</i> idth in 9 mm perating	actifications ac	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 2 A	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A
C60H-DC, C6 DC, C60PV-D C120NA-DC Technical sp Rated voltage Operating fre	actifications actifi	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A -	24250 V AC 24220 V DC 50/60 Hz On front face 0n front face 1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A
260, C120, D 260H-DC, C6 20C, C60PV-D C120NA-DC 20Chain Calor Control Control Calor Control Co	actions actification	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	 24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 	24250 V AC 24220 V DC 50/60 Hz On front face 0n front face 1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A
260, C120, D 260H-DC, C6 20C, C60PV-D 2120NA-DC 2120NA-DC 20Chain Sp 20Chain	actifications actifi	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA	 24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 6 A 	24250 V AC 24220 V DC 50/60 Hz On front face 0n front face 1 2 mA to 100 mA 2 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 6 A 100 mA to 6 A
Coo, C120, D Coo, C120, D Coo, CooPV-D Crechnical sp Rated voltage Operating fre Mechanical s Fest function Vidth in 9 mm Operating Furrent	actifications actifi	24250 V AC 24220 V DC 50/60 Hz - 0n front face 1 2 mA to 100 mA 2 mA to 100 mA 1 NO (OF) / NC	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC	24250 V AC 24250 V AC 24220 V DC 50/60 Hz On front face 0n front face 1 2 mA to 100 mA 2 mA to 100 mA 1 NO / NC (SD)	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD)
Connections	C C C60NA-DC, ecifications e (Ue) equency tate indicator n modules 24 V DC 48 V DC 48 V DC 130 V DC 220 V DC 220 V DC 24240 V AC 415 V AC ontacts - terminals	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 1.5 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp	24250 V AC 24250 V AC 24220 V DC 50/60 Hz On front face 0n front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO / NC (SD) Screw clamp	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp
60, C120, D 60H-DC, C6 C, C60PV-D 120NA-DC echnical sp ated voltage perating fre lechanical s est function <i>fidth</i> in 9 mm perating urrent	C C C60NA-DC, SW60- C C60NA-DC, C60NA-C, C60NA-	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 1 A - 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 5 mA to 100 mA 9 mA to 100 mA	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom
Connections Viring positic Bushar comp	60H-DC, SW60- C, C60NA-DC, ecifications e (Ue) equency tate indicator n modules 24 V DC 48 V DC 48 V DC 60 V DC 130 V DC 220 V DC 220 V DC 24240 V AC 415 V AC ontacts - terminals on batibility	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 1.5 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 5 mA to 100 mA 7 mA to 100 mA 9 mA to 100 mA 9 mA to 100 mA 1 NO / NC (SD) Screw clamp Bottom Top	24415 V AC 24130 V DC 50/60 Hz On front face 0n front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top
260, C120, D 260H-DC, C6 20, C60PV-D 2120NA-DC 2120NA-DC 200NA-DC	actions act	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C	24250 V AC 24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA 2 mA to 100 mA - 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C
60, C120, D 2004-DC, C6 2005-C60PV-D 2120NA-DC 2120NA-DC 2120NA-DC 2005-C120NA-DC 2005-	actions act	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 1.5 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 5 mA to 100 mA 7 mA to 100 mA 9 mA to 100 mA 9 mA to 100 mA 1 NO / NC (SD) Screw clamp Bottom Top	24415 V AC 24130 V DC 50/60 Hz On front face 0n front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top
60, C120, D 200, C120, D 200, C60PV-D C120NA-DC 120N	CH-DC, SW60- C, C60NA-DC, ecifications e (Ue) aquency tate indicator 24 V DC 48 V DC 48 V DC 48 V DC 48 V DC 220 V DC 220 V DC 220 V DC 24240 V AC 415 V AC ontacts - terminals on partibility mperature perature	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C
60, C120, D 200, C120, D 200, C60PV-D C120NA-DC 120N	actions actinitions actinitions actinitions actinition actinitio actinitio actinitio actinitio	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C
260, C120, D 260H-DC, C6 20, C60PV-D 2120NA-DC 2120NA-DC 2120NA-DC 200H-DC 2120NA-DC 200H-DC 2	60H-DC, SW60- 60H-DC, SW60- 60 (Ue) e cifications e (Ue) e duency e du	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24415 V AC 24430 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C
260, C120, D 260H-DC, C6 20, C60PV-D 2120NA-DC 2120NA-DC 2120NA-DC 200H-DC 2120NA-DC 200H-DC 2	60H-DC, SW60- 60H-DC, SW60- 60 (Ue) e cifications e (Ue) e duency e du	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C
260, C120, D 260H-DC, C6 20, C60PV-D 2120NA-DC 2120NA-DC 2120NA-DC 200NA-DC	Contentions Conte	24250 V AC 24220 V DC 50/60 Hz - On front face 1 2 mA to 100 mA - 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24415 V AC 24430 V DC 50/60 Hz - On front face 1 100 mA to 6 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 6 A 100 mA to 3 A 1 NO (OF) / NC Screw clamp Bottom Top -25+70°C -40+85°C	24250 V AC 24220 V DC 50/60 Hz On front face On front face 1 2 mA to 100 mA 2 mA to 100 mA - 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C	24415 V AC 24130 V DC 50/60 Hz On front face On front face 1 100 mA to 6 A 100 mA to 2 A 100 mA to 1.5 A 100 mA to 1.5 A 100 mA to 1 A - 100 mA to 6 A 100 mA to 3 A 1 NO / NC (SD) Screw clamp Bottom Top -25+70°C -40+85°C

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Acti9 Protection and Isolation

Auxiliaries

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Electrical auxiliaries for C120, C60H-DC, C60PV-DC (cont.)

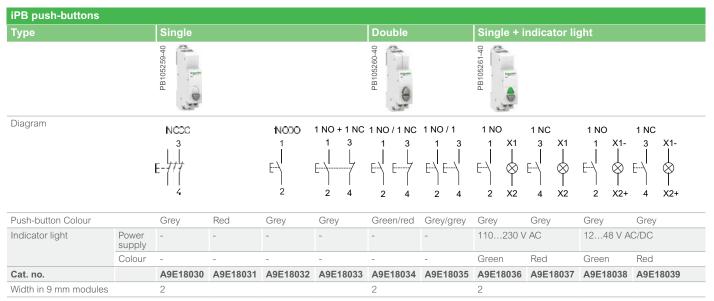
Auxiliaries		Indication	
		OF+SD/OF	OF+SD24
Туре		Double open/closed or fault indicating contact	Double open/close and fault indicating contact
		AN2090	PB107760-35
Function			
		 The OF+SD/OF auxiliary is a 2-in-1 product: via a mechanical selector switch, it provides two contacts, OF+SD or OF+OF 	 2 contacts (1 NO + 1 NC) can report the signalling informatic of the associated device to the Acti9 Smartlink, a Programma ble Logic Controller (Industry) or a Controller (Building/BMS): electrical fault actuation of the tripping auxiliary "Open" or "Closed" position of the associated device
Wiring diag	ams		
		24 22 21 92 94 91 OF+OF OF+SD	
Use			
		 Remote indication of position and/or tripping upon a fault of the associated device 	 Remote indication of position and tripping upon a fault of the associated breaker
Catalogue n	umbers	A9N26914	A9N26917
ID			•
DC, C60H-DC	PN, DPN Vigi, C60H- C, SW60-DC, C60PV- DC, C120NA-DC	•	
Technical sp	oecifications		
Rated voltag	e (Ue)	24415 V AC	-
-		24130 V DC	24 V DC
Operating fre	equency	50/60 Hz	-
Mechanical s	state indicator	On front face	On front face
Test function		On front face	On toggle
Nidth in 9 m	m modules	1	1
Operating	24 V DC	100 mA to 6 A	2 mA to 100 mA
current	48 V DC	100 mA to 2 A	-
	60 V DC	100 mA to 1.5 A	-
	130 V DC	100 mA to 1 A	-
	220 V DC	-	-
	24240 V AC	100 mA to 6 A	-
	415 V AC	100 mA to 3 A	-
Number of c	ontacts	1 NO (OF) / NC 1 NO / NC (SD)	1 NO (OF) + 1 NC (SD)
Connections	- terminals	Screw clamp	Spring-loaded Ti24 (sold separately)
Niring position		Top and bottom	Тор
Busbar com	,	-	Bottom
Operating te		-25+50°C	-25+70°C
Storage temp	perature	-40+85°C	-40+85°C
Standards			
IEC/EN 6094		-	-
EC/EN 6094		•	•
IEC/EN 6094	7-5-4	-	
EN 60947-2		-	-
EN 62019-2 ^{(*})	•	-

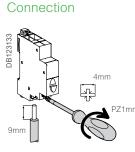
General Overview & Reference Numbers

iPB Push-Buttons

IEC 60669-1, AS/NZS 60669.1 and AS/NZS IEC 60947-5-1

■ iPB push-buttons are used to control electric circuits by means of pulses.



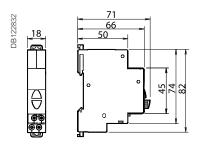


	Tightening torque	Copper cables				
		Rigid	Flexible or with ferrule			
		DB122945				
mm	1 N.m	0.5 mm ² min.	0.5 mm ² min.			
		2 x 2.5 mm ² max.	2 x 2.5 mm2 max.			

• 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)



echnical data

ecnnical 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 cp = 0.8)
Operating temperature	-35°C70°C
Storage temperature	-40°C80°C
Tropicalisation	Treatment 2 (relative humidity 95 % at 55°C)
LED indicator light	Consumption: 0.3 W
	Service life: 100,000 hours of constant lighting efficiency
	Maintenance-free indicator light (non-interchangeable LEDs)



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General overview

ilL indicator lights

AS/NZS IEC 60947-5-1

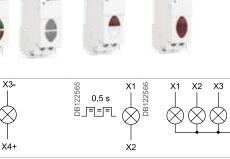
• iIL indicator lights light up to indicate that a voltage is present.

ilL indicator lights					
Туре	Single				
	PB120440 PB12044	ĥ			

X1-

DB122563





PB120440

Flashing light

PB105258

presence indicator light

Ν

	 X2+					 X2+ X	4+	 X2	↓ ↓]
Colour	Red	Green	White	Blue	Yellow	Green/red	White/ white	Red	Red/red/red
Cat. no.									
1248 V AC/DC	A9E18330	A9E18331	A9E18332	A9E18333	A9E18334	-	-	-	-
110230 V AC	A9E18320	A9E18321	A9E18322	A9E18323	A9E18324	A9E18325	-	-	-
110130 V DC									
110230 V AC	-	-	-	-	-	-	-	A9E18326	-
230400 V AC (3 phases)	-	-	-	-	-	-	-	-	A9E18327
Width in 9 mm modules	2					2		2	2

PB120445

DB122564

X1-

PB12044

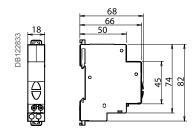
Connection

	Tightening torque	Copper cables		
DB123137		Rigid	Flexible or with ferrule	
4mm		DB122945		
9mm	1 N.m	0.5 mm2 min. 2 x 2.5 mm2 max.	0.5 mm2 min. 2 x 2.5 mm2 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	
Operating frequency	5060 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)

Diagram

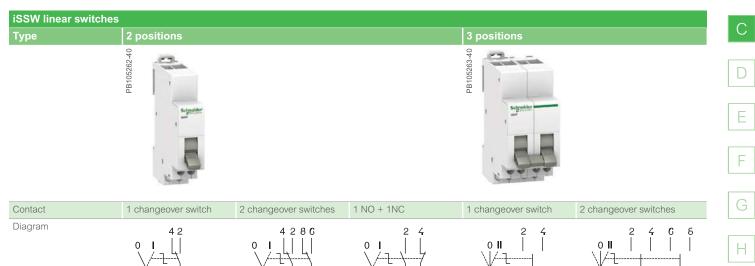


General Overview & Reference Numbers

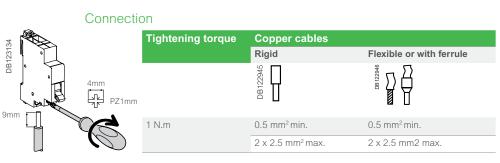
iSSW Linear Switches

IEC 60669-1, AS/NZS 60669.1 and AS/NZS IEC 60947-5-1

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

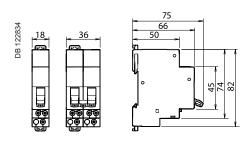


Cat. no.	A9E18070	A9E18071	A9E18072	A9E18073	A9E18074
Width in 9 mm modules	2	4	2	2	4



- 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 operations AC22 (cos cp = 0.8)
Operating temperature	-20°C50°C
Storage temperature	-40°C70°C
Tropicalisation	Treatment 2 (relative humidity 95 % at 55°C)



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General Overview

iCT contactors



As per the above standards:

The breadth of the Acti9 iCT contactor range satisfies most application cases. Acti9 iCT contactors can be combined with auxiliary control, protection and indication functions.

Acti9 iCT contactors can be used to remote control applications in alternating current:

- lighting, heating, ventilation, roller blinds, sanitary hot water,
- mechanical ventilation systems, etc,
- load-shedding of non-priority circuits.



 Consistent with the entire Acti9 offer and with all types of lighting

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Reference Numbers

iCT contactors (cont.)

ре						Width in 9 mm modules
	Rating (In) AC7a	AC7b	Control voltage (V AC) (50 Hz)	Contact		
A1 1	25 A	8.5 A	230240	1NO	A9C20731	2
A2 2						
1						
	16 A	6 A	24	2NO	A9C22112	2
A1 R1 R3			230240	2NO	A9C22712	2
			230240	1NO+1NC	A9C22715	2
$\nabla T^{-}T^{-}T$	20 A	-	230240	2NO	A9C22722	2
I I I A2 R2 R4	25 A	8.5 A	24	2NO	A9C20132	2
			230240	2NO	A9C20732	2
A1 1 R1			230240	2NC	A9C20736	2
	40 A	15 A	220240	2NO	A9C20842	4
└┬┝╼╅╌╌╱╴	63 A	20 A	24	2NO	A9C20162	4
			220240	2NO	A9C20862	4
$ \begin{array}{c} A1 \\ \hline \\ \hline \\ \\ A2 \end{array} \begin{array}{c} 1 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	100 A (*)	-	220240	2NO	A9C20882	6
$ \begin{array}{c} A_1 \\ \downarrow \\ \downarrow \\ A_2 \end{array} \begin{array}{c} 1 \\ \downarrow \\ 2 \end{array} \begin{array}{c} 3 \\ \downarrow \\ 4 \end{array} \begin{array}{c} 5 \\ \downarrow \\ 6 \end{array} \begin{array}{c} 5 \\ \downarrow \\ 6 \end{array} \begin{array}{c} 5 \\ \downarrow \\ 6 \end{array} $	25 A 40 A	8.5 A 15 A	220240 220240	3NO 3NO	A9C20833 A9C20843	4
<u></u>	40 A 63 A	20 A	220240	3NO 3NO	A9C20843	6
 A2 2 4 6	03 A	20 A	220240	3110	A9C20803	0
A1 R1 R3 R5 R7	16 A	6 A	24	4NO	A9C22114	4
ᅟᅟᆂᇥᇦᇥᇥ	25 A	8.5 A	24	4NO	A9C20134	4
└ <u>┤</u> - <i>†††</i> -			220240	4NO	A9C20834	4
I I I I I A2 R2 R4 R6 R8			24	4NC	A9C20137	4
			220240	4NC	A9C20837	4
A1 1 3 R1 R3			220240	2NO+2NC	A9C20838	4
	40 A	15 A	220240	4NO	A9C20844	6
$\forall \gamma			220240	4NC	A9C20847	6
A2 2 4 R2 R4	63 A	20 A	24	4NO	A9C20164	6
			220240	4NO	A9C20864	6
A1 1 3 5 7			24	4NC	A9C20167	6
ل_ را را را را			220240	4NC	A9C20867	6
Lt-t-t-t-t			220240	2NO+2NC	A9C20868	6
I I I I I A2 2 4 6 8	100 A (*)	-	220240	4NO	A9C20884	12

(*) do not use for lighting applications



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General Overview

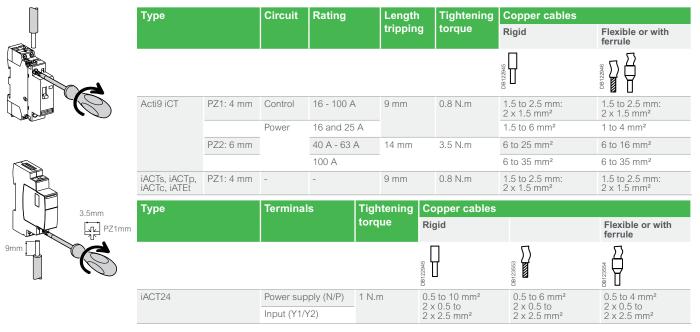
iCT contactors (cont.)

Connection

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DB123061

DB123061

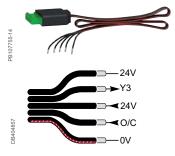


Ti24 connector connection

Spring-loaded	Туре	Catalogue numbers	Copper cables	
terminals			Rigid	Flexible
10 mm			DB122945	
	Ti24 interface	A9XC2412	1 x 0.5 to 1.5 mm ²	1 x 0.5 to 1.5 mm ²

Ti24 prefabricated cables connection



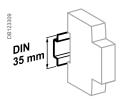


Туре	Catalogue numbers	Length				
Connection for Acti9 Smartlink						
6 short prefabricated	A9XCAS06	100 mm				
6 medium-sized prefabricated	A9XCAM06	160 mm				
6 long prefabricated	A9XCAL06	870 mm				
Connection for PLC type te	erminals					
6 long prefabricated on a single side	A9XCAU06	870 mm				

General Overview

iCT contactors (cont.)

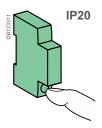
Technical data



Clip on DIN rail 35 mm.



± 30° vertical.



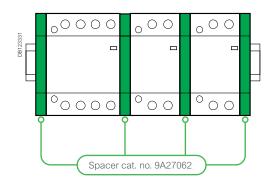
Power circuit				
Voltage rating (Ue)	1P, 2P	250 V AC		
	3P, 4P	400 V AC		
Frequency		50 Hz or 60 Hz		
Type of load		See module CA908026		
Endurance (O-C)				
Electrical		100,000 cycles		
Maximum number of switching operat	ions per day	100		
Additional characteristics				
Insulation voltage (Ui)		440 V AC		
Pollution degree		2		
Rated impulse withstand voltage (Uim	p)	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		
Storage temperature		-40°C to +70°C		
Tropicalization (IEC 60068-2-30)		Treatment 2 (relative humidity 95 % at 55°C)		
ELSV compliance (Extra Low Safety V	oltage) for 12/24/48 V AC v	ersions		
The product control conforms to the S	ELV (safety extra low voltage	ge) requirements		

Temperature derating table

IP40

Acti9 iCT	Ambient temperature (°C)				
Rating (A)	≤ 40	50	60		
63	63	59.8	50		
40	40	38	32		
25	25	23.8	20		
16	16	15.2	12.8		

If multiple iCTs side by side: install spacer and apply 0.8 coefficient on upper current values.



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General Overview

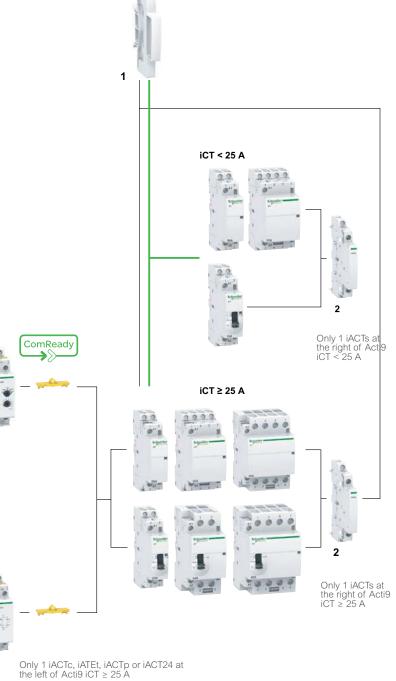
iCT contactors (cont.)

Mounting accessories

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1	9mm spacer	A9A27062		
	xiliaries ication			
2	Acti9 iACTs	1NO + 1NC	A9C15914	
		1CO		
		2NO	A9C15916	
Doເ 3	uble control inp Acti9 iACTs		A9C15916 A9C18308	

4	Acti9 iACTs	230 V AC	A9C15924



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Auxiliaries

iCT contactors (cont.)

Auxiliaries		Indication	Control	
Туре			Impulse/latched control	
		With Open/Close auxiliary contact		
		BE106120-34	BII00123-34	
Function				
		 This auxiliary allows indication of the "open" or "closed" position of the contactor power contacts 	 This auxiliary, combined with c trolled by 2 order types: impulse order for local contr latched order for centralised the last order received takes 	I control (input X)
Wiring diagrams				
		L	L	
		$\begin{bmatrix} A_1 \\ -1 \\ -1 \\ -2 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7$		
Mounting				
		Mounted to the right of Acti9 iCT	Mounted to the left of Acti9 iC1	by yellow clips (1)
Utilization				
			 Mains power outages: <70 ms: keeps its initial sta >80 ms: reset put back into operation by n Minimum impulse duration: 250 	nanual operation on input X or T.
Catalog numbers		A9C15914	A9C18308	A9C18309
Technical specifications				
Control voltage (Ue)	V AC	24240	230240	2448
	V DC	24130	-	-
Control voltage frequency	Hz	50/60	50/60	50/60
Width in 9 mm modules		1	2	2
Auxiliary contact (breaking capacity)		 Mininimum: 10 mA at 24 V DC/AC Maximum: 5 A at 230 V AC, AC12 2 A at 230 V AC, AC15 1 A at 130 V DC, DC13 	-	-
Number of contacts		1NO + 1NC	-	-
Operating temperature	°C	-5°C to +50°C	-5°C to +50°C	-5°C to +50°C
Storage temperature	°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Consumption		-	OFF load: 3 VA Inrush ⁽²⁾ : 2 VA Holding ⁽²⁾ : 0.2 VA	OFF load: 3 VA Inrush ⁽²⁾ : 2 VA Holding ⁽²⁾ : 0.2 VA

(1) Electrical and mechanical link.(2) Maximum consumption of all contactors controlled.

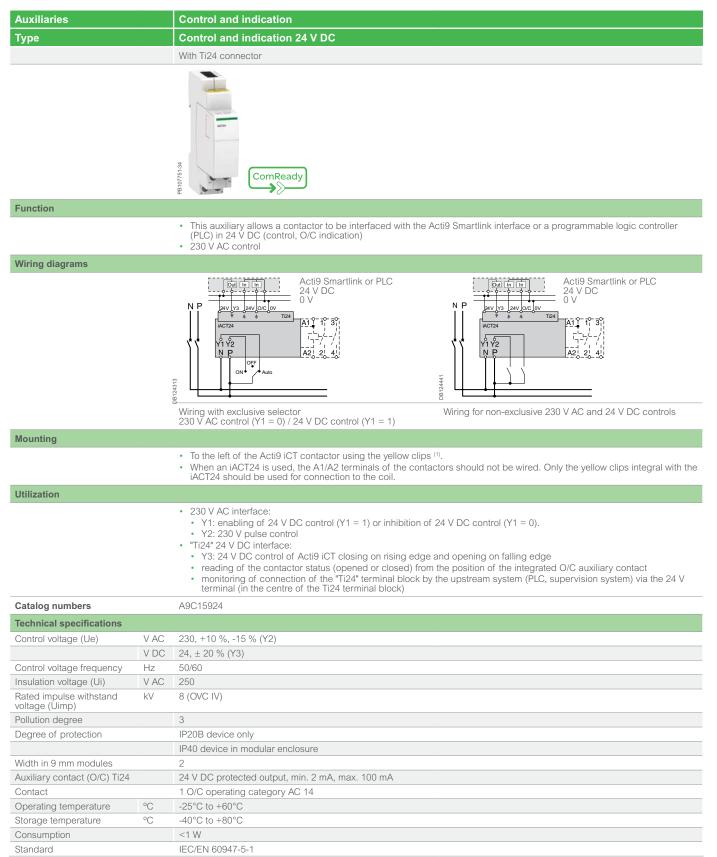


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General Overview

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iCT contactors (cont.)



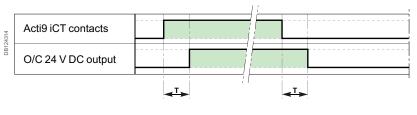
(1) Mechanical and electrical link.

Technical

iCT contactors (cont.)

Operation of the iACT24

O/C 24 V DC output

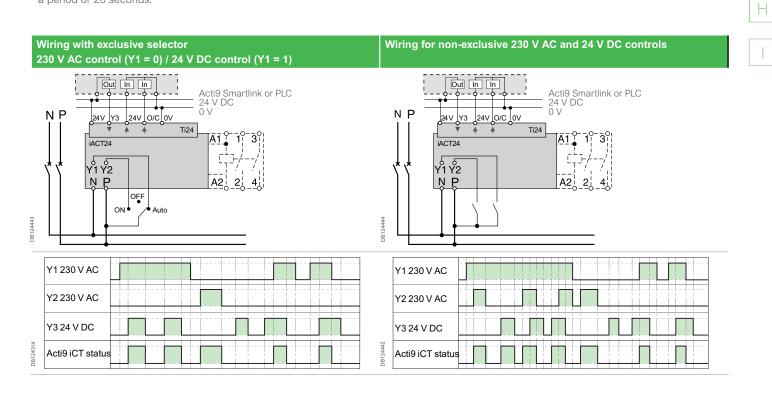


	Parameter	Min	Max
Т	Time delay between iACT24 closing and indication	100 ms	200 ms

• Minimum duration of 230 V AC pulse (Y2): 200 ms.

- 30 iACT24 closing or opening actuations are authorized per minute:
- Minimum time delay between 2 actuations on the iACT4 via Y1,Y2, Y3 (closing or opening of the Acti9 iCT coil): 220 ms. • 10 closing or opening actuations spaced 440 milliseconds apart are authorized following no loading of the iACT24 during

a period of 20 seconds.



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Technical

iCT contactors (cont.)

Consumption

Acti9 iCT contactors - 50 Hz

Гуре	Rating (In)		Control voltage (V AC) (50 Hz)	Consumptio	'n	Max.power	Reference
	AC7a	AC7b		Holding	Inrush		
Р							
	25 A	8.5 A	230240	2.7 VA	9.2 VA	1.2 W	A9C20731
Р							
	16 A	5 A	24	3.8 VA	15 VA	1.3 W	A9C22112
			230240	2.7 VA	9.2 VA	1.2 W	A9C22712
			230240	2.7 VA	9.2 VA	1.2 W	A9C22715
	25 A	8.5 A	24	3.8 VA	15 VA	1.3 W	A9C20132
			230240	2.7 VA	9.2 VA	1.2 W	A9C20732
			230240	2.7 VA	9.2 VA	1.2 W	A9C20736
	40 A	15 A	220240	4.6 VA	34 VA	1.6 W	A9C20842
	63 A	20 A	24	4.6 VA	34 VA	1.6 W	A9C20162
			220240	4.6 VA	34 VA	1.6 W	A9C20862
	100 A (*)	-	220240	6.5 VA	53 VA	2.1 W	A9C20882
Р							
	25 A	8.5 A	220240	4.6 VA	34 VA	1.6 W	A9C20833
	40 A	15 A	220240	6.5 VA	53 VA	2.1 W	A9C20843
	63 A	20 A	220240	6.5 VA	53 VA	2.1 W	A9C20863
Р							
	16 A	5 A	24	4.6 VA	34 VA	1.6 W	A9C22114
	25 A	8.5 A	24	4.6 VA	34 VA	1.6 W	A9C20134
			220240	4.6 VA	34 VA	1.6 W	A9C20834
			24	4.6 VA	34 VA	1.6 W	A9C20137
			220240	4.6 VA	34 VA	1.6 W	A9C20837
			220240	4.6 VA	34 VA	1.6 W	A9C20838
	40 A	15 A	220240	6.5 VA	53 VA	2.1 W	A9C20844
			220240	6.5 VA	53 VA	2.1 W	A9C20847
	63 A	20 A	24	6.5 VA	53 VA	2.1 W	A9C20164
			220240	6.5 VA	53 VA	2.1 W	A9C20864
			24	6.5 VA	53 VA	2.1 W	A9C20167
			220240	6.5 VA	53 VA	2.1 W	A9C20867
			220240	6.5 VA	53 VA	2.1 W	A9C20868
	100 A (*)	-	220240	13 VA	106 VA	4.2 W	A9C20884

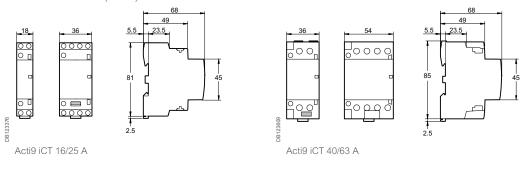
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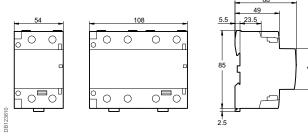
(*) do not use for lighting applications

Technical

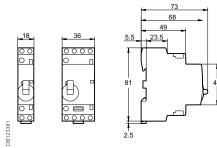
iCT contactors (cont.)

Dimensions (mm)

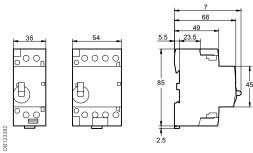




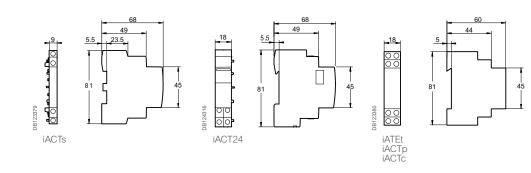
Acti9 iCT 100 A



Acti9 iCT manual control contactor 16/25 A



Acti9 iCT manual control contactor 40/63 A







General overview

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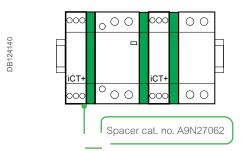
iCT+ high-performance contactors

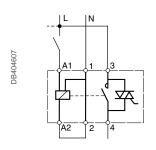
PB104483-35

Spacer

iCT+ high-performance contactors allow remote control of single-phase circuits. They are designed for demanding applications.

Standard 1P+N Article Standard 1P+N Standard





EN 60669-2-2

iCT+ high-performance contactors can be used for remote control of applications on AC networks:

- lighting, heating, ventilation, roller blinds, domestic hot water
- mechanical ventilation systems, etc.
- · load shedding on non-priority circuits.

Standard 1P+N	Rating 20 A	Contact 1 NO	A9C15030	Width in 9-mm modules 2+1 (1)
N L A1 1 3 I I I	20 A	1 NO	A9C15030	2+1 (1)
A1 1 3	20 A	1 NO	A9C15030	2+1 (1)
$\begin{array}{c c} & & \\ & & \\ A2 & 2 & 4 \end{array}$				

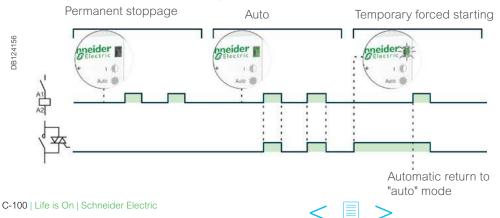


(1) Supplied with a 9 mm spacer (cat. no. A9N27062): to be used for mounting the iCT+ alongside a circuit breaker, contactor, impulse relay, etc., in order to maintain optimal operation.

1 It is compulsory:

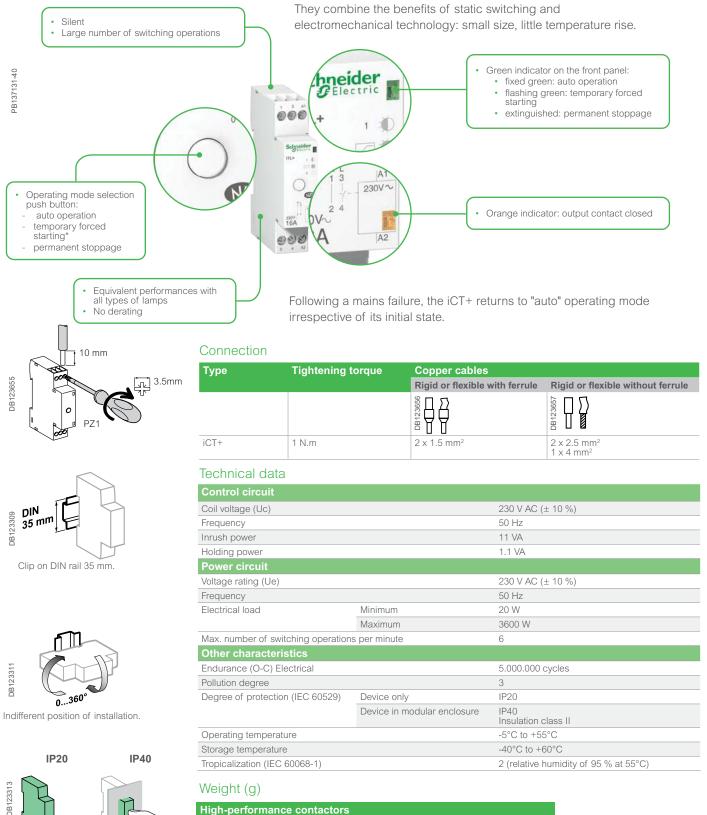
- to connect the neutral
- to keep the same control circuit connection "A1: phase", "A2: neutral"
- to use the same phase for connection of the power and control functions.

Operation (manual-control contactor)



General overview

iCT+ high-performance contactors (cont.)



High-performance contactors							
Туре	iCT+						
Standard 1P+N	70						
1P+N with manual control	70						

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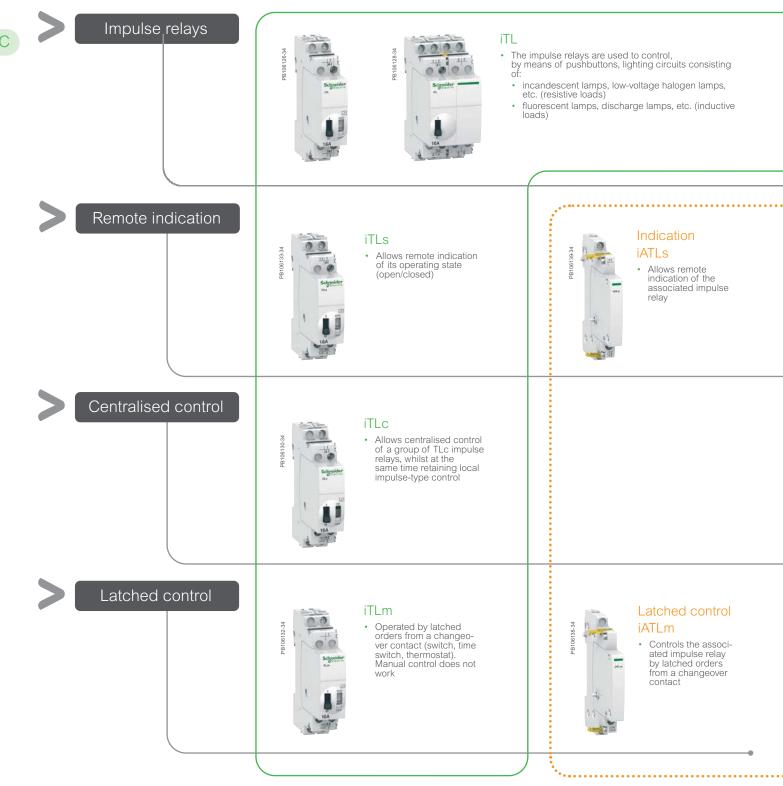
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General overview

iTL impulse relays

IEC 60669-2-2 iTLs: AS/NZS IEC 60947-5-1



▲Impulse relays



General overview

iTL impulse relays (cont.)





Extensions iETL

· Used to increase the number of impulse relay poles Can be installed on the iTL, iTLi, iTLc, iTLm and iTLs

$$\begin{array}{c} \begin{array}{c} \begin{array}{c} 1 \\ 1 \\ 1 \end{array} \end{array} \end{array} + \begin{array}{c} 1 \\ 1 \\ 1 \end{array} + \begin{array}{c} 1 \\ 1 \end{array} + \begin{array}{c} 1 \\ 1 \\ 1 \end{array} + \begin{array}{c} 1 \\ 1 \end{array} + \begin{array}{c} 1 \\ 1 \\ 1 \end{array} + \begin{array}{c} 1 \\ 1 \end{array} + \begin{array}{c} 1 \\ 1 \\ 1 \end{array} + \begin{array}{c} 1 \end{array} + \begin{array}{c} 1 \\ 1 \end{array} + \begin{array}{c} 1 \end{array} + \begin{array}{c} 1 \\ 1 \end{array} + \begin{array}{c} 1 \end{array} + \begin{array}{c} 1 \end{array} + \begin{array}{c} 1 \\ 1 \end{array} + \begin{array}{c} 1 \end{array} + \end{array}{c} + \end{array}{c} 1 \end{array} + \begin{array}{c} 1 \end{array} + \begin{array}{c} 1 \end{array} + \begin{array}{c} 1 \end{array} + \end{array}{c} + \end{array}{c}$$



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Centralised control + indication iATLc+s

- Used for centralised control, thanks to a "pilot line", of a group of impulse relays controlling separate circuit, while at the same time maintaining local individual control of each impulse relay
- Remote indication of the mechanical status of each relay





Multi-level centralised control iATLc+c

Allows centralised control of a group of iTLc or "iTL + ATLc" impulse relays

Control and indication 24 V DC

iATL24

- Allows control and indication of a 230 V AC impulse relay from the Acti 9 Smartlink or by a PLC, by 24 V DC signals
- Also allows control by a pulsed signal

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.

Impulse relays auxiliaries



▲ Specific auxiliaries



General overview

iTL impulse relays (cont.)

Mounting accessories

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1	Yellow clips	A9C15415
2	9 mm spacer	A9A27062

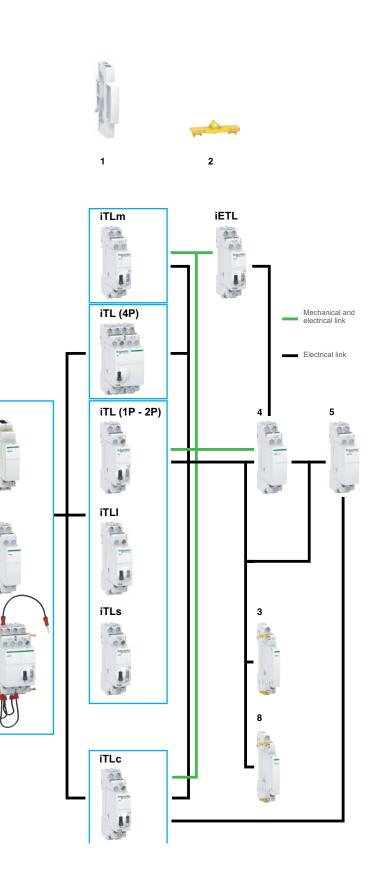
	kiliaries cation		ComReady
3	iATLs (1)	-	A9C15405
Cer	tralised control	ol + indication	
4	iATLc+s ⁽³⁾	24240 V AC	A9C15409
Mul	ti-level central	ised control	
5	iATLc+c (2)(3)	24240 V AC	A9C15410
Step	o by step cont	rol	
6	iATL4	230 V AC	A9C15412
Cor	ntrol by illumin	ated push-buttons	;
7	iATLz	230240 V AC	A9C15413
Lato	ched control		
8	iATLm (1)	12240 V AC	A9C15414
Cor	trol and indic	ation	
9	iATL24	230 V AC	A9C15424

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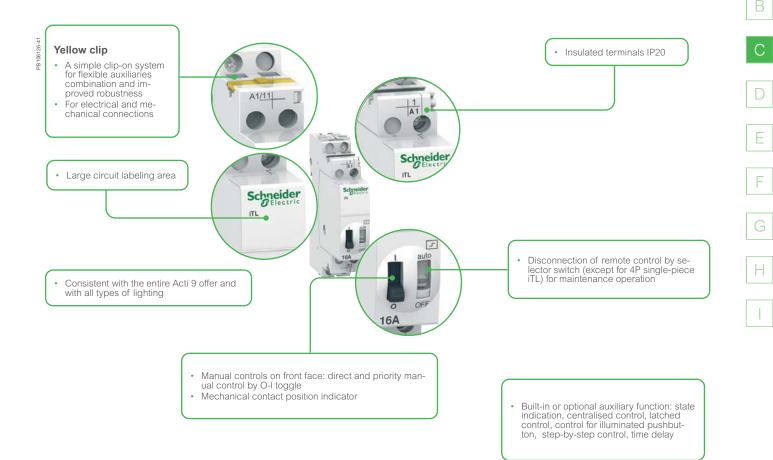
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The iATLs and iATLm 9 mm auxiliaries must be mounted to the right of an impulse relay.
 Connection by traditional cabling. The iATLc+c must be mounted to the right of an iATLc+s or an iATLc.
 The centralised control functions (iTLc, iATLc, iATLc+s, iATLc+c) only operate on AC voltage networks.



General overview

iTL impulse relays (cont.)





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Auxiliaries

iTL impulse relays (cont.)

Auxiliaries choice in V AC and V DC

V AC	Choice	e impu	ilse r	elays	s aux	diliaries												
Туре	Standa	ard iTI					Chang	eover	iTLI			iTLc centrali control			iTLm con- trol on latched order	iTLs i indica		e
Rating A	16					32	16					16			16	16		
Control voltage (Uc) V AC	230/240) 130	48	24	12	230/240	230/240) 130	48	24	12	230/240	48	24	230/240	230/24	0 48	24
Auxiliaries																		
Extension																		
IETL																		
Centralised control + indica	ition																	
iATLc+s					-					-	-	-	-	-	-			
Centralised control																		
iATLc					-					-	-	-	-	-	-			
Indication																		
iATLs					-													
Multi-level centralised control	ol																	
iATLc+c					-					-	-				-			
Latched control																		
iATLm												-	-	-	-			
Control for illuminated Push	button																	
iATLz		-	-	-	-			-	-	-	-		-	-	-		-	-
Step by step control																		
iATL4		-	-	-	-			-	-	-	-		-	-	-		-	-
Control and indication																		
iATL24		-	-	-	-			-	-	-	-		-	-	-		-	-
V DC	Choice	imni	ilse r	elave	s aux	diliaries												
Туре	Standa						Change	eoveri	TLI			iTLc centra contro		d	iTLm con- trol on latched order		remot ation	te
Rating A	16					32	16					16			16	16		
Control voltage (Uc) V DC		48 :	24	12	6	110	110 4	8 2	4	12	6	-			110	110	24	12
Auxiliaries	110		- '	14	0	110					0				110	110	- 1	14
Extension																		
IETL												-	-	-	-			
Centralised control + indica						_												
iATLs					-							-	-	-	-			

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References

iTL impulse relays (cont.)

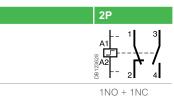
Catalogue numbers

iTL impulse relays

Туре			1P	2P	3P	4P
						A1 1 3 5 7
			1 NO	2 NO	1 NO + 1 NO/NC + 1 NO	4 NO
						$\begin{array}{c} 5 \\ 9 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 $
						2 NO + 1 NO/NC + 1 NO
Rating (In)	Control volt	age (Uc)				
	(V AC) (50/60 Hz)	(V DC)				
16 A	12	6	A9C30011	A9C30012	A9C30011 + A9C32016	A9C30012 + A9C32016
	24	12	A9C30111	A9C30112	A9C30111 + A9C32116	
	48	24	A9C30211	A9C30212	A9C30211 + A9C32216	A9C30212 + A9C32216
	130	48	A9C30311	A9C30312	A9C30311 + A9C32316	A9C30312 + A9C32316
	230240	110	A9C30811	A9C30812	A9C30811 + A9C32816	
Width in 9 mm	n modules		2	2	4	4
			1 NO	1 NO + 1 NO	1 NO + 1 NO + 1 NO	1 NO + 1 NO + 1 NO + 1 NO
32 A	230240	110	A9C30831	A9C30831 + A9C32836	A9C30831 + 2 x A9C32836	A9C30831 + 3 x A9C32836
Width in 9 mm	modulos		2	4	6	8

iTLI impulse relays

Туре



Rating (In)	Control volt							
	(V AC) (50/60 Hz)	(V DC)	_					
16 A	24	12	A9C30115					
	48	24	A9C30215					
	230240	110	A9C30815					
Width in 9 mm	Width in 9 mm modules							

iETL extensions for iTL and iTLI

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Туре			1P	2P
			1 NO	1 NO/NC + 1 NO
Rating (In)	Control volt	tage (Uc)		
	(V AC) (50/60 Hz)	(V DC)		
16 A	12	6	-	A9C32016
	24	12	-	A9C32116
	48	24	-	A9C32216
	130	48	-	A9C32316
	230240	110	-	A9C32816
32 A	230240	110	A9C32836	-
Width in 9 mm	modules		2	2

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References

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iTL impulse relays (cont.)

iTLc , iTLm, iTLs with built-in auxiliary function - Catalogue numbers

iTLc impulse relay with centralised control

Туре		1P	3P
		1 NO	1 NO + 1 NO/NC + 1 NO
Rating (In)	Control voltage (Uc)		
	(V AC) (50/60 Hz)		
16 A	230240	A9C33811	A9C33811 + A9C32816
Width in 9 mm mod	ules	2	4

iTLm impulse relay with latched control

Туре		1P	3P
		1 NO	1 NO + 1 NO/NC + 1 NO
Rating (In)	Control voltage (Uc)		
	(V AC) (50/60 Hz)		
16 A	230240	A9C34811	A9C34811 + A9C32816
Width in 9 mm mod	dules	2	4

iTLs impulse relay with remote indication*

Туре			1P	3P
			DB123621	DB1738222
			1 NO	1 NO + 1 NO/NC + 1 NO
Rating (In)	Control voltage (Uc)			
	(V AC) (50/60 Hz)	(V DC)		
16 A	230240	110	A9C32811	A9C32811 + A9C32816

		~			
Width	in	()	mm	modules	
vviuui		3		IIIUUUUES	

(*) Short circuit protection device for indication contacts : 6 A gG fuse.

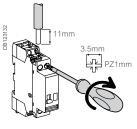
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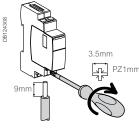
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General Overview

iTL impulse relays (cont.)

Connection





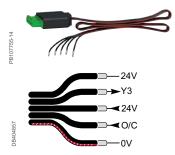
	Туре	Ratin	g Circuit	Tightening	Copper cables		
				torque	Rigid or with ferrule	Flexible or with ferrule	
n					DB122945	DB123553	
	iTL, iTLi, iTLc, iTLm, iTLs, iETL	16 A	Control	1 N.m	0.5 to 4 mm ²	1 to 4 mm ²	
			Power		1.5 to 4 mm ²	1.5 to 4 mm ²	
	iTL, iETL	32 A	Control	1 N.m	0.5 to 4 mm2	6 to 16 mm ²	
			Power	1.2 N.m	1.5 to 10 mm ²	1.5 to 10 mm ²	
	iATLs, iATLc, iATLc+s, iATLc+c, iA iATL4, iATLz	ΓLm,		1 N.m	0.5 to 4 mm ²	1 to 4 mm ²	
	Type Terr	ninals	Tightening	Copper cables			
mm			torque	Rigid	Flexible	Flexible or with ferrule	
				DB122845	DB123553		
		er supply (N/P) t (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	

Ti24 connector connection

Туре	Catalogue numbers	Copper cables	
		Rigid	Flexible
		B122945	ESSECTION
Ti24 interface	A9XC2412		1 x 0.5 to 1.5 mm ²
			Rigid 9672180

Ti24 prefabricated cables connection





Туре	Catalogue numbers	Length					
Connection for Acti9 Smartlink							
6 short prefabricated	A9XCAS06	100 mm					
6 medium-sized prefabricated	A9XCAM06	160 mm					
6 long prefabricated	A9XCAL06	870 mm					
Connection for PLC type terminals							
6 long prefabricated on a single side	A9XCAU06	870 mm					

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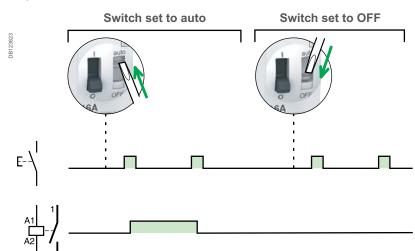
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General Overview

iTL impulse relays (cont.)

Operation

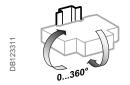


Technical data

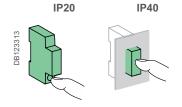
Control circuit				
		iTL and iTLI 16 A iTLc, iTLm, iTLs, iETL 16 A	iTL 32 A, iETL 32 A	
Control voltage (Uc)	Tolerence at 50 Hz	+6 %, -15 %		
	Tolerence at 60 Hz	±6 %,		
	Tolerence V DC	+6 %, -10 %		
Dissipated power (during the i	mpulse)	1, 2, 3P: 19 VA	19 VA	
		4P: 38 VA	a	
Illuminated PB control		Max. current 3 mA (if > use a	n ATLz)	
Operating threshold		Min. 85 % of Un in conformar	nce with IEC/EN60669-2-2	
Duration of the control order		50 ms to 1 s (200 ms recomm	iended)	
Response time		50 ms		
Power circuit				
Voltage rating (Ue)	1P, 2P	24250 V AC		
	3P, 4P	24415 V AC		
Frequency		50 Hz or 60 Hz		
Maximum number of operation	is 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	ge (Uimp)	6 kV		
Overvoltage category		IV		
Endurance (O-C)				
Electrical		200,000 cycles (AC21)	50,000 cycles (AC21)	
		100,000 cycles (AC22)	20,000 cycles (AC22)	
Other characteristics				
Degree of protection	Device only	IP20		
(IEČ 60529)	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)	



Clip on DIN rail 35 mm.



Indifferent position of installation.

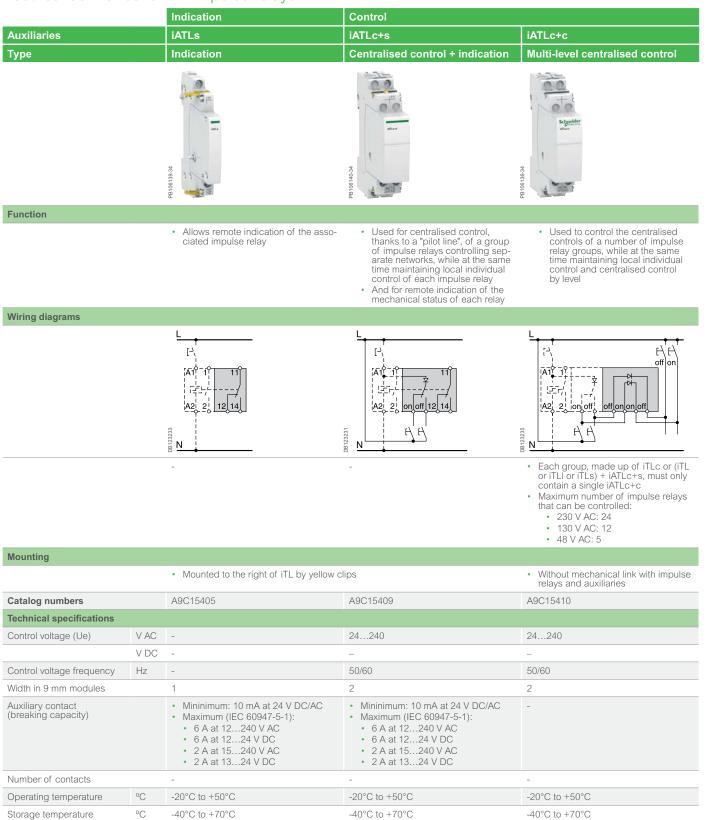


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Auxiliaries

iTL impulse relays (cont.)

Electrical auxiliaries for iTL impulse relays





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Auxiliaries

iTL impulse relays (cont.)

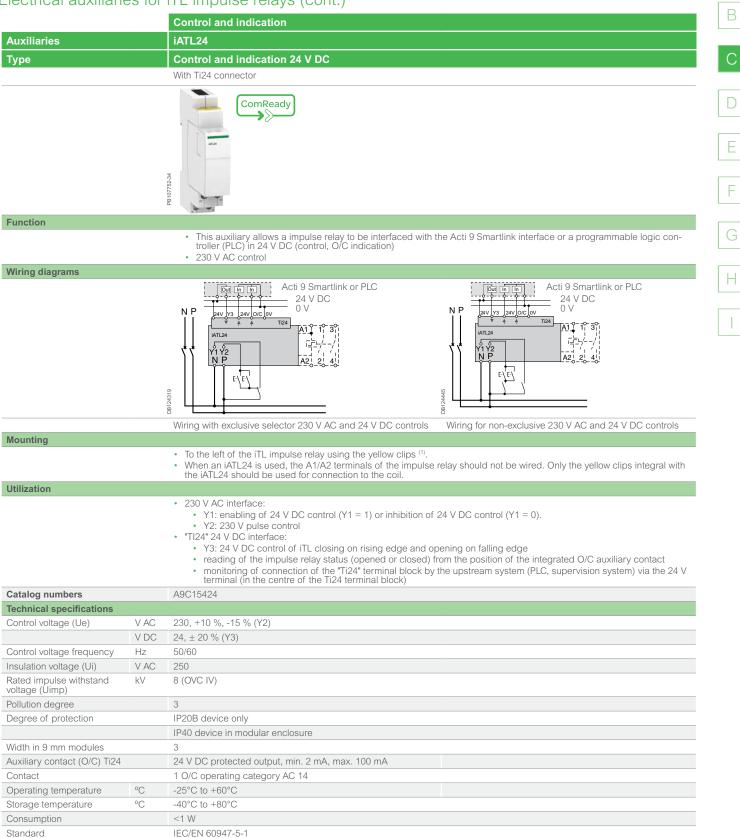
Electrical auxiliaries for iTL impulse relays (cont.)

		Control	
Auxiliaries		iATL4	iATLz
Туре		Step by step control	Control by illuminated push-buttons
			BIG61414
Function		Allows the step by step sequence over 2 circuits	 Used to control impulse relays by illuminated push-b
		, wows the step by step sequence over 2 circuits	tons, without operating risks
Wiring diagrams			
		 The cycle is as follows: 1st impulse - iTL 1 closed, iTL 2 open 2nd impulse - iTL 1 open, iTL 2 closed 3rd impulse - iTL 1 and 2 closed 4th impulse - iTL 1 and 2 open 5th impulse - iTL 1 closed, iTL 2 open, etc 	 Provide an iATLz when the current drawn up by the illuminated push-buttons is higher than 3 mA (this curre is sufficient to keep the coils energised). Above this val fit one extra iATLz per 3 mA. For example: for 7 mA, fit 2 iATLz
Mounting			
		 Assembled between 2 impulse relays: according to the auxiliarisation table by yellow clips 	Mounted to the left of iTL by yellow clips
Catalog numbers		A9C15412	A9C15413
Technical specifications			
Control voltage (Ue)	V AC	230	230240
	V DC	_	_
Control voltage frequency	Hz	50/60	50/60
Width in 9 mm modules		4	2
Auxiliary contact (breaking capacity)		-	-
Auxiliary contact		- -	-

Auxiliaries

iTL impulse relays (cont.)

Electrical auxiliaries for iTL impulse relays (cont.)



(1) Mechanical and electrical connection.



Technical

iTL impulse relays (cont.)

Electrical auxiliaries for iTL impulse relays (cont.)

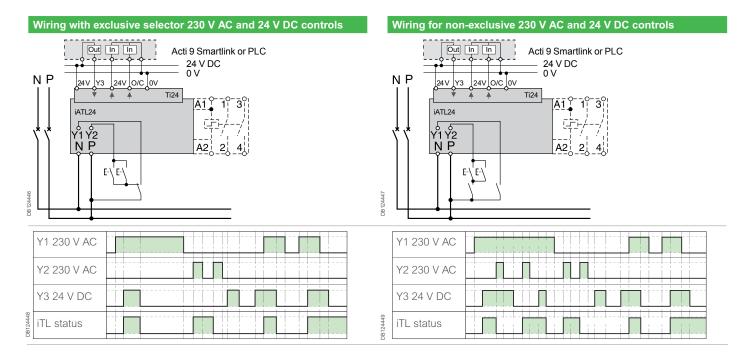


Operation of the iATL24 O/C 24 V DC output

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	iTL contacts		
DB124314	O/C 24 V DC output		
		≺ ^T ►	

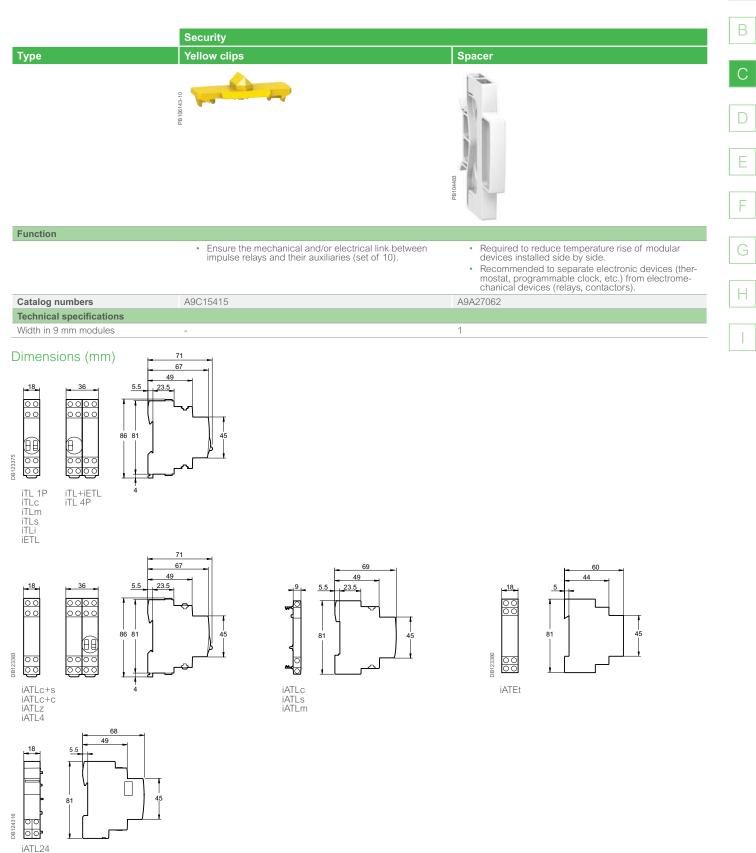
	Parameter	Min	Max
Т	Time delay between iATL24 closing and indication	100 ms	200 ms

- Minimum duration of 230 V AC pulse (Y2): 200 ms.
- 30 iATL24 closing or opening actuations are authorized per minute: Minimum time delay between 2 actuations on the iATL24 via Y1,Y2, Y3 (closing or opening of the iTL coil): 440 ms.
- 10 closing or opening actuations spaced 440 milliseconds apart are authorized following no loading of the iATL24 during a period of 20 seconds.



Accessories

iTL impulse relays (cont.)



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General overview

iTL+ high-performance impulse relays

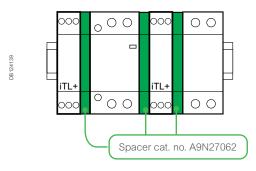
The iTL+ high-performance impulse relay allows remote control of single-phase circuits. It is designed for demanding applications.

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PB107132-35







EN 60669-2-2

The iTL+ high-performance impulse relay is used for push-button control of lighting circuits consisting of:

- incandescent lamps, low-voltage halogen lamps, etc. (resistive loads)
- fluorescent tubes, discharge lamps, etc. (inductive loads).

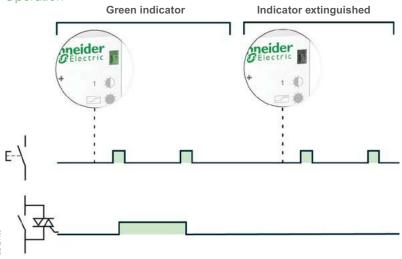
iCT+			
Туре	Rating		Width in 9-mm modules
1P+N			
	16 A	A9C15032	2+1 (1)

(1) Supplied with a 9 mm spacer (cat. no. A9N27062): to be used for mounting the iTL+ alongside a circuit breaker, contactor, impulse relay, etc., in order to maintain optimal operation.

It is compulsory:

- to connect the neutral
- to keep the same control circuit connection
- "A1: phase", "A2: neutral"
- to use the same phase for connection of the power and control functions.





Connection

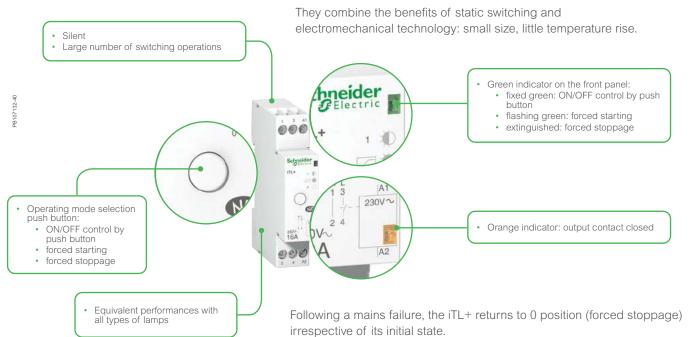
	Туре	Rating Tightenir	Tightening	g Copper cables	
			torque	Rigid or flexible with ferrule	Rigid or flexible without ferrule
3.5mm					
PZ1	iTL+	16 A	1 N.m	2 x 1.5 mm²	2 x 2.5 mm ² 1 x 4 mm ²



General overview

iTL+ high-performance impulse relays (cont.)

Technical data

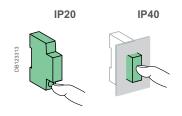




Clip on DIN rail 35 mm.



Indifferent position of installation.



Control circuit		
Coil voltage (Uc)		230 V AC
Frequency		50 Hz
Inrush power		11 VA
Holding power		1.1 VA
Control by luminous push button		Max. current 5 mA
Control order duration		50 ms to 1 s (recommended 200 ms)
Power circuit		
Voltage rating (Ue)		230 V AC
Frequency		50 Hz
Electrical load	Minimum	20 W
	Maximum	3600 W
Max. number of switching operations	s per minute	6
Other characteristics		
Endurance (O-C) Electrical		5.000.000 cycles (AC21 - AC22)
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Noise level at activation		< 30 dBA
Operating temperature		-5°C to +55°C
Storage temperature		-40°C to +60°C

Weight (g)

Tropicalization (IEC 60068-1)

High-performance contactors		
Туре	iTL+	
1P+N	70	



А



Treatment 2 (relative humidity of 95 % at 55°C)

General overview

Time Delay Relays

Time Switches - Analogue & Digital



A9E16065

Time Delay Relays - 0.1s to 100h							
Туре	No. of contacts	Rating	Width in mod of 9mm	Coil voltage	Reference		
RTA	1 C/O	8A	2	24V DC or 24-240V AC	A9E16065		
RTB	1 C/O	8A	2	24V DC or 24-240V AC	A9E16066		
RTC	1 C/O	8A	2	24V DC or 24-240V AC	A9E16067		
RTH	1 C/O	8A	2	24V DC or 24-240V AC	A9E16068		
RTL	1 C/O	8A	2	24V DC or 24-240V AC	A9E16069		
RTMF	1 C/O	8A	2	12-240V AC/DC	A9E16070		

Note Function and use:

- RTA delay on make: allows a delay in the energisation of a load (coil of a contactor or relay). The time delay cycle begins at the energisation of the RTA and the load is switched on at the end of the time period.
- RTB single shot: energizes a load at the closing of an auxiliary push-button. The time delay starts at the closing of the auxilary push-button.
- RTC delay on break: energizes a load at the closing of an auxiliary push-button. The time delay starts at the opening of the auxiliary push-button. Mini impulse duration 6 200ms. Restart time delay any time with push button.
- RTH interval timer: timing of load from the energisation (coil of a contactor or relay). The time delay cycle begins, on the energisation of the RTH, by switching on the load. At the end of the time delay, the load is de-energized.
- RTL repeat cycle timer: repetitive cycle which alternatively energizes and de-energizes a load. From the energisation of RTL, the load is switched on.
- RTMF multi function timer: one relay providing functions A, B, C and H via a selector switch located in front.



U : supply voltage ; UZ : load voltage ; S : signal from contact/pushbutton

General overview

Relays

Time delay relays are 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





PB111582-35

1000

iRTA Delays energizing of a load

iRTB

Delays de-energizing of a load upon closing of an auxiliary contact (push button)



А

С

Е

F

Н

iRTC Delays de-energizing of a load upon opening of an auxiliary contact (push button)

▲ Time delay



• Applies a time delay to energizing and de-energizing of a load during different times, repeatedly (flasher)

