Accessories for Ex9B and Ex9PN





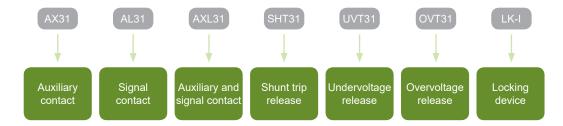
- Accessories for installation devices Ex9B (Ex9BH, Ex9BN, Ex9B125, Ex9BD, Ex9BP, Ex9BL), Ex9PN, Ex9BI, Ex9IP
- Auxiliary contacts synchronnous with main contacts of the device
- Signal contacts active on electrical tripping of the circuit breaker
- Shunt trip releases
- Locking devices
- Undervoltage releases
- Overvoltage release
- According to IEC/EN 60947-1 and IEC/EN 60947-5-1

Accessories are designed in the way to be possible to combine different types with one installation device. It can be used up to two releases plus up to three units of auxiliary or signal contacts (two units in case of AX3122 with two pairs of contacts) plus one unit of RCD-block (only for Ex9B MCBs).

Release units are mounted from the left to the installation device.

Auxiliary and signal contact units must be mounted from the left to the device or to the release unit(s) when installed. Contact units are equipped with changeover (CO) combination(s) of contacts.

Type Key



Accessories for Ex9B and Ex9PN

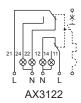
Auxiliary and signal contact units



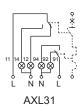
Function	Contacts	Article No.	Type	Packing
Auxiliary	1 CO	100540	AX3111	1/96
Auxiliary	2 CO	100542	AX3122	1/96
Signal	1 CO	100541	AL3111	1/96
Auxiliary + signal	1 CO + 1 CO	100543	AXL31	1/96

Wiring diagrams









Shunt trip releases



Aux. cont.	AC Op. Volt.	DC Op. Volt.	Article No.	Туре	Packing
_	110 — 415	110 — 130	100544	SHT31 110V-415V AC/110V-130V DC	1/96
-	48	48	100545	SHT31 48V AC/DC	1/96
-	12 — 24	12 — 24	100546	SHT31 12-24V AC/DC	1/96
1 CO	110 — 415	110 — 130	100547	SHT3111 110V-415V AC/110V-130V DC	1/96
1 CO	48	48	100548	SHT3111 48V AC/DC	1/96
1 CO	12 — 24	12 — 24	100549	SHT3111 12-24V AC/DC	1/96

Wiring diagrams





SHT31

SHT3111

Locking devices

- Possibility of locking installation devices in ON or OFF position
- Suitable for devices Ex9BH, Ex9BN, Ex9BD, Ex9BP, Ex9BL, Ex9BI, Ex9PN, Ex9IP, Ex9I125, Ex9I40, Ex9BT, SHT31, UVT31, OVT31
- · Padlock is not included



Function	Article No.	Туре	Packing
Locking by padlock	110193	l K-l	1/16/240



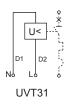
Accessories for Ex9B and Ex9PN

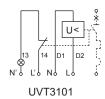
Undervoltage releases

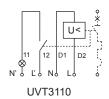


Aux. cont.	AC Op. Volt.	DC Op. Volt.	Article No.	Туре	Packing
_	220 — 240	_	100550	UVT31 220-240V AC	1/96
-	48	48	100551	UVT31 48V AC/DC	1/96
1 NC	220 — 240	=	100552	UVT3101 220-240V AC	1/96
1 NC	48	48	100553	UVT3101 48V AC/DC	1/96
1 NO	220 — 240	_	100554	UVT3110 220-240V AC	1/96
1 NO	48	48	100555	UVT3110 48V AC/DC	1/96

Wiring diagrams







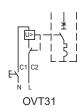
Overvoltage releases

· Overvoltage release is not a protection against transient overvoltage and does not supersede surge protection devices



Aux. cont.	AC Op. Volt.	DC Op. Volt.	Article No.	Туре	Packing
-	280V AC±5		100556	OVT31 280V AC±5%	1/96

Wiring diagram





Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Auxiliary and signal contact units AX31, AL31, AXL31

General parameters

With one device, there can be used up to three contact units with single CO contact or up to two contact units with 2 CO

Contact units can be combined in an arbitrary way

Contact units are mounted to the device from the left

In case of installed release unit(s), contact modules are mounted left to the release(s)

Auxiliary contacts synchronous with main contacts of the device

Signal contacts active on electrical tripping of the circuit breaker (tripping signal contacts)

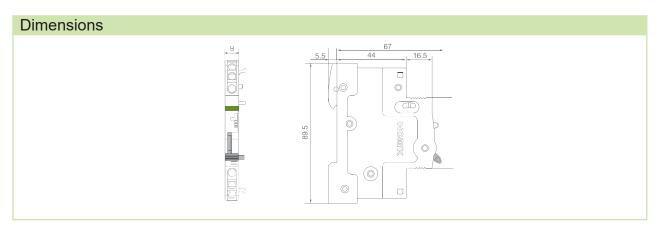
Electrical parameters				
	AX3111	AX3122	AL3111	AXL31
Contacts	1 changeover (CO)	2 changeover (CO)	1 changeover (CO)	1 CO + 1 CO
Contact function	auxiliary	auxiliary	signal	auxiliary + signal
Tested according to		IEC/EN 60947-1, I	EC/EN 60947-5-1	
Rated op. voltage		240/415 V AC, 2	24/48/130 V DC	
Min. op. voltage per contact U _{min}		24 V A	C/DC	
Rated frequency		50/6	0 Hz	
Rated op. current I _e AC	6 A (240 V), 3 A (415 V)			
Rated op. current I _e DC	6 A (24 V), 2 A (48 V), 1 A (130 V)			
Rated thermal current I _{th}	6 A			
Rated op. current I _e , ut. cat. AC-12	6 A (240 V), 3 A (415 V)			
Rated op. current I _e , ut. cat. DC-12	6 A (24 V), 2 A (48 V), 1 A (130 V)			
Rated impulse withstand voltage U _{imp}	4 kV (1.2/50 μs)			
Rated insulation voltage U _i	500 V			
Max. back-up fuse	10 A gG			
Conditional short circuit current I _k with max. back-up fuse		11	κA	

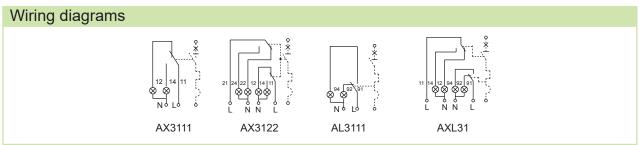
Mechanical parameters				
	AX3111	AX3122	AL3111	AXL31
Tripping indicator	ON-OFF-RESET	ON-OFF-RESET	ON-OFF-RESET	ON-OFF-RESET
Device width		9 n	nm	
Device height	89 mm			
Frame size	45 mm			
Mounting	easy fastening onto 35 mm device rail (DIN)			
Degree of protection	IP20			
Terminals	lift			
Terminal capacity	1 — 6 mm²			
Fastening torque of terminals		0.8 —	1 Nm	



Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Auxiliary and signal contact units AX31, AL31, AXL31







Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Shunt trip releases SHT31

General parameters

With one device, there can be used up to two units of release (shunt trip, undervoltage, overvoltage)

Release units can be combined in an arbitrary way

Release units are mounted to the device from the left

In case of installed contact module(s), release units are mounted left to the device, right to the contact unit(s)

Can be used for remote switch off

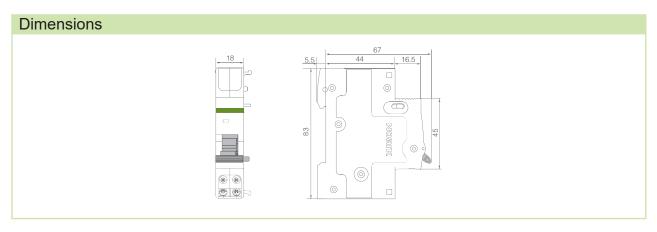
Electrical parameters				
	SHT31 110V-415V AC/110V-130V DC SHT3111 110V-415V AC/110V-130V DC	SHT31 48V AC/DC SHT3111 48V AC/DC	SHT31 12-24V AC/DC SHT3111 12-24V AC/DC	
Contacts	- 1 changeover (CO)	- 1 changeover (CO)	- 1 changeover (CO)	
Contact function	auxiliary	auxiliary	auxiliary	
Tested according to	IEC/EN 60947	7-1, IEC/EN 60947-5-1	·	
Rated operating voltage	110-415 V AC, 110-130 V DC	48 V AC/DC	12-24 V AC/DC	
Rated frequency		50/60 Hz		
Rated impulse withstand voltage U _{imp}	4 k\	/ (1.2/50 μs)		
Rated insulation voltage	500 V			
Tripping time	< 10 ms	< 10 ms	< 10 ms	
Min. duration of control pulse	8 ms	8 ms	8 ms	
Max. back-up fuse	10 A gG	10 A gG	10 A gG	
Min. op. voltage per AX contact U _{min}	24	V AC/DC		
Rated op. current I _e AC of AX contact	6 A (240) V), 3 A (415 V)		
Rated op. current I _e DC of AX contact	6 A (24 V), 2	A (48 V), 1 A (130 V)		
Rated thermal current I _{th} of AX cont.	6 A			
Rated op. current I _e , AC-12 of AX	6 A (240 V), 3 A (415 V)			
Rated op. current I _e , DC-12 of AX	6 A (24 V), 2 A (48 V), 1 A (130 V)			
Max. back-up fuse of AX	10 A gG			
Conditional short circuit current I _k with max. back-up fuse of AX		1 kA		

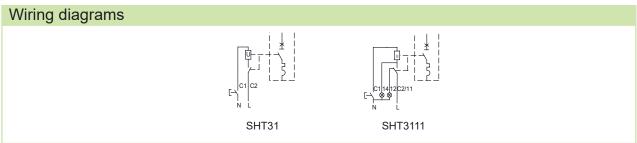
Mechanical parameters					
	SHT31 110V-415V AC/110V-130V DC SHT31 48V AC/DC SHT31 12-24V AC/DC SHT3111 110V-415V AC/110V-130V DC SHT3111 48V AC/DC SHT3111 12-24V AC/DC				
Tripping indicator	red-white	red-white	red-white		
Device width		18 mm			
Device height	83 mm				
Frame size	45 mm				
Mounting	easy fastening onto 35 mm device rail (DIN)				
Degree of protection	IP20				
Terminals	lift				
Terminal capacity	1 — 6 mm²				
Fastening torque of terminals	0.	8 — 1 Nm			



Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Shunt trip releases SHT31







Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Undervoltage releases UVT31

General parameters

With one device, there can be used up to two units of release (shunt trip, undervoltage, overvoltage)

Release units can be combined in an arbitrary way

Release units are mounted to the device from the left

In case of installed contact module(s), release units are mounted left to the device, right to the contact unit(s)

To switch connected device off in case of voltage drop

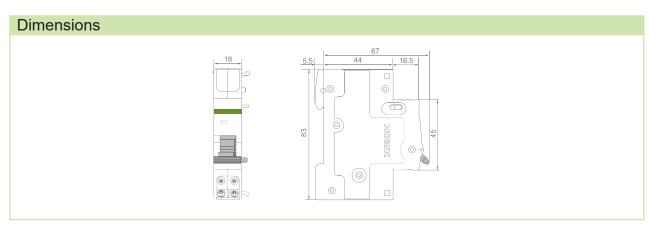
Electrical parameters				
	UVT31 220-240V AC UVT3101 220-240V AC UVT3110 220-240V AC	UVT31 48V AC/DC UVT3101 48V AC/DC UVT3110 48V AC/DC		
Contacts	- 1 normaly closed (NC) 1 normaly open (NO)	- 1 normaly closed (NC) 1 normaly open (NO)		
Contact function	auxiliary	auxiliary		
Tested according to	IEC/EN 60947-1	, IEC/EN 60947-5-1		
Rated operating voltage U _n	220-240 V AC	48 V AC/DC		
Rated frequency	50/60 Hz			
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	4 kV (1.2/50 μs)			
Rated insulation voltage	5	500 V		
Tripping time	< 10 ms	< 10 ms		
Making threshold	85 % U _n	85 % U _n		
Tripping threshold	35 % U _n	35 % U _n		
Min. op. voltage per AX contact $\mathbf{U}_{\mathrm{min}}$	24 V AC/DC			
Rated op. current I _e AC of AX contact	6 A (240 \	/), 3 A (415 V)		
Rated op. current I _e DC of AX contact	6 A (24 V), 2 A	(48 V), 1 A (130 V)		
Rated thermal current I _{th} of AX cont.	6 A			
Rated op. current I _e , AC-12 of AX	6 A (240 V), 3 A (415 V)			
Rated op. current I _e , DC-12 of AX	6 A (24 V), 2 A (48 V), 1 A (130 V)			
Max. back-up fuse of AX	10 A gG/gL			
Conditional short circuit current I _k with max. back-up fuse of AX		1 kA		

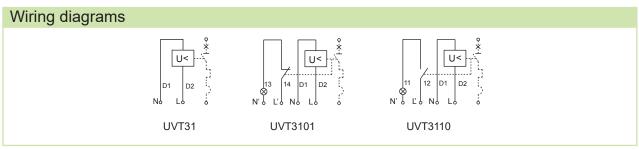
Mechanical parameters				
	UVT31 220-240V AC UVT3101 220-240V AC UVT3110 220-240V AC	UVT31 48V AC/DC UVT3101 48V AC/DC UVT3110 48V AC/DC		
Tripping indicator	red-white	red-white		
Device width	18 mm			
Device height	83 mm			
Frame size	45 mm			
Mounting	easy fastening onto 35 mm device rail (DIN)			
Degree of protection	IP20			
Terminals	lift			
Terminal capacity	1 — 6 mm²			
Fastening torque of terminals	0.8 -	— 1 Nm		



Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Undervoltage releases UVT31







Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Overvoltage releases OVT31

General parameters

With one device, there can be used up to two units of release (shunt trip, undervoltage, overvoltage)

Release units can be combined in an arbitrary way

Release units are mounted to the device from the left

In case of installed contact module(s), release units are mounted left to the device, right to the contact unit(s)

Overvoltage release is not a protection against transient overvoltage and does not supersede surge protection devices

To switch connected device off in case of increased voltage

Electrical parameters	
	OVT31 280V AC±5%
Contacts	•
Tested according to	IEC/EN 60947-1, IEC/EN 60947-5-1
Rated operating voltage U _n	280 V AC ±5 %
Rated frequency	50/60 Hz
Rated impulse withstand voltage \mathbf{U}_{imp}	4 kV (1.2/50 μs)
Rated insulation voltage	500 V
Tripping time	< 1 s (290 V), < 0,1 s (380 V)

Mechanical parameters	
	OVT31 280V AC±5%
Tripping indicator	red-white
Device width	18 mm
Device height	83 mm
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Terminals	lift
Terminal capacity	1 — 6 mm²
Fastening torque of terminals	0.8 — 1 Nm



Accessories for Ex9B, Ex9PN, Ex9BI, Ex9IP devices

Overvoltage releases OVT31

