

- The electrical auxiliaries are combined with iC60 circuit breakers, iID residual current circuit breakers, remote tripping switch disconnector 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 VDC).

Tripping auxiliaries:

IEC/EN 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.

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.

DB40499



DB404940



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

DB12393



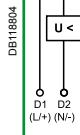
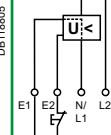
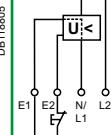
Indicating auxiliaries	
PB104474-25	PB104475-25
	
1 (iOF/SD+OF or iOF+SD24 or iSD)	1 iOF/SD+OF
1 iOF	1 (iSD or iOF or iOF/SD+OF)
None	1 iOF+SD24
None	None
1 iSD	1 iSD
None	1 (iSD or iOF or iOF/SD+OF or iOF+SD24)
1 iOF	1 (iSD or iOF or iOF/SD+OF)
None	1 (iSD or iOF or iOF/SD+OF or iOF+SD24)
1 iOF	1 (iSD 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 disconnector has been tripped open.

Tripping auxiliaries	Remote control	Device	Vigi iC60
PB104498-25 	ARA automatic recloser or RCA remote control	iC60 circuit breaker or iID residual current circuit breaker or iSW-NA switch-disconnector	Vigi iC60 add-on residual current device
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.	-	iID/iSW-NA	-
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.	-	-	-
1 (iMN, iMNs, iMNx or iMX, iMX+OF or iMSU) max.	PB106256-25  ARA	PB104472-25  iC60	PB104466-25  Vigi iC60
None	PB106253-25  RCA	PB104472-25  iID	-
1 (iMX or iMN or iMSU) max.	PB106253-25  RCA	PB104472-25  iC60	PB104472-25  Vigi iC60

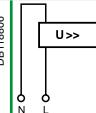
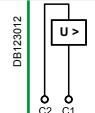
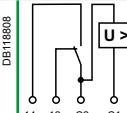
Electrical auxiliaries for iC60, iID, iDPN Vigi, iSW-NA, RCA and ARA (cont.)

Tripping		iMN	iMNs	iMNx			
Auxiliaries	Type	Undervoltage release	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 % Un). 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 <p>Important: Before any servicing operation switch off the mains power supply (voltage presence at terminals E1/E2)</p>			
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)	VAC	220...240	48	115	220...240	220...240	380...415
	VDC	—	48	—	—	—	—
Standardised operating and non-response to voltage times (Ua)*		—	—	—	—	—	—
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	—

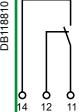
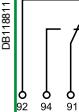
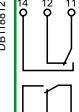
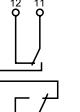
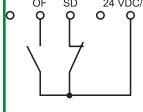
*(Ua)

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

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

	iMSU	iMX	iMX+OF			
	Overvoltage release	Shunt release	With Open/Close auxiliary contact			
PB10479-35		PB104496-35 	PB104481-35 			
	<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 			
	 DB118806	 DB123012	 DB118808			
	<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 VAC	275 VAC 300 VAC 350 VAC 400 VAC	-	-	-	-	-
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	50/60	50/60	50/60	50/60
On front face	On front face	On front face	On front face	On front face	On front face	On front face
-	-	-	-	-	-	-
2	2	2	2	2	2	2
-	-	-	-	≤ 24 V DC 10 mA mini, 6 A maxi	10 mA mini, 6 A maxi	10 mA mini, 6 A maxi
				48 V DC 2 A	2 A	2 A
				≤ 130 V DC 1 A	1 A	1 A
				≤ 240 VAC 6 A	6 A	6 A
				415 VAC 3 A	3 A	3 A
-	-	-	-	1 NO/NC	1 NO/NC	1 NO/NC
-35...+70	-35...+70	-35...+70	-35...+70	-35...+70	-35...+70	-35...+70
-40...+85	-40...+85	-40...+85	-40...+85	-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	
	PB104474-35	PB104475-35	PB104475-35	PB107750-35	
					
Offer to be adapted by the country					
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	 DB118810	 DB118811	 DB118812	 DB118813 OF position SD position	 DB124318
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
iC60, iID, iDPN Vigi, iSW-NA, RCA et ARA	■	-	■	-	■
iC60, iID double terminals	-	■	-	■	■
Technical specifications					
Rated voltage (Ue)	VAC	240...415	240...415	240...415	-
	VDC	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	On front face
Test function	On toggle	On toggle	On toggle	On toggle	On toggle
Width in 9 mm modules	1	1	1	1	1
Operating current	24 V DC	10 mA mini, 6 A maxi			2 mA mini, 50 mA maxi
	48 V DC	2 A			-
	60 V DC	1.5 A			-
	130 V DC	1 A			-
	240 V AC	6 A			-
	415 VAC	3 A			-
Number of contacts	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	-25...+70
Storage temperature	°C	-40...+85	-40...+85	-40...+85	-40...+85

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

Connection

DB123061

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

Ti24 connector connection

DB123580

Type	Catalogue numbers	Copper cables	
		Rigid	Flexible
Ti24 interface	A9XC2412	DB122945	DB123583

Ti24 prefabricated cables connection

PB107754-10

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

PB107755-14

DBA0941

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

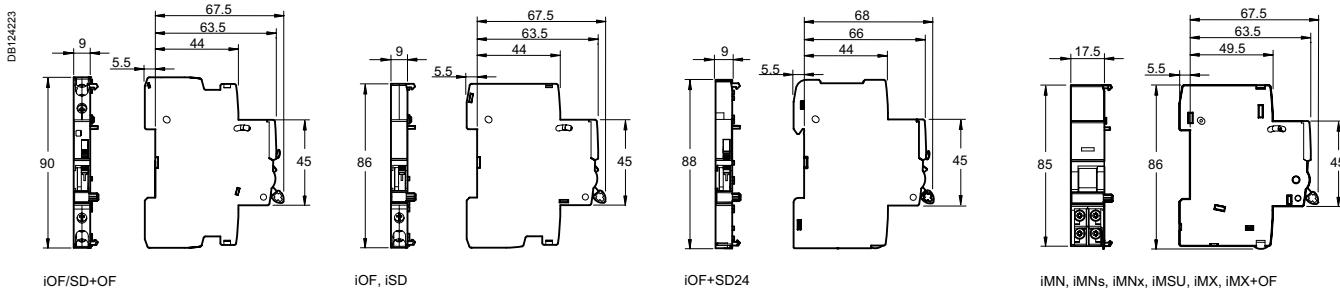
Technical data

Weight (g)

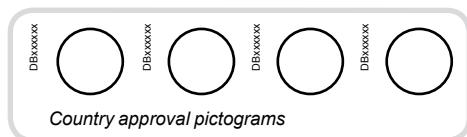
Electrical auxiliaries

Type	Weight (g)
iMN	69
iMNs	72
iMNx	79
iMSU	68
iMX	64
iMX+OF	68
iOF	32
iSD	33
iOF/SD+OF	43
iOF+SD24	25

Dimensions (mm)



iMDU electrical auxiliary for Reflex iC60



A9C18195

The voltage matching module allows safety voltages of 24 and 48 V AC/DC to be used on the control inputs.

- Only connects to the Reflex iC60 circuit breakers remote controlled by a 220-240 V control voltage
- Galvanic isolation 6000 V
- Maximum combined power between terminals P and Y1/Y2: 100 mA at 230 V and 25°C.

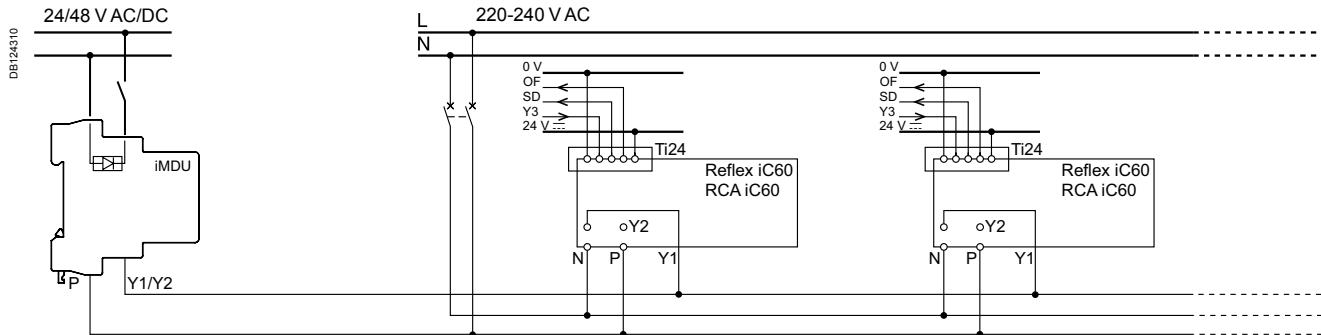
Catalogue numbers

Electrical auxiliary for Reflex iC60

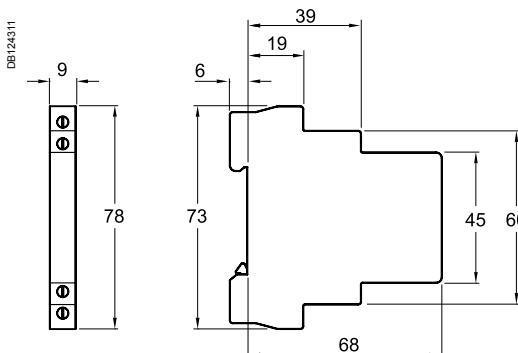
Type	Width in 9 mm modules
iMDU	A9C18195 1

Diagram

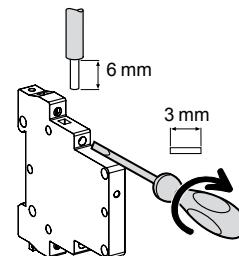
An iMDU electrical auxiliary allows up to a maximum of five Reflex iC60 to be controlled simultaneously at the same input Y1 or Y2.



Dimensions (mm)



Connection



Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
iMDU	1 N.m	1.5 mm ²	1.5 mm ²

Technical data

Main characteristics

Control circuit voltage	24...48 V AC/DC
Insulation voltage (Ui)	500 V

Additional characteristics

Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Operating temperature		-20°C to +60°C
Storage temperature		-40°C to +80°C
Tropicalisation		Treatment 2 (relative humidity 95 % at 55°C)
Weight		53 g