# 3WL10 system overview

#### IEC AC ..

For a complete and verified configuration of your molded-case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

#### Basic units



Size 0

## Releases



Electronic trip units ETU (LI, LSI, LSIG)



Electronic trip units ETU (LSI, LSIG)

## Accessories



Communication and I/O modules



Rating plugs Breaker Connect modules



Metering function (Basic/ Advanced)



External ground fault transformers

## Main conductor connections



Fixed-mounted, withdrawable versions



Rear vertical/horizontal Front connections connections





Front connections, extended



Terminals for CU/AL cable connection

#### Motors



Spring charging motor

#### Accessories



Remote reset magnets Mechanical operating cycles counters

# Auxiliary releases / closing coils





Shunt releases, undervoltage releases

Closing coils

# Auxiliary switches and signaling switches





Auxiliary, alarm, and signaling switches

Position signaling switches

# Interlocking











Interlocking sets

Locking devices

Locking mechanisms

Door sealing frames

Protective covers

# Structure of the article numbers

# Basic configuration

For a complete and verified configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

			6 7	0	0 10	11	12	12	1.4	1.5	
		3WL10	6 7	8	9 10	11	12	13	14	15	
Danie weit e	up d FTII					_					
Basic unit a	ind ETU										
Rated current	630 A		0 6								
	800 A		0 8								
	1000 A		1 0								
	1250 A		1 2								
Breaking capacity	B Basic ( $I_{cu} = 42$	kA at 440 V)		1							
	N ECO ( $I_{cu} = 55 I$			2							
	S Standard (I <sub>cu</sub> =	66 kA at 440 V)		3							
Without ETU	Without metering fur	nction			АА						
ETU 3-series	Without metering	With ETU	ETU320 (LI)		АВ						
(without a	function		ETU350 (LSI)		A C						
communication link)			ETU360 (LSIG)		A D						
IIIIK)											
ETU 6-series		With ETU	ETU650 (LSI)		E						
			ETU660 (LSIG)		F						
	Without a communication link	Without metering f	function		Α	_					
	With a	Without metering f	function		В						
	communication link	Metering function		bottom	С						
		Basic	Voltage tap on		D						
		Metering function	Voltage tap on	bottom	Е						
		Advanced	Voltage tap on	top	F						
Number of poles	Fixed-mounted	3-pole				0					
	versions	4-pole	Neutral left			1					
			Neutral right			2					
	Withdrawable	3-pole				3					
		4-pole	Neutral left			4					
			Neutral right			5					
Connection	, 1)										
		and the second									
Installation type	Withdrawable	Without frame Rear vertical conne	ection				1				
		Rear vertical conne					2				
		Adapter for compre		rtion (rear)	<u> </u>		4				
		Front-accessible, ex				ction	5				
	Fixed-mounted	Rear vertical conne			2410 0011110		1				
	versions	Rear horizontal con					2				
		Front terminal for r	main circuit conn	ection			3				
		Circular conductor	terminals (front)				4				
		Front-accessible, ex	xtended terminal	for main o	ircuit conne	ction	5				

<sup>1)</sup> Broadened connections available as accessories.

Manual operating mechanism   Spring charging motor   24 30 V ACDC   1   1   2   3   3   4   4   4   4   4   4   4   4			3WL10	6 7	8	9 10	11	12	13	14	15	16
Spring charging motor   24 30 V ACIDC   3   3   4   4   4   4   4   4   4   4	Motor											
Spring charging motor   24 30 V ACIDC   3   3   4   4   4   4   4   4   4   4	Operating	Manual operating mechan	ism						0			
Auxiliary releases, closing coils   Auxiliary releases, closing coils (CC)   3				C.								
110 V ACIDIC   230 V ACIDIC   3		- pggg										
Closing coil (CC), remote reset magnet (RR)												
Closing coil (CC), remote reset magnet (RR)			230 V AC/DC									
remote reset magnet (RR)	Auxiliary re	leases, closing of	coils							П	П	
remote reset magnet (RR)	Closing coil (CC),	Without closing coil (CC),	without remote res	et magnet (	RR)					Α		
ABV ACIDC   D   D   Color										В		
Closing coil (CC) and additionally a remote reset magnet (RR)   24 V ACIDC   10 V	magnet (RR)				30 V AC/DC					С		
110 120 V ACIDC   F   120 127 V ACIDC   G   120 127 V ACIDC   G   120 127 V ACIDC   H   120 V ACIDC   H   120 V ACIDC   H   120 V ACIDC   U   120 V ACIDC   U   120 V ACIDC   M   120 V ACIDC					48 V AC/DC					D		
120 127 V ACIDC   G   220 240 V ACIDC   H					60 V AC/DC					Е		
220 240 W ACIDC					110 120	V AC/DC				F		
240 250 V ACIDC					120 127	V AC/DC				G		
Closing coil (CC) and additionally a remote reset magnet (RR)   24 V AC/DC   1					220 240	V AC/DC						
A   A   A   A   A   A   A   A   A   A					240 250	V AC/DC						
220 V ACIDC												
Mithout 2nd auxiliary release   With undervoltage release (UVR)   24 V AC/DC   B   B   B   B   B   B   B   B   B												
release         With undervoltage release (UVR)         24 V AC/DC         C           30 V AC/DC         C         48 V AC/DC         D           60 V AC/DC         E         110 120 V AC/DC         E           120 127 V AC/DC         H         C           220 240 V AC/DC         H         J           380 400 V AC/DC         J         J           415 440 V AC/DC         L         W           With undervoltage release (UVR), delayable with external time-delay device; Scope of supply: UVR + time-delay device         110 127 V AC/DC         M           Scope of supply: UVR + time-delay device         220 250 V AC/DC         P           With 2nd shunt release (ST2)         24 V AC/DC         Q           48 V AC/DC         R         R           48 V AC/DC         S         S           60 V AC/DC         T         T           110 120 V AC/DC         W         W           220 240 V AC/DC         W         W           220 240 V AC/DC         W         W           220 250 V AC/DC         W         W           220 250 V AC/DC         W         W           240 V AC/DC         30 V AC/DC         1 <tr< td=""><td></td><td></td><td></td><td></td><td>220 V AC/D</td><td>С</td><td></td><td></td><td></td><td>М</td><td></td><td></td></tr<>					220 V AC/D	С				М		
Section   Sect		Without 2nd auxiliary rele	ase								Α	
A8 V ACIDC	release	With undervoltage release	(UVR)		24 V AC/DC							
10 120 V AC/DC					30 V AC/DC							
110 120 V AC/DC					48 V AC/DC							
120 127 V ACIDC   G												
1												
A												
380 400 V AC/DC												
A15 440 V AC/DC												
With undervoltage release (UVR), delayable with external time-delay device; Scope of supply: UVR + time-delay device   110 127 V AC/DC												
Comparison of Supply: UVR + time-delay device   110 127 V AC/DC   220 250 V AC/DC   P		Med to the										
Scope of supply: UVR + time-delay device   220 250 V AC/DC   P												
With 2nd shunt release (ST2)    24 V AC/DC												
30 V AC/DC												
A8 V AC/DC   S   60 V AC/DC   T   110 120 V AC/DC   U   120 127 V AC/DC   V   220 240 V AC/DC   W   X   S   W   W   W   W   W   W   W   W   W		With Zha shant release (5	12)									
Shunt release   Without 1st auxiliary release   Without 1st auxiliary release   Shunt release (ST)   24 V AC/DC   220 240 V AC/DC   248 V AC/DC   259											S	
110 120 V AC/DC												
120 127 V AC/DC												
220 240 V AC/DC												
1st auxiliary release         0           Shunt release (ST)         24 V AC/DC         1           30 V AC/DC         2           48 V AC/DC         3           60 V AC/DC         4           110 120 V AC/DC         5           120 127 V AC/DC         6           220 240 V AC/DC         7												
Shunt release (ST)       24 V AC/DC       1         30 V AC/DC       2         48 V AC/DC       3         60 V AC/DC       4         110 120 V AC/DC       5         120 127 V AC/DC       6         220 240 V AC/DC       7											Х	
Shunt release (ST)       24 V AC/DC       1         30 V AC/DC       2         48 V AC/DC       3         60 V AC/DC       4         110 120 V AC/DC       5         120 127 V AC/DC       6         220 240 V AC/DC       7	1st auxiliary release	Without 1st auvilian/ relea	SP									0
30 V AC/DC 2 48 V AC/DC 3 60 V AC/DC 4 110 120 V AC/DC 5 120 127 V AC/DC 6 220 240 V AC/DC 7	13t duxillary release		JC		24 V AC/DC							
48 V AC/DC 3 60 V AC/DC 4 110 120 V AC/DC 5 120 127 V AC/DC 6 220 240 V AC/DC 7 240 250 V AC/DC 8												2
60 V AC/DC 4  110 120 V AC/DC 5  120 127 V AC/DC 6  220 240 V AC/DC 7  240 250 V AC/DC 8												3
110 120 V AC/DC       5         120 127 V AC/DC       6         220 240 V AC/DC       7         240 250 V AC/DC       8												4
120 127 V AC/DC       6         220 240 V AC/DC       7         240 250 V AC/DC       8												5
220 240 V AC/DC 7 240 250 V AC/DC 8												6
240 250 V AC/DC 8					220 240	V AC/DC						7
					240 250	V AC/DC						8

System overview, page 1/20

#### Configure your air circuit breaker easily online at

www.siemens.com/lowvoltage/3wl10-configurator

appropriate order code(s)	Id "-Z" to the complete Article N	lo. and indicate the	3WL.	Z	Ord	der d	ode
Mounting options fo In the basic configuration, tl	pasic configuration or fixed mounting the fixed-mounted circuit breaker is m If it is to be extended with functional						
Mounting options for fixed mounting 1)	Floor mounting		Mounting support	standard	A	0 5	7 6
g	Rear panel mounting onto mountin	n plate	Mounting support		S	5 5	7
Rating plugs  • The electronic trip units are circuit breaker current ( <i<sub>n m  • To downrate the circuit brea</i<sub>	equipped as standard with a rating pi ax). The rated current of the selected sker, the rated current of less than I <sub>n n</sub> activated using rating plugs (L = OFF	ug for setting the rated currer ating plug must be less than o <sub>ax</sub> is selected for the rating plu	or equal to I <sub>n max</sub> .				
Rating plug	For setting the rated current $I_n$	or the protection).	For all ETU	400 A	В	0	4
rating plug	roi setting the rated current in		FOI dil ETO	630 A	В	0	6
				800 A	В	0	l
				1000 A	В	1	l
	For setting the rated current I <sub>n</sub> ,		For ETU 6-series	400 A		0	l.
	with overload protection L = OFF		TOI LTO 0-3eries	630 A		0	l
	·			800 A		0	H
				1000 A		1	H
				1250 A	÷	╁	l
	For setting the rated current I <sub>n</sub> ,		For ETU660 only	400 A	G	0	H
	For enabling of the residual current	protection function.	For E10000 only	630 A	G	0	H
	The residual current function is only			800 A	G	0	H
	Advanced metering function.			1250 A	G	1	
<ul> <li>When using an IOM040 digi</li> </ul>	communication modules can be used tal I/O module (Z option K56), only o	e communication module car	n be used.				
Communication modules	COM040	PROFIBUS			- F	0	2
	COM041	PROFINET			F	0	١
	COM043	Modbus TCP			F	1	ľ
Breaker Connect mo		Modbus RTU	for external 24 V DC po	wer supply of the	F		
When a circuit breaker with electronic components is als	so supplied ready installed.		·				
<ul> <li>When a circuit breaker with electronic components is als</li> <li>By means of this Z option, the</li> </ul>	so supplied ready installed. ne Breaker Connect module for 24 V I		·		E.	2_	6
<ul> <li>When a circuit breaker with electronic components is als</li> </ul>	so supplied ready installed. ne Breaker Connect module for 24 V I 110 240 V AC/DC		·		F	2	é

<sup>&</sup>lt;sup>1)</sup> These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall.

<sup>2)</sup> Not possible in connection with or as an alternative to the mounting support, standard (A07)

appropriate order code(	add "-Z" to the complete Article N s).	No. and indicate the	e 3WLZ	Ord	der c	ode
Accessories for	the motor					
Mechanical operating cycle	s counter 5-digit			С	0	1
Weenamear operating cycle	s counter, s aigit				ľ	1
Auxiliary switch	es and signaling swit	ches				
<ul> <li>For currents &lt;100 mA for I</li> <li>The auxiliary/signaling swi</li> <li>minimum load above 1</li> </ul>	itches for currents >100 mA and up to 4 PLC connections, these auxiliary and sig tches for 24 V DC digital signals are des mA at 5 V DC and a acity of 100 mA at 24 V DC.	gnaling switches can be		l		
Position signaling switches	for guide frames 1)	2 CO   2 CO   2 CO (co	onnected   test   disconnected position)	К	5	5
Signaling switches	Ready-to-close signaling switches		1 CO digital, 24 V DC	К	5	0
	Tripped signaling switches (S24)		1 CO digital, 24 V DC	K	5	3
	Spring charged signaling switches (	S21)	1 CO digital, 24 V DC	K	5	4
Auxiliary switches	ON / OFF AUX	4 CO digital, 24 V DC		к	5	1
		2 CO 400 V AC + 2 CO	O digital, 24 V DC	K	5	2
Locking, blockin	ng and interlocking					
	9					
Locking devices 1)	To prevent movement of	Cylinder lock	Made by Ronis	R	7	8
Locking devices 1)	5	Cylinder lock For no more than 3 p		R R	7 6	8
Locking devices 1)  Locking mechanisms	To prevent movement of	For no more than 3 p		_		
Locking mechanisms	To prevent movement of withdrawable circuit breaker  To prevent movement to disconnect	For no more than 3 p	oadlocks, 8 mm	R R	6	5 9
-	To prevent movement of withdrawable circuit breaker	For no more than 3 parted position  Cylinder lock, made b	oadlocks, 8 mm	R	6 7	5
Locking mechanisms	To prevent movement of withdrawable circuit breaker  To prevent movement to disconnect  To prevent unauthorized activation	For no more than 3 parted position  Cylinder lock, made b	oy Ronis adlocks, plastic 4 mm	R R S	6 7 0	5 9 8
Locking mechanisms	To prevent movement of withdrawable circuit breaker  To prevent movement to disconnect  To prevent unauthorized activation	For no more than 3 p ted position Cylinder lock, made b For no more than 3 p	oadlocks, 8 mm  oy Ronis oadlocks, plastic 4 mm oadlock, metal 7 mm	R R S	6 7 0 2	5 9 8 2
Locking mechanisms  Locking devices	To prevent movement of withdrawable circuit breaker  To prevent movement to disconnect  To prevent unauthorized activation	For no more than 3 p ted position Cylinder lock, made to For no more than 3 p For no more than 1 p For no more than 2 p	oy Ronis oy Ronis oadlocks, plastic 4 mm oadlocks, metal 7 mm oadlocks, metal 8 mm	R R S S S	6 7 0 2 2 2	5 9 8 2 3 7
Locking mechanisms	To prevent movement of withdrawable circuit breaker  To prevent movement to disconnect  To prevent unauthorized activation in the operator panel (safe OFF)	For no more than 3 p ted position Cylinder lock, made to For no more than 3 p For no more than 1 p For no more than 2 p	oy Ronis oy Ronis oadlocks, plastic 4 mm oadlocks, metal 7 mm oadlocks, metal 8 mm oadlocks, plastic 4 mm	R R S S	6 7 0 2 2	5 9 8 2 3
Locking mechanisms  Locking devices	To prevent movement of withdrawable circuit breaker  To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF)  For mechanical ON and/or OFF on	For no more than 3 p ted position  Cylinder lock, made b For no more than 3 p For no more than 1 p For no more than 2 p  For no more than 3 p  For no more than 1 p	oy Ronis oy Ronis oadlocks, plastic 4 mm oadlocks, metal 7 mm oadlocks, metal 8 mm oadlocks, plastic 4 mm	R R S S S S	6 7 0 2 2 0	5 9 8 2 3 7
Locking mechanisms  Locking devices	To prevent movement of withdrawable circuit breaker  To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF)  For mechanical ON and/or OFF on	For no more than 3 pated position  Cylinder lock, made to For no more than 3 pater for no more than 1 pater for no more than 2 pater for no more than 1 pater for no more than 1 pater for no more than 2 pater for no more for no more than 2 pater for no more for no more than 2 pater for no more for n	padlocks, 8 mm  py Ronis padlocks, plastic 4 mm padlocks, metal 7 mm padlocks, metal 8 mm padlocks, plastic 4 mm padlocks, plastic 4 mm padlocks, metal 7 mm	R R S S S S S	6 7 0 2 2 2 0 4	5 9 8 2 3 7 2 3

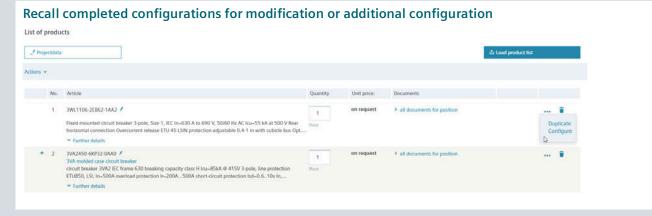
<sup>1)</sup> Can be used not only when guide frame is ordered separately, but also with complete order (breaker + guide frame).

# Online configurator highlights

## www.siemens.com/lowvoltage/configurators



# Product list stores multiple configurations and can transfer them collectively to the shopping cart List of products / Projectdata Actions > No. Article 1 3WL1106-2E862-1AA2 / Fixed-mounted circuit breaker 3-pole, Size 1, IEC In-630 A to 690 V, 50/60 Hz AC tou-55 kA at 500 V Rear horizontal coincentoon Overcurrent release ETU 45 LSN protection adjustable 0.4-1 in with cubicle bus Opt... \* Further details + 2 3VA2450-6K992-0AA0 / 3VA molitide case circuit breaker 450 breaking capacity class H Iou-85kA @ 415V 3-pole, line protection ETU850, LS, In-500A overload protection Ir-200A. 500A short-circuit protection Isd-0.6.10x In,... \* Further details

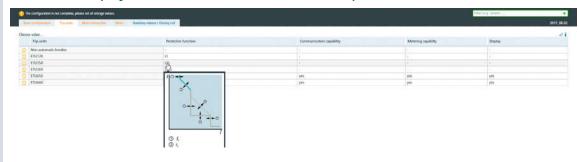




## www.siemens.com/lowvoltage/3wl10-configurator

#### Download an ePlan Selector for 3WL10 The configuration is complete. You can order this product. Preview Area Model View | Wire frame view | 3D view | Unit Wiring Diagram IEC Download – quick links > 3WI 1010-2CF41-0AA0 3WL1010-2CE41-0AA0 Documentation and reporting X Download – all CAD formats Choose languages for the data sheet deutsch ▼ View Area Model View View option | Isometric Download selection of document types File type Joint Photography Experts Group (\* .jpg) □ ↓ Ppr Datasheets (PDF) Selection of download format All in a ZIP file Download – all documents ☐ 3WL1010-2CE41-0AA0 ☐ ↓ Por Datasheet (PDF) ☐ ♣ EPLAN Macro (EDZ) Siemens AG | Application information

#### Mouseover display of characteristic curves to show the protection function



#### Direct entry of an already known MLFB or parts of an MLFB



# Guide frames

#### Guide frames for ordering separately without circuit breakers



- Guide frames without breakers up to 1250 A
- Note: All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable circuit breaker and defined there by means of Z options, and are included with the switching device. The PSS standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

Number of poles	Connection type	Article No.
3-pole	Rear vertical	3VW8112-0AA01
	Rear horizontal	3VW8112-0AB01
	4× 240 mm <sup>2</sup> Cu/Al cable connection, for compression lugs	3VW8112-0AD01
	Front connection bars, extended	3VW8112-0AE01
4-pole	Rear vertical	3VW8112-0BA01
	Rear horizontal	3VW8112-0BB01
	4× 240 mm <sup>2</sup> Cu/Al cable connection, for compression lugs	3VW8112-0BD01
	Front connection bars, extended	3VW8112-0BE01

To specify the options, add "-7" to the complete Article No. and indicate the appropriate order code(s).  3VW8Z			_	der co	ode
Locking, blocking a	nd interlocking				
Locking devices	To prevent movement of	Cylinder lock, made by Ronis	R	7	8
	withdrawable circuit breaker	For no more than 3 padlocks, 8 mm	R	6	5
Locking mechanisms	To prevent movement to disco	onnected position (only in combination with R78 or R65)	R	7	9
Auxiliary/signaling s	switches				
Position signaling switch PSS for guide frame	For 24 V DC digital signals,	2 CO   2 CO   2 CO (connected   test   disconnected position)	K	5	5

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard. For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified. The auxiliary/signaling switches for 24 V DC digital signals are designed for

- a minimal load from 1 mA at 5 V DC and
   a maximum breaking capacity of 100 mA at 24 V DC.

# Electronic trip units ETU and accessories

Electronic trip unit	ts (ETU)				
	Version	With communications / metering function / enhanced protection functions	Туре	Protective function	Article No.
	With rotary coding switches	No	ETU320	LIN	3VW9011-5AA00
E IO III			ETU350	LSIN	3VW9012-5AA00
9			ETU360	LSING	3VW9012-7AA00
	With display	Yes	ETU650	LSIN	3VW9017-5AA00
			ETU660	LSING	3VW9017-7AA00
Metering function	s for ETU650 or ETU660				
1000	Description	Protective function / version	Arrangemen	t	Article No.
0	Metering function	MF Basic	-		3VW9011-0AT01
3		MF Advanced	-		3VW9011-0AT04
	Set of cables for voltage tap	For 4-pole circuit breakers with neutral right	Top or botton	า	3VW9011-0AT08
	for MF	For 4-pole circuit breakers with neutral left	Тор		3VW9011-0AT75
0			Bottom		3VW9011-0AT76
		For 3-pole circuit breakers	Тор		3VW9011-0AT72
			Bottom		3VW9011-0AT73
External current tr	ansformers for N conductor				
011	Accessory for	Purpose			Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	For 3-pole circuit breakers only			3VW9011-0AA30
External current tr	ansformers for grounded tra	ansformer star point			
	Accessory for	G <sub>ret</sub> (ground return)			Article No.
	ETU660	100 A			3VW9011-0GF30
		250 A			3VW9011-0GF31
Summation curren	nt transformers external Rc-C	T for residual current measurement			
	Only with MF Advanced m	etering function and Rc rating plug			
	Accessory for	Purpose			Article No.
	ETU660	For external residual current measurement			3VW9011-0RC30
Remote reset mag	nets RR for the circuit break	<u> </u>			
		for resetting the circuit breaker after tripping as a	result of overcu	rrent conditions	
	Accessory for	Voltage			Article No.
	ETU320, ETU350, ETU360,	24 V DC			3VW9011-0AK03
CO.	ETU650, ETU660	110 V AC/DC			3VW9011-0AK05
		250 V AC/DC			3VW9011-0AK06
Replacement batte	eries for electronic trip units	ETU			
	Accessory for				Article No.
	ETU320, ETU350, ETU360, ET	TU650, ETU660			3VW9011-0AT38

# Electronic trip units ETU and accessories

#### Rated current module / rating plug



Only one module is possible per circuit breaker.
 Accessory for Version
 ETU320, ETU350, ETU360, Rating plugs for setting (

Accessory for	version	Kated current I <sub>n</sub>	Article No.
ETU320, ETU350, ETU360,	Rating plugs for setting (< I <sub>n max</sub> )	400 A	3VW9011-0AA53
ETU650, ETU660	the rated current I <sub>n</sub>	630 A	3VW9011-0AA55
		800 A	3VW9011-0AA56
		1000 A	3VW9011-0AA57
		1250 A	3VW9011-0AA58
ETU 6-series	Rating plugs without overload protection	400 A	3VW9011-0LF53
	(L = OFF) and for setting ( $<$ I <sub>n max</sub> ) the rated current I <sub>n</sub>	630 A	3VW9011-0LF55
		800 A	3VW9011-0LF56
		1000 A	3VW9011-0LF57
		1250 A	3VW9011-0LF58
ETU660	Rating plug Rc for ETU660,	400 A	3VW9011-0RC53
	for enabling the residual current protection	630 A	3VW9011-0RC55
	function and setting (< I <sub>n max</sub> ) of the rated	800 A	3VW9011-0RC56
	current I <sub>n</sub> . The residual current function is only possible with the MF Advanced metering function	1250 A	3VW9011-0RC58

## CB bus modules - communication modules



- · Contains the communication module
- No more than two different communication modules can be used at the same time.
- When using a digital I/O module IOM040 (Z option K56) only one communication module can be used.
- Can only be used with ETUs of the 6-series and a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected.

Communication modules	Protocol	Article No.
COM040	PROFIBUS	3VW9011-0AT15
COM041	PROFINET	3VW9011-0AT14
COM043	Modbus TCP	3VW9011-0AT16
COM042	Modbus RTU	3VW9011-0AT17

#### CB bus modules - I/O modules external IOM300



• For snapping onto standard mounting rail

A	Accessory for	Maximum switching current per contact	Inputs	Outputs	Article No.
E	TU 6-series	<ul> <li>2 A at DC ≤30 V</li> <li>0.8 A at 50 V DC</li> <li>0.2 A at 150 V DC</li> <li>4 A at 250 V AC</li> </ul>	11	10	3VW9011-0AT20

#### CB bus modules - I/O modules internal IOM040



• When using a digital I/O module IOM040, only one communication module can be used.

Accessory for	Maximum switching current per contact	Inputs	Outputs	Article No.
ETU 6-series	<ul> <li>2 A at DC ≤30 V</li> <li>0.8 A at 50 V DC</li> <li>0.2 A at 150 V DC</li> <li>4 A at 250 V AC</li> </ul>	2	2	3VW9011-0AT30

#### Actuator module COM ACT



- $\bullet~$  For switching the circuit breaker on/off remotely via communication
- Actuation of the closing coil (CC) and the 1st shunt release (ST)
- Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt release.
- Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration.

Accessory for	Article No.
FTII 6-series	3VW9011-0AT10

#### Breaker Connect modules



• For the external power supply for the electronics components

Voltage	Article No.
110 240 V AC/DC	3VW9011-0AT06
24 48 V DC	3VW9011-0AT07

#### Auxiliary contact signaling switch for communications interface



- Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions.
- Can only be used in combination with communication module.
- Can be combined with standard position signaling switches or ready-to-close signaling contacts.
- Note: Both signaling switches are automatically included in the basic circuit breaker if the communications interface of the ETU 6-series is selected (COM PSS only with withdrawable versions).

Function	Article No.
Ready-to-close signaling switch for communication COM RTC	3VW9011-0AT11
Position signaling switch COM PSS (for withdrawable breakers only)	3VW9011-0AT12

## Test devices and Breaker Data Adapters



Can be used for all ETU 3-series and 6-series

can be used for an Ero's series and o series		
Function	Туре	Article No.
Test device For the trip test via ETU and tripping solenoid including release The ETU and the tripping solenoids are activated by means of a battery built into the test device. On activation in the ETU 6-series, the parameters can be configured on the display	TD310	3VW9011-0AT32
Breaker Data Adapter  • As gateway for parameterization of the ETU with powerconfig  • For generation of a report of the set parameters with powerservice	TD410	3VW9011-0AT34
Test devices and Breaker Data Adapters  As gateway for parameterization of the ETU with powerconfig  Testing a tripping operation using powerconfig  For use with the powerservice software  Testing of the basic protection functions LSING  Testing of the enhanced protection functions  Test data storage  Readout of ETU buffer  Generation of a report of the set parameters	TD420	3VW9011-0AT33

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# Accessories and spare parts

#### **Accessories for connection**

t terminals f		nections acc. to IEC 60947-2			
	Fixing	separately for top and bottom  Version	Mounted onto	Number of poles / quantity	Article No.
	Fixed-mounted	Front terminals for main circuit connection		3-pole / 3 units	3VW9011-0AL01
(1) (1) (1) (1) (1) (1)				4-pole / 4 units	3VW9011-0AL02
		Extended main terminals,	Front terminals for main	3-pole / 3 units	3VW9011-0AL77
		including insulating plate and phase barriers, standard	circuit connection	4-pole / 4 units	3VW9011-0AL78
***		Broadened main terminals, including insulating plate and	Front terminals for main circuit connection, top	3-pole / 3 units	3VW9011-0AL73
यो स		extended phase barriers	Front terminals for main circuit connection, bottom	3-pole / 3 units	3VW9011-0AL75
			Front terminals for main circuit connection, top, bottom	4-pole / 4 units	3VW9011-0AL74
6 E 277	Withdrawable	Front-accessible terminals for main circuit	Flange of the guide frame	3-pole / 3 units	3VW9011-0AN0
		connection		4-pole / 4 units	3VW9011-0AN0
		Broadened main circuit connections	Front-accessible terminals	3-pole / 3 units	3VW9011-0AN7
1 50			for main circuit connection	4-pole / 4 units	3VW9011-0AN7
terminals fo	r main circuit conn	ections acc. to IEC 60947-2			
		separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
	Fixed-mounted	Rear terminals for main circuit		3-pole / 3 units	3VW9011-0AL32
		connection; rotatable for horizontal / vertical connection, including terminal cover		4-pole / 4 units	3VW9011-0AL33
	Withdrawable	Rear terminals for main circuit		3-pole / 3 units	3VW9011-0AN3
4		connection; rotatable for horizontal / vertical connection, including terminal cover		4-pole / 4 units	3VW9011-0AN3
(*)		Broadened main circuit connections	Rear horizontal main	3-pole / 3 units	3VW9011-0AN7
			connections	4-pole / 4 units	3VW9011-0AN7
Al cable conn					
		separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
Til to.	Fixed-mounted	Circular conductor terminals 4 × 240 mm <sup>2</sup>	Front terminals for main	3-pole / 3 units	3VW9011-0AL71
00 00		for front cable connection, including insulating plate and high, extended terminal cover	circuit connection	4-pole / 4 units	3VW9011-0AL72
18 4	Withdrawable	Set of circular conductor connection	Rear vertical main	3-pole / 3 units	3VW9011-0AN7
J		pieces 4 × 240 mm² for compression lugs, rear cable connection	connections	4-pole / 4 units	3VW9011-0AN72
liary supply	connectors in push				
nd l		uctor terminal in push-in version for upgrading lways fitted at the factory with the exact num			
	Version				Article No.

#### **Accessories for connection**

#### Terminal covers for fixed circuit breakers · Finger-proof for front main circuit connection for fixed-mounting · Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately. Version Number of poles / quantity Article No. 3-pole / 2 units 3VW9723-0WD30 Standard 4-pole / 2 units 3VW9724-0WD40 3-pole / 2 units 3VW9723-0WF30 Extended 4-pole / 2 units 3VW9724-0WF40 Phase barriers for fixed breakers · Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately. For operating voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional. Height Number of poles / quantity Article No. 100 mm 3-pole / 4 units 3VW9723-0WA00 (Standard) 4-pole / 6 units 3VW9724-0WA10 3VW9723-0WA01 200 mm 3-pole / 4 units (extended) 4-pole / 6 units 3VW9724-0WA11 Support for mounting the fixed-mounted breaker on the floor · For fixed-mounted versions Version Article No. **Purpose** Mounting support standard 3VW9011-0BB51 (circuit breaker feet) (= Z option A07) Mounting support extended • Fixation for external auxiliary switches AUX 15 W (3VW9011-0AG15) 3VW9011-0BB52 (circuit breaker feet), • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) including mechanical • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) transmission of switch Mutual mechanical interlockings for 3WL/3VA (for 3VW9011-0BB21) position on circuit breaker side panel (= Z option S56) Extension kit for modification of the side wall of the fixed-mounted breaker · For fixed-mounted versions Rear wall fixing on mounting plate • For modification for mechanical transmission of switch position on circuit breaker side panel (= Z option S57) Version Article No. Extension kit for side wall • Fixation for external auxiliary switches AUX 15 W (3VW9011-0AG15) 3VW9011-0BB53 • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) • Mutual mechanical interlockings for 3WL/3VA (for 3VW9011-0BB21)

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# Accessories and spare parts

#### Motor

#### Spring charging motor (MO) • For automatic charging of the stored-energy operating mechanism Article No. 24 ... 30 V AC/DC 3VW9011-0AF01 48 ... 60 V AC/DC 3VW9011-0AF02 100 ... 130 V AC/DC 3VW9011-0AF03 220 ... 250 V AC/DC 3VW9011-0AF04 Mechanical operating cycles counters In combination with a spring charging motor5 digits

uxiliary rele	•		
Closing coils / sh	nunt releases CC / ST		
	Voltage		Article No.
-	24 V AC/DC		3VW9011-0AD01
	30 V AC/DC		3VW9011-0AD02
	48 V AC/DC		3VW9011-0AD03
	60 V AC/DC		3VW9011-0AD04
	110 120 V AC/DC		3VW9011-0AD05
	120 127 V AC/DC		3VW9011-0AD06
	220 240 V AC/DC		3VW9011-0AD07
	240 250 V AC/DC		3VW9011-0AD08
	380 400 V AC		3VW9011-0AD17
	415 440 V AC		3VW9011-0AD18
320 function	test unit for closing coil / shunt release		
	Version		Article No.
	For all closing coils / shint releases		3\/\W9011-0AT31
,	For all closing coils / shunt releases		3VW9011-0AT31
uxiliary/signali	ng switches		3VW9011-0AT31
uxiliary/signali		a	3VW9011-0AT31
uxiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC or and above 1 mA at 5 V DC and	a	3VW9011-0AT31  Article No.
ixiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC or minimum load above 1 mA at 5 V DC and or maximum breaking capacity of 100 mA at	a 24 V DC.	
ixiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC or and a minimum load above 1 mA at 5 V DC and a maximum breaking capacity of 100 mA at Type	a . 24 V DC. Contacts	Article No.
exiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC or and a minimum load above 1 mA at 5 V DC and a maximum breaking capacity of 100 mA at Type	a 24 V DC.  Contacts  1 CO standard	Article No. 3VW9011-0AH01 3VW9011-0AH02
ixiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC or and the image of the	a 24 V DC.  Contacts 1 CO standard 1 CO digital	Article No. 3VW9011-0AH01 3VW9011-0AH02 3VW9011-0AG01
ixiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC or and the image of the	a 24 V DC.  Contacts  1 CO standard  1 CO digital  4 CO standard	Article No. 3VW9011-0AH01 3VW9011-0AG01 3VW9011-0AG01
ixiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC  - minimum load above 1 mA at 5 V DC and  - maximum breaking capacity of 100 mA at  Type  Ready-to-close signal RTC  Auxiliary switch ON/OFF AUX	a 24 V DC.  Contacts  1 CO standard  1 CO digital  4 CO standard  4 CO digital	<b>Article No.</b> 3VW9011-0AH01
ıxiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC or and the image of the	a 24 V DC.  Contacts  1 CO standard  1 CO digital  4 CO standard  4 CO digital  2 CO standard + 2 CO digital  15 CO standard	Article No.  3VW9011-0AH01  3VW9011-0AH02  3VW9011-0AG01  3VW9011-0AG02
exiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC  - minimum load above 1 mA at 5 V DC and  - maximum breaking capacity of 100 mA at  Type  Ready-to-close signal RTC  Auxiliary switch ON/OFF AUX  External auxiliary switch ON/OFF AUX	a 24 V DC.  Contacts  1 CO standard  1 CO digital  4 CO standard  4 CO digital  2 CO standard + 2 CO digital	Article No.  3VW9011-0AH01  3VW9011-0AG01  3VW9011-0AG02  3VW9011-0AG03  3VW9011-0AG03
exiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC  - minimum load above 1 mA at 5 V DC and  - maximum breaking capacity of 100 mA at  Type  Ready-to-close signal RTC  Auxiliary switch ON/OFF AUX	a 24 V DC.  Contacts  1 CO standard  1 CO digital  4 CO standard  4 CO digital  2 CO standard + 2 CO digital  15 CO standard  15 CO standard  1 CO standard	Article No.  3VW9011-0AH02  3VW9011-0AG02  3VW9011-0AG02  3VW9011-0AG03  3VW9011-0AG05  3VW9011-0AG06
ıxiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC  - minimum load above 1 mA at 5 V DC and  - maximum breaking capacity of 100 mA at  Type  Ready-to-close signal RTC  Auxiliary switch ON/OFF AUX  External auxiliary switch ON/OFF AUX  Tripped signaling switch S24	a 24 V DC.  Contacts  1 CO standard  1 CO digital  4 CO standard  4 CO digital  2 CO standard + 2 CO digital  15 CO standard  15 CO digital  1 CO standard  1 CO digital	Article No.  3VW9011-0AH02  3VW9011-0AG02  3VW9011-0AG02  3VW9011-0AG02  3VW9011-0AG06  3VW9011-0AG06  3VW9011-0AH14
uxiliary/signali	ng switches  • The auxiliary/signaling switches for 24 V DC  - minimum load above 1 mA at 5 V DC and  - maximum breaking capacity of 100 mA at  Type  Ready-to-close signal RTC  Auxiliary switch ON/OFF AUX  External auxiliary switch ON/OFF AUX	a 24 V DC.  Contacts  1 CO standard  1 CO digital  4 CO standard  4 CO digital  2 CO standard + 2 CO digital  15 CO standard  15 CO standard  1 CO standard	Article No.  3VW9011-0AH02  3VW9011-0AG02  3VW9011-0AG02  3VW9011-0AG02  3VW9011-0AG02  3VW9011-0AG04

3VW9011-0AH12

(connected | test | disconnected position) standard

(connected | test | disconnected position) digital

2 CO | 2 CO | 2 CO

3VW9011-0AH07

(for withdrawable devices)

## Auxiliary releases, closing coils

Fixing for extern	al auxiliary switches AUX 15 CO	
Wh	Version	Article No.
1	For fixed-mounted circuit breakers with rear panel or floor mounting (in combination with Z option S56 or S57)	3VW9011-0AG15
	For guide frames	3VW9011-0AG17
Undervoltage re	eases UVR	
	Voltage	Article No.
A CONTRACTOR OF THE PARTY OF TH	24 V AC/DC	3VW9011-0AE01
	30 V AC/DC	3VW9011-0AE02
2	48 V AC/DC	3VW9011-0AE03
jan .	60 V AC/DC	3VW9011-0AE04
	110 120 V AC/DC	3VW9011-0AE05
	120 127 V AC/DC	3VW9011-0AE06
	220 240 V AC/DC	3VW9011-0AE07
	240 250 V AC/DC	3VW9011-0AE08
	380 400 V AC	3VW9011-0AE17
	415 440 V AC	3VW9011-0AE18
External time-de	lay device for undervoltage release	
	Voltage	Article No.
	24 30 V AC/DC	3VW9011-0AE10
THE	48 V AC/DC	3VW9011-0AE11
	60 V AC/DC	3VW9011-0AE15
	110 127 V AC/DC	3VW9011-0AE12
	220 250 V AC/DC	3VW9011-0AE13

#### Interlocking

ee.				
Locking devices				
	Description	Туре	Version	Article No.
	To prevent movement of withdrawable circuit breaker	Cylinder lock (replacement for R78)	Made by Ronis	3VW9011-0BA80
		For no more than 3 padlocks, 8 mm (replacement for R65)		3VW9011-0BA87
Locking mechanisms				
	Description			Article No.
	To prevent movement of the wi	thdrawable circuit breaker in disconnected p	osition (replacement for R79)	3VW9011-0BA84
Locking devices				
	Description	Version		Article No.
	To prevent unauthorized	Cylinder lock, made by Ronis (replacement	for S08)	3VW9011-0BA33
p	activation in the operator	For no more than 3 padlocks, plastic 4 mm	(replacement for S22)	3VW9011-0BA41
4	panel (safe OFF)	For no more than 1 padlock, metal 7 mm (	replacement for S23)	3VW9011-0BA42
		For no more than 2 padlocks, metal 8 mm	(replacement for S07)	3VW9011-0BA44
Padlockable protective	e cover ON/OFF on the operato	r panel		
	Description	Version		Article No.
	For mechanical ON and/or OFF	For no more than 3 padlocks, plastic 4 mm	(replacement for S42)	3VW9011-0BA22
	on the operator panel	For no more than 1 padlock, metal 7 mm (i	replacement for S43)	3VW9011-0BA23
		For no more than 2 padlocks, metal 8 mm	(replacement for S44)	3VW9011-0BA24

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# Accessories and spare parts

## Interlocking

Protective cover for	or mechanical ON/OFF			
	Description	Version		Article No.
	For mechanical ON/OFF	Not lockable (re	eplacement for S41)	3VW9011-0BA21
Mutual mechanica	al interlockings			
Æ,	<ul> <li>Mutual mechanical interlo</li> </ul>	ocking for 3WL / 3VA	with Bowden cable 2 m	
7 P. A.	Fixing	Mounting		Article No.
是机门	Fixed-mounted	Rear panel or flo	oor mounting	3VW9011-0BB21
	Withdrawable	Mounting onto	guide frame	3VW9011-0BB22
Bowden cable, sep				
	One required for each circ	cuit breaker		
	Variant			Article No.
	1000 mm			3VW9011-0BB23
	2000 mm			3WL9111-0BB45-0AA0
	m for control cabinet door			3WL9111-0BB46-0AA0
	<ul> <li>To prevent opening of the         <ul> <li>It additionally prevents the</li></ul></li></ul>	e circuit breaker fror	position n being closed when the control cabinet door is open  Version  Direct fixed interlocking  Locking with Bowden cable  Direct fixed interlocking	Article No. 3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14
70			Locking with Bowden cable	3VW9011-0BB18
Door sealing fram				
	Can be used up to IP3x de	gree of protection		
	Version			Article No.
	For fixed-mounted breakers			3VW9011-0AP01
	For withdrawable breakers			3VW9011-0AP02
Protective cover IF	P54			
	Cannot be combined with	s of protection IP4x a	e breakers and IP54 when installing in switchboard doors ame and door mounted rotary operator	
	Version			Article No.
	Lock with unique key			3VW9011-0AP03
	Lock with standard key			3VW9011-0AP13

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# System overview 3WL11-3WL13

IEC AC 630 - 6300 A, IEC DC ..

For a complete and verified configuration of your molded-case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

#### Basic units



Sizes 1 to 3















Accessories











cation modules

Rating plugs

magnets

Breaker status sensors (BSS)

modules

## Connection



Fixed-mounted, withdrawable versions



Main connection vertical, horizontal, front, flange

## <u>Accessories</u>



Operating mechanisms and auxiliary releases





Motorized operating mechanisms

Auxiliary releases

#### Accessories



Closing coils

# Auxiliary switches

Position signaling switches



Auxiliary switches





Signaling switches

## Accessories



Position signaling switches

## Further accessories













Door sealing frames

Shutters

EMERGENCY-OFF pushbuttons

Operating cycle counters

Support brackets Grounding connections

# 







Interlocking sets

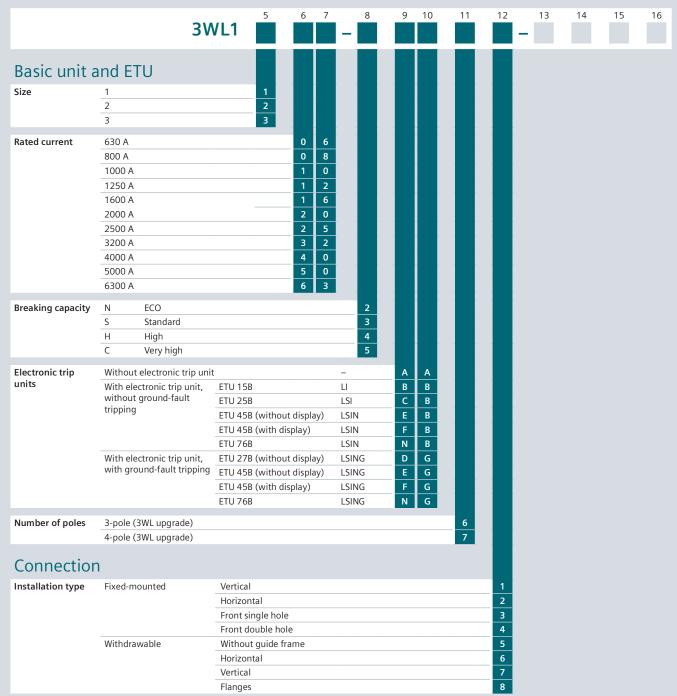
Key operation

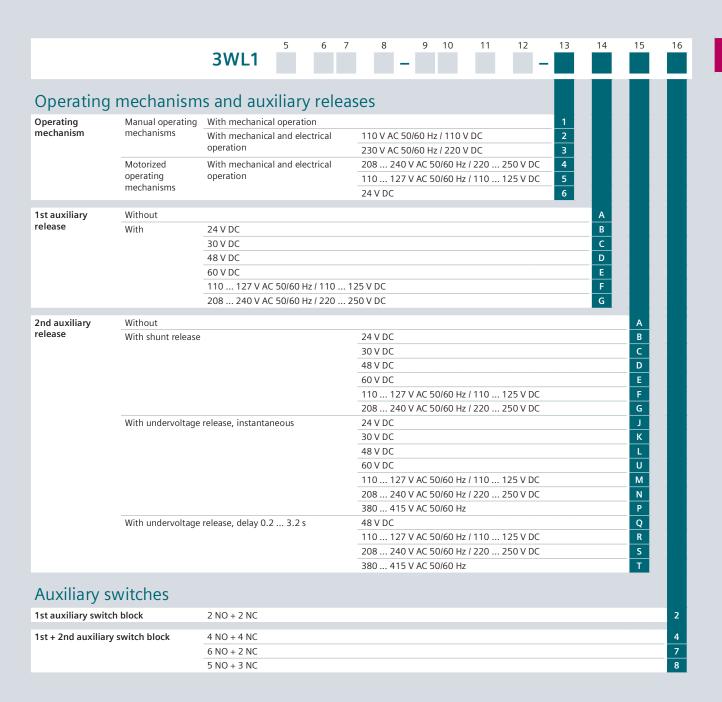
Locking mechanisms

# Structure of the article numbers

## Basic configuration for AC circuit breakers

For a complete and verified configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator



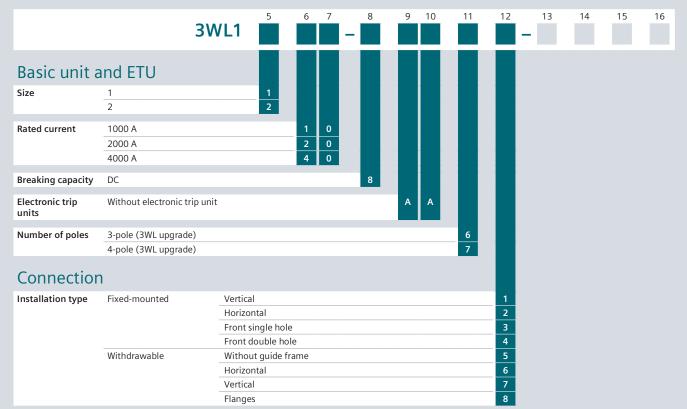


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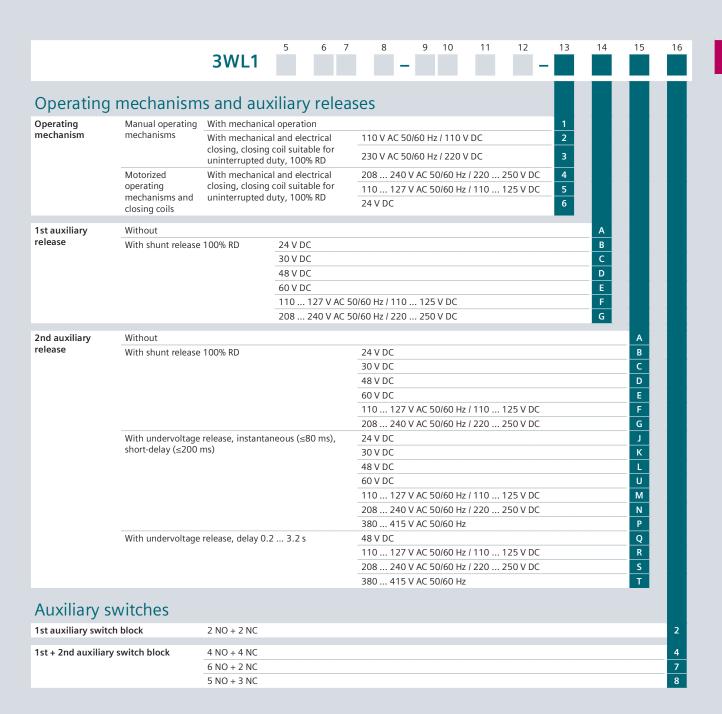
# Structure of the article numbers

## Basic configuration for DC circuit breakers

For a complete and verified configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator



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# Online configurator highlights

## www.siemens.com/lowvoltage/3wl-configurator



# Automatic generation of the 3D model, 2D dimension drawing and the internal circuit diagram according to IEC



#### Direct entry of an already known article number or parts of an article number



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## Configure your air circuit breaker easily online at

www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the appropriate order code(s).	complete Article No. and indi	cate the	3WLZ	Orc	der co	ode
Accessories for basic con Rated voltage 1000 V AC and 6						
<ul> <li>Only for circuit breakers of size 1 - 3 with hi</li> <li>Cannot be combined with rated voltage 11!</li> </ul>		C class.				
Rated voltage	Size 1 1)	Up to 2000 A		Α	0	5
	Size 2 1) 2)	Up to 4000 A		Α	0	5
	Size 3 1)	Up to 6300 A		Α	0	5
Rated voltage 1150 V AC  Only for circuit breakers with high breaking Cannot be combined with rated voltage 100		No. is a "4").				
Rated voltage	Size 2 1) 2)	Up to 4000 A		Α	1	5
	Size 3 1) 3)	Up to 6300 A		Α	1	5
Rated voltage 690 V AC (+ 20% Only for 3WL11 circuit breakers, size 1, with		of the Article No. is a "4").				
Rated voltage	Size 1	Up to 2000 A		Α	1	6

When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

Not possible for circuit breakers with very high breaking capacity C.

<sup>3)</sup> Front connections are tinned as standard.

To specify the options, add "-Z" to the appropriate order code(s).	e complete Article No. a	and indicate the 3WLZ	Ord	der o	ode
Accessories for electroni	c trip units ETU	J			
Rating plugs					
Only one module is possible per circuit bre	quipped with a rating plug v	which is equal to the maximum rated circuit breaker current $(I_{n \text{ max}})$ .			
Module	Sizes 1, 2	250 A	В	0	2
		315 A	В	0	3
		400 A	В	0	4
		500 A	В	0	5
		630 A	В	0	6
		800 A	В	0	8
		1000 A	В	1	0
	Sizes 1, 2, 3	1250 A	В	1	2
	2.232 ., 2, 3	1600 A	В	1	6
		2000 A	В	2	0
	Sizes 2, 3	2500 A	В	2	5
		3200 A	В	3	2
		4000 A	В	4	0
	Size 3	5000 A	В	5	0
	3120 3	6300 A	В	6	3
Communication and measure	ment function		F	0	1
PROFIBUS DP communication port 1)	including COM15 and bre	eaker status sensor (BSS)	F	0	2
MODBUS RTU communication port 1)	including COM16 and bre		F	1	2
PROFINET IO / Modbus TCP	including COM35 and bre		F	3	5
communication port 1) new					
Metering function Plus (comm	nunication module	es not included)			
Metering function Plus	With internal voltage tap	on the lower main conducting paths	F	3	6
	With internal voltage tap	on the upper main conducting paths	F	3	7
	For combination with ext	ternal voltage transformer	F	3	8
EMC filter  • Common-mode interference suppressor fil  • Insertion loss (asymmetric) in the range 40		ications)			
EMC filter			F	3	1
Overload and short-circuit pro Only possible with 4-pole circuit breaker w		l conductors			
Internal current transformer for	Size 1		F	2	3
N conductor	Sizo 2		E	3	3
	Size 2		F	2	3
	Size 3			2	3

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<sup>&</sup>lt;sup>1)</sup> When ordering withdrawable circuit breaker and guide frame separately, specify order code "F02", "F12" or "F35" only for withdrawable circuit breaker.

## Configure your air circuit breaker easily online at

www.siemens.com/lowvoltage/3wl-configurator

appropriate order code(s).	o the complete Article I	No. and indicate the	3WLZ	Ord	der c	ode
Remote resetting						
Automatic reset of the reclosing locko				K	0	1
Remote reset for displays and reset by	uttons including automatic	reset of the reclosing lockout				
Remote reset magnets	24 V DC			К	1	0
	48 V DC			K	1	1
	110 127 V AC 50/	60 Hz / 110 125 V DC		K	1	2
	208 240 V AC 50/	60 Hz / 220 250 V DC		K	1	3
Connection						
Tinned version of the custo Only for circuit breakers in withdrawa The normal delivery time increases to	able version with horizontal					
Only for circuit breakers in withdrawa	Size 1			Α	0	8
	Size 2			Α	0	8
	Size 3			Α	0	8
				N	1	1
Top: <sup>3)</sup> horizontal	Size 1	Up to 1600 A		N	1	1
Top: <sup>3)</sup> horizontal Bottom: accessible from front,		Up to 1600 A Up to 3200 A		N	1	1
Top: <sup>3)</sup> horizontal Bottom: accessible from front, single hole	Size 1 Size 2 Size 3 4)	Up to 1600 A Up to 3200 A Up to 4000 A		N N	1	1
Top: <sup>3)</sup> horizontal Bottom: accessible from front, single hole Top: vertical	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A		N N N	1 1 2	1 1 0
Top: <sup>3)</sup> horizontal Bottom: accessible from front, single hole Top: vertical	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1 Size 2	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A Up to 3200 A		N N N	1 1 2 2	1 1 0
Top: <sup>3)</sup> horizontal Bottom: accessible from front, single hole Top: vertical Bottom: horizontal	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1 Size 2 Size 3	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A Up to 3200 A Up to 5000 A		N N N N	1 2 2 2	1 1 0 0
Top: 3) horizontal Bottom: accessible from front, single hole Top: vertical Bottom: horizontal Top: horizontal	Size 1 Size 2 Size 3 4) Size 1 Size 2 Size 3 Size 3	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A Up to 3200 A Up to 5000 A Up to 5000 A		N N N N	1 1 2 2 2 2	1 1 0 0 0
Top: <sup>3)</sup> horizontal Bottom: accessible from front, single hole Top: vertical Bottom: horizontal Top: horizontal	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1 Size 2 Size 3 Size 1 Size 2	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A Up to 3200 A Up to 5000 A Up to 5000 A Up to 2000 A		N N N N N	1 1 2 2 2 2 2	1 1 0 0 4 4
Connection technology for Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for	Size 1 Size 2 Size 3 4) Size 1 Size 2 Size 3 Size 1 Size 2 Size 3	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A Up to 3200 A Up to 5000 A Up to 2000 A Up to 2000 A Up to 3200 A Up to 3200 A Up to 5000 A		N N N N	1 1 2 2 2 2	1 1 0 0
Top: 3 horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for	Size 1 Size 2 Size 3 4) Size 1 Size 2 Size 3 Size 1 Size 2 Size 3	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A Up to 3200 A Up to 5000 A Up to 2000 A Up to 2000 A Up to 3200 A Up to 3200 A Up to 5000 A		N N N N N	1 1 2 2 2 2 2	1 0 0 0 4 4
Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for Top and bottom: 5) 6)	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1 Size 2 Size 3 Size 1 Size 2 Size 3 Size 1 Size 2 Size 3	Up to 1600 A		N N N N N N	1 1 2 2 2 2 2 2	1 1 0 0 4 4 4
Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for Top and bottom: 5) 6)	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1 Size 2 Size 3 Size 1 Size 2 Size 3 Size 1 Size 2 Size 3	Up to 1600 A		N N N N N N	1 1 2 2 2 2 2 2 2	1 1 0 0 4 4 4
Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for Top and bottom: 5) 6) accessible from front, single hole	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1 Size 2 Size 3 Size 1 Size 2 Size 3 Size 1 Size 2 Size 3	Up to 1600 A		N N N N N N P	1 1 2 2 2 2 2 2 2 2 2	1 0 0 4 4 4 0
Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for Top and bottom: 5) 6) accessible from front, single hole  Top and bottom: 5)	Size 1 Size 2 Size 3 4) Size 2 Size 3 Size 1 Size 2 Size 3 Size 1 Size 2 Size 3  r main connections Size 1 Size 3	Up to 1600 A		N N N N N N P P	1 1 2 2 2 2 2 2 2 2 2 0 0	1 0 0 4 4 4 0 0
Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for Top and bottom: 5) 6) accessible from front, single hole  Top and bottom: 5)	Size 1 Size 2 Size 3 4) Size 2 Size 3 Size 1 Size 2 Size 3 Size 1 Size 2 Size 3 Framin connections Size 1 Size 2 Size 3 Size 1 Size 1 Size 3 Size 1 Size 1 Size 2 Size 3	Up to 1600 A		N N N N N N N	1 1 2 2 2 2 2 2 2 2 0 0	1 0 0 4 4 4 0 0
Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical  Connection technology for Top and bottom: 5) 6) accessible from front, single hole  Top and bottom: 5) accessible from front, double hole	Size 1 Size 2 Size 3 <sup>4)</sup> Size 1 Size 2 Size 3	Up to 1600 A Up to 3200 A Up to 4000 A Up to 2000 A Up to 3200 A Up to 5000 A Up to 3200 A Up to 3200 A Up to 5000 A Up to 1600 A Up to 4000 A Up to 1600 A Up to 1600 A Up to 4000 A Up to 4000 A Up to 4000 A Up to 4000 A		N N N N N N N P P P P	1 1 2 2 2 2 2 2 2 0 0 0 0	1 1 0 0 4 4 4 0 0 1 1
Top: 3) horizontal Bottom: accessible from front, single hole  Top: vertical Bottom: horizontal  Top: horizontal Bottom: vertical	Size 1 Size 2 Size 3 4) Size 2 Size 3 Size 1 Size 2 Size 3 Size 1 Size 2 Size 3 Framain connections Size 1 Size 2 Size 3 Size 1 Size 2 Size 3 Size 1 Size 2 Size 3	Up to 1600 A		N N N N N N N P P P	1 1 2 2 2 2 2 2 2 2 2 0 0 0 0	1 0 0 4 4 4 0 0 1 1

<sup>1)</sup> Front connections are tinned as standard.

<sup>2)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

Not for 3WL1 size 1 with high breaking capacity H and circuit breakers with very high breaking capacity C.
 Not for size 3 with very high breaking capacity C.

<sup>5)</sup> Not for size 2 and 3 circuit breakers with very high breaking capacity C.

<sup>6)</sup> Not for 3WL1 size 1 with high breaking capacity H

appropriate order code(s).	the complete Article No. and ind			der c	ode
appropriate order code(s).		3WLZ			
Connection					
Connection technology for	main connections (withdra	awable versions)			
Top: vertical	Size 1	Up to 2000 A	P	1	8
Bottom: horizontal	Size 2	Up to 3200 A	Р	1	8
	Size 3	Up to 5000 A	Р	1	8
Top: 1) connecting flange	Size 1	Up to 2000 A	Р	1	9
Bottom: horizontal	Size 2	Up to 3200 A	Р	1	9
	Size 3	Up to 4000 A	Р	1	9
Top: horizontal	Size 1	Up to 2000 A	Р	2	3
octtom: vertical	Size 2	Up to 3200 A	Р	2	3
	Size 3	Up to 5000 A	Р	2	3
Top: 1) horizontal	Size 1	Up to 2000 A	Р	2	8
Bottom: horizontal  Top: horizontal  Bottom: vertical  Top: 1) horizontal  Bottom: connecting flange  Connection technology for	Size 2	Up to 3200 A	P	2	8
	Size 3	Up to 4000 A	P	2	8
	auxiliary conductors (for fi	ixed-mounted and withdrawable versions	N	6	
	TIACU IIIOUIIICU		14	ı •	l '
screwless terminals (tension spring)	Withdrawable		P	6	1
Fop: horizontal Fop: horizontal Fop: horizontal Fop: horizontal Fop: horizontal Fortion: connecting flange  Connection technology for Crewless terminals (tension spring)  Operating mechanism	Withdrawable	es	_	<u>.                                     </u>	'   1
	Withdrawable  as and auxiliary release  Only possible if the 13th digit of	24 30 V DC	P	6 0	1
operating mechanism	withdrawable as and auxiliary release	24 30 V DC 48 60 V DC	P M M	0	1
operating mechanism	Withdrawable  as and auxiliary release  Only possible if the 13th digit of	24 30 V DC 48 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC	M M	6 0 0	1 3 5
operating mechanism  Motorized operating mechanisms	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"	24 30 V DC 48 60 V DC	M M M	0 0 0	1 3 5
operating mechanism	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"	24 30 V DC 48 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC	M M	6 0 0	1 3 5
operating mechanism  Motorized operating mechanisms	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted	24 30 V DC 48 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC	M M M M	0 0 0 0 0	1 3 5 6 1
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP	24 30 V DC 48 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC 208 240 V AC 50/60 Hz / 220 250 V DC	M M M M C	0 0 0 0 0 2 2	1 3 5 6 1 1
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted	24 30 V DC 48 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC 208 240 V AC 50/60 Hz / 220 250 V DC 24 V DC 30 V DC 48 V DC	M M M M C M	0 0 0 0 2 2	1 3 5 6 1 1 2
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  Is and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit	24 30 V DC 48 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC 208 240 V AC 50/60 Hz / 220 250 V DC 24 V DC 30 V DC 48 V DC 60 V DC	M M M M C M M	0 0 0 0 0 0 2 2 2 2	1 3 5 6 1 1 2 3
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  Is and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit	24 30 V DC 48 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC 208 240 V AC 50/60 Hz / 220 250 V DC 24 V DC 30 V DC 48 V DC 60 V DC 110 127 V AC 50/60 Hz / 110 125 V DC	M M M M M M M M M M	0 0 0 0 0 2 2 2 2 2	1 3 5 6 1 1 2 3 4
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  Is and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit of the Article No. = "1"	24 30 V DC  48 60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  30 V DC  48 V DC  60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC	M M M M M M M M M	0 0 0 0 0 2 2 2 2 2 2	1 3 5 6 1 1 2 3 4 5
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit of the Article No. = "1"  • Not suitable for uninterrupted	24 30 V DC  48 60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  30 V DC  48 V DC  60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC	M M M M C M M M M	0 0 0 0 0 2 2 2 2 2 2 2	1 3 5 6 1 1 2 3 4 5 6
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit of the Article No. = "1"  • Not suitable for uninterrupted duty, 5% OP, synchronizable 3)  • Only possible if the 13th digit	24 30 V DC  48 60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  30 V DC  48 V DC  60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC	M M M M M M M M M M	0 0 0 0 0 2 2 2 2 2 2 2 3	1 3 5 6 1 5 6 1 3 3
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  Is and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit <sup>2)</sup> • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit of the Article No. = "1"  • Not suitable for uninterrupted duty, 5% OP, synchronizable <sup>3)</sup>	24 30 V DC  48 60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  30 V DC  48 V DC  60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  48 V DC  110 127 V AC 50/60 Hz / 110 125 V DC	M M M M M M M M M M M	0 0 0 0 0 2 2 2 2 2 2 2 2 3 3	1 3 5 6 1 1 2 3 4 5 6 1 3 5 5
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5  Closing coils	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit of the Article No. = "1"  • Not suitable for uninterrupted duty, 5% OP, synchronizable 3)  • Only possible if the 13th digit of the Article No. = "1"	24 30 V DC  48 60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  30 V DC  48 V DC  60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  48 V DC  48 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC	M M M M M M M M M M M M M M M M	0 0 0 0 0 2 2 2 2 2 3 3 3 3 3 3 3 3	1 3 5 6 1 1 2 3 4 5 6 1 3 5 6
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  Suitable for uninterrupted duty, 100% OP Only possible if the 13th digit of the Article No. = "1"  Not suitable for uninterrupted duty, 5% OP, synchronizable 30 Only possible if the 13th digit of the Article No. = "1"  Not suitable for uninterrupted duty, 5% OP, synchronizable 30 Only possible if the 13th digit of the Article No. = "1"	24 30 V DC  48 60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  30 V DC  48 V DC  60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 110 125 V DC  24 V DC  48 V DC  48 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  28 V DC  110 127 V AC 50/60 Hz / 110 125 V DC	M M M M M M M M M M M M M M M M M M M	0 0 0 0 0 0 2 2 2 2 2 2 3 3 3 3 3 4	1 3 5 6 1 2 3 4 5 6 1 3 5 6 6 1
Operating mechanism  Motorized operating mechanisms  Mechanical operating cycles counter, 5  Closing coils	Withdrawable  IS and auxiliary release  Only possible if the 13th digit of the Article No. = "1"  5-digit 2)  • Suitable for uninterrupted duty, 100% OP  • Only possible if the 13th digit of the Article No. = "1"  • Not suitable for uninterrupted duty, 5% OP, synchronizable 3)  • Only possible if the 13th digit of the Article No. = "1"	24 30 V DC  48 60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  30 V DC  48 V DC  60 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC  24 V DC  48 V DC  48 V DC  110 127 V AC 50/60 Hz / 110 125 V DC  208 240 V AC 50/60 Hz / 220 250 V DC	M M M M M M M M M M M M M M M M	0 0 0 0 0 2 2 2 2 2 3 3 3 3 3 3 3 3	1 3 5 6 1 2 3 4 5 6 1 3 5 5 6 6

<sup>1)</sup> Not for size 2 and 3 circuit breakers with very high breaking capacity C.

Only possible with motorized operating mechanism.
 Overexcited, i.e. switching time 50 ms (standard >80 ms).

<sup>4)</sup> Only possible if the 14th digit of the Article No. for the circuit breaker is "A", i.e. "without 1st auxiliary release".

# Configure your air circuit breaker easily online at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).  3WLZ				der c	ode
Auxiliary switches and s	ignaling switches				
Position signaling switches for guide fram		CO st   disconnected position)	R	1	5
	3 CO   2 CO   1 C	3 CO   2 CO   1 CO (connected   test   disconnected position)		1	6
Signaling switches	Ready-to-close signaling switches (S20)	1 NO contact	С	2	2
	Spring charged signaling switch 1) (S21)	1 NO contact	С	2 2 2	2 0
	For the first auxiliary release 1) (S22)	1 CO contact	С	2	6
	For the second auxiliary release 1) (S23)	1 CO contact	С	2	7
	1st tripped signaling switch 1) 2) (S24)	1 CO contact	K	0	7
	2nd tripped signaling switch 1) 2) 3) (S25)	1 NO contact	K	0	6
Further accessories Pushbuttons / shutdown swit	ches / closing lockouts				
EMERGENCY-OFF pushbuttons	Mushroom pushbutton instead of the mechanical OFF pushbutton		s	2	4
Electrical ON button S10 in the	Possible only for circuit breakers with closing coil	With sealing cap	С	1	1
operator panel 1)		With CES lock	С	1	2
Motor shutdown switch on control panel <sup>4</sup>	(\$12)		S	2	5
Special packaging for increas	ed transport requirements (moisture to coating on corrugated cardboard (moisture protect	•	A	6	1
Arc chute covers  Not available for  1000 V version (order code "A05"),  DC version  4000 A size 2  1150 V version (order code "A15")  130 kA version, size 2  150 kA version, size 3					
Arc chute covers	3-pole, 4-pole		R	1	0
Shutters					
Shutter: 2-part, lockable, with padlocks 1)	3-pole, 4-pole		R	2	1

<sup>1)</sup> Not possible with "communications interface" option, order code "F02", "F12" or "F35".

<sup>2)</sup> Not available for non-automatic air circuit breakers.

<sup>3)</sup> Only possible with option "K07".

<sup>&</sup>lt;sup>4)</sup> Only for breakers with motorized operating mechanism, not possible with order codes "C11", "C12".

To specify the options, add "-Z" to appropriate order code(s).	the complete Article No. and ind	3WLZ	Ord	der c	ode
Further accessories					
Transformer (without iron  Used in converter applications with hi External 24 V DC supply required Undervoltage release required  Comprises: 3 (3-pole) or 4 (4-pole) transforme 24 V DC relay Warning signs Manual	gh harmonic components; can only be u	used with ETU45B or ETU76B			
Transformer	3-pole, 4-pole	Size 2, size 3	К	6	0
Operating manual, printed	version				
French/Italian			Α	1	1
Spanish/Portuguese			Α	1	2
Interlocking Mechanical interlocks					
Interlocking module with Bowden cab	ole 2 m				
Mutual mechanical interlockings		For fixed-mounted breakers	S	5	5
		For withdrawable circuit breakers with guide frame	R	5	5
		For guide frames (ordered separately)	R	5	6
		For withdrawable circuit breakers (ordered separately)	R	5	7
Locking devices (for fixed-in the disconnector unit fulfills the requirements)					
Locking devices	To prevent unauthorized	Made by CES	S	0	1
	activation in the operator panel	Made by IKON	S	0	3
		Assembly kit FORTRESS or Castell 1)	S	0	5
		Assembly kit for padlocks 2)	S	0	7
		Made by Profelia	S S	0	8
Locking devices (for fixed-			3		
Locking devices	For operating mechanism handle	with padlock 2)	S	3	3

<sup>1)</sup> Locks must be ordered from the manufacturer.

<sup>&</sup>lt;sup>2)</sup> Padlock not included in the scope of supply.

## Configure your air circuit breaker easily online at

www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to t appropriate order code(s).	he complete Article No. and inc		Ord	der d	ode
app. op. acc o. ac. coac(o).		3WLZ			
Interlocking					
interlocking					
Locking devices (for withdra	wable version)				
<ul> <li>The disconnector unit fulfills the require active in the connected position, function</li> <li>Not possible in combination with order</li> </ul>	on is retained when circuit breaker is re	o EN 60204-1, consisting of a lock in the guide frame, eplaced.			
Locking devices	To prevent unauthorized	Made by CES	R	6	1
	activation in the operator panel	Made by Ronis	R	6	8
		Made by Profalux	R	6	0
Locking devices (for withdra  • Safety lock for mounting onto the circuit					
Locking devices	To prevent movement of	Made by CES	s	7	1
	withdrawable circuit breaker	Made by Profalux	S	7	5
		Made by Ronis	S	7	6
Locking mechanisms • Not possible in combination with order					
For fixed-mounted circuit breakers	To prevent opening of the cabinet door in ON position		S	3	0
For withdrawable circuit breakers			R R	3	0
	To prevent activation when the control of the contr		R	4 5	0
Locking mechanisms to previous disconnected position  Consisting of Bowden cable and lock in Not possible in combination with order	the cabinet door	thdrawable circuit breaker in			
Made by CES			R	8	1
Made by Profalux			R	8	5
Seals			R	8	6
Door sealing frame for degree of protect	tion IP41		Т	4	0
	cuit breaker in combinations of the combination of	on with an older guide frame /L1 for use in combination with older guide frames supplied			
<ul> <li>as 3WL92E or</li> <li>for sizes 1 to 3.</li> </ul> Use of the circuit breaker in older guide	frames, including the appropriate g	uide frame coding	A	4	1

<sup>1)</sup> Not available in combination with R50

<sup>2)</sup> Not available in combination with R40

<sup>3)</sup> Combination with R81, R85 and R86 on request

# Further technical specifications

Manual operating mechanism		3WL11 – 3WL13
Switching on/charging the stored-energy operating mo	echanism	
Maximum force required to operate the hand lever		≤230 N
Required number of strokes on the hand lever		9
Closing coils		3WL11 – 3WL13
		SWEIT SWEITS
Primary operating range Primary operating range		0.05 1.1
Extended operating range for battery operation	At 24 V DC, 48 V DC	0.85 1.1 × U₅ 0.7 1.26 × U₅
Extended operating range for battery operation	60 V DC, 110 V DC 220 V DC	0.7 1.20 × 0 <sub>s</sub>
Rated voltage		
Rated control supply voltage U <sub>s</sub>	50/60 Hz AC	110 127 V, 208 240 V
	DC	24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V
Operation		
Power consumption	AC/DC	15 VA/15 W
Min. command duration at U <sub>s</sub> for the closing coil		60 ms
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; manual operating mechanism with mechanical and electr	ical closing	1 A TDz (slow)/1 A
	ical closing	6 A TDz (slow)/2 A
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic;		6 A TDZ (Slow)/IZ A
motor and closing coil for the same rated control supply v	oltages;	
motorized operating mechanism with mechanical and ele		
Smallest permissible DIAZED fuse (operational class gL)/	At U <sub>s</sub> = 24 30 V	6 A
automatic circuit breaker with C characteristic	At U <sub>s</sub> = 48 60 V	6 A
for different rated control supply voltages)	At U <sub>s</sub> = 110 125 V DC/ 110 127 V AC	2 A
	At U <sub>s</sub> = 220 250 V DC/ 208 240 V AC	2 A
Motor		3WL11 – 3WL13
Primary operating range		
Primary operating range		0.85 1.1 × U <sub>s</sub>
Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 1.26 × U <sub>s</sub>
Operation		
Power consumption of motor	AC/DC	24/30 V DC, 110 W; 48/60 V DC, 120 W; 110 127 V AC/110 125 V DC, 150 W; 200 240 V AC/220 250 V DC, 130 W
Time required to charge the spring energy store at $1 \times U_s$		≤10 s
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; motor and closing coil for the same rated control supply v	voltages	6 A TDz (slow)/2 A
Smallest permissible DIAZED fuse (operational class gL)/	At U <sub>s</sub> = 24 30 V	6 A
automatic circuit breaker with C characteristic	At $U_s = 24 60 \text{ V}$	6 A
(for different rated control supply voltages)	At U <sub>s</sub> = 110 125 V DC/ 110 127 V AC	2 A
	At U <sub>s</sub> = 220 250 V DC/ 208 240 V AC	2 A
Signals of the electronic trip unit		3WL11 – 3WL13
Signals of the electronic trip unit		
Measuring accuracy of the electronic trip unit		Protection functions acc. to EN 60947; current indication ≤10%; metering function for base quantities ≤1%; metering function for derived quantities ≤4%

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# Further technical specifications

## Undervoltage releases UVR (F3) and UVR-t<sub>d</sub> (F4)

#### 3WL11 - 3WL13

	w ·	
Primary operating range		
Response values	Pickup	$\geq$ 0.85 × U <sub>s</sub> (circuit breaker can be closed)
	Dropout	$0.35 \dots 0.7 \times U_s$ (circuit breaker is tripped)
Primary operating range		0.85 1.1 × U <sub>s</sub>
Extended operating range for battery operation	At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC	0.85 1.26 × U <sub>s</sub>
Rated voltage		
Rated control supply voltage U <sub>s</sub>	Instantaneous 50/60 Hz AC	110 127 V, 208 240 V, 380 415 V
	Instantaneous DC	24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V <sup>1)</sup>
	Delayed 50/60 Hz AC	110 127 V, 208 240 V, 380 415 V
	Delayed DC	48 V, 110 125 V, 220 250 V
Operation		
Power consumption (pickup/uninterrupted duty)	AC	20/5 VA
	DC	20/5 W
Opening time of the circuit breaker		
Opening time of the circuit breaker at $U_s = 0$		200 ms
Version UVR (F3)	Instantaneous	73 ms
	With delay	200 ms
Version UVR-t <sub>d</sub> (F8)	With delay, $t_d = 0.2$ to 3.2 s	0.2 3.2 s
	Reset through additional NC contact – direct tripping	≤100 ms
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ miniature circuit breaker with C characteristic		1 A TDz (slow)/1 A

#### Shunt release (ST) (F1, F2)

#### 3WL11 - 3WL13

Primary operating range				
Version		For continuous command (100% OP), locks out on momentary- contact commands	5% OP	With spring energy store consisting of shunt release and capacitor storage device
Response values	Pickup	$>0.7 \times U_s$ (circuit breaker is tripped)	$>0.7 \times U_s$ (circuit breaker is tripped)	-
Primary operating range		0.7 1.1 × U <sub>s</sub>	0.7 1.1 × U <sub>s</sub>	0.85 1.1 × U <sub>s</sub>
Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 1.26 × U <sub>s</sub>	0.7 1.26 × U <sub>s</sub>	-
Rated voltage				
Rated control supply voltage U <sub>s</sub>	50/60 Hz AC	110 127 V, 208 240 V	110 127 V, 208 240 V	110 V, 230 V
	DC	24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V	24 V, 48 V, 110 125 V, 220 250 V	110 V, 220 V
Operation				
Power consumption	AC/DC	15 VA/15 W	15 VA/15 W	1 VA/1 W
Min. command duration at U <sub>s</sub>		60 ms	25 ms	-
Storage time at Us/ <sub>s</sub> / Recharging time at U <sub>s</sub>		-	_	max. 5 min/ min. 5 s
Opening time of the circuit breaker				
Opening time of the circuit breaker at $U_s = 100\%$	At AC/DC	80 ms	50 ms	80 ms
Short-circuit protection				
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		1 A TDz (slow)/1 A	1 A TDz (slow)/1 A	1 A TDz (slow)/1 A

<sup>1) 24</sup> V and 30 V only with undervoltage release UVR (F3)

## Remote reset magnet for mechanical tripped indicator (F7) 3WL11 – 3WL13

Primary operating range		
Primary operating range		0.85 1.1 × U <sub>s</sub>
Extended operating range for battery operation	At 24 V DC, 48 V DC 110 V DC 220 V DC	0.7 1.26 × U <sub>s</sub>
Operation		
Power consumption	AC/DC	50 VA/50 W
Min. command duration at U <sub>s</sub> for the remote reset magn	et	60 ms
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		2 A TDz (slow)/1 A at 24 V DC and 48 V DC, 1 A TDz (slow)/1 A at 110 V and 208 250 V

## Contact position-driven auxiliary switches (S1, S2, S3, S4, S7, S8) 3WL11 – 3WL13

Rated voltage					
Rated insulation voltage U <sub>i</sub>	AC/DC	500 V			
Rated operational voltage U <sub>e</sub>	AC/DC	500 V			
Rated impulse withstand voltage U <sub>imp</sub>		4 kV			
Contact reliability		From 1 mA at 5 V DC			
Breaking capacity					
Alternating current 50/60 Hz	Rated operational voltage U <sub>e</sub>	24 230	24 230 V		) V
	Rated operational current I <sub>e</sub> /AC-12	10 A	10 A		
	Rated operational current I <sub>e</sub> /AC-15	4 A		3 A	
Direct current	Rated operational voltage U <sub>e</sub>	24 V	48 V	110 V	220 V
	Rated operational current I <sub>e</sub> /DC-12	10 A	8 A	3.5 A	1 A
	Rated operational current I <sub>e</sub> /DC-13	8 A	4 A	1.2 A	0.4 A
Short-circuit protection					
Largest permissible DIAZED fuse (operational class gL)		10 A TDz,	10 A Dz		
Largest permissible miniature circuit breaker with C chara-	cteristic	10 A			

## Ready-to-close signaling switches (S20) (acc. to DIN VDE 0630) 3WL11 – 3WL13

Breaking capacity			
Alternating current 50/60 Hz	Rated operational voltage U <sub>e</sub>	250 V	
	Rated operational current I <sub>e</sub>	8 A	
Direct current	Rated operational voltage U <sub>e</sub>	125 V	250 V
	Rated operational current I <sub>e</sub>	0.4 A	0.2 A
	Contact reliability	From 1 mA at 5 V DC	
Short-circuit protection			
Largest permissible DIAZED fuse (operational class gL)		2 A Dz (quick)	

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# Further technical specifications

# Tripped signaling switches (S24) and signaling switches for auxiliary releases (S22, S23) (acc. to DIN VDE 0630)

#### 3WL11 - 3WL13

Breaking capacity				
Alternating current 50/60 Hz	Rated operational voltage U <sub>e</sub>	250 V		
	Rated operational current I <sub>e</sub> /AC-12	8 A		
Direct current	Rated operational voltage U <sub>e</sub>	24 V	125 V	250 V
	Rated operational current I <sub>e</sub> /DC-12	6 A	0.4 A	0.2 A
	Contact reliability	From 1 mA at	5 V DC	
Short-circuit protection				
Largest permissible DIAZED fuse (operational class gL)		6 A Dz (quick)		
Tripped signaling switches				
Signal duration after tripping		Until manual o	or electrical remote	reset (option)

## Position signaling switches on guide frame

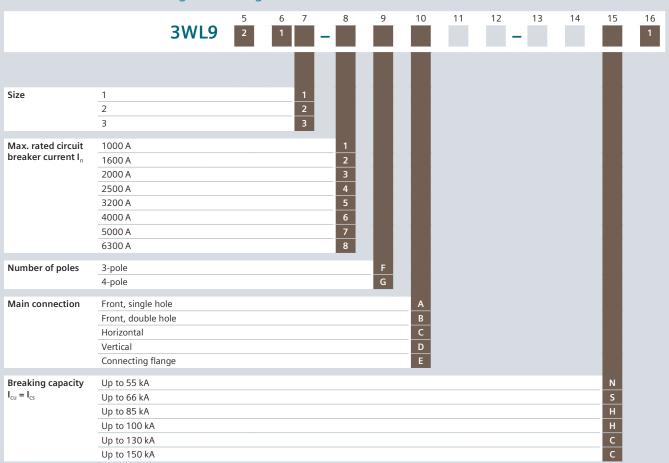
#### 3WL11 - 3WL13

Type of contacts					
Message	"Circuit breaker in connected position"	3 CO	or	1 CO	
	"Circuit breaker in test position"	2 CO	or	1 CO	
	"Circuit breaker in disconnected position"	1 CO	or	1 CO	
Contact reliability (valid from April 1, 2020)		From 1 mA a	nt 5 V DC		
Rated voltage					
Rated insulation voltage U <sub>i</sub>	50/60 Hz AC	440 V			
	DC	250 V			
Rated operational voltage U <sub>e</sub>		250 V			
Rated impulse withstand voltage U <sub>imp</sub>		4 kV			
Breaking capacity					
Rated operational current I <sub>e</sub>	I <sub>e</sub> /AC-12	24 V 10 A, 110/127 V 10 A, 220/240 V 10 A, 320/440 V 10 A			
	I <sub>e</sub> /AC-15	220/240 V 4	220/240 V 4 A, 320/440 V 3 A		
	I <sub>e</sub> /DC-12	24 V 10 A, 4	24 V 10 A, 48 V 2.5 A, 220/240 V 0.2 A		
	I <sub>e</sub> /DC-13	24 V 3.0 A, 220/240 V 0.1 A			
	A 300 (AC)	120 V 6 A, 2	40 V 3 A		
	R 300 (DC)	125 V 0.22 A	A, 250 V 0.11 A		
Short-circuit protection					
Largest permissible DIAZED fuse (operational class	gL)	8 A TDz (slov	N)		
Largest permissible automatic circuit breaker with	Largest permissible automatic circuit breaker with C characteristic		8 A TDz (slow)		

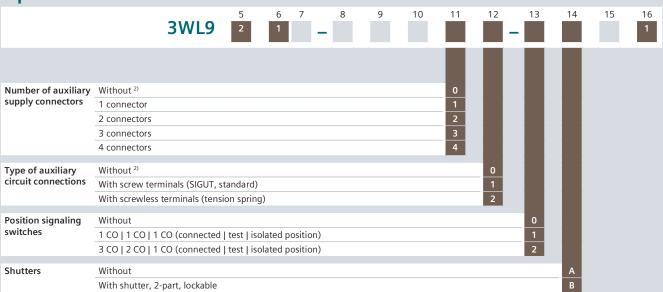
# Guide frames

## To configure your guide frame, please use the new functionality in our configurator at

www.siemens.com/lowvoltage/3wl-configurator



# **Options**



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# Accessories and spare parts

#### Accessories for electronic trip units ETU

 	davica baldar	



For replacement in existing circuit breakers, please specify the circuit breaker ID No. when ordering.
 Type With protection function Metering function

	туре	with protection function	wietering function	Article No.
	ETU15B	Ш	Without	3WL9311-5AA00-0AA2
	ETU25B	LSI	Without	3WL9312-5AA00-0AA2
	ETU27B	LSING	Without	3WL9312-7AA00-0AA2
	ETU45B (without display)	LSIN(G)	Without	3WL9314-5AA00-0AA2
			With metering function Plus new	3WL9314-5AA30-0AA2
	ETU76B		Without	3WL9317-6AA00-0AA2
			With metering function Plus new	3WL9317-6AA30-0AA2

#### Rating plugs



• With the rating plug selected, the maximum rated current  $I_{n \text{ max}}$  of the circuit breaker must not be exceeded. The following applies:  $I_n \leq I_{n \text{ max}}$ .

or the chedit brea	of the chedit breaker mast not be exceeded. The following applies. In =In max.	
Size	Rated current I <sub>n</sub>	Article No.
1, 2	250 A	3WL9111-0AA51-0AA0
	315 A	3WL9111-0AA52-0AA0
	400 A	3WL9111-0AA53-0AA0
	500 A	3WL9111-0AA54-0AA0
	630 A	3WL9111-0AA55-0AA0
	800 A	3WL9111-0AA56-0AA0
	1000 A	3WL9111-0AA57-0AA0
1, 2, 3	1250 A	3WL9111-0AA58-0AA0
	1600 A	3WL9111-0AA61-0AA0
	2000 A	3WL9111-0AA62-0AA0
2, 3	2500 A	3WL9111-0AA63-0AA0
	3200 A	3WL9111-0AA64-0AA0
	4000 A	3WL9111-0AA65-0AA0
3	5000 A	3WL9111-0AA66-0AA0
	6300 A	3WL9111-0AA67-0AA0

#### Ground-fault modules



- Alarm and tripping
- For direct measurement of the ground-fault current, e.g. in the star point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL circuit breaker is 0.11 m. If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must be installed in the neutral conductor.

Туре	Accessory for	Article No.
GFM AT 45B	ETU45B	3WL9111-0AT53-0AA0
GFM AT 55B – 76B	ETU76B	3WL9111-0AT56-0AA0

#### Display



 Accessory for
 Version
 Article No.

 ETU45B
 4-line
 3WL9111-0A781-0AA0

#### Internal current transformers, for N conductor including wiring kit

ETU Release 2	Size	Article No.
-	1	3WL9111-0AA11-0AA0
	2	3WL9111-0AA12-0AA0
	3	3WL9111-0AA13-0AA0
<b>✓</b>	1	3WL9111-0AA14-0AA0
	2	3WL9111-0AA15-0AA0
	3	3WL9111-0AA16-0AA0

#### External current transformers for N conductor





or	mers for N conductor		
	Copper connection pieces	Size	Article No.
	-	1	3WL9111-0AA21-0AA0
		2	3WL9111-0AA22-0AA0
		3	3WL9111-0AA23-0AA0
	<b>✓</b>	1	3WL9111-0AA31-0AA0
		2	3WL9111-0AA32-0AA0
		3	3WL9111-0AA33-0AA0