

■ 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, iID, 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














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)






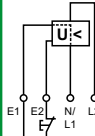


Tripping devices must be mounted first. Comply with the position of the SD function.

***iSW-NA : the iSD auxiliary contact must be associated with an auxiliary (iMN, iMX, iMX+OF); it indicates that the remote tripping switch disconnecter 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	-
PB100256-25	1 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU) max.	 ARA	 iC60	 Vigi iC60
	None		 iID	-
PB100253-25	1 (iMX or iMN or iMSU) max.	 RCA	 iC60	 Vigi iC60
	None			




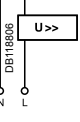
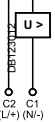
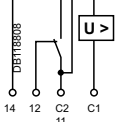
Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA, RCA and ARA (cont.)

		Tripping					
Auxiliaries		iMN		iMNs		iMNx	
Type		Undervoltage release					
		Instantaneous		Delayed		Independent of the supply voltage	
							
Function		<ul style="list-style-type: none"> Trips the device with which it is combined when its input voltage decreases (between 70 % and 35 % U_n). Prevents device closing again until its input voltage is restored 		<ul style="list-style-type: none"> Not tripping on transient voltage dip (up to 0.2 s) 		<ul style="list-style-type: none"> Tripping of the associated device by opening of the control circuit (e.g. push-button, dry contact) A drop in the supply voltage does not trip the associated device A locking push-button control allows the circuit protected (e.g. machine control) to be placed in safety configuration 	
Wiring diagrams							
Use		<ul style="list-style-type: none"> Emergency stoppage by normally closed push button Ensures the safety of power supply circuits for several machines by preventing "uncontrolled" restarting 		<ul style="list-style-type: none"> Emergency stoppage with fail-safe principle Insensitive to control circuit voltage variation to increase service continuity Important: Before any servicing operation switch off the mains power supply (voltage presence at terminals E1/E2) 			
Catalogue numbers		A9A26960	A9A26961	A9A26959	A9A26963	A9A26969	A9A26971
iC60, iID, iDPN Vigi, iSW-NA, RCA et ARA		■	■	■	■	■	■
iC60, iID double terminals		■	■	■	■	■	■
Technical specifications							
Rated voltage (Ue)	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)

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

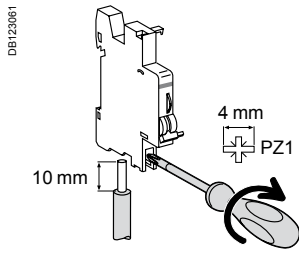
Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA, RCA and ARA (cont.)





iMSU					iMX			iMX+OF		
Overvoltage release					Shunt release			With Open/Close auxiliary contact		
										
<ul style="list-style-type: none"> 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 					<ul style="list-style-type: none"> Trips the breaker when powered 			<ul style="list-style-type: none"> Includes an open/close contact (OF) to indicate the "open" or "closed" position of the breaker 		
										
<ul style="list-style-type: none"> Protection of equipment against overvoltages on the electrical network (neutral conductor break) Voltage monitoring between phase and neutral conductors 					<ul style="list-style-type: none"> Emergency stoppage by normally open push button 			<ul style="list-style-type: none"> Emergency stoppage by normally open push button Remote indication of the position of the associated breaker 		
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.)

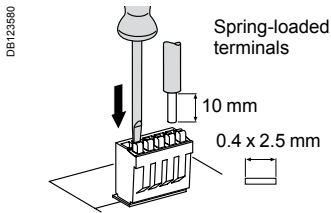
		Indication						
Auxiliaries		iOF	iSD	iOF/SD+OF	iOF+SD24			
Type		Open/close auxiliary contact	Fault indicating contact	Double open/close or fault indicating contact	Double open/close and fault indicating contact			
Function		<ul style="list-style-type: none"> Changeover contact indicates "open" or "closed" position of the breaker 	<ul style="list-style-type: none"> Changeover contact indicates position of the breaker; upon: <ul style="list-style-type: none"> electrical fault action on tripping auxiliary Same indication as VISI-TRIP 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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"> electrical fault actuation of the tripping auxiliary "Open" or "Closed" position of the associated device 			
Wiring diagrams								
Use		<ul style="list-style-type: none"> Remote indication of the position of the associated breaker 	<ul style="list-style-type: none"> Remote indication of tripping upon a fault of the associated breaker 	<ul style="list-style-type: none"> Remote indication of position and/or tripping upon a fault of the associated breaker 	<ul style="list-style-type: none"> Remote indication of position and tripping upon a fault of the associated breaker 			
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		-
	V DC	24...130		24...130		24...130		24
Operating frequency	Hz	50/60		50/60		50/60		-
Red mechanical indicator		—		On front face		On front face		On front face
Test function		On toggle		On toggle		On toggle		On toggle
Width in 9 mm modules		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		2 mA mini, 50 mA maxi
	48 V DC	2 A		2 A		2 A		-
	60 V DC	1.5 A		1.5 A		1.5 A		-
	130 V DC	1 A		1 A		1 A		-
	240 V AC	6 A		6 A		6 A		-
	415 V AC	3 A		3 A		3 A		-
Number of contacts		1 NO/NC		1 NO/NC		1 NO/NC + 1 NO/NC		1 NO/NC
Operating temperature	°C	-35...+70		-35...+70		-35...+70		-25...+70
Storage temperature	°C	-40...+85		-40...+85		-40...+85		-40...+85



Connection



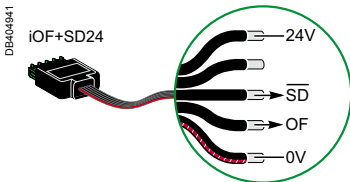
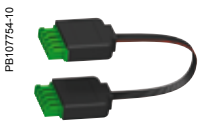
Type	Tightening torque	Copper cables		Multi-cables terminal	
		Rigid	Flexible	Rigid cables	Cables with ferrule
	DB122945				
Indication auxiliaries	1 N.m	1 to 4 mm ²	0.5 to 2.5 mm ²	2 x 2.5 mm ²	2 x 1.5 mm ²
Tripping auxiliaries	1 N.m	1 to 6 mm ²	0.5 to 4 mm ²	2 x 2.5 mm ²	2 x 2.5 mm ²

Ti24 connector connection



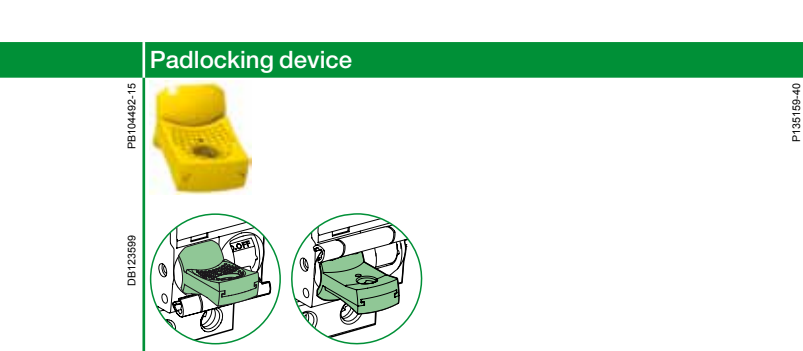
Type	Catalogue numbers	Copper cables	
		Rigid	Flexible
	DB122945		
Ti24 interface	A9XC2412	1 x 0,5 à 1,5 mm ²	1 x 0,5 à 1,5 mm ²

Ti24 prefabricated cables connection



Type	Catalogue numbers	Length
Connection for Acti 9 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

		Mounting						
Accessories		Rotary handle			Plug-in base			
Function		<p>Front or side-mounted control</p> <ul style="list-style-type: none"> ■ Degree of protection: IP55 rotary handle ■ Installation: <ul style="list-style-type: none"> □ the control mechanism is mounted on the device □ the rotary handle is fixed to the front or side of the enclosure ■ Front-mounted (on door or faceplate) <ul style="list-style-type: none"> ■ Prevents the door from opening when the device is in the ON position (can be deactivated) ■ Can be padlocked when the device is in the "open" position (can be padlocked with the device in the "closed" position subject to adaptation) ■ Can be locked by padlock of (dia. 5 to 8 mm), not supplied with the device ■ Pushbutton: iID test available in the front face of the rotary handle 			<ul style="list-style-type: none"> ■ The Laser Square tool brings the accuracy to align the circuit breaker and the rotary handle 		<p>Allows a breaker to be removed or replaced quickly, without handling the connections</p> <ul style="list-style-type: none"> ■ Degree of protection: IP20 ■ Consists of: <ul style="list-style-type: none"> □ a base to be fastened on a rail (or panel) □ 2 "blades" to be fastened in the device's terminals ■ Connection: tunnel terminals for cable up to 35 mm² rigid, 25 mm² flexible, ■ Installation: <ul style="list-style-type: none"> □ in universal enclosure □ on horizontal rail ■ Height: 178 mm ■ Not compatible with Vigi iC60 and auxiliaries ■ Can be locked by padlock of (dia. 6 mm), not supplied with the device 	
Catalogue numbers		A9A27005	A9A27006	A9A27008	GVAPL01	A9A27003 (1 per pole)		
		Operating sub-assembly						
		+	+					
		Black handle	Red handle	No handle				
Set of		1	1	1	1	1		
Suitability								
iC60		■ 2P, 3P, 4P			■			
iSW		■ 2P, 3P, 4P			■			
iC60 + Vigi iC60		■ 2P, 3P, 4P			-			
iID		■			■ ≤ 63 A			
Reflex iC60 or RCA+iC60 or ARA+iC60		-			-			
ARA+iID		-			-			









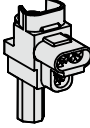
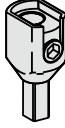



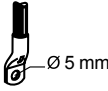
Used to padlock breaker in open or closed position

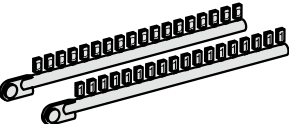
- Padlock diameter: 3 to 6 mm
- Sealable (max. diameter: 1.2 mm)
- Locking in ON position does not prevent tripping of the breaker in the event of faults
- Suitable for IEC/EN 60947-2 compliant disconnection

MCB	RCBO
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"> ■ Upgrades degree of protection to IP20D ■ Sealable, max. diameter 1.2 mm 		<p>Prevents any contact with the terminals</p> <ul style="list-style-type: none"> ■ Upgrades degree of protection to IP20D ■ Sealable, max. diameter 1.2 mm ■ Set of two, for upstream and downstream terminals ■ For 3 poles: A9A26975 + A9A26976 ■ For 4 poles: 2 X A9A26976 		<p>Enhances insulation between connections: cables, terminals, lugs, etc</p>	<ul style="list-style-type: none"> ■ Used to: <ul style="list-style-type: none"> <input type="checkbox"/> complete rows <input type="checkbox"/> 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 (splittable)	2 x 1 pole	2 x 2 poles	10	5
Suitability						
iC60	-	■	■	■	■	■
iSW	-	-	■	■	■	■
Vigi iC60	■	-	-	-	-	-
iID	-	■	-	■	■	■
Reflex iC60 or RCA+iC60 or ARA+iC60	-	■	■	■	■	■
ARA+iID	-	■	-	■	■	■

		Connection		
Accessories	Multi-cable terminal	50 mm ² terminal Al	Screw-on connection for ring terminal	
				
Function				
	For 3 copper cables: ■ Rigid up to 16 mm ² ■ Flexible up to 10 mm ²	For aluminium cables from 16 to 50 mm ²	For lug tipped cables, front or rear mounting	
				
Catalogue numbers	19091	19096	27060	27053
Set of	4	3	1	8
iC60 ≤ 25 A Reflex iC60 ≤ 25 A	–	–	–	■
iC60 >25 A Reflex iC60 40 A, iSW	■	■	■	■
Vigi iC60	–	–	–	–
iID	■	■	■	■
iDPN Vigi	–	–	–	■
iSW-NA	■	■	■	■
Tightening torque	2 N.m		10 N.m	2 N.m
Length stripping	11 mm		13 mm	–
Tools to use	Dia. 5 mm or PZ2		Hc 1/5" or 5 mm	Dia. 5mm

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