

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



## BS/EN 60947-2 BS/EN 60898-1

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

### Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
		Voltage (Ue)				
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V	100 % of Icu
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	50 % of Icu
	6 to 40 A	42 kA	30 kA	15 kA	10 kA	
	50/63 A	42 kA	-	15 kA	10 kA	

Breaking capacity (Icn) according to IEC/EN 60898-1	
Voltage (Ue)	
Ph/Ph	400 V
Ph/N	230 V
Rating (In)	1 to 63 A 10000 A

### Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
		Voltage (Ue)				
Between +/-		12 to 48 V	72 V	100 to 133 V	220 to 250 V	100 % of Icu
Number of poles		1P	2P (in series)	3P (in series)	4P (in series)	
Rating (In)	1 to 63 A	20 kA	10 kA	10 kA	10 kA	

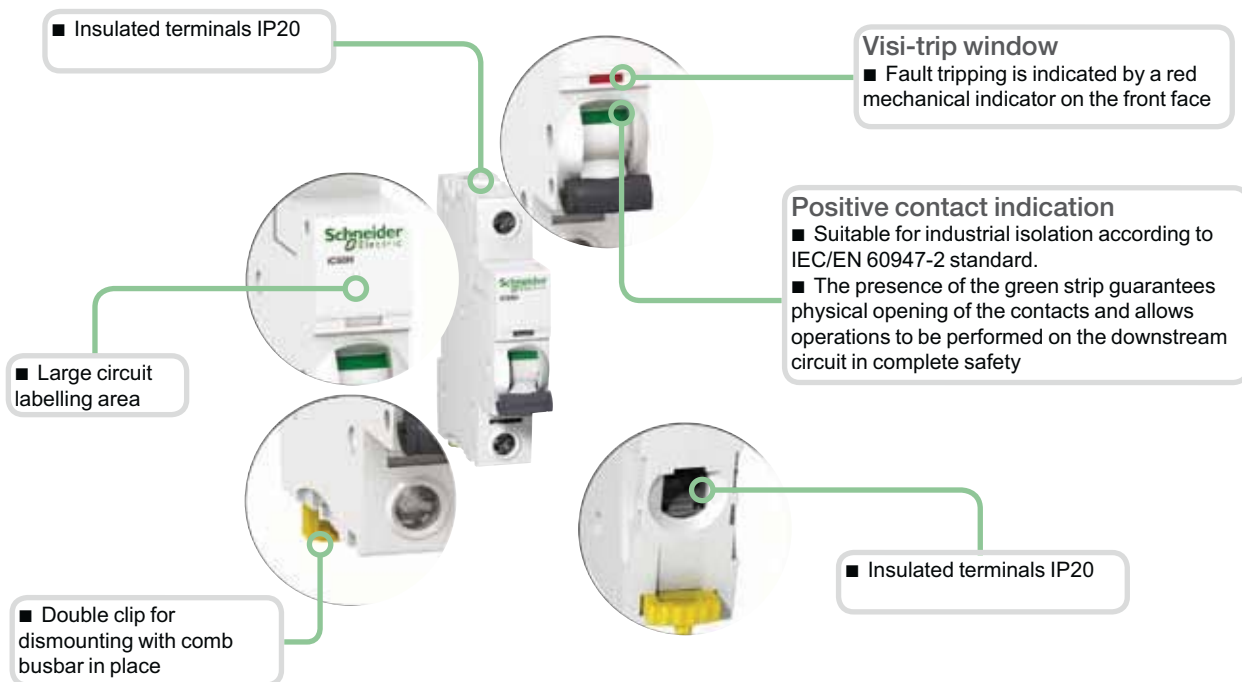
## Catalogue numbers

### iC60H circuit breaker

Type	1P			2P		
	Calibre (In)			Calibre (In)		
Type	Courbe			Courbe		
	B	C	D	B	C	D
1 A	A9F53101	A9F54101	A9F55101	A9F53201	A9F54201	A9F55201
2 A	A9F53102	A9F54102	A9F55102	A9F53202	A9F54202	A9F55202
3 A	A9F53103	-	-	-	-	-
4 A	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		

(1) VDE approved only.

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

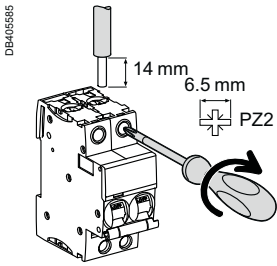


- Increased product service life thanks to:
  - overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage),
  - high performance limitation (see limitation curves),
  - fast closing independent of the speed of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

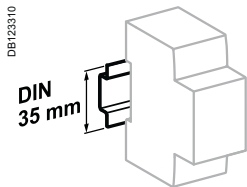
3P			4P		
E46095			E46097		
Courbe			Courbe		
B	C	D	B	C	D
A9F53301	A9F54301	A9F55301	A9F53401	A9F54401	A9F55401
A9F53302	A9F54302	A9F55302	A9F53402	A9F54402	A9F55402
-	-	-	-	-	-
A9F53304	A9F54304	A9F55304	A9F53404	A9F54404	A9F55404
A9F53306	A9F54306	A9F55306	A9F53406	A9F54406	A9F55406
A9F53310	A9F54310	A9F55310	A9F53410	A9F54410	A9F55410
A9F53316	A9F54316	A9F55316	A9F53416	A9F54416	A9F55416
A9F53320	A9F54320	A9F55320	A9F53420	A9F54420	A9F55420
A9F53325	A9F54325	A9F55325	A9F53425	A9F54425	A9F55425
A9F53332	A9F54332	A9F55332	A9F53432	A9F54432	A9F55432
A9F53340	A9F54340	A9F55340	A9F53440	A9F54440	A9F55440
A9F53350	A9F54350	A9F55350	A9F53450	A9F54450	A9F55450
A9F53363	A9F54363	A9F55363	A9F53463	A9F54463	A9F55463
6			8		

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

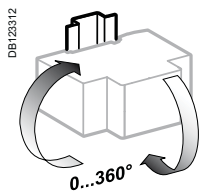
## Connection



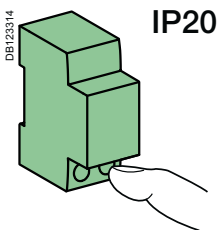
Rating	Tightening torque	Without accessory		With accessories			
		Copper cables		50 mm <sup>2</sup> Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
		Rigid	Flexible or ferrule			Rigid cables	Flexible cables
1 to 25 A	2 N.m	DB1122945	DB1122946	DB1122945	DB1187789	DB118787	-
32 to 63 A	3.5 N.m	1 to 25 mm <sup>2</sup>	1 to 16 mm <sup>2</sup>	-	Ø 5 mm	-	-
		1 to 35 mm <sup>2</sup>	1 to 25 mm <sup>2</sup>	50 mm <sup>2</sup>		3 x 16 mm <sup>2</sup>	3 x 10 mm <sup>2</sup>



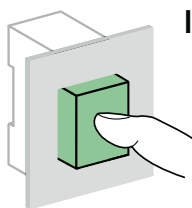
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

## Technical data

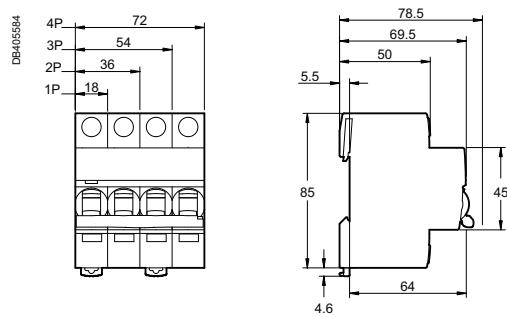
Main characteristics		
According to IEC/EN 60947-2		
Insulation voltage (U <sub>i</sub> )		500 V AC
Pollution degree		3
Rated impulse withstand voltage (U <sub>imp</sub> )		6 kV
Thermal tripping	Reference temperature	50 °C
Magnetic tripping	B curve	4 I <sub>n</sub> ± 20 %
	C curve	8 I <sub>n</sub> ± 20 %
	D curve	12 I <sub>n</sub> ± 20 %
Utilization category		A
According to IEC/EN 60898-1		
Limitation class		3
Rated making and breaking capacity of an individual pole (I <sub>cn1</sub> )		I <sub>cn1</sub> = I <sub>cn</sub>
Additional characteristics		
Breaking capacity under 1 pole with IT 380-415 V isolated neutral system (case of double fault)	40 A	4 kA
	50/63 A	3 kA
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation classe II
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)		IV
Operating temperature		-35°C to +70°C
Storage temperature		-40°C to +85°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)

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

## Weight (g)

Circuit-breaker	
Type	iC60H
1P	125
2P	250
3P	375
4P	500

## Dimensions (mm)





IEC 61009-1,  
IEC 61009-2-2,  
BS EN 61009-1  
AS/NZS 61009.1

- 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 ( $I_{cn}$ ) according to IEC 61009-1

Ph/N	Voltage ( $U_e$ )	
	110 V	240 V
Rating ( $I_n$ )	6 to 45 A	10000 A


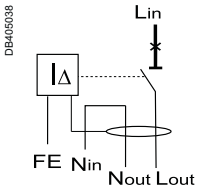
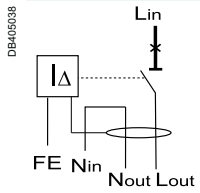
### Accessory

#### Padlocking device

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

## Catalogue numbers

### iC60H RCBO 10000

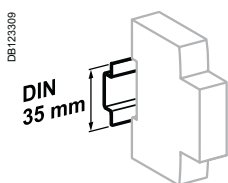
1P+N				A 			Width in 9-mm modules		
B curve	Voltage rating (V)	Sensitivity ( $I_{\Delta n}$ )	10 mA	30 mA	100 mA				
	240	Rating ( $I_n$ )	6 A	-	A9D31806	-	2		
			10 A	-	A9D31810	-			
			16 A	-	A9D31816	-			
			20 A	-	A9D31820	-			
			25 A	-	A9D31825	-			
			32 A	-	A9D31832	-			
			40 A	-	A9D31840	-			
			45 A	-	A9D31845	-			
	110	Rating ( $I_n$ )	10 A	-	A9D19810	-	2		
			16 A	-	A9D19816	-			
			20 A	-	A9D19820	-			
			25 A	-	A9D19825	-			
			32 A	-	A9D19832	-			
	240	Rating ( $I_n$ )	6 A	A9D10806	A9D11806	A9D12806			
			10 A	A9D10810	A9D11810	A9D12810			
			16 A	A9D10816	A9D11816	A9D12816			
			20 A	A9D10820	A9D11820	A9D12820			
			25 A	A9D10825	A9D11825	A9D12825			
			32 A	A9D10832	A9D11832	A9D12832			
			40 A	A9D10840	A9D11840	A9D12840			
			45 A	A9D10845	A9D11845	A9D12845			
			Operating frequency				50...60 Hz		

### Accessory

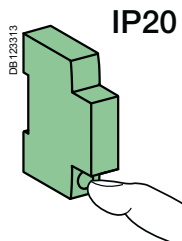
Type	
Padlocking device (bag of 10 pieces)	A9A27049

## Technical data

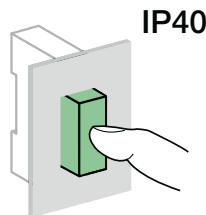
Main characteristics		iC60H RCBO
Insulation voltage (Ui)		
Rated impulse withstand voltage (Uimp)		
Rated residual operating current (IΔn)		10, 30, 100 mA
Thermal tripping	Reference temperature	
Temperature derating		
Limitation class		
Surge current withstand (8/20 μs) without tripping		
Rated nominal breaking capacity (Icn)		10,000 A
Phase/earth rated residual breaking and making capacity (IΔm)		7,500 A
Additional characteristics		
Degree of protection	Device only	
	Device in modular enclosure	
Endurance (O-C)	Electrical	
	Mechanical	
Operating temperature		
Storage temperature		
Tropicalization		



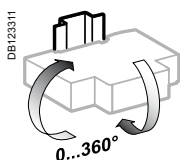
Clip on DIN rail 35 mm.



IP20



IP40

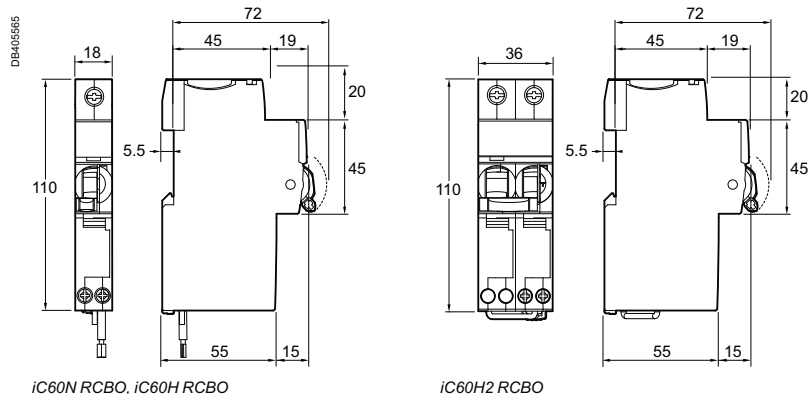


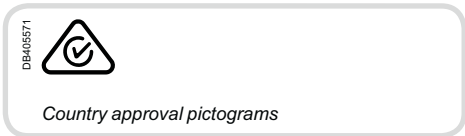
Indifferent position of installation.

## Weight (g)

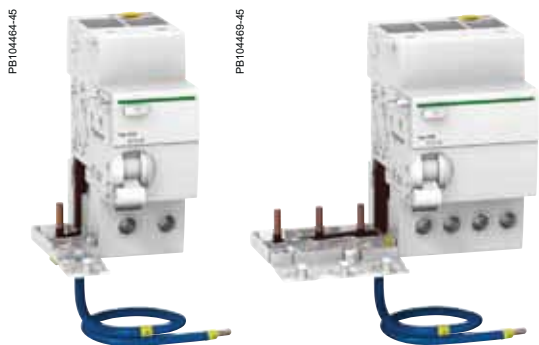
iC60 RCBO	
iC60N RCBO	205
iC60H RCBO	205
iC60H2 RCBO	332

## Dimensions (mm)





IEC/EN 61009-1



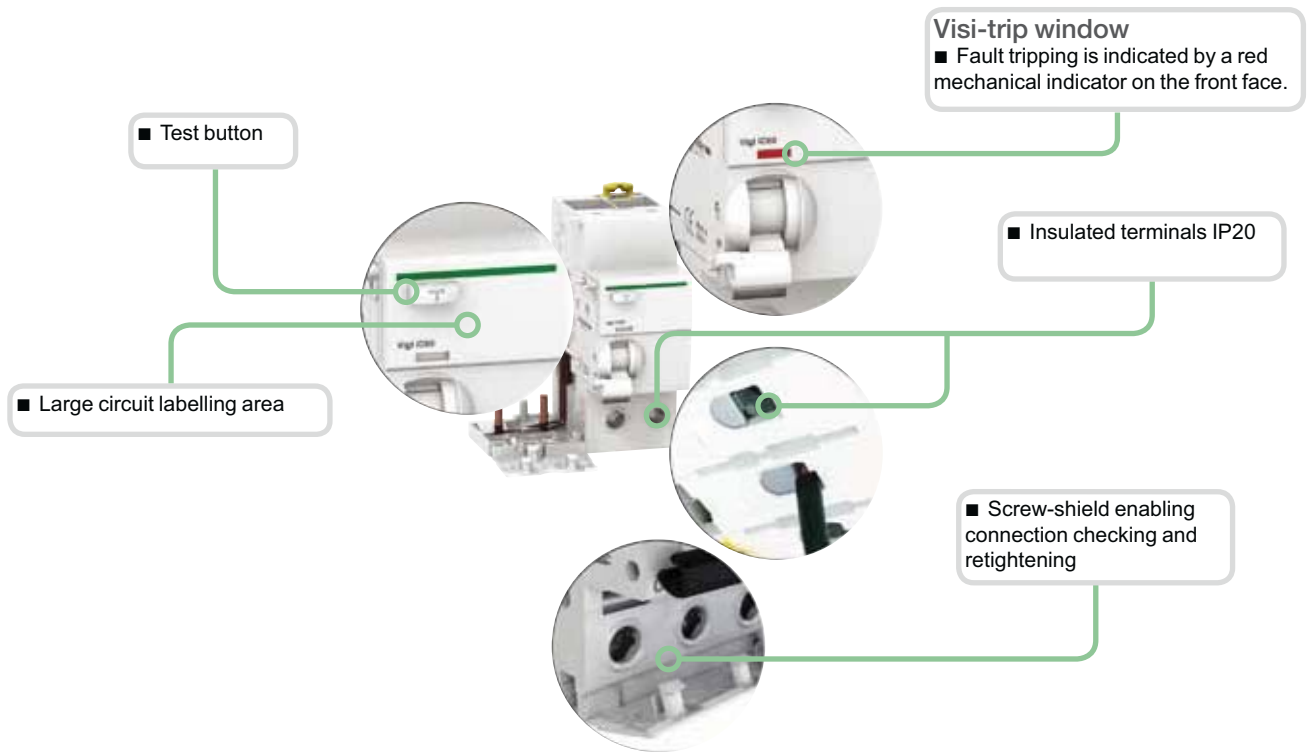
- Combined with iC60 circuit breaker, the Vigi iC60 provide:
  - protection of persons against electric shock by direct contact ( $\leq 30$  mA),
  - protection of persons against electric shock by indirect contact ( $\geq 100$  mA),
  - protection of installations against the risk of fire (300 mA).

## Catalogue numbers

Vigi iC60 add-on residual current devices							
Type	A						Width in 9 mm modules
Product	Vigi iC60						
Auxiliaries	Without auxiliaries						
2P	Sensitivity	10 mA	30 mA	100 mA	300 mA		
<p>DB122462</p>	Rating	25 A	A9V00625			3	
		63 A	-	A9V02663 A9V01663*	A9V03663	A9V06663	4
4P	Sensitivity	10mA	30 mA	100 mA	300 mA		
<p>DB122464</p>	Rating	63 A	-	A9V02763	-	A9V06763	7
Voltage rating (Ue)		230 - 240 V, 400 - 415 V Except * 110 V					
Operating frequency		50/60 Hz					

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

PB 104466-40



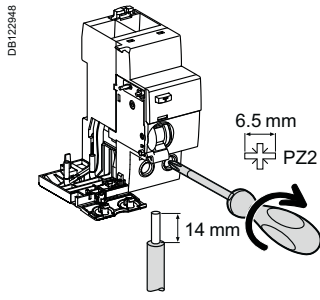
## *SI* type



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

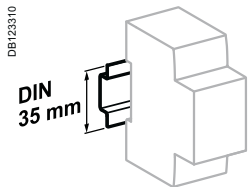


# Vigi iC60 add-on residual current devices (A type)

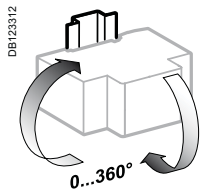
## Connection



Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible or ferrule
Vigi iC60	25 A	2 N.m	 1 to 25 mm <sup>2</sup>	 1 to 16 mm <sup>2</sup>
	40 to 63 A	3.5 N.m		





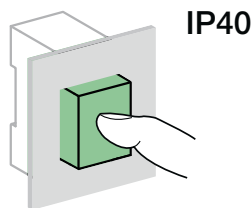
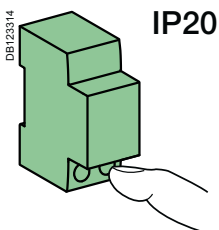
Clip on DIN rail 35 mm.



Indifferent position of installation.

## Technical data

Main characteristics		
Insulation voltage (U <sub>i</sub> )		500 V
Pollution degree		3
Rated impulse withstand voltage (U <sub>imp</sub> )		6 kV
According to IEC/EN 61009-1		
Surge current withstand (8/20 μs) without tripping	A type (no selective  )	250 Å
	A type (selective  )	3 kÅ
Additional characteristics		
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature	AC type	-5°C to +60°C
	A and S/I types	-25°C to +60°C
Storage temperature		-40°C to +85°C



## Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA, RCA and ARA

■ The electrical auxiliaries are combined with iC60 circuit breakers, iID residual current circuit breakers, remote tripping switch disconnectors iSW-NA, RCA remote controls and ARA automatic reclosers; 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 Acti 9 Smartlink or a programmable logic controller via the TI24 interface (24 V DC).

### Tripping auxiliaries:

#### IEC/EN 60947-1

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

#### EN 50550

- iMSU: overvoltage release

### Indication auxiliaries:

#### IEC/EN 60947-5-1

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

#### IEC/EN 60947-5-4

- iOF+SD24: open/close contact OF and default indicating contact SD with TI24 interface.

DB404939



# Electrical auxiliaries for iC60, iLD, RCA and ARA (cont.)

The mounting order for the various auxiliaries must be complied with.  
 The tripping auxiliaries (iMN, iMX) should be mounted first, as close as possible to the circuit breaker or the residual current circuit breaker. Then, the indicating auxiliaries (iOF, iSD) should be mounted, complying with their position shown in the following table.

### Indicating auxiliaries

PE104474-25



PE104475-25



DB123583














1 (iOF/SD+OF or iOF+SD24 or iSD)	1 iOF/SD+OF
1 iOF	1 (iSD or iOF or iOF/SD+OF)
None	1 iOF+SD24
None	None
1 iSD	1 iSD
None	1 (iSD or iOF or iOF/SD+OF or iOF+SD24)
1 iOF	1 (iSD or iOF or iOF/SD+OF)
None	1 (iSD or iOF or iOF/SD+OF or iOF+SD24)
1 iOF	1 (iSD or iOF or iOF/SD+OF)





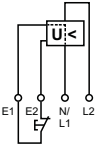


**Tripping devices must be mounted first. Comply with the position of the SD function.**

**\*iSW-NA : the iSD auxiliary contact must be associated with an auxiliary (iMN, iMX, iMX+OF); it indicates that the remote tripping switch disconnector has been tripped open.**

	Tripping auxiliaries	Remote control	Device	Vigi iC60
		ARA automatic recloser or RCA remote control	iC60 circuit breaker or iID residual current circuit breaker	Vigi iC60 add-on residual current device
PB104496-25	1 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU) max.	-	 iC60	 Vigi iC60
	2 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU) max.	-	-	-
	2 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU) max.	-	-	-
	3 iMSU max.	-	-	-
	1 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU) max.	-	 iID/iSW-NA	-
	1 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU) max.	 ARA	 iC60	 Vigi iC60
	None	 iID	-	-
	1 (iMX or iMN or iMSU) max.	 RCA	 iC60	 Vigi iC60
	None	-	-	-

# Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA, RCA and ARA (cont.)

		Tripping						
Auxiliaries		iMN		iMNs		iMNx		
Type		Undervoltage release						
		Instantaneous		Delayed		Independent of the supply voltage		
								
Function		<ul style="list-style-type: none"> <li>Trips the device with which it is combined when its input voltage decreases (between 70 % and 35 % <math>U_n</math>). Prevents device closing again until its input voltage is restored</li> </ul>			<ul style="list-style-type: none"> <li>Tripping of the associated device by opening of the control circuit (e.g. push-button, dry contact)</li> </ul>			
				<ul style="list-style-type: none"> <li>Not tripping on transient voltage dip (up to 0.2 s)</li> </ul>	<ul style="list-style-type: none"> <li>A drop in the supply voltage does not trip the associated device</li> <li>A locking push-button control allows the circuit protected (e.g. machine control) to be placed in safety configuration</li> </ul>			
Wiring diagrams								
Use		<ul style="list-style-type: none"> <li>Emergency stoppage by normally closed push button</li> <li>Ensures the safety of power supply circuits for several machines by preventing "uncontrolled" restarting</li> </ul>				<ul style="list-style-type: none"> <li>Emergency stoppage with fail-safe principle</li> <li>Insensitive to control circuit voltage variation to increase service continuity</li> <li><b>Important: Before any servicing operation switch off the mains power supply (voltage presence at terminals E1/E2)</b></li> </ul>		
Catalogue numbers		A9A26960	A9A26961	A9A26959	A9A26963	A9A26969	A9A26971	
iC60, iID, iDPN Vigi, iSW-NA, RCA et ARA		■	■	■	■	■	■	
iC60, iID double terminals		■	■	■	■	■	■	
Technical specifications								
Rated voltage ( $U_e$ )	V AC	220...240	48	115	220...240	220...240	380...415	
	V DC	—	48	—	—	—	—	
Standardised operating and non-response to voltage times ( $U_a$ )*		—	—	—	—	—	—	
Maximum operating time		—	—	—	—	—	—	
Minimum non-response time		—	—	—	—	—	—	
Operating frequency	Hz	50/60	—	400	50/60	50/60	—	
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	°C	-35...+70			-35...+70	-35...+70		
Storage temperature	°C	-40...+85			-40...+85	-40...+85		





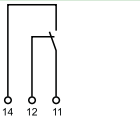
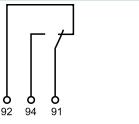
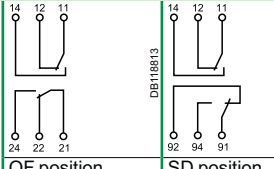
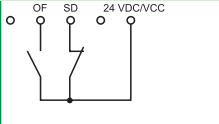
\*( $U_a$ )

Volages measured between the phase and the neutral conductor, at which the iMSU device must control the associated protective device.

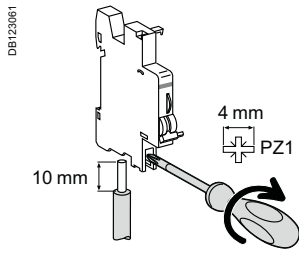
# Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA, RCA and ARA (cont.)

iMSU					iMX			iMX+OF						
Overvoltage release					Shunt release									
					With Open/Close auxiliary contact									
<ul style="list-style-type: none"> <li>Switches off the power supply by opening the breaker with which it is combined, in the event that the phase/neutral voltage is exceeded (loss of neutral). For a four-phase network, use three iMSU tripping auxiliaries</li> </ul>					<ul style="list-style-type: none"> <li>Trips the breaker when powered</li> </ul>			<ul style="list-style-type: none"> <li>Includes an open/close contact (OF) to indicate the "open" or "closed" position of the breaker</li> </ul>						
<ul style="list-style-type: none"> <li>Protection of equipment against overvoltages on the electrical network (neutral conductor break)</li> <li>Voltage monitoring between phase and neutral conductors</li> </ul>					<ul style="list-style-type: none"> <li>Emergency stoppage by normally open push button</li> </ul>			<ul style="list-style-type: none"> <li>Emergency stoppage by normally open push button</li> <li>Remote indication of the position of the associated breaker</li> </ul>						
A9A26500					A9A26476		A9A26477	A9A26478	A9A26946	A9A26947	A9A26948			
■					■		■	■	■	■	■			
■					■		■	■	■	■	■			
230					100...415		48	12...24	100...415	48	12...24			
-					110...130		48	12...24	110...130	48	12...24			
255 V AC					275 V AC	300 V AC	350 V AC	400 V AC						
No tripping					15 s	5 s	0.75 s	0.20 s						
					3 s	1 s	0.25 s	0.07 s						
50/60					50/60					50/60				
On front face					On front face					On front face				
-					-					-				
2					2					2				
-					-					≤ 24 V DC		10 mA mini, 6 A maxi		
-					-					48 V DC		2 A		
-					-					≤ 130 V DC		1 A		
-					-					≤ 240 V AC		6 A		
-					-					415 V AC		3 A		
-					-					1 NO/NC				
-35...+70					-35...+70					-35...+70				
-40...+85					-40...+85					-40...+85				

# Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA, RCA and ARA (cont.)

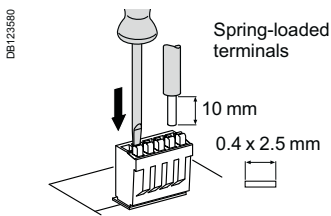
		Indication					
Auxiliaries		iOF	iSD	iOF/SD+OF	iOF+SD24		
Type		Open/close auxiliary contact	Fault indicating contact	Double open/close or fault indicating contact	Double open/close and fault indicating contact		
							
Function		<ul style="list-style-type: none"> <li>Changeover contact indicates "open" or "closed" position of the breaker</li> </ul>	<ul style="list-style-type: none"> <li>Changeover contact indicates position of the breaker; upon:               <ul style="list-style-type: none"> <li>electrical fault</li> <li>action on tripping auxiliary</li> </ul> </li> <li>Same indication as VISI-TRIP</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>2 contacts (1 NO + 1 NC) can report the signalling information of the associated device to the Acti 9 Smartlink or a programmable logic controller:               <ul style="list-style-type: none"> <li>electrical fault</li> <li>actuation of the tripping auxiliary</li> <li>"Open" or "Closed" position of the associated device</li> </ul> </li> </ul>		
Wiring diagrams							
Use		<ul style="list-style-type: none"> <li>Remote indication of the position of the associated breaker</li> </ul>	<ul style="list-style-type: none"> <li>Remote indication of tripping upon a fault of the associated breaker</li> </ul>	<ul style="list-style-type: none"> <li>Remote indication of position and/or tripping upon a fault of the associated breaker</li> </ul>	<ul style="list-style-type: none"> <li>Remote indication of position and tripping upon a fault of the associated breaker</li> </ul>		
Catalogue numbers		A9A26924	A9A26869	A9A26927	A9A26855	A9A26929	A9A26897
iC60, iID, iDPN Vigi, iSW-NA, RCA et ARA		■	—	■	—	■	■
iC60, iID double terminals		—	■	—	■	■	■
Technical specifications							
Rated voltage (Ue)		V AC	240...415	240...415	240...415	240...415	—
		V DC	24...130	24...130	24...130	24...130	24
Operating frequency		Hz	50/60	50/60	50/60	50/60	—
Red mechanical indicator		—	—	On front face	On front face	On front face	On front face
Test function		On toggle	On toggle	On toggle	On toggle	On toggle	On toggle
Width in 9 mm modules		1	1	1	1	1	1
Operating current		24 V DC	10 mA mini, 6 A maxi	10 mA mini, 6 A maxi	10 mA mini, 6 A maxi	10 mA mini, 6 A maxi	2 mA mini, 50 mA maxi
		48 V DC	2 A	2 A	2 A	2 A	—
		60 V DC	1.5 A	1.5 A	1.5 A	1.5 A	—
		130 V DC	1 A	1 A	1 A	1 A	—
		240 V AC	6 A	6 A	6 A	6 A	—
		415 V AC	3 A	3 A	3 A	3 A	—
Number of contacts		1 NO/NC	1 NO/NC	1 NO/NC	1 NO/NC + 1 NO/NC	1 NO/NC + 1 NO/NC	1 NO/NC
Operating temperature		°C	-35...+70	-35...+70	-35...+70	-35...+70	-25...+70
Storage temperature		°C	-40...+85	-40...+85	-40...+85	-40...+85	-40...+85

## Connection



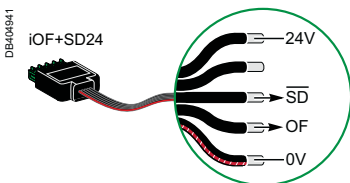
Type	Tightening torque	Copper cables		Multi-cables terminal	
		Rigid	Flexible	Rigid cables	Cables with ferrule
	DB122946	DB123007	DB123011	DB123008	
Indication auxiliaries	1 N.m	1 to 4 mm <sup>2</sup>	0.5 to 2.5 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>
Tripping auxiliaries	1 N.m	1 to 6 mm <sup>2</sup>	0.5 to 4 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup>

## Ti24 connector connection





Type	Catalogue numbers	Copper cables	
		Rigid	Flexible
	DB122946	DB123553	
Ti24 interface	A9XC2412	1 x 0,5 à 1,5 mm <sup>2</sup>	1 x 0,5 à 1,5 mm <sup>2</sup>

## Ti24 prefabricated cables connection









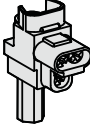
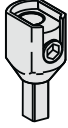




Type	Catalogue numbers	Length
<b>Connection for Acti 9 Smartlink</b>		
6 short prefabricated	A9XCAS06	100 mm
6 medium-sized prefabricated	A9XCAM06	160 mm
6 long prefabricated	A9XCAL06	870 mm
<b>Connection for PLC type terminals</b>		
6 long prefabricated on a single side	A9XCAU06	870 mm

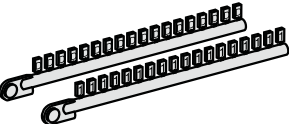


		Mounting						
Accessories		Rotary handle			Plug-in base			
								
Function		<p><b>Front or side-mounted control</b></p> <ul style="list-style-type: none"> <li>■ Degree of protection: IP55 rotary handle</li> <li>■ Installation: <ul style="list-style-type: none"> <li>□ the control mechanism is mounted on the device</li> <li>□ the rotary handle is fixed to the front or side of the enclosure</li> </ul> </li> <li>■ Front-mounted (on door or faceplate) <ul style="list-style-type: none"> <li>■ Prevents the door from opening when the device is in the ON position (can be deactivated)</li> <li>■ Can be padlocked when the device is in the "open" position (can be padlocked with the device in the "closed" position subject to adaptation)</li> <li>■ Can be locked by padlock of (dia. 5 to 8 mm), not supplied with the device</li> <li>■ Pushbutton: iID test available in the front face of the rotary handle</li> </ul> </li> </ul>			<ul style="list-style-type: none"> <li>■ The Laser Square tool brings the accuracy to align the circuit breaker and the rotary handle</li> </ul>		<p><b>Allows a breaker to be removed or replaced quickly, without handling the connections</b></p> <ul style="list-style-type: none"> <li>■ Degree of protection: IP20</li> <li>■ Consists of: <ul style="list-style-type: none"> <li>□ a base to be fastened on a rail (or panel)</li> <li>□ 2 "blades" to be fastened in the device's terminals</li> </ul> </li> <li>■ Connection: tunnel terminals for cable up to 35 mm<sup>2</sup> rigid, 25 mm<sup>2</sup> flexible,</li> <li>■ Installation: <ul style="list-style-type: none"> <li>□ in universal enclosure</li> <li>□ on horizontal rail</li> </ul> </li> <li>■ Height: 178 mm</li> <li>■ Not compatible with Vigi iC60 and auxiliaries</li> <li>■ Can be locked by padlock of (dia. 6 mm), not supplied with the device</li> </ul>	
Catalogue numbers	A9A27005	A9A27006	A9A27008	GVAPL01	A9A27003 (1 per pole)			
	Operating sub-assembly							
	+	+						
	Black handle	Red handle	No handle					
Set of	1	1	1	1	1			
<b>Suitability</b>								
iC60	■ 2P, 3P, 4P				■			
iSW	■ 2P, 3P, 4P				■			
iC60 + Vigi iC60	■ 2P, 3P, 4P				-			
iID	■				■ ≤ 63 A			
Reflex iC60 or RCA+iC60 or ARA+iC60	-				-			
ARA+iID	-				-			

Padlocking device	
PB104492-15  DB123599	P135169-40
<p>Used to padlock breaker in open or closed position</p> <ul style="list-style-type: none"> <li>■ Padlock diameter: 3 to 6 mm</li> <li>■ Sealable (max. diameter: 1.2 mm)</li> <li>■ Locking in ON position does not prevent tripping of the breaker in the event of faults</li> <li>■ Suitable for IEC/EN 60947-2 compliant disconnection</li> </ul>	
<b>MCB</b>	<b>RCBO</b>
A9A26970	A9A27049
10	10
■	
■	
■	
■	
■	
■	

Security						
Accessories	Screw shield		Terminal shield		Inter-pole barrier	Spacer
						
Function	<p>Prevents any contact with the connecting screws</p> <ul style="list-style-type: none"> <li>■ Upgrades degree of protection to IP20D</li> <li>■ Sealable, max. diameter 1.2 mm</li> </ul>		<p>Prevents any contact with the terminals</p> <ul style="list-style-type: none"> <li>■ Upgrades degree of protection to IP20D</li> <li>■ Sealable, max. diameter 1.2 mm</li> <li>■ Set of two, for upstream and downstream terminals</li> <li>■ For 3 poles: A9A26975 + A9A26976</li> <li>■ For 4 poles: 2 X A9A26976</li> </ul>		<p>Enhances insulation between connections: cables, terminals, lugs, etc</p>	<ul style="list-style-type: none"> <li>■ Used to:               <ul style="list-style-type: none"> <li><input type="checkbox"/> complete rows</li> <li><input type="checkbox"/> separate devices.</li> </ul> </li> <li>Width: 1 x 9 mm module</li> <li>■ Allows cable routing from one row to another, (above and below), up to 6 mm<sup>2</sup></li> </ul>
Catalogue numbers	A9A26982	A9A26981	A9A26975	A9A26976	A9A27001	A9A27062
Set of	12 x 1 pole	20 x 4 poles (splittable)	2 x 1 pole	2 x 2 poles	10	5
<b>Suitability</b>						
iC60	-	■	■	■	■	■
iSW	-	-	■	■	■	■
Vigi iC60	■	-	-	-	-	■
iID	-	■	-	■	■	■
Reflex iC60 or RCA+iC60 or ARA+iC60	-	■	■	■	■	■
ARA+iID	-	■	-	■	■	■

Accessories	Connection		
	Multi-cable terminal	50 mm <sup>2</sup> terminal Al	Screw-on connection for ring terminal
			
<b>Function</b>	For 3 copper cables: ■ Rigid up to 16 mm <sup>2</sup> ■ Flexible up to 10 mm <sup>2</sup>	For aluminium cables from 16 to 50 mm <sup>2</sup>	For lug tipped cables, front or rear mounting
			
<b>Catalogue numbers</b>	19091	19096	27060
<b>Set of</b>	4	3	1
iC60 ≤ 25 A Reflex iC60 ≤ 25 A	–	–	–
iC60 >25 A Reflex iC60 40 A, iSW	■	■	■
Vigi iC60	–	–	–
iID	■	■	■
iDPN Vigi	–	–	–
iSW-NA	■	■	■
<b>Tightening torque</b>	2 N.m	–	10 N.m
<b>Length stripping</b>	11 mm	–	13 mm
<b>Tools to use</b>	Dia. 5 mm or PZ2	–	Hc 1/5" or 5 mm

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