

Circuit protection / Earth leakage protection

Electrical auxiliaries for iC60, iID, iC40, iCV40, iID40, iDPN Vigi, iSW-NA

- The electrical auxiliaries are combined with iC60, iC40, iCV40, iDPN Vigi circuit breakers, iID, iID40 residual current circuit breakers, remote tripping switch disconnector iSW-NA; they enable tripping or remote indication of their position (open/closed/tripped) upon a fault.
- They are fastened by clips (without tools) to the left side of the breaker.
- The iOF/SD+OF auxiliary is a 2-in-1 product: via a mechanical selector switch, it provides two contacts, OF+SD or OF+OF.
- 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).

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

IEC/EN 60947-5-4

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

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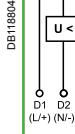
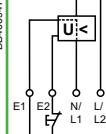


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Electrical auxiliaries for iC60, iID, iC40, iCV40, iID40, iDPN Vigi, iSW-NA (cont.)

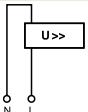
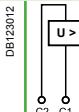
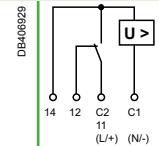
Tripping							
Auxiliaries	iMN	iMNs	iMNx				
Type	Undervoltage release						
	Instantaneous	Delayed	Independent of the supply voltage				
	PB104477-35 	PB104478-35 	PB104480-35 				
Function	<ul style="list-style-type: none"> ■ Trips the device with which it is combined when its input voltage decreases (between 70 % and 35 % Un). ■ Prevents device closing again until its input voltage is restored 		<ul style="list-style-type: none"> ■ Tripping of the associated device by opening of the control circuit (e.g. push-button, dry contact) 				
			<ul style="list-style-type: none"> ■ Not tripping on transient voltage dip (up to 0.2 s) 				
Wiring diagrams	DB118904 			DB406947 			
Use	<ul style="list-style-type: none"> ■ Emergency stoppage by normally closed push button ■ Improve 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	A9A27108	A9A26961	A9A26959	A9A26963		
iC60, iID, iC40, iCV40, iID40, iDPN Vigi, iSW-NA	■	■	■	■	■		
iC60, iID double terminals	■	■	■	■	■		
iC60 RCBO, iKQE RCBO	■	■	■	■	■		
Technical specifications							
Rated voltage (Ue)	220...240 V AC –	24 V AC 24 V DC	48 V AC 48 V CC	115 V AC –	220...240 V AC –		
Standardised operating and non-response to voltage times (Ua)*	–	–	–	–	–		
Maximum operating time	–	–	–	–	–		
Minimum non-response time	–	–	–	–	–		
Operating frequency	50/60 Hz	400 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	2		
Operating current	–	–		–	–		
Number of contacts	–	–		–	–		
Operating temperature	-35...+70°C	-35...+70°C		-35...+70°C	-35...+70°C		
Storage temperature	-40...+85°C	-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.

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Electrical auxiliaries for iC60, iID, iC40, iCV40, iID40, iDPN Vigi, iSW-NA (cont.)

	iMSU	iMX	iMX+OF			
PB10479-35	Overvoltage release 	Shunt release 	With Open/Close auxiliary contact 			
DB118806	<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 associated device when it is powered on 	<ul style="list-style-type: none"> Includes an open/close contact (OF) to indicate the "open" or "closed" position of the device 			
A9A26500	<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 device 			
	A9A26476	A9A26477	A9A26478			
	■	■	■			
	■	■	■			
	■	■	■			
230 V AC	100...415 V AC	48 V AC	12...24 V AC	100...415 V AC	48 V AC	12...24 V AC
—	110...130 V DC	48 V DC	12...24 V DC	110...130 V DC	48 V DC	12...24 V DC
255 V AC	275 V AC	300 V AC	350 V AC	400 V AC	—	—
No tripping	15 s 3 s	5 s 1 s	0.75 s 0.25 s	0.20 s 0.07 s	— —	— —
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
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
—	—	—	—	10 mA mini, 6 A maxi ≤ 24 V DC 48 V DC ≤ 130 V DC ≤ 240 V AC 415 V AC	6 A 2 A 1 A 6 A 3 A	— — — — —
—	—	—	—	1 NO/NC	—	—
-35...+70°C	-35...+70°C	-35...+70°C	-35...+70°C	-40...+85°C	-40...+85°C	-40...+85°C
-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C

Circuit protection / Earth leakage protection

Electrical auxiliaries for iC60, iID, iC40, iCV40, iID40, iDPN Vigi, iSW-NA (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	Compatible with downstream comb busbar	Compatible with upstream comb busbar
Offer to be adapted by the country					
Function	<ul style="list-style-type: none"> Changover contact indicates "open" or "closed" position of the device 	<ul style="list-style-type: none"> Changover contact indicates position of the device; 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 Acti9 Smartlink or a programmable logic controller: electrical fault actuation of the tripping auxiliary "Open" or "Closed" position of the associated device 	
Wiring diagrams					
	DB18810	DB18811	DB18812	DB18813	DB124318
			OF position	SD position	
DB4096928					
Use	<ul style="list-style-type: none"> Remote indication of the position of the associated device 	<ul style="list-style-type: none"> Remote indication of tripping upon a fault of the associated device 	<ul style="list-style-type: none"> Remote indication of position and/or tripping upon a fault of the associated device 	<ul style="list-style-type: none"> Remote indication of position and tripping upon a fault of the associated device 	
Catalogue numbers	A9A26924	A9A26869	A9A26927	A9A26855	A9A26929
iC60, iID, iID40, iDPN Vigi, iSW-NA	■	—	■	—	■
iC40, iCV40	■	—	■	—	■
iC60, iID double terminals	—	■	—	■	—
iC60 RCBO, IKQE RCBO	■	—	■	—	—
Technical specifications					
Rated voltage (Ue)	24...415 V AC 24...130 V DC	24...415 V AC 24...130 V DC	24...415 V AC 24...130 V DC	24 V DC	-
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	On toggle	On toggle	On toggle	On toggle	
Width in 9 mm modules	1	1	1	1	
Operating current	10 mA mini, 6 A maxi 24 V DC 6 A 48 V DC 2 A 60 V DC 1,5 A 130 V DC 1 A 24...240 V AC 6 A 415 V AC 3 A			2 mA mini, 100 mA maxi	
Number of contacts	1 NO/NC	1 NO/NC	1 NO/NC + 1 NO/NC	1 NO/NC	
Operating temperature	-35...+70°C	-35...+70°C	-35...+70°C	-25...+70°C	
Storage temperature	-40...+85°C	-40...+85°C	-40...+85°C	-40...+85°C	

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Electrical auxiliaries for iC60, iID, iC40, iCV40, iID40, iDPN Vigi, iSW-NA (cont.)

Connection

DB123061

4 mm
PZ1

10 mm

Type	Tightening torque	Copper cables		Multi-cables	
		Rigid	Flexible	Rigid	Cables with ferrule
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

DB123060

Spring-loaded terminals
10 mm
0.4 x 2.5 mm

Ti24 interface

Type	Catalogue numbers	Copper cables	
		Rigid	Flexible
Ti24 interface	A9XC2412	DB122045 1 x 0.5 to 1.5 mm ²	DB123553 1 x 0.5 to 1.5 mm ²

Ti24 prefabricated cables connection

PB107754-10

Connection for Acti9 Smartlink

6 prefabricated

A9XCAU06 100 mm
A9XCAM06 160 mm
A9XCAH06 450 mm
A9XCAL06 870 mm

PB107755-14

Connection for PLC type terminals

6 long prefabricated on a single side

A9XCAU06 870 mm

1 long prefabricated on a single side

A9XCAC01 4000 mm

DB40494

PB107756-7

12 connectors, 5-pins (Ti24)

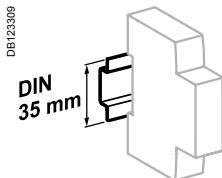
A9XC2412

-

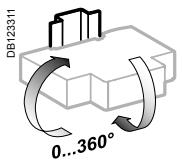
Type	Catalogue numbers	Length
Connection for Acti9 Smartlink		
6 prefabricated	A9XCAU06	100 mm
	A9XCAM06	160 mm
	A9XCAH06	450 mm
	A9XCAL06	870 mm
Connection for PLC type terminals		
6 long prefabricated on a single side	A9XCAU06	870 mm
1 long prefabricated on a single side	A9XCAC01	4000 mm
12 connectors, 5-pins (Ti24)	A9XC2412	-

Circuit protection / Earth leakage protection

Electrical auxiliaries for iC60, iID, iC40, iCV40, iID40, iDPN Vigi, iSW-NA (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.

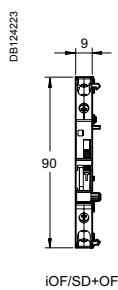
Technical data

Weight (g)

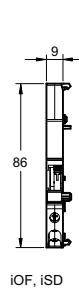
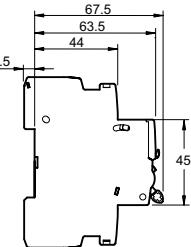
Electrical auxiliaries

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

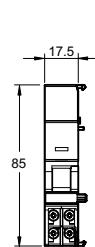
Dimensions (mm)



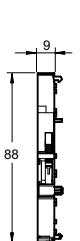
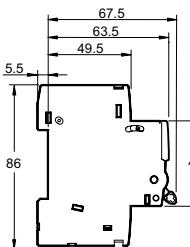
iOF/SD+OF



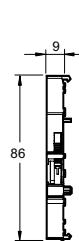
iOF, iSD



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



iOF+SD24 (A9A26897)



iOF+SD24 (A9A26898)

iMDU electrical auxiliary for Reflex iC60 or RCA 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.

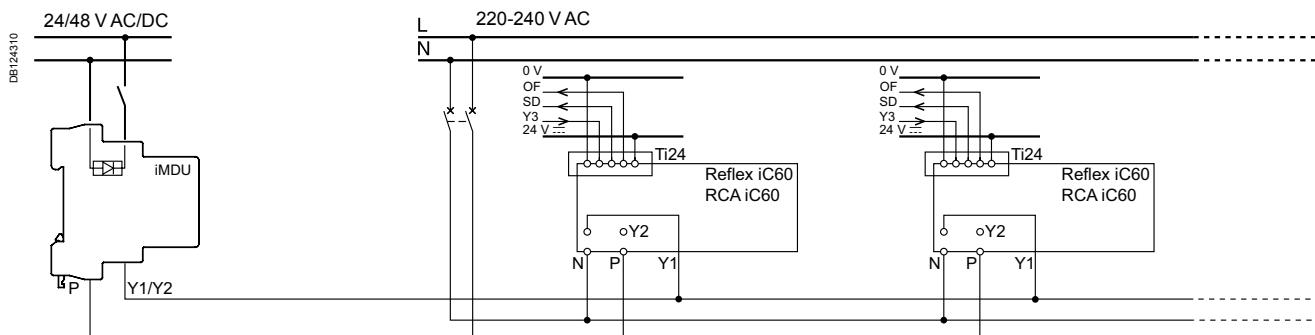
Catalogue numbers

Auxiliary iMDU

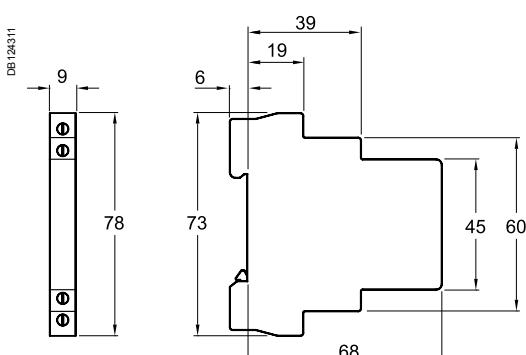
Type	Width in 9 mm modules
iMDU	A9C18195 1

Diagram

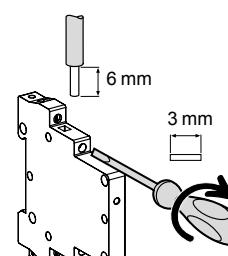
An iMDU electrical auxiliary allows up to a maximum of five Reflex iC60 to be controlled simultaneously at the same input Y1 or Y2.



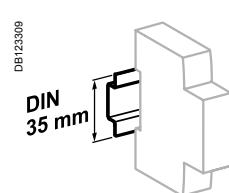
Dimensions (mm)



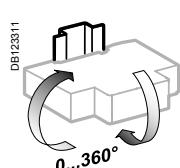
Connection



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



Clip on DIN rail 35 mm.



Indifferent position of installation.

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
Operating temperature		Insulation class II
Storage temperature	-20°C to +60°C	
Tropicalization	-40°C to +80°C	
Weight	Treatment 2 (relative humidity 95 % at 55°C)	
	53 g	

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Electrical auxiliaries for iC60, iID, iC40, iCV40, iID40,
iDPN Vigi, iSW-NA (cont.)

Indice	Date	Modification	Name
5.4	3/04/2018	Translate title of page 3 in english	Sonovision
5.3	26/03/2018	Add iC40, iCV40, iID40 compatibility and delete pictograms page 7	Sonovision
5.2	31/08/2017	Added iC60 RCBO, iKQE RCBO compatibility	Sonovision
5.1	1/06/2017	Changed compatibility of A9A26898 page 4 (not compatibility for Double terminals)	Sonovision
5.0	29/03/2017	New charte	Sonovision
4.4	6/02/2017	Added A9A26898 product page 4	Sonovision
4.3	16/03/2016	Added Installation diagrams pages 6-7	Sonovision
4.2	11/01/2016	Changed Rated voltage (Ue) 24...415 V AC and Opening current contact values Changed "Ti24 prefabricated cables connection" table	Sonovision
4.1	10/04/2015	Added A9A27108 iMN product	Sonovision
4.0	1/10/2014	Changed iMXN and iMX+OF electrical diagrams	Sedoc
3.2	10/01/2014	Changed A9XCAU06 drawing	Sedoc
3.1	28/06/2013	Changed iOF+SD24 technical data page 6: 50 mA maxi to 100 mA maxi. Changed standards page 1. Deleted association table.	Sedoc
3.0	30/10/2012	Changed iOF+SD24 text page 6 and iMDU electrical diagram page 9	Sedoc
2.9	23/08/2012	Changed association table page 2	Sedoc
2.8	6/07/2012	Changed I mini 24 V DC for iMX+OF, iOF, iSD, iOF/SD+OF	Sedoc
2.7	4/04/2012	Inversion of cat. no A9A26855 and A9A26869	Sedoc
2.6	28/02/2012	Changed iOF+SD24 technical data page 6 and photos page 2	Sedoc
2.5	16/02/2012	Changed photo prefabricated cable and deleted Ti 24 ferrule connection and iMDU diagram	Sedoc
2.4	06/01/2012	Change iMNx and iMX+OF diagrams and characteristics	Sedoc
2.3	7/12/2011	Deleted iMSU cat. no. A9A26479, change A9A26979 by A9A26500- Add iMDU product	Sedoc
2.2	13/10/2011	Change iOF+SD24 photo	Sedoc
2.1	09/06/2011	Add iC60 and iID double terminals and iOF+SD24 and iDPN Vigi products	Sedoc
2.0	06/06/2011	InDesign CS5	Sedoc
1.4	07/02/2011	Changed (iMNx ou iMN ou iMSU) by (iMN, iMNs, iMNx ou iMX, iMX+OF ou iMSU)	Sedoc
1.3	21/09/2010	Add iSW-NA product	Sedoc