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# Low-Voltage Power Distribution and Electrical Installation Technology

Protection, Switching, Measuring and Monitoring  
Switchboards and Distribution Systems

Catalog  
Add-On  
LV 10

Edition  
10/2018

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# Low-Voltage Power Distribution and Electrical Installation Technology

## Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

SENTRON · SIVACON · ALPHA



### Catalog Add-On LV 10 · 10/2018

Supersedes:  
Catalog LV 10 · 04/2018

Refer to the Industry Mall for current updates of  
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The products in this catalog can also be found in the  
Interactive Catalog CA 01.  
Article No.: E86060-D4001-A510-D8-7500

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The products and systems listed in this  
catalog are developed and manufactured  
using a certified quality management system  
in accordance with EN ISO 9001:2008.

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### Switchboards and Distribution Systems

## Opening information

### Ordering notes

#### Overview

##### Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Article No. indicated and the required features must be specified using alphanumeric order codes or plain text.

##### Ordering very small quantities

When very small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge a € 20 supplement to cover our order processing and invoicing costs.

#### Explanations of Selection and ordering data

##### Standard delivery time (SD)

- ▶ Preferred type Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours.

##### Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price applies.

##### Packaging size (PS)

The packaging size defines the number of units, sets or meters, for example, for outer packaging. Only the quantity defined by the packaging size or a multiple thereof can be ordered.

##### Price group (PG)

Each product is allocated to a price group.

##### Example

5TT3400  
SD: Preferred type  
PG: 13C  
Ordering quantity 1 unit or a multiple thereof

8US1923-5CA02  
PG: 14O  
Ordering quantity 10 units or a multiple thereof

8WH9000-1GA00  
PG: 12X  
Ordering quantity 50 units or a multiple thereof

SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d					
▶	<b>5TT3400</b>		1	1 unit	1BK
	<b>8US1923-5CA02</b>		1	10 units	1CU
	<b>8WH9000-1GA00</b>		100	50 units	1BT

##### Note:

The article numbers shown here and the specifications regarding selection and ordering data are examples only. When ordering, always use the selection and ordering data in the product chapters.

##### Metal surcharges/export markings

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: [www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

A product's export markings/metal surcharges are updated daily at [www.siemens.com/industrymall](http://www.siemens.com/industrymall).



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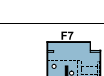
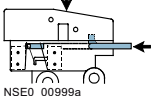
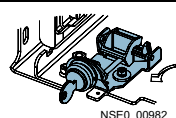
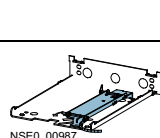
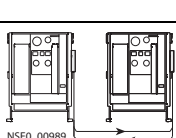



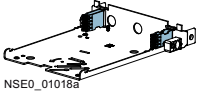
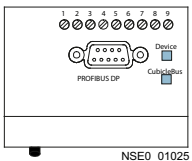
## Air Circuit Breakers

## Introduction

1

## Overview

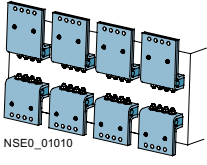
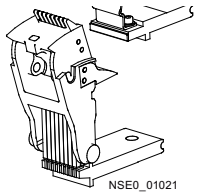
Devices	Page	Application/ individual components	Standards	Used in			
				Non-residential buildings	Residential buildings	Industry	
	3WL1						
	<b>3WL1 air circuit breakers/non-automatic air circuit breakers up to 6300 A (AC), IEC</b>	1/23 ... 1/50 As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations. For switching and protecting motors, capacitors, generators, transformers, busbars and cables.	IEC 60947-2, climate-proof acc. to IEC 60068-2-30 CCC	✓	--	✓	
	<b>3WL1 non-automatic air circuit breakers up to 4000 A (DC), IEC</b>	1/86 ... 1/88 As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations. For switching and protecting busbars and cables.	IEC 60947-2, climate-proof acc. to IEC 60068-2-30 CCC	✓	--	✓	
	1/68	Electronic Trip Units with protection functions LI, LSI, LSING, LSIN(G) with and without metering function <i>Plus</i>	As for circuit breakers	✓	--	✓	
	<b>Protective device with device holder and optional metering function (ETU)</b>	1/68	Rating plug $I_n = 3200\text{ A}$ NSE0_00992b	As for circuit breakers	✓	--	✓
	<b>Rating plugs</b>	1/68	For rated current $I_n$ from 250 A to 6300 A. The maximum rated current of the circuit breaker must not be exceeded.	As for circuit breakers	✓	--	✓
	<b>Ground-fault modules</b>	1/68	With alarm and tripping	As for circuit breakers	✓	--	✓
	<b>Displays</b>	1/68	4-line displays for ETU45B	As for circuit breakers	✓	--	✓
	<b>Current transformers for N conductor protection</b>	1/68	Internal transformers for N conductors, external transformers for N conductors	As for circuit breakers	✓	--	✓
	<b>EMC filters</b>	1/68	Common-mode interference suppressor filters	As for circuit breakers	✓	--	✓
	<b>More accessories for Electronic Trip Units</b>	1/69	Sealable and lockable covers, automatic reset of the reclosing lockout, remote reset solenoid, retrofittable internal <b>CubicleBUS</b> wiring, retrofittable internal wiring for connection of the external N and G transformers	As for circuit breakers	✓	--	✓
	<b>Locking devices</b>	1/69	Interlocking set for mechanical ON/OFF, locking devices against unauthorized closing in operator panels/for withdrawable circuit breakers, locking devices for operating mechanism handle with padlock, locking devices to prevent movement of the withdrawable circuit breakers, interlocking systems	As for circuit breakers	✓	--	✓
	<b>Locking mechanisms</b>	1/70	To prevent movement of the withdrawable circuit breakers into disconnected position, to prevent opening of the cabinet door in ON position, to prevent opening of the cabinet door, to prevent movement with the cabinet door open	As for circuit breakers	✓	--	✓
	<b>Interlocks</b>	1/71	Mechanical interlocking, couplings on the circuit breaker (with ring) for mutual interlocking, Bowden cable	As for circuit breakers	✓	--	✓

Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 <p><b>3KC ATC6300 and ATC3100 transfer control devices</b></p>	3WL.1  LV 10 Chap. 8	The 3KC ATC6300 and ATC3100 transfer control devices, equipped with two circuit breakers with motorized operating mechanism, serve as a transfer system that automatically or manually switches between two power supply systems in low-voltage power distribution applications.	IEC 60947-6-1 DIN VDE 0660-114 UL 508 CSA 22.2 No. 14	✓	✓	✓
<b>Test devices</b>	1/71	Manual testers Release 2 for Electronic Trip Units, function testers	As for circuit breakers	✓	--	✓
<b>Capacitor storage devices</b>	1/78	For shunt releases	As for circuit breakers	✓	--	✓
 <p><b>Indicators, control elements</b></p>	1/72	Ready-to-close signaling switches, signaling switches, tripped signaling switches, operating cycles counters, spring charged signaling switches, position signaling switches for guide frames, electrical ON buttons, motor shutdown switches, EMERGENCY-STOP buttons	As for circuit breakers	✓	--	✓
 <p><b>Auxiliary conductor connections</b></p>	1/73	Male connectors for circuit breakers, extension for 1000 V male connector versions, male connectors and extension for 1000 V, auxiliary supply connectors for circuit breakers or guide frames, coding kits, sliding contact modules for guide frames, blanking blocks for circuit breakers	As for circuit breakers	✓	--	✓
<b>Auxiliary releases</b>	1/74	Closing coils/shunt releases, undervoltage releases	As for circuit breakers	✓	--	✓
<b>Operating mechanisms</b>	1/74	Motorized operating mechanism	As for circuit breakers	✓	--	✓
<b>Auxiliary contacts</b>	1/74	Auxiliary switch blocks	As for circuit breakers	✓	--	✓
<b>Door sealing frames, hoods, shutters</b>	1/75	Door sealing frames, IP55 protective covers, shutters	As for circuit breakers	✓	--	✓
<b>Arc chutes</b>	1/75	Arc chutes, arc chute covers	As for circuit breakers	✓	--	✓
<b>Coding for withdrawable version</b>	1/75	By customer, for 36 coding variants	As for circuit breakers	✓	--	✓
 <p><b>Grounding connection</b></p>	1/76	Grounding connection between the guide frame and the withdrawable circuit breaker, contacting modules for withdrawable circuit breakers	As for circuit breakers	✓	--	✓
<b>Support brackets</b>	1/76	For mounting fixed-mounted circuit breakers on vertical plane	As for circuit breakers	✓	--	✓
<b>CubicleBUS modules</b>	1/76	Digital and analog input and output modules, Zone Selective Interlocking modules	As for circuit breakers	✓	--	✓
<b>Parameterization systems</b>	1/76	powerconfig commissioning and service software	As for circuit breakers	✓	--	✓
<b>Accessories for communication</b>	1/77	Pre-assembled cables for CubicleBUS modules, SENTRON manual for communication solutions, voltage transformers	As for circuit breakers	✓	--	✓
 <p><b>Retrofitting and spare parts</b></p>	1/77	PROFIBUS retrofit kits, COM15 PROFIBUS modules, COM16 Modbus modules, Modbus IEC retrofit kits, Breaker Status Sensor (BSS), metering function <i>Plus</i>	As for circuit breakers	✓	--	✓

# Air Circuit Breakers

1

## Introduction

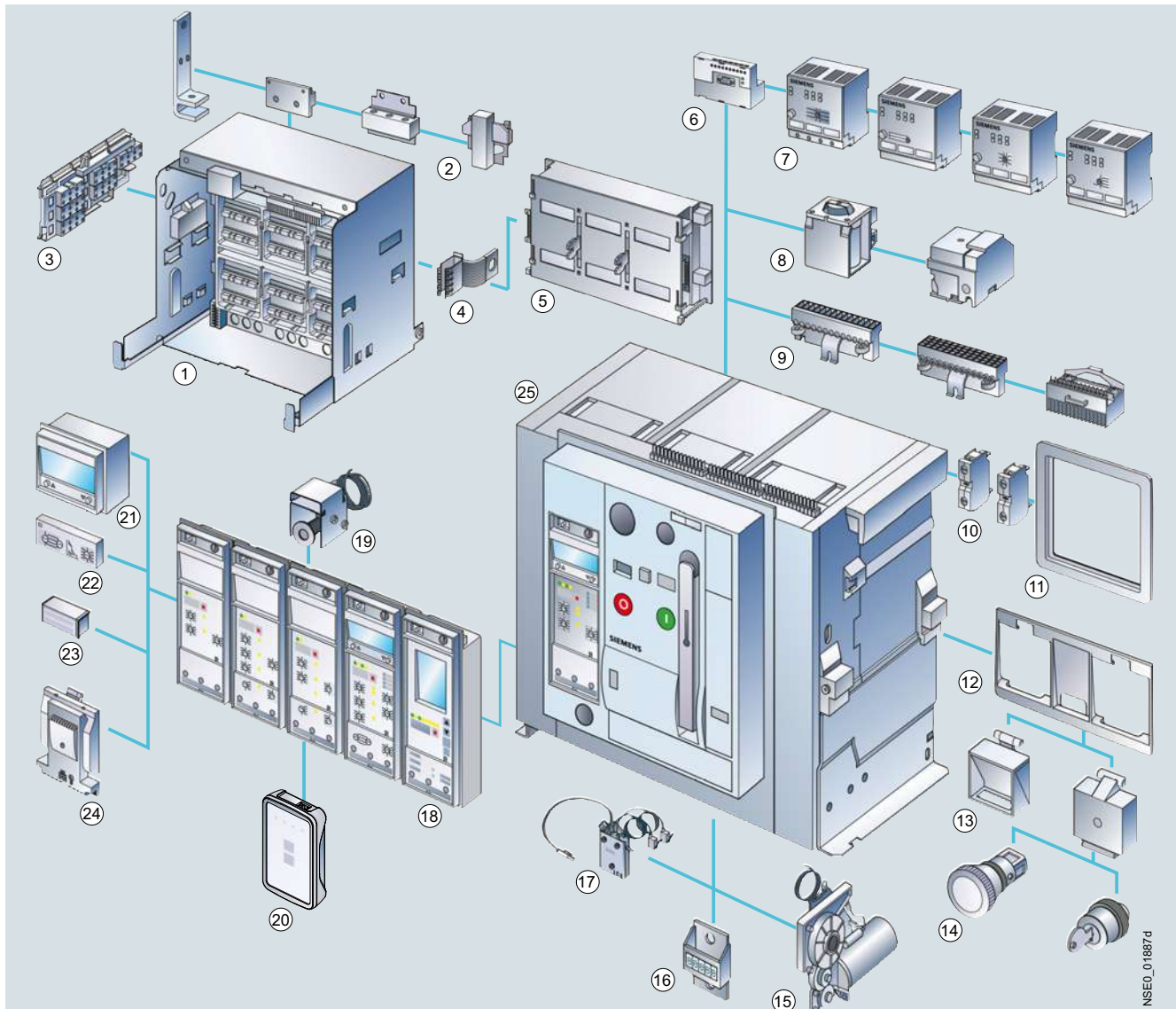
Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	3WL.1					
 <p><b>Main conductor connections, fixed-mounted, main conductor connections, withdrawable</b></p> <p>NSE0_01010</p>	1/79, 1/80	Front-accessible main connections with double or single hole, rear vertical main connections, rear horizontal main connections, circuit connecting flanges, supports for front and DIN connecting bars	As for circuit breakers	✓	--	✓
<b>Conversion sets</b>	1/81	Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers	As for circuit breakers	✓	--	✓
 <p><b>Main contact elements</b></p> <p>NSE0_01021</p>	1/81	For replacement of the main contacts during maintenance and thus to boost the useful life of the breaker.	As for circuit breakers	✓	--	✓



## Overview

3WL1 air circuit breakers offer highly flexible application and consistent communication capability. With the 3WL1 circuit breakers, just three sizes cover a performance range of 630 A

to 6300 A. All models are characterized by the same design, the same operation and the same comprehensive accessories.



NSE0\_01887d

- |   |   |   |  |
|---|---|---|--|
| ① | Guide frame (page 1/60 to page 1/66)  | ⑩ | Auxiliary switch block (page 1/51 and 1/74)                                  |
| ② | Main circuit connection front, flange, horizontal, vertical, (page 1/57, 1/79 and 1/80) | ⑪ | Door sealing frame (page 1/54 and 1/75)                                      |
| ③ | Position signaling switch (page 1/55 and 1/72)  | ⑫ | Interlocking set for mechanical ON/OFF (page 1/69)                           |
| ④ | Grounding connection, leading (page 1/76)   | ⑬ | Transparent panel, function insert (page 1/69)                               |
| ⑤ | Shutters (page 1/55 and 1/75)   | ⑭ | EMERGENCY-STOP pushbutton, key operated (page 1/72)                          |
| ⑥ | COM15 PROFIBUS module or COM16 Modbus module (page 1/55 and 1/77)                       | ⑮ | Motorized operating mechanism (page 1/54 and 1/74)                           |
| ⑦ | External <b>CubicleBUS</b> modules (page 1/76)  | ⑯ | Remote reset solenoid (page 1/54 and 1/69)                                   |
| ⑧ | Closing coil, auxiliary release (page 1/51, 1/54 and 1/74)                              | ⑰ | Operating cycles counter (page 1/54 and 1/72)                                |
| ⑨ | Auxiliary conductor plug-in system (page 1/56 and 1/73)                                 | ⑱ | Breaker Status Sensor (BSS) (page 1/55 and 1/77)                             |
| ⑩ | Auxiliary switch block (page 1/51 and 1/74)   | ⑳ | Protective device with device holder, Electronic Trip Unit (ETU) (page 1/68) |
| ⑪ | Door sealing frame (page 1/54 and 1/75)   | ㉑ | Test Device TD400 (page 1/76)  |
| ⑫ | Interlocking set for mechanical ON/OFF (page 1/69)                                      | ㉒ | Four-line display (page 1/68)  |
| ⑬ | Transparent panel, function insert (page 1/69)  | ㉓ | Ground-fault protection module (page 1/68)                                   |
| ⑭ | EMERGENCY-STOP pushbutton, key operated (page 1/72)                                     | ㉔ | Rating plug (page 1/52 and 1/68)   |
| ⑮ | Motorized operating mechanism (page 1/54 and 1/74)                                      | ㉕ | Metering function module (page 1/55 and 1/68)                                |
| ⑯ | Remote reset solenoid (page 1/54 and 1/69)  | ㉖ | Air circuit breaker (page 1/23 to 1/50)                                      |
| ⑰ | Operating cycles counter (page 1/54 and 1/72)   |   |  |
| ⑱ | Breaker Status Sensor (BSS) (page 1/55 and 1/77)  |   |  |
| ⑳ | Protective device with device holder, Electronic Trip Unit (ETU) (page 1/68)            |   |  |
| ㉑ | Test Device TD400 (page 1/76)   |   |  |
| ㉒ | Four-line display (page 1/68)   |   |  |
| ㉓ | Ground-fault protection module (page 1/68)  |   |  |
| ㉔ | Rating plug (page 1/52 and 1/68)  |   |  |
| ㉕ | Metering function module (page 1/55 and 1/68)   |   |  |
| ㉖ | Air circuit breaker (page 1/23 to 1/50)   |   |  |

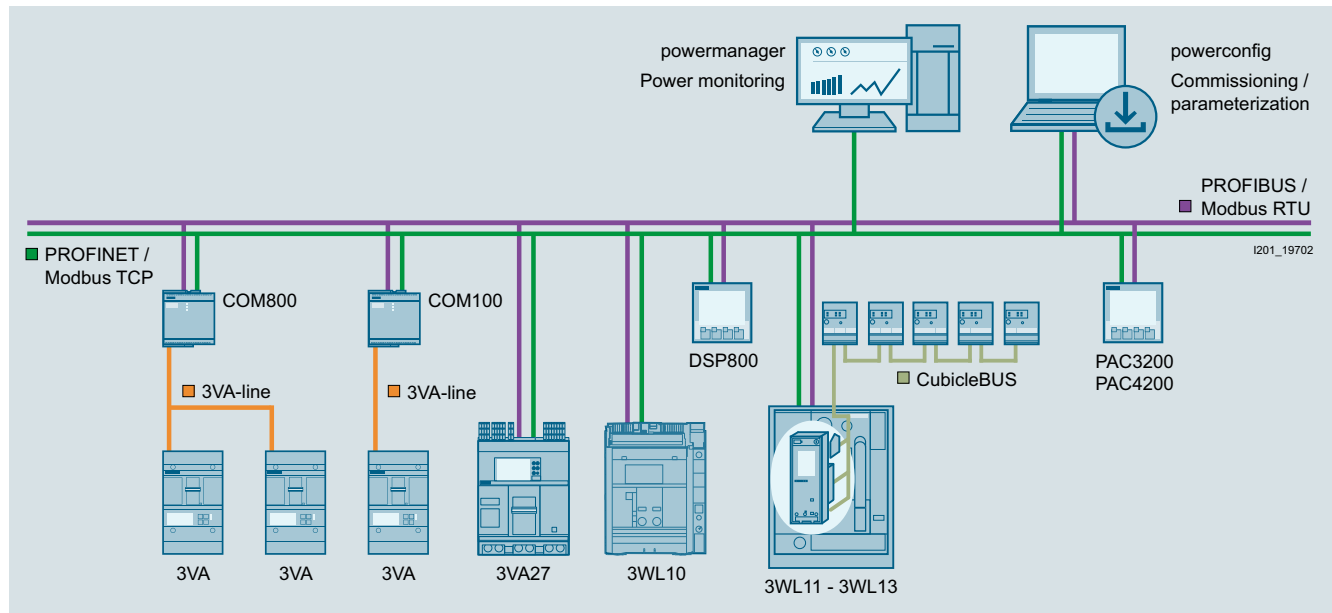
## Air Circuit Breakers

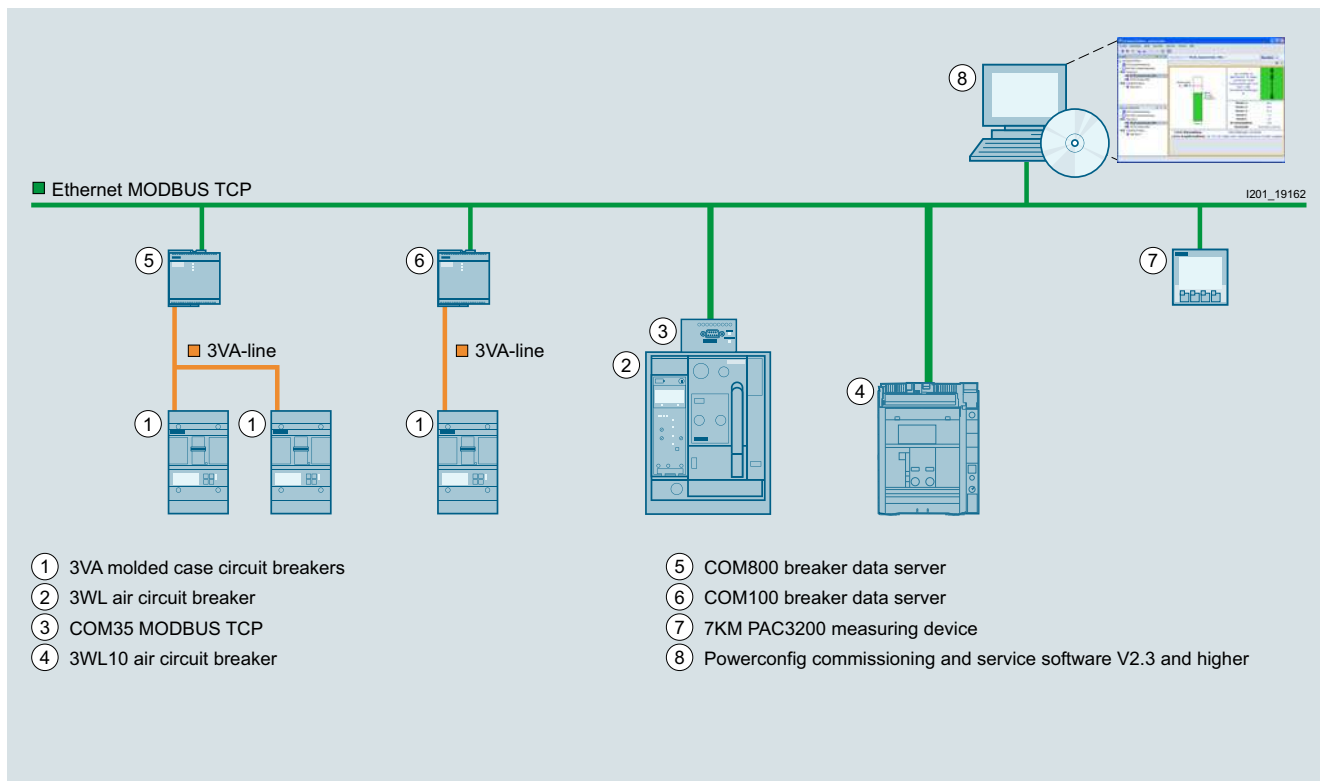
3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Introduction

### Overview

#### Communication-capable circuit breakers (with ETU45B or ETU76B Electronic Trip Unit)





### Characteristics

- Coordinated communication concept on PROFINET IO, PROFIBUS DP, Modbus TCP and Modbus RTU from 16 A to 6300 A with 3VA molded case circuit breakers and 3WL air circuit breakers
- The high level of modularity of circuit breakers and accessories allows easy retrofitting of all communication components
- Significant additional benefits for the switchboard due to the possibility of linking up external input and output modules to the circuit breaker-internal **CubicleBUS** of the 3WL air circuit breaker
- Innovative software products for parameterization, operation, monitoring, and diagnostics of circuit breakers locally
- Complete integration of the circuit breakers into the Totally Integrated Power and Totally Integrated Automation solutions

### Communication:

- For air circuit breakers with optional communication function (ETU45B or ETU76B Electronic Trip Unit), [see page 1/23 to page 1/50](#).
- For accessories, [see page 1/76 and page 1/77](#).
- For more information, [see Catalog LV10 chapter "Measuring Devices and Power Monitoring"](#) and [see Catalog LV 10 chapter "Monitoring Devices"](#).
- For configuring information, [see also Configuration Manual "Air Circuit Breakers" \(www.siemens.com/lowvoltage/manuals\)](#).

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

1

### Introduction

#### Benefits

##### Low space requirements

The 3WL1 air circuit breakers require very little space. Size I devices (up to 2000 A) fit into a 400 mm wide switchboard panel. Size III devices (up to 6300 A) are the smallest of their kind and with their construction width of 704 mm fit into an 800 mm wide switchboard panel.

The high number of electrical and mechanical operating cycles and the high  $I_{cw}(1s)$  values that normally match the  $I_{cu}$  and  $I_{cs}$  values of the switching devices offer possibilities for use in every application.

##### Modular design

Components such as auxiliary releases, motorized operating mechanisms, Electronic Trip Units, current sensors, auxiliary circuit signaling switches, automatic reset devices, interlocks and engagement operating mechanisms can all be exchanged or retrofitted at a later stage, thus allowing the circuit breaker to be adapted to new, changing requirements.

The main contact elements can all be replaced in order to increase the service life of the circuit breaker.

##### Retrofittable modules for Electronic Trip Units

Modularity is one of the main features of the new 3WL1 circuit breakers.

Special LCDs, ground-fault modules, rating plugs and communication modules for the Electronic Trip Units are available for fast and easy retrofitting and adaptation to changing requirements.

##### Communication/metering functions

The use of modern communication-capable circuit breakers opens up completely new possibilities in terms of commissioning, parameterization, diagnostics, maintenance and operation. This allows many different ways of reducing costs and improving productivity in industrial plants, buildings and infrastructure projects to be achieved:

- Fast and reliable parameterization
- Timely information and response can prevent plant stoppages
- Effective diagnostics management
- Measured values are the basis for efficient load management, for drawing up power demand profiles and for allocating energy to cost centers
- Preventive maintenance reduces the risk of expensive plant downtimes
- Metering function with a very wide range of measured values, such as current, voltage, energy, power, etc.
- Can be used in 690 V networks

#### Application

- As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations.
- For switching and protecting motors, capacitors, generators, transformers, busbars and cables.

When connected to an electronic I&C system, the air circuit breakers offer a wide range of options for monitoring network events.

Air circuit breakers belong to the SENTRON product family of protection, switching, measuring and monitoring devices and can be used in applications between 16 A and 6300 A.

The AC devices are available as circuit breakers and non-automatic air circuit breakers. The 3WL1 air circuit breakers can also be used at -40 °C.

#### Standards

3WL1 air circuit breakers comply with:

- IEC 60947-2
- IEC 60947-2 Annex F/CISPR 11/22 Class B
- Climate-proof according to IEC 60068-2-30.

For further standards, see chapter "Appendix".

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

## Technical specifications

Size	I				II					
Type	...	3WL11 10	3WL11 12	3WL11 16	3WL11 20	3WL12 08	3WL12 10	3WL12 12	3WL12 16	
<b>Number of poles</b>	3-pole, 4-pole									
<b>Rated current <math>I_n</math> at 40 °C, at 50/60 Hz</b>										
Main conductor	A	... 1000	1250	1600	2000	800	1000	1250	1600	
N conductor (only on 4-pole versions)	A	... 1000	1250	1600	2000	800	1000	1250	1600	
<b>Rated operational voltage <math>U_o</math> at 50/60 Hz</b> (1000 V version, see page 1/52 "Options")	V AC	...	...	...	...	...	...	...	...	
		690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	
<b>Rated insulation voltage <math>U_i</math></b>	V AC	1000	1000	1000	1000	1000	1000	1000	1000	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>										
• Main conducting paths	kV	12	12	12	12	12	12	12	12	
• Auxiliary circuits	kV	4	4	4	4	4	4	4	4	
• Control circuits <sup>9)</sup>	kV	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
<b>Isolating function acc. to EN 60947-2</b>		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Utilization category</b>		B								
<b>Permissible ambient temperature</b>										
• During operation (in operation with LCD max. 55 °C) <sup>1)</sup>	°C	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	
• Storage	°C	-40/+80	-40/+80	-40/+80	-40/+80	-40/+80	-40/+80	-40/+80	-40/+80	
<b>Permissible load for withdrawable versions</b>										
• Up to 55 °C (Cu, bare)	A	1000	1250	1600	2000	800	1000	1250	1600	
• Up to 60 °C (Cu, bare) <sup>2)</sup>	A	1000	1250	1600	1930	800	1000	1250	1600	
at rear horizontal main connections	A	1000	1210	1490 <sup>3)</sup>	1780	800	1000	1250	1600	
• Up to 70 °C (Cu black, painted) <sup>2)</sup>	A	1000	1210	1490 <sup>3)</sup>	1780	800	1000	1250	1600	
<b>Rated rotor operational voltage <math>U_{er}</math></b>	V	2000	2000	2000	2000	2000	2000	2000	2000	
<b>Power loss at <math>I_n</math></b>										
With three-phase symmetrical load										
• Fixed-mounted circuit breakers	W	100	105	150	240	40	45	80	85	
• Withdrawable circuit breakers	W	195	205	350	440	85	95	165	175	
<b>Switching times</b>										
• Make time	ms	35	35	35	35	35	35	35	35	
• Opening time	ms	38	38	38	38	34	34	34	34	
• Electrical make time (through closing coil) <sup>4)</sup>	ms	80	80	80	80	100	100	100	100	
• Electrical opening time (through shunt release)	ms	73	73	73	73	73	73	73	73	
• Electrical opening time (instantaneous undervoltage release)	ms	73	73	73	73	73	73	73	73	
• Opening time due to ETU, instantaneous short-circuit release	ms	50	50	50	50	50	50	50	50	
<b>Service life: Breaking capacity N and S, 3/4-pole</b>										
• Mechanical (without maintenance)	Oper. cycles	15 000	15 000	15 000	15 000	10 000	10 000	10 000	10 000	
• Mechanical (with maintenance) <sup>5)</sup>	Oper. cycles	25 000	25 000	25 000	25 000	17 500	17 500	17 500	17 500	
• Electrical (without maintenance)	Oper. cycles	10 000	10 000	10 000	7 500	7 500	7 500	7 500	7 500	
• 1000 V version, electrical (without maintenance)	Oper. cycles	--	--	--	--	--	--	--	--	
• 1150 V version, electrical (without maintenance)	Oper. cycles	--	--	--	--	--	--	--	--	
• Electrical (with maintenance) <sup>5)</sup>	Oper. cycles	25 000	25 000	25 000	25 000	17 500	17 500	17 500	17 500	
<b>Service life: Breaking capacity H, 3-pole</b>										
• Mechanical (without maintenance)	Oper. cycles	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	
• Mechanical (with maintenance) <sup>5)</sup>	Oper. cycles	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	
• Electrical (without maintenance)	Oper. cycles	7 500	7 500	7 500	7 500	7 500	7 500	7 500	7 500	
• 1000 V version, electrical (without maintenance)	Oper. cycles	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	
• 1150 V version, electrical (without maintenance)	Oper. cycles	--	--	--	--	500	500	500	500	
• Electrical (with maintenance) <sup>5)</sup>	Oper. cycles	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	
<b>Service life: Breaking capacity H, 4-pole</b>										
• Mechanical (without maintenance)	Oper. cycles	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	
• Mechanical (with maintenance) <sup>5)</sup>	Oper. cycles	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	
• Electrical (without maintenance)	Oper. cycles	7 500	7 500	7 500	7 500	7 500	7 500	7 500	7 500	
• 1000 V version, electrical (without maintenance)	Oper. cycles	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	
• 1150 V version, electrical (without maintenance)	Oper. cycles	--	--	--	--	500	500	500	500	
• Electrical (with maintenance) <sup>5)</sup>	Oper. cycles	10 000	10 000	10 000	10 000	15 000	15 000	15 000	15 000	
<b>Service life: Breaking capacity C</b>										
• Mechanical (without maintenance)	Oper. cycles	--	--	--	--	5 000	5 000	5 000	5 000	
• Mechanical (with maintenance) <sup>5)</sup>	Oper. cycles	--	--	--	--	10 000	10 000	10 000	10 000	
• Electrical (without maintenance)	Oper. cycles	--	--	--	--	5 000	5 000	5 000	5 000	
• Electrical (with maintenance) <sup>5)</sup>	Oper. cycles	--	--	--	--	10 000	10 000	10 000	10 000	
<b>Switching frequency<sup>7)</sup></b>										
• 690 V version	1/h	60 <sup>8)</sup>	60 <sup>8)</sup>	60 <sup>8)</sup>	60	60 <sup>8)</sup>	60 <sup>8)</sup>	60 <sup>8)</sup>	60 <sup>8)</sup>	
• 1000 V version	1/h	--	--	--	20	20	20	20	20	
• 1150 V version	1/h	--	--	--	--	20	20	20	20	
<b>Minimum interval</b> between tripping operation by Electronic Trip Unit and next making operation of the circuit breaker (only with automatic mechanical resetting of the lockout device).	ms	80	80	80	80	80	80	80	80	
Minimum interval between On-Off or Off-On switching operations.										

1) Use of trip units from -20 °C.

2) ETU76B with graphics display can be used up to max. 55 °C.

3) At breaking capacity H: 1600 A to 70 °C.

4) Make time through closing coil for synchronization purposes (short-time excited) 50 ms.

5) Maintenance means: Replace main contact elements and arc chutes (see Operating Manual).

6) Replacement of the main contact elements of circuit breakers size I with breaking capacity H is only possible at the factory.

7) Minimum interval time between 2 tripping operations.

8) 3-pole switching with breaking capacity N and S: 45/h.

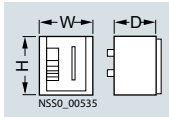
9) Motorized operating mechanisms  $U_{imp} = 1.2$  kV

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## General data

Size	I				II					
Type	3WL11 10	3WL11 12	3WL11 16	3WL11 20	3WL12 08	3WL12 10	3WL12 12	3WL12 16		
<b>Mounting position</b>										
<b>Degree of protection</b>	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover									
<b>Main conductor minimum cross-sections</b>	<ul style="list-style-type: none"> <li>Copper bars, bare</li> <li>Copper bars, painted black</li> </ul>	Unit(s)	1 x	2 x	2 x	3 x	1 x	1 x	2 x	2 x
		mm <sup>2</sup>	60 x 10	40 x 10	50 x 10	50 x 10	50 x 10	60 x 10	40 x 10	50 x 10
		Unit(s)	1 x	2 x	2 x	3 x	1 x	1 x	2 x	2 x
		mm <sup>2</sup>	60 x 10	40 x 10	50 x 10	50 x 10	50 x 10	60 x 10	40 x 10	50 x 10
<b>Auxiliary conductors (Cu)</b>	Standard connection = strain-relief clamp									
Max. number auxiliary conductors x cross-section (solid/stranded)	<ul style="list-style-type: none"> <li>Without end sleeve</li> <li>With end sleeve acc. to DIN 46228 Part 2</li> <li>With twin end sleeve</li> </ul>	2 x 0.5 mm <sup>2</sup> (AWG 20) ... 2 x 1.5 mm <sup>2</sup> (AWG 16); 1 x 2.5 mm <sup>2</sup> (AWG 14)								
	Optional connection = tension spring									
	<ul style="list-style-type: none"> <li>Without end sleeve</li> <li>With end sleeve acc. to DIN 46228 Part 2</li> </ul>	2 x 0.5 mm <sup>2</sup> (AWG 20) ... 2 x 2.5 mm <sup>2</sup> (AWG 14) 2 x 0.5 mm <sup>2</sup> (AWG 20) ... 2 x 1.5 mm <sup>2</sup> (AWG 16)								
<b>Position signaling switches</b>	Tension spring terminals	1 x 0.5 mm <sup>2</sup> (AWG 20) ... 1 x 2.5 mm <sup>2</sup> (AWG 14)								
<b>Weights</b>	3-pole	kg	43	43	43	43	56	56	56	56
	4-pole	kg	45	45	45	45	60	60	60	60
		kg	25	25	25	25	31	31	31	31
		kg	50	50	50	50	67	67	67	67
		kg	54	54	54	54	72	72	72	72
		kg	30	30	30	30	37	37	37	37
<b>Dimensions 3/4-pole</b>		W mm	320/410				460/590			
	Fixed-mounted	H mm	434				434			
		D mm	291				291			
	Withdrawable	H mm	465.5				465.5			
		D mm	471				471			



CubicleBUS module	Number of modules per CubicleBUS	Max. continuous current per module from the Cubicle-BUS	Max. startup current per module from the CubicleBUS
<b>ETU45B Electronic Trip Unit</b>	1	120 mA	2000 mA
<b>ETU76B Electronic Trip Unit</b>	1	170 mA	2000 mA
<b>Metering function PLUS</b>	1	120 mA	120 mA
<b>Breaker Status Sensor BSS</b>	1	40 mA	110 mA
<b>Communication module</b>	1	125 mA	280 mA
<b>ZSI module</b>	1	50 mA	125 mA
<b>Digital output modules with rotary coding switch, relay outputs</b>	1-2	180 mA	125 mA
<b>Digital output modules, configurable, relay outputs</b>	1	180 mA	125 mA
<b>Analog output modules</b>	1-2	110 mA	800 mA
<b>Digital input modules</b>	1-2	30 mA	125 mA



# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

Size	II				III			
Type	3WL12 20	3WL12 25	3WL12 32	3WL12 40	3WL13 40	3WL13 50	3WL13 63	
<b>Number of poles</b>	3-pole, 4-pole							
<b>Rated current <math>I_n</math></b> at 40 °C, at 50/60 Hz								
Main conductor	A 2000	2500	3200	4000	4000	5000	6300	
N conductor (only on 4-pole versions)	A 2000	2500	3200	4000	4000	5000	6300	
<b>Rated operational voltage <math>U_e</math></b> at 50/60 Hz (1000 V version, see page 1/52 "Options")	V AC ...	...	...	...	...	...	...	
	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	
<b>Rated insulation voltage <math>U_i</math></b>	V AC 1000	1000	1000	1000	1000	1000	1000	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>								
• Main conducting paths	kV 12	12	12	12	12	12	12	
• Auxiliary circuits	kV 4	4	4	4	4	4	4	
• Control circuits <sup>10)</sup>	kV 2.5	2.5	2.5	2.5	2.5	2.5	2.5	
<b>Isolating function acc. to EN 60947-2</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Utilization category</b>	B							
<b>Permissible ambient temperature</b>								
• During operation (in operation with LCD max. 55 °C) <sup>1)</sup>	°C -40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	
• Storage	°C -40/+80	-40/+80	-40/+80	-40/+80	-40/+80	-40/+80	-40/+80	
<b>Permissible load for withdrawable versions<sup>2) 4)</sup></b>								
• Up to 55 °C (Cu, bare)	A 2000	2500	3200	3950	4000	5000	5920	
• Up to 60 °C (Cu, bare)	A 2000	2500	3020	3810	4000	5000	5810	
• Up to 70 °C (Cu black, painted)	A 2000	2280	2870	3600	4000	5000	5500	
<b>Rated rotor operational voltage <math>U_{er}</math></b>	V 2000	2000	2000	2000	2000	2000	2000	
<b>Power loss at <math>I_n</math></b>								
With three-phase symmetrical load								
• Fixed-mounted circuit breakers	W 180	270	410	750	520	630	900	
• Withdrawable circuit breakers	W 320	520	710	925	810	1050	1600	
<b>Switching times</b>								
• Make time	ms 35	35	35	35	35	35	35	
• Opening time	ms 34	34	34	34	34	34	34	
• Electrical make time (through closing coil) <sup>5)</sup>	ms 100	100	100	100	100	100	100	
• Electrical opening time (through shunt release)	ms 73	73	73	73	73	73	73	
• Electrical opening time (instantaneous undervoltage release)	ms 73	73	73	73	73	73	73	
• Opening time due to ETU, instantaneous short-circuit release	ms 50	50	50	50	50	50	50	
<b>Service life: Breaking capacity N, S</b>								
• Mechanical (without maintenance)	Operating cycles 10 000	10 000	10 000	10 000	--	--	--	
• Mechanical (with maintenance) <sup>6)</sup>	Operating cycles 17 500	17 500	17 500	17 500	--	--	--	
• Electrical (without maintenance) up to 690 V	Operating cycles 7 500	7 500	4 000	2 000	--	--	--	
• 1000 V version, electrical (without maintenance)	Operating cycles --	--	--	--	--	--	--	
• 1150 V version, electrical <sup>7)</sup> (without maintenance)	Operating cycles --	--	--	--	--	--	--	
• Electrical (with maintenance) <sup>6)</sup>	Operating cycles 17 500	17 500	17 500	17 500	--	--	--	
<b>Service life: Switching capacity H</b>								
• Mechanical (without maintenance)	Operating cycles 10 000	10 000	10 000	10 000	5 000	5 000	5 000	
• Mechanical (with maintenance) <sup>6)</sup>	Operating cycles 15 000	15 000	15 000	15 000	10 000	10 000	10 000	
• Electrical (without maintenance) up to 690 V	Operating cycles 7 500	7 500	4 000	2 000	2 000	2 000	2 000	
• 1000 V version, electrical (without maintenance)	Operating cycles 1 000	1 000	1 000	1 000	1 000	1 000	1 000	
• 1150 V version, electrical <sup>7)</sup> (without maintenance)	Operating cycles 500	500	500	500	500	500	500	
• Electrical (with maintenance) <sup>6)</sup>	Operating cycles 15 000	15 000	15 000	15 000	10 000	10 000	10 000	
<b>Service life: Breaking capacity C</b>								
• Mechanical (without maintenance)	Operating cycles 5 000	5 000	5 000	--	5 000	5 000	5 000	
• Mechanical (with maintenance) <sup>6)</sup>	Operating cycles 10 000	10 000	10 000	--	10 000	10 000	10 000	
• Electrical (without maintenance) up to 690 V	Operating cycles 5 000	5 000	4 000	--	1 000	1 000	1 000	
• Electrical (without maintenance) up to 1150 V	Operating cycles --	--	--	--	--	--	--	
• Electrical (with maintenance) up to 690 V <sup>6)</sup>	Operating cycles 10 000	10 000	8 000	--	--	--	--	
<b>Switching frequency<sup>8)</sup></b>								
• 690 V version	1/h 60 <sup>9)</sup>	60 <sup>9)</sup>	60 <sup>9)</sup>	60 <sup>9)</sup>	60	60	60	
• 1000 V version	1/h 20	20	20	20	20	20	20	
• 1150 V version <sup>7)</sup>	1/h 20	20	20	20	20	20	20	
<b>Minimum interval</b> between tripping operation by Electronic Trip Unit and next making operation of the circuit breaker (only with automatic mechanical resetting of the lockout device).	ms 80	80	80	80	80	80	80	
Minimum interval between On-Off or Off-On switching operations.								

1) Use of trip units from -20 °C.

2) 4000 A, size II in fixed-mounted version, 3-pole.

4) ETU76B with graphics display can be used up to max. 55 °C.

5) Make time through closing coil for synchronization purposes (short-time excited) 50 ms.

6) Maintenance means: Replace main contact elements and arc chutes (see Operating Manual).

7) Size II and size III with order code "A15".

8) Minimum interval time between 2 tripping operations.

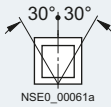
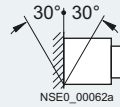
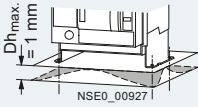
9) 3-pole switching with breaking capacity N and S: 45/h.

10) Motorized operating mechanism  $U_{imp} = 1.2 \text{ kV}$

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## General data

Size	II				III								
Type	3WL12 20	3WL12 25	3WL12 32	3WL12 40	3WL13 40	3WL13 50	3WL13 63						
<b>Mounting position</b>	 NSE0_00061a		and/ or	 NSE0_00062a		 NSE0_00927 I							
<b>Degree of protection</b>	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover												
<b>Main conductor minimum cross-sections</b>	<ul style="list-style-type: none"> <li>Copper bars, bare</li> </ul>	<ul style="list-style-type: none"> <li>Copper bars, painted black</li> </ul>											
	Unit(s)	3 ×	2 ×	3 ×	4 ×	4 ×	6 ×	6 ×					
	mm <sup>2</sup>	50 × 10	100 × 10	100 × 10	120 × 10	100 × 10	100 × 10	120 × 10					
	Unit(s)	3 ×	2 ×	3 ×	4 ×	4 ×	6 ×	6 ×					
	mm <sup>2</sup>	50 × 10	100 × 10	100 × 10	100 × 10 <sup>1)</sup>	100 × 10	100 × 10	120 × 10					
<b>Auxiliary conductors (Cu)</b>	Standard connection = strain-relief clamp												
Max. number of auxiliary conductors × cross-section (solid/stranded)	<ul style="list-style-type: none"> <li>Without end sleeve</li> <li>With end sleeve acc. to DIN 46228 Part 2</li> <li>With twin end sleeve</li> </ul>												
	Optional connection = tension spring												
	<ul style="list-style-type: none"> <li>Without end sleeve</li> <li>With end sleeve acc. to DIN 46228 Part 2</li> </ul>												
<b>Position signaling switches</b>	Tension spring terminals												
	1 × 0.5 mm <sup>2</sup> (AWG 20) ... 1 × 2.5 mm <sup>2</sup> (AWG 14)												
<b>Weights</b>	3-pole	<ul style="list-style-type: none"> <li>Fixed-mounted circuit breakers</li> <li>Withdrawable circuit breakers</li> <li>Guide frames</li> </ul>	kg	56	59	64	85	82	82	88	88	96	90
	4-pole	<ul style="list-style-type: none"> <li>Fixed-mounted circuit breakers</li> <li>Withdrawable circuit breakers</li> <li>Guide frames</li> </ul>	kg	67	71	77	103	99	99	106	106	108	108
			kg	72	76	82	146	106	106	84	84	119	119
			kg	37	47	54	62	84	84				
<b>Dimensions</b>			W mm	460/590				704/914					
<b>3/4-pole</b>	Fixed-mounted	H mm	434				434						
		D mm	291				291						
	Withdrawable	H mm	465.5				465.5						
		D mm	471				471						

<sup>1)</sup> Minimum main conductor cross-sections for 4-pole withdrawable circuit breakers: 4 × 120 × 10 mm

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

**Breaking capacity without Z option A41**

Size	I					II					
Type	3WL11					3WL12					
Breaking capacity	N	S	H	H+Z=A16	H+Z=A05	N	S	H	H+Z=A05	H+Z=A15	C
	N	S	H	H	H	N	S	H	H	H	C
<b>Rated short-circuit breaking capacity</b>											
<i>Rated operational voltage <math>U_e</math> up to 415 V AC</i>											
$I_{cu}$	kA 55	66	85	85	85	66	85	100	100	100	130
$I_{cs}$	kA 55	66	85	85	85	66	85	100	100	100	130
$I_{cm}$	kA 121	145	187	187	187	145	187	220	220	220	286
<i>Rated operational voltage <math>U_e</math> up to 500 V AC</i>											
$I_{cu}$	kA 55	66	85	85	85	66	85	100	100	100	130
$I_{cs}$	kA 55	66	85	85	85	66	85	100	100	100	130
$I_{cm}$	kA 121	145	187	187	187	145	187	220	220	220	286
<i>Rated operational voltage <math>U_e</math> up to 690 V AC</i>											
$I_{cu}$	kA 42	50	66	85 / 50 <sup>5)</sup>	85	50	75	85	85	85	100
$I_{cs}$	kA 42	50	66	85 / 50 <sup>5)</sup>	85	50	75	85	85	85	100
$I_{cm}$	kA 88	105	145	187 / 150 <sup>5)</sup>	187	105	165	187	187	187	220
<i>Rated operational voltage <math>U_e</math> up to 1000 V AC</i>											
$I_{cu}$	kA --	--	--	--	50	--	--	--	85	85	--
$I_{cs}$	kA --	--	--	--	50	--	--	--	85	85	--
$I_{cm}$	kA --	--	--	--	105	--	--	--	187	187	--
<i>Rated operational voltage <math>U_e</math> up to 1150 V AC</i>											
$I_{cu}$	kA --	--	--	--	--	--	--	--	--	50	--
$I_{cs}$	kA --	--	--	--	--	--	--	--	--	50	--
$I_{cm}$	kA --	--	--	--	--	--	--	--	--	105	--
<b>Rated short-time withstand current <math>I_{cw}</math></b>											
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 500 V AC</i>											
0.5 s	kA 55	66	85	85	85	66	85	100	100	100	100
1 s	kA 50	66	85	85	85	66	85	85	85	85	100
2 s	kA 35 <sup>1)</sup> / 45 <sup>2)</sup>	45	70	70	70	66	66 <sup>3)</sup> / 85 <sup>4)</sup>	66 <sup>3)</sup> / 85 <sup>4)</sup>	66 <sup>3)</sup> / 85 <sup>4)</sup>	66 <sup>3)</sup> / 85 <sup>4)</sup>	85
3 s	kA 35 <sup>1)</sup> / 45 <sup>2)</sup>	35	60	60	60	55 <sup>3)</sup> / 66 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	75
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 690 V AC</i>											
0.5 s	kA 42	50	66	50 <sup>5)</sup>	85	50	75	85	85	85	100
1 s	kA 42	50	66	50 <sup>5)</sup>	85	50	75	85	85	85	100
2 s	kA 35 <sup>1)</sup> / 42 <sup>2)</sup>	45	66	50 <sup>5)</sup>	70	50	66 <sup>3)</sup> / 75 <sup>4)</sup>	66 <sup>3)</sup> / 85 <sup>4)</sup>	66 <sup>3)</sup> / 85 <sup>4)</sup>	66 <sup>3)</sup> / 85 <sup>4)</sup>	85
3 s	kA 30 <sup>1)</sup> / 45 <sup>2)</sup>	35	60	50 <sup>5)</sup>	60	50	55 <sup>3)</sup> / 75 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	75
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1000 V AC</i>											
0.5 s	kA --	--	--	--	50	--	--	--	85	85	--
1 s	kA --	--	--	--	50	--	--	--	85	85	--
2 s	kA --	--	--	--	50	--	--	--	66 <sup>3)</sup> / 85 <sup>4)</sup>	66 <sup>3)</sup> / 85 <sup>4)</sup>	--
3 s	kA --	--	--	--	50	--	--	--	55 <sup>3)</sup> / 75 <sup>4)</sup>	55 <sup>3)</sup> / 75 <sup>4)</sup>	--
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1150 V AC</i>											
0.5 s	kA --	--	--	--	--	--	--	--	--	50	--
1 s	kA --	--	--	--	--	--	--	--	--	50	--
2 s	kA --	--	--	--	--	--	--	--	--	50	--
3 s	kA --	--	--	--	--	--	--	--	--	50	--
<b>Rated conditional short-circuit current <math>I_{cc}</math> (0.5 s) of the non-automatic air circuit breakers</b>											
Up to 500 V AC	kA 55	66	85	85	85	66	85	100	100	100	130
Up to 690 V AC	kA 42	50	66	50 <sup>2)</sup>	85	50	75	85	85	85	100
Up to 1000 V AC	kA --	--	--	--	50	--	--	--	85	85	--
Up to 1150 V AC	kA --	--	--	--	--	--	--	--	--	50	--

- N Circuit breakers with ECO breaking capacity N
- S Circuit breakers with standard breaking capacity S
- H Circuit breakers with high breaking capacity H
- C Circuit breakers with very high breaking capacity C
- DC Non-automatic air circuit breakers with DC breaking capacity

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

**Note:**

- For further technical specifications, see the Configuration Manual "Air Circuit Breakers" ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

Abbreviations* (functions)	English long text	Explanation
L	Long Time Delay	Overload protection
S	Short Time Delay	Short-circuit protection (short-time delayed)
I	Instantaneous	Short-circuit protection (instantaneous)
N	Neutral Protection	Neutral conductor protection
G	Ground Fault	Ground-fault protection

\* Designations according to IEC 60947-2, Annex K.

- 1) Size I with  $I_{n \max} \leq 1250$  A.
- 2) Size I with  $I_{n \max} \geq 1600$  A.
- 3) Size II with  $I_{n \max} \leq 2500$  A.
- 4) Size II with  $I_{n \max} \geq 3200$  A.
- 5) Values apply for 690 V + 20%
- 6) In addition the values for rated short-time withstand current  $I_{cw}$  apply

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## General data

Size	III						
Type	3WL13						
Breaking capacity	H	H+Z=A05	H+Z=A15	C 3-pole	C 4-pole	C 3-pole +Z=A05	C 4-pole +Z=A05
	(H)	(H)	(H)	(C)	(C)	(C)	(C)
<b>Rated short-circuit breaking capacity</b>							
<i>Rated operational voltage <math>U_e</math> up to 415 V AC</i>							
$I_{cu}$	kA 100	100	100	150	130	150	130
$I_{cs}$	kA 100	100	100	150	130	150	130
$I_{cm}$	kA 220	220	220	330	286	330	286
<i>Rated operational voltage <math>U_e</math> up to 500 V AC</i>							
$I_{cu}$	kA 100	100	100	150	130	150	130
$I_{cs}$	kA 100	100	100	150	130	150	130
$I_{cm}$	kA 220	220	220	330	286	330	286
<i>Rated operational voltage <math>U_e</math> up to 690 V AC</i>							
$I_{cu}$	kA 85	100	100	150	130	150	130
$I_{cs}$	kA 85	100	100	150	130	150	130
$I_{cm}$	kA 187	220	220	330	286	330	286
<i>Rated operational voltage <math>U_e</math> up to 1000 V AC</i>							
$I_{cu}$	kA --	85	85	--	--	125	125
$I_{cs}$	kA --	85	85	--	--	125	125
$I_{cm}$	kA --	187	187	--	--	275	275
<i>Rated operational voltage <math>U_e</math> up to 1150 V AC</i>							
$I_{cu}$	kA --	--	70	--	--	--	--
$I_{cs}$	kA --	--	70	--	--	--	--
$I_{cm}$	kA --	--	154	--	--	--	--
<b>Rated short-time withstand current <math>I_{cw}</math></b>							
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 500 V AC</i>							
0.5 s	kA 100	100	100	130	120	130	120
1 s	kA 100	100	100	130	120	130	120
2 s	kA 100	100	100	130	120	130	120
3 s	kA 100	100	100	130	120	130	120
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 690 V AC</i>							
0.5 s	kA 85	100	100	130	120	130	120
1 s	kA 85	100	100	130	120	130	120
2 s	kA 85	100	100	130	120	130	120
3 s	kA 85	100	100	130	120	130	120
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1000 V AC</i>							
0.5 s	kA --	85	85	--	--	125	120
1 s	kA --	85	85	--	--	125	120
2 s	kA --	85	85	--	--	125	120
3 s	kA --	85	85	--	--	125	120
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1150 V AC</i>							
0.5 s	kA --	--	70	--	--	--	--
1 s	kA --	--	70	--	--	--	--
2 s	kA --	--	70	--	--	--	--
3 s	kA --	--	70	--	--	--	--
<b>Rated conditional short-circuit current <math>I_{cc}</math> (0.5 s) of the non-automatic air circuit breakers</b>							
Up to 500 V AC	kA 100	100	100	130	120	130	120
Up to 690 V AC	kA 85	100	100	130	120	130	120
Up to 1000 V AC	kA --	85	85	--	--	125	120
Up to 1150 V AC	kA --	70	70	--	--	--	--

- N Circuit breakers with ECO breaking capacity N
- S Circuit breakers with standard breaking capacity S
- H Circuit breakers with high breaking capacity H
- C Circuit breakers with very high breaking capacity C
- DC Non-automatic air circuit breakers with DC breaking capacity

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

### Note:

- For further technical specifications, see the Configuration Manual "Air Circuit Breakers" ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

Abbreviations* (functions)	English long text	Explanation
L	Long Time Delay	Overload protection
S	Short Time Delay	Short-circuit protection (short-time delayed)
I	Instantaneous	Short-circuit protection (instantaneous)
N	Neutral Protection	Neutral conductor protection
G	Ground Fault	Ground-fault protection

\* Designations according to IEC 60947-2, Annex K.

- 1) Size I with  $I_{n \max} \leq 1250$  A.
- 2) Size I with  $I_{n \max} \geq 1600$  A.
- 3) Size II with  $I_{n \max} \leq 2500$  A.
- 4) Size II with  $I_{n \max} \geq 3200$  A.
- 5) Values apply for 690 V + 20%
- 6) In addition the values for rated short-time withstand current  $I_{cw}$  apply

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

**Breaking capacity with Z option A41**

When installing the withdrawable circuit breaker in an existing guide frame and thus with an order including Z option A41, the following values apply.

Size	I					II						
Type	3WL11					3WL12						
Breaking capacity	N	S	H	H+Z=A16	H+Z=A05	N	S	H	H+Z=A05	H+Z=A15	C	
	(N)	(S)	(H)	(H)	(H)	(N)	(S)	(H)	(H)	(H)	(C)	
<b>Rated short-circuit breaking capacity</b>												
<i>Rated operational voltage <math>U_e</math> up to 415 V AC</i>												
$I_{cu}$	kA	55	66	85	85	66	66	80	100	100	100	130
$I_{cs}$	kA	55	66	85	85	66	66	80	100	100	100	130
$I_{cm}$	kA	121	145	187	145	145	145	176	220	220	220	286
<i>Rated operational voltage <math>U_e</math> up to 500 V AC</i>												
$I_{cu}$	kA	55	66	85	66	66	66	80	100	100	100	130
$I_{cs}$	kA	55	66	85	66	66	66	80	100	100	100	130
$I_{cm}$	kA	121	145	187	145	145	145	176	220	220	220	286
<i>Rated operational voltage <math>U_e</math> up to 690 V AC</i>												
$I_{cu}$	kA	42	50	66	66 / 50 <sup>5)</sup>	66	50	75	85	85	85	100
$I_{cs}$	kA	42	50	66	66 / 50 <sup>5)</sup>	66	50	75	85	85	85	100
$I_{cm}$	kA	88	105	145	145 / 105 <sup>5)</sup>	145	105	165	187	187	187	220
<i>Rated operational voltage <math>U_e</math> up to 1000 V AC</i>												
$I_{cu}$	kA	--	--	--	--	50	--	--	--	50	50	--
$I_{cs}$	kA	--	--	--	--	50	--	--	--	50	50	--
$I_{cm}$	kA	--	--	--	--	105	--	--	--	105	105	--
<i>Rated operational voltage <math>U_e</math> up to 1150 V AC</i>												
$I_{cu}$	kA	--	--	--	--	--	--	--	--	--	50	--
$I_{cs}$	kA	--	--	--	--	--	--	--	--	--	50	--
$I_{cm}$	kA	--	--	--	--	--	--	--	--	--	105	--
<b>IT network capable, the breaker is designed for this purpose</b>												
Up to 415 V AC	kA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Up to 500 V AC	kA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Up to 690 V AC	kA	--	--	--	--	Yes	--	--	--	Yes	Yes	--
Up to 1000 V AC	kA	--	--	--	--	--	--	--	--	--	--	--
Up to 1150 V AC	kA	--	--	--	--	--	--	--	--	--	--	--
<b>Rated short-time withstand current <math>I_{cw}</math></b>												
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 500 V AC</i>												
0.5 s	kA	55	66	75	66	66	66	80	100	100	100	100
1 s	kA	42	50	66	66	66	55	66	85	85	85	100
2 s	kA	29.5	35	46	46	46	39	46	65 <sup>3)</sup> / 70 <sup>4)</sup>	65 <sup>3)</sup> / 70 <sup>4)</sup>	65 <sup>3)</sup> / 70 <sup>4)</sup>	70
3 s	kA	24	29	44	44	44	32	44	50 <sup>3)</sup> / 65 <sup>4)</sup>	50 <sup>3)</sup> / 65 <sup>4)</sup>	50 <sup>3)</sup> / 65 <sup>4)</sup>	65
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 690 V AC</i>												
0.5 s	kA	55	50	66	66 / 50 <sup>5)</sup>	66	50	75	85	85	85	100
1 s	kA	42	50	66	66 / 50 <sup>5)</sup>	66	50	66	85	85	85	100
2 s	kA	29.5	35	46	46	46	39	46	65 <sup>3)</sup> / 70 <sup>4)</sup>	65 <sup>3)</sup> / 70 <sup>4)</sup>	65 <sup>3)</sup> / 70 <sup>4)</sup>	70
3 s	kA	24	29	44	44	44	32	44	50 <sup>3)</sup> / 65 <sup>4)</sup>	50 <sup>3)</sup> / 65 <sup>4)</sup>	50 <sup>3)</sup> / 65 <sup>4)</sup>	65
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1000 V AC</i>												
0.5 s	kA	--	--	--	--	50	--	--	--	50	50	--
1 s	kA	--	--	--	--	50	--	--	--	50	50	--
2 s	kA	--	--	--	--	46	--	--	--	50	50	--
3 s	kA	--	--	--	--	44	--	--	--	50	50	--
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1150 V AC</i>												
0.5 s	kA	--	--	--	--	--	--	--	--	--	50	--
1 s	kA	--	--	--	--	--	--	--	--	--	50	--
2 s	kA	--	--	--	--	--	--	--	--	--	50	--
3 s	kA	--	--	--	--	--	--	--	--	--	50	--
<b>Rated conditional short-circuit current <math>I_{cc}</math> (0.5 s) of the non-automatic air circuit breakers</b>												
Up to 500 V AC	kA	55	66	75	66	66	66	85	100	100	100	100
Up to 690 V AC	kA	42	50	66	66 / 50 <sup>2)</sup>	66	50	75	85	85	85	100
Up to 1000 V AC	kA	--	--	--	--	50	--	--	--	50	50	--
Up to 1150 V AC	kA	--	--	--	--	--	--	--	--	--	50	--

- N Circuit breakers with ECO breaking capacity N
- S Circuit breakers with standard breaking capacity S
- H Circuit breakers with high breaking capacity H
- C Circuit breakers with very high breaking capacity C
- DC Non-automatic air circuit breakers with DC breaking capacity

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

**Note:**

- For further technical specifications, see the Configuration Manual "Air Circuit Breakers" ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

1

### General data

Abbreviations* (functions)	English long text	Explanation
L	Long Time Delay	Overload protection
S	Short Time Delay	Short-circuit protection (short-time delayed)
I	Instantaneous	Short-circuit protection (instantaneous)
N	Neutral Protection	Neutral conductor protection
G	Ground Fault	Ground-fault protection

\* Designations according to IEC 60947-2, Annex K.

- 1) Size I with  $I_{n \max} \leq 1250$  A.
- 2) Size I with  $I_{n \max} \geq 1600$  A.
- 3) Size II with  $I_{n \max} \leq 2500$  A.
- 4) Size II with  $I_{n \max} \geq 3200$  A.
- 5) Values apply for 690 V + 20%
- 6) In addition the values for rated short-time withstand current  $I_{cw}$  apply



# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

Size	III				
Type	3WL13				
Breaking capacity	H	H+Z=A05	C 3-pole	C 4-pole	
	(H)	(H)	(C)	(C)	
<b>Rated short-circuit breaking capacity</b>					
<i>Rated operational voltage <math>U_e</math> up to 415 V AC</i>					
$I_{cu}$	kA	100	100	150	130
$I_{cs}$	kA	100	100	150	130
$I_{cm}$	kA	220	220	330	286
<i>Rated operational voltage <math>U_e</math> up to 500 V AC</i>					
$I_{cu}$	kA	100	100	150	130
$I_{cs}$	kA	100	100	150	130
$I_{cm}$	kA	220	220	330	286
<i>Rated operational voltage <math>U_e</math> up to 690 V AC</i>					
$I_{cu}$	kA	8517	85	150	130
$I_{cs}$	kA	85	85	150	130
$I_{cm}$	kA	187	187	330	286
<i>Rated operational voltage <math>U_e</math> up to 1000 V AC</i>					
$I_{cu}$	kA	--	50	70	70
$I_{cs}$	kA	--	50	70	70
$I_{cm}$	kA	--	105	154	154
<i>Rated operational voltage <math>U_e</math> up to 1150 V AC</i>					
$I_{cu}$	kA	--	--	70	70
$I_{cs}$	kA	--	--	70	70
$I_{cm}$	kA	--	--	154	154
<b>IT network capable, the breaker is designed for this purpose</b>					
Up to 415 V AC	kA	Yes	Yes	Yes	Yes
Up to 500 V AC	kA	Yes	Yes	Yes	Yes
Up to 690 V AC	kA	--	Yes	Yes	Yes
Up to 1000 V AC	kA	--	--	--	--
Up to 1150 V AC	kA	--	--	--	--
<b>Rated short-time withstand current <math>I_{cw}</math></b>					
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 500 V AC</i>					
0.5 s	kA	100	100	100	100
1 s	kA	100	100	100	100
2 s	kA	80	80	80	80
3 s	kA	65	65	65	65
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 690 V AC</i>					
0.5 s	kA	85	85	100	100
1 s	kA	85	85	100	100
2 s	kA	80	80	80	80
3 s	kA	65	65	65	65
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1000 V AC</i>					
0.5 s	kA	--	50	70	70
1 s	kA	--	50	70	70
2 s	kA	--	50	70	70
3 s	kA	--	50	65	65
<i>Rated short-time withstand current <math>I_{cw}</math> at <math>U_e</math> up to 1150 V AC</i>					
0.5 s	kA	--	--	70	70
1 s	kA	--	--	70	70
2 s	kA	--	--	70	70
3 s	kA	--	--	65	65
<b>Rated conditional short-circuit current <math>I_{cc}</math> (0.5 s) of the non-automatic air circuit breakers</b>					
Up to 500 V AC	kA	100	100	100	100
Up to 690 V AC	kA	85	100	100	100
Up to 1000 V AC	kA	--	50	70	70
Up to 1150 V AC	kA	--	--	70	70

- N Circuit breakers with ECO breaking capacity N
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- C Circuit breakers with very high breaking capacity C
- DC Non-automatic air circuit breakers with DC breaking capacity

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G	Ground Fault	Ground-fault protection

\* Designations according to IEC 60947-2, Annex K.

- 1) Size I with  $I_{n \max} \leq 1250$  A.
- 2) Size I with  $I_{n \max} \geq 1600$  A.
- 3) Size II with  $I_{n \max} \leq 2500$  A.
- 4) Size II with  $I_{n \max} \geq 3200$  A.
- 5) Values apply for 690 V + 20%
- 6) In addition the values for rated short-time withstand current  $I_{cw}$  apply

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

1

## General data

Size	I to III		
Type	3WL1		
<b>Manual operating mechanism with mechanical closing</b>			
<b>Switching on/ Charging the energy store</b>	Max. force required to operate the hand lever Required number of strokes on the hand lever	N	≤ 230 9
<b>Manual operating mechanism with mechanical and electrical closing</b>			
<b>Charging the energy store</b>			
<b>Closing coil (CC)</b>	<ul style="list-style-type: none"> <li>Primary operating range</li> <li>Extended operating range for battery operation</li> </ul>		0.85 ... 1.1 × $U_s$ 0.7 ... 1.26 × $U_s$
	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC		
	Rated control supply voltage $U_s$	50/60 Hz AC DC	V 110 ... 127; 208 ... 240 V 24; 30; 48; 60; 110 ... 125; 220 ... 250
	Power consumption	AC/DC	VA/ W 15/15
	Min. command duration at $U_s$ for the closing coil		ms 60
	Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		1 A TDz (slow)/1 A
<b>Manual/motorized operating mechanism with mechanical and electrical closing</b>			
<b>Manual operating mechanism</b>			
For data, see above.			
<b>Motor</b>	<ul style="list-style-type: none"> <li>Primary operating range</li> <li>Extended operating range for battery operation</li> </ul>		0.85 ... 1.1 × $U_s$ 0.7 ... 1.26 × $U_s$
	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC		
	Power consumption of motor	AC/DC	VA/ W 135/135
	Time required to charge the spring energy store at 1 × $U_s$		s ≤ 10
<b>Closing coil For motor and closing coil</b>	<ul style="list-style-type: none"> <li>Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; Motor and closing coil for same rated control supply voltages</li> <li>Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages)</li> </ul>		For data, see above. 6 A TDz (slow)/2 A
	At $U_s = 24 ... 30$ V At $U_s = 48 ... 60$ V At $U_s = 110 ... 125$ V DC/ 110 ... 127 V AC At $U_s = 220 ... 250$ V DC/ 208 ... 240 V AC		6 A 6 A 2 A 2 A
<b>Signals of the Electronic Trip Unit</b>			
<b>Measuring accuracy of the Electronic Trip Unit</b>			
Protection functions acc. to EN 60947; Current indication ≤ 10%; Metering function for base quantities ≤ 1%; Metering function for derived quantities ≤ 4%			
<b>Auxiliary releases</b>			
<b>Undervoltage releases UVR (F3) and UVR-<math>t_d</math> (F4)</b>	<ul style="list-style-type: none"> <li>Response values</li> <li>Primary operating range</li> <li>Extended operating range for battery operation</li> </ul>	Pickup Dropout	≥ 0.85 × $U_s$ (circuit breaker can be closed) 0.35 ... 0.7 × $U_s$ (circuit breaker is opened)
	At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC		0.85 ... 1.1 0.85 ... 1.26
	Rated control supply voltage $U_s$	Instantaneous 50/60 Hz AC DC	V 110 ... 127/208 ... 240/380 ... 415 V 24/30/48/60/110 ... 125/220 ... 250 <sup>1)</sup>
		Delayed 50/60 Hz AC DC	V 110 ... 127; 208 ... 240; 380 ... 415 V 48; 110 ... 125; 220 ... 250
	Power consumption (pickup/uninterrupted duty)	AC DC	VA W 20/5 W 20/5
	Opening time of the circuit breaker at $U_s = 0$		ms 200
	- Version UVR (F3)		
	Without delay		ms 73
	With delay		ms 200
	- Version UVR- $t_d$ (F4)		
	With delay, $t_d = 0.2$ to 3.2 s		s 0.2 ... 3.2
	Reset through additional NC contact – direct tripping		ms ≤ 100
	Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		1 A TDz (slow)/1 A

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

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

## General data

1

Size				I to III			
Type				3WL1			
<b>Auxiliary releases</b>							
<b>Shunt release (ST) (F1, F2)</b>	<ul style="list-style-type: none"> <li>For continuous command (100% OP), locks out on momentary-contact commands</li> </ul>	- Response value	Pickup	$> 0.7 \times U_s$ (circuit breaker is tripped)			
		- Primary operating range		$0.7 \dots 1.1 \times U_s$			
		- Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC		$0.7 \dots 1.26 \times U_s$		
		- Rated control supply voltage $U_s$	50/60 Hz AC DC	V	110 ... 127; 208 ... 240 24; 30; 48; 60; 110 ... 125; 220 ... 250		
		- Power consumption	AC/DC	VA/W	15/15		
		- Min. command duration at $U_s$		ms	60		
		- Opening time of the circuit breaker at $U_s = 100\%$	At AC/DC	ms	80		
		- Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic			1 A TDz (slow)/1 A		
		<b>5% ON period</b>					
		- Response value	Pickup		$> 0.7 \times U_s$ (circuit breaker is tripped)		
		- Primary operating range			$0.7 \dots 1.1 \times U_s$		
		- Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC		$0.7 \dots 1.26 \times U_s$		
		- Rated control supply voltage $U_s$	50/60 Hz AC DC	V	110 ... 127; 208 ... 240 24; 48; 110 ... 125; 220 ... 250		
- Power consumption	AC/DC	VA/W	15/15				
- Min. command duration at $U_s$		ms	25				
- Opening time of the circuit breaker at $U_s = 100\%$	At AC/DC	ms	50				
- Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic			1 A TDz (slow)/1 A				
<ul style="list-style-type: none"> <li>With spring energy store consisting of shunt release and capacitor storage device</li> </ul>	- Rated control supply voltage $U_s$	50/60 Hz AC DC	V	110; 230 110; 220			
	- Primary operating range			$0.85 \dots 1.1 \times U_s$			
	- Power consumption	AC/DC	VA/W	1/1			
	- Storage time at $U_s$ / Recharging time at $U_s$			max. 5 min./min. 5 s			
	- Opening time of the circuit breaker, short-circuit protection			As with "for continuous command"			
<b>Remote reset solenoid for mechanical tripped indicator (F7)</b>							
<b>Remote reset solenoid for mechanical tripped indicator (F7)</b>	- Primary operating range			$0.85 \dots 1.1 \times U_s$			
	- Extended operating range for battery operation	At 24 V DC, 48 V DC 110 V DC 220 V DC		$0.7 \dots 1.26 \times U_s$			
	- Power consumption	AC/DC	VA/W	50/50			
	- Min. command duration at $U_s$ for the remote reset solenoid		ms	60			
	- 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			
<b>Contact position-driven auxiliary switches (S1, S2, S3, S4, S7, S8)</b>							
<b>Rated insulation voltage <math>U_i</math></b>			V	500			
			AC/DC				
<b>Rated operational voltage <math>U_e</math></b>			V	500			
			AC/DC				
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>			kV	4			
<b>Breaking capacity</b>	<ul style="list-style-type: none"> <li>Alternating current 50/60 Hz</li> </ul>	- Rated operational voltage $U_e$	V	24 ... 230	380/400		
		- Rated operational current $I_e$ /AC-12	A	10	10		
		- Rated operational current $I_e$ /AC-15	A	4	3		
	<ul style="list-style-type: none"> <li>Direct current</li> </ul>	- Rated operational voltage $U_e$	V	24	48	110	220
		- Rated operational current $I_e$ /DC-12	A	10	8	3.5	1
		- Rated operational current $I_e$ /DC-13	A	8	4	1.2	0.4
<b>Short-circuit protection</b>	<ul style="list-style-type: none"> <li>Largest permissible DIAZED fuse (operational class gL)</li> <li>Largest permissible miniature circuit breaker with C characteristic</li> </ul>			10 A TDz, 10 A Dz			
				10 A			

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### General data

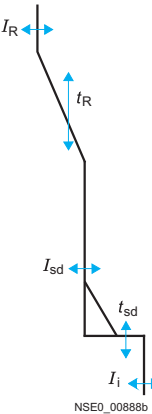

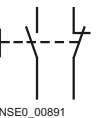
Size	I to III			
Type	3WL1			
<b>Ready-to-close signaling switches (S20) (acc. to DIN VDE 0630)</b>				
<b>Breaking capacity</b>	• Alternating current	- Rated operational voltage $U_e$	V	250
		- Rated operational current $I_e$	A	8
• Direct current	- Rated operational voltage $U_e$	V	125	250
	- Rated operational current $I_e$	A	0.4	0.2
<b>Short-circuit protection</b>	Largest permissible DIAZED fuse (operational class gL)			2 A Dz (quick)
<b>Tripped signaling switches (S24) and signaling switches for auxiliary releases (S22, S23) (acc. to DIN VDE 0630)</b>				
<b>Breaking capacity</b>	• Alternating current	- Rated operational voltage $U_e$	V	250
		- Rated operational current $I_e/AC-12$	A	8
• Direct current	- Rated operational voltage $U_e$	V	24	125
	- Rated operational current $I_e/DC-12$	A	6	0.4 0.2
<b>Short-circuit protection</b>	Largest permissible DIAZED fuse (operational class gL)			6 A Dz (quick)
<b>Tripped signaling switch</b>	Signal duration after tripping			Until manual or electrical remote reset (option)
<b>Position signaling switches on guide frame</b>				
<b>Type of contact</b>	• Signal:	- "Circuit breaker in connected position"	3 CO	1 CO
		- "Circuit breaker in test position"	2 CO	1 CO
		- "Circuit breaker in disconnected position"	1 CO	1 CO
			or	
<b>Rated insulation voltage <math>U_i</math></b>	50/60 Hz AC		V	440
	DC		V	250
<b>Rated operational voltage <math>U_e</math></b>			V	250
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>			kV	4
<b>Breaking capacity</b>	• Rated operational current $I_e$	- $I_e/AC-12$	24 V 10 A, 110/127 V 10 A, 220/240 V 10 A, 320/440 V 10 A	
		- $I_e/AC-15$	220/240 V 4 A, 320/440 V 3 A,	
		- $I_e/DC-12$	24 V 10 A, 48 V 2.5 A, 220/240 V 0.2 A,	
		- $I_e/DC-13$	24 V 3.0 A, 220/240 V 0.1 A	
		- A 300 (AC)	120 V 6 A, 240 V 3 A	
		- R 300 (DC)	125 V 0.22 A, 250 V 0.11 A	
<b>Short-circuit protection</b>	• Largest permissible DIAZED fuse (operational class gL)			8 A TDz (slow)
	• Largest permissible miniature circuit breaker with C characteristic			8 A TDz (slow)

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

Protection functions Parameterization by	ETU15B D	ETU25B D	ETU27B D & S	
<b>Function overview of the electronic trip system</b>				
	<b>Overload protection</b> Function can be switched on/off Setting range $I_R = I_n \times \dots$	✓ -- 0.5-0.55-0.6-0.65-0.7-0.75-0.8-0.85-0.9-1	✓ -- 0.4-0.45-0.5-0.55-0.6-0.65-0.7-0.8-0.9-1	
	<b>L</b> Switchable overload protection ( $I^2t$ - or $I^4t$ -dependent function) Setting range for time-lag class $t_R$ at $I^2t$ Setting range for time-lag class $t_R$ at $I^4t$ Thermal image can be switched on/off Phase failure sensitivity	-- 10 s fixed -- -- --	-- 10 s fixed -- -- At $t_{sd} = 20$ ms (M)	-- 10 s fixed -- -- At $t_{sd} = 20$ ms (M)
	<b>N</b> <b>N conductor protection</b> Function can be switched on/off N conductor setting range $I_N = I_n \times \dots$	-- --	-- --	✓ 1
	<b>S</b> <b>Short-time delayed short-circuit protection</b> Function can be switched on/off Setting range $I_{sd} = I_n \times \dots$ Setting range of delay time $t_{sd}$ Switchable short-time delayed short-circuit protection ( $I^2t$ -dependent function) Setting range of delay time $t_{sd}$ at $I^2t$ ZSI function	-- -- -- -- -- --	-- 1.25-1.5-2-2.5-3-4-6-8-10-12 0-M-100-200-300-400 ms -- -- --	-- 1.25-1.5-2-2.5-3-4-6-8-10-12 0-M-100-200-300-400 ms -- -- --
	<b>I</b> <b>Instantaneous short-circuit protection</b> Function can be switched on/off Setting range $I_i = I_n \times \dots$	✓ -- 2-3-4-5-6-7-8	✓ -- Fixed for $I_i \geq 20 \times I_n$ , max. 50 kA	✓ -- Fixed for $I_i \geq 20 \times I_n$ , max. 50 kA
	<b>G</b> <b>Ground-fault protection</b> Tripping and alarm functions Tripping function can be switched on/off Alarm function can be switched on/off Detection of the ground-fault current through summation current formation with internal or external N conductor transformer	-- -- -- -- --	-- -- -- -- --	✓ -- -- -- ✓
	Detection of ground-fault current through external current transformer Setting range of the operating current $I_g$ for tripping Setting range of the operating current $I_g$ for alarm Setting range of the delay time $t_g$ Switchable ground-fault characteristic ( $I^2t$ -dependent function) Setting range of delay time $t_g$ at $I^2t$ ZSI-G function	-- -- -- -- -- -- --	-- -- -- -- -- -- --	-- A-B-C-D-E -- 100-200-300-400-500 ms -- -- --
	<b>Parameter set changeover</b> Switchable between parameter set A and B	--	--	--
	<b>LCD</b> Alphanumeric LCD (4-line) Graphical LCD (24 V, external power supply required)	-- --	-- --	-- --
	<b>Self-monitoring / communication</b> Watchdog-monitored Communication-capable	✓ --	✓ --	✓ --
<b>Metering function</b> Metering capability with metering function Plus	--	--	--	
<b>LED display</b> Electronic Trip Unit active Alarm ETU fault L tripping operation S tripping operation I tripping operation N tripping operation G tripping operation G alarm Tripping operation as a result of extended protection function Communication	✓ ✓ ✓ -- -- -- -- -- -- -- -- -- -- -- --	✓ ✓ ✓ ✓ ✓ -- -- -- -- -- -- -- -- -- --	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ -- -- -- -- --	
 NSE0_00890				
<b>Signals from signaling switches with external CubicleBUS modules (relays)</b> Overload warning Load shedding, load absorbing Leading signal overload trip 200 ms Temperature alarm Phase unbalance Instantaneous short-circuit trip Short-time delayed short-circuit trip Overload trip Neutral conductor trip Ground-fault protection trip Ground-fault alarm Auxiliary relay ETU fault	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --	
 NSE0_00891				

Delay time figures given in ms.

M = Motor protection, corresponds to 20 ms.

D = Rotary coding switch

D &amp; S = Rotary coding and slide switch

K = Communication

M/K = Menu/Communication

✓ Available.

-- Not available.

□ optional.

For setting range of the operating current  $I_g$ , see page 1/22.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### General data

Protection functions Parameterization by	ETU45B D & S	ETU76B M/K
<b>Function overview of the electronic trip system</b>		
<b>Overload protection</b>	✓	✓
Function can be switched on/off	--	✓
Setting range $I_R = I_n \times \dots$	0.4-0.45-0.5-0.55-0.6- 0.65-0.7-0.8-0.9-1	0.4 ... 1
Switchable overload protection ( $I^2t$ or $I^2t$ -dependent function)	✓	✓
Setting range for time-lag class $t_R$ at $I^2t$	2-3.5-5.5-8-10-14-17-21-25-30 s	2 ... 30 s
Setting range for time-lag class $t_R$ at $I^4t$	1-2-3-4-5 s	1 ... 5 s
Thermal image can be switched on/off	✓	✓
Phase failure sensitivity	At $t_{sd} = 20$ ms (M)	✓ (on/off)
<b>N conductor protection</b>	✓	✓
Function can be switched on/off	✓	✓
N conductor setting range $I_N = I_n \times \dots$	0.5 ... 1	0.2 ... 2
<b>Short-time delayed short-circuit protection</b>	✓	✓
Function can be switched on/off	✓	✓
Setting range $I_{sd} = I_n \times \dots$	1.25-1.5-2-2.5-3-4-6-8-10-12	$1.25 \times I_n \dots 0.8 \times I_{Cw}$
Setting range of delay time $t_{sd}$	M-100-200-300-400 ms	M-80 ... 4000 ms
Switchable short-time delayed short-circuit protection ( $I^2t$ -dependent function)	✓	✓
Setting range of delay time $t_{sd}$ at $I^2t$	100-200-300-400 ms	100 ... 400 ms
ZSI function	By CubicleBUS module	By CubicleBUS module
<b>Instantaneous short-circuit protection</b>	✓	✓
Function can be switched on/off	✓	✓
Setting range $I_i = I_n \times \dots$	1.5-2.2-3-4-6-8-10-12-0.8 $\times I_{Cs}$	$1.5 \times I_n \dots 0.8 \times I_{Cs}$
<b>Ground-fault protection</b>	<input type="checkbox"/> Module can be retrofitted	<input type="checkbox"/> Module can be retrofitted
Tripping and alarm functions	✓	✓
Tripping function can be switched on/off	✓	✓
Alarm function can be switched on/off	--	✓
Detection of ground-fault current through summation current formation with internal or external N conductor transformer	✓	✓
Detection of ground-fault current through external current transformer	✓	✓
Setting range of the operating current $I_g$ for tripping	A-B-C-D-E	A ... E
Setting range of the operating current $I_g$ for alarm	A-B-C-D-E	A ... E
Setting range of the delay time $t_g$	100-200-300-400-500 ms	100 ... 500 ms
Switchable ground-fault characteristic ( $I^2t$ -dependent function)	✓	✓
Setting range of delay time $t_g$ at $I^2t$	100-200-300-400-500 ms	100 ... 500 ms
ZSI-G function	By CubicleBUS module	By CubicleBUS module
<b>Parameter set changeover</b>		
Switchable between parameter set A and B	--	✓
<b>LCD</b>		
Alphanumeric LCD (4-line)	<input type="checkbox"/>	--
Graphical LCD (24 V, external power supply required)	--	✓
<b>Self-monitoring / communication</b>		
Watchdog-monitored	✓	✓
Communication-capable	✓	✓
<b>Metering function</b>		
Metering capability with metering function <i>Plus</i>	✓	✓
<b>LED display</b>		
Electronic Trip Unit active	✓	✓
Alarm	✓	✓
ETU fault	✓	✓
L tripping operation	✓	✓
S tripping operation	✓	✓
I tripping operation	✓	✓
N tripping operation	✓	✓
G tripping operation	✓ (Only with ground-fault protection module)	✓ (Only with ground-fault protection module)
G alarm	✓ (Only with ground-fault protection module)	✓ (Only with ground-fault protection module)
Tripping operation as a result of extended protection functions	✓	✓
Communication	✓	✓
<b>Signals from signaling switches with external CubicleBUS modules (relays)</b>		
Overload warning	✓	✓
Load shedding, load absorbing	✓	✓
Leading signal overload trip 200 ms	✓	✓
Temperature alarm	✓	✓
Phase unbalance	✓	✓
Instantaneous short-circuit trip	✓	✓
Short-time delayed short-circuit trip	✓	✓
Overload trip	✓	✓
Neutral conductor trip	✓	✓
Ground-fault protection trip	✓ (Only with ground-fault protection module)	✓ (Only with ground-fault protection module)
Ground-fault alarm	✓ (Only with ground-fault protection module)	✓ (Only with ground-fault protection module)
Auxiliary relay	✓	✓
ETU fault	✓	✓

Legend, see page 1/21.

	Setting range of the operating current $I_g$	
	Size I and size II	Size III
A	100 A	400 A
B	300 A	600 A
C	600 A	800 A
D	900 A	1000 A
E	1200 A	1200 A

Increment size when settings are made for the ETU76B using the menu			
From ... to	Increment size	From ... to	Increment size
0 ... 1	0.1	1000 ... 1600	50
1 ... 100	1	1600 ... 10000	100
100 ... 500	5	10000 ... max.	1000
500 ... 1000	10		



# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

3-pole, fixed-mounted versions

1

**Selection and ordering data**

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS	PG	
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?ArticleNo.</a>	Basic price per PU			
<b>Horizontal main circuit connection</b>									
I	630	630	55		3WL1106-2□□62-□□□□		1	1 unit 1CA	
	800	800			3WL1108-2□□62-□□□□		1	1 unit 1CA	
	1000	1000			3WL1110-2□□62-□□□□		1	1 unit 1CA	
	1250	1250			3WL1112-2□□62-□□□□		1	1 unit 1CA	
	1600	1600			3WL1116-2□□62-□□□□		1	1 unit 1CA	
	2000	2000			3WL1120-2□□62-□□□□		1	1 unit 1CA	
II	800	800	66		3WL1208-2□□62-□□□□		1	1 unit 1CA	
	1000	1000			3WL1210-2□□62-□□□□		1	1 unit 1CA	
	1250	1250			3WL1212-2□□62-□□□□		1	1 unit 1CA	
	1600	1600			3WL1216-2□□62-□□□□		1	1 unit 1CA	
	2000	2000			3WL1220-2□□62-□□□□		1	1 unit 1CA	
	2500	2500			3WL1225-2□□62-□□□□		1	1 unit 1CA	
	3200	3200			3WL1232-2□□62-□□□□		1	1 unit 1CA	
							3WL1232-2□□62-□□□□	1	1 unit 1CA
<b>Vertical main circuit connection</b>									
I	630	630	55		3WL1106-2□□61-□□□□		1	1 unit 1CA	
	800	800			3WL1108-2□□61-□□□□		1	1 unit 1CA	
	1000	1000			3WL1110-2□□61-□□□□		1	1 unit 1CA	
	1250	1250			3WL1112-2□□61-□□□□		1	1 unit 1CA	
	1600	1600			3WL1116-2□□61-□□□□		1	1 unit 1CA	
	2000	2000			3WL1120-2□□61-□□□□		1	1 unit 1CA	
II	800	800	66		3WL1208-2□□61-□□□□		1	1 unit 1CA	
	1000	1000			3WL1210-2□□61-□□□□		1	1 unit 1CA	
	1250	1250			3WL1212-2□□61-□□□□		1	1 unit 1CA	
	1600	1600			3WL1216-2□□61-□□□□		1	1 unit 1CA	
	2000	2000			3WL1220-2□□61-□□□□		1	1 unit 1CA	
	2500	2500			3WL1225-2□□61-□□□□		1	1 unit 1CA	
	3200	3200			3WL1232-2□□61-□□□□		1	1 unit 1CA	
	4000	4000			3WL1240-2□□61-□□□□		1	1 unit 1CA	
							3WL1240-2□□61-□□□□	1	1 unit 1CA

**Options**

			Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b>	<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>		
	ETU15B: Protection functions LI <sup>6)</sup>	<b>BB</b>	✓
	ETU25B: Protection functions LSI	<b>CB</b>	✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b>	✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b>	✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b>	✓
	<b>Versions with ground-fault protection</b>		
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b>	✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	<b>EG</b>	✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	<b>FG</b>	✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with full graphics display	<b>NG</b>	✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b>	<b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>		

<sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).

<sup>2)</sup> For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

<sup>3)</sup> Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).

<sup>4)</sup> Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).

<sup>5)</sup> ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [see page 1/68](#).

<sup>6)</sup> ETU15B cannot be used with 3WL1 circuit breakers, size III.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 3-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N</span>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU		
<b>Front main circuit connection, single hole</b>								
I	630 800 1000 1250 1600	630 800 1000 1250 1600	55		<b>3WL1106-2□□63-□□□□</b> <b>3WL1108-2□□63-□□□□</b> <b>3WL1110-2□□63-□□□□</b> <b>3WL1112-2□□63-□□□□</b> <b>3WL1116-2□□63-□□□□</b>	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		<b>3WL1208-2□□63-□□□□</b> <b>3WL1210-2□□63-□□□□</b> <b>3WL1212-2□□63-□□□□</b> <b>3WL1216-2□□63-□□□□</b> <b>3WL1220-2□□63-□□□□</b> <b>3WL1225-2□□63-□□□□</b> <b>3WL1232-2□□63-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>Front main circuit connection, double hole</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		<b>3WL1106-2□□64-□□□□</b> <b>3WL1108-2□□64-□□□□</b> <b>3WL1110-2□□64-□□□□</b> <b>3WL1112-2□□64-□□□□</b> <b>3WL1116-2□□64-□□□□</b> <b>3WL1120-2□□64-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		<b>3WL1208-2□□64-□□□□</b> <b>3WL1210-2□□64-□□□□</b> <b>3WL1212-2□□64-□□□□</b> <b>3WL1216-2□□64-□□□□</b> <b>3WL1220-2□□64-□□□□</b> <b>3WL1225-2□□64-□□□□</b> <b>3WL1232-2□□64-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>6)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>	

<sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).

<sup>2)</sup> For permissible rated short-time current  $I_{cs}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

<sup>3)</sup> Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).

<sup>4)</sup> Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).

<sup>5)</sup> ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).

<sup>6)</sup> ETU15B cannot be used with 3WL1 circuit breakers, size III.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

3-pole, fixed-mounted versions

1

Size	Max. rated circuit breaker current $I_{N\max}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU			
<b>Horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		<b>3WL1106-3□□62-□□□□</b> <b>3WL1108-3□□62-□□□□</b> <b>3WL1110-3□□62-□□□□</b> <b>3WL1112-3□□62-□□□□</b> <b>3WL1116-3□□62-□□□□</b> <b>3WL1120-3□□62-□□□□</b>		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		<b>3WL1208-3□□62-□□□□</b> <b>3WL1210-3□□62-□□□□</b> <b>3WL1212-3□□62-□□□□</b> <b>3WL1216-3□□62-□□□□</b> <b>3WL1220-3□□62-□□□□</b> <b>3WL1225-3□□62-□□□□</b> <b>3WL1232-3□□62-□□□□</b>		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>Vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		<b>3WL1106-3□□61-□□□□</b> <b>3WL1108-3□□61-□□□□</b> <b>3WL1110-3□□61-□□□□</b> <b>3WL1112-3□□61-□□□□</b> <b>3WL1116-3□□61-□□□□</b> <b>3WL1120-3□□61-□□□□</b>		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	85		<b>3WL1208-3□□61-□□□□</b> <b>3WL1210-3□□61-□□□□</b> <b>3WL1212-3□□61-□□□□</b> <b>3WL1216-3□□61-□□□□</b> <b>3WL1220-3□□61-□□□□</b> <b>3WL1225-3□□61-□□□□</b> <b>3WL1232-3□□61-□□□□</b> <b>3WL1240-3□□61-□□□□</b>		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>6)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).

2) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).

4) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 3-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Basic price per PU			
<b>Front main circuit connection, single hole</b>									
I	630 800 1000 1250 1600	630 800 1000 1250 1600	66		<b>3WL1106-3□□63-□□□□</b> <b>3WL1108-3□□63-□□□□</b> <b>3WL1110-3□□63-□□□□</b> <b>3WL1112-3□□63-□□□□</b> <b>3WL1116-3□□63-□□□□</b>		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		<b>3WL1208-3□□63-□□□□</b> <b>3WL1210-3□□63-□□□□</b> <b>3WL1212-3□□63-□□□□</b> <b>3WL1216-3□□63-□□□□</b> <b>3WL1220-3□□63-□□□□</b> <b>3WL1225-3□□63-□□□□</b> <b>3WL1232-3□□63-□□□□</b>		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>Front main circuit connection, double hole</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		<b>3WL1106-3□□64-□□□□</b> <b>3WL1108-3□□64-□□□□</b> <b>3WL1110-3□□64-□□□□</b> <b>3WL1112-3□□64-□□□□</b> <b>3WL1116-3□□64-□□□□</b> <b>3WL1120-3□□64-□□□□</b>		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		<b>3WL1208-3□□64-□□□□</b> <b>3WL1210-3□□64-□□□□</b> <b>3WL1212-3□□64-□□□□</b> <b>3WL1216-3□□64-□□□□</b> <b>3WL1220-3□□64-□□□□</b> <b>3WL1225-3□□64-□□□□</b> <b>3WL1232-3□□64-□□□□</b>		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>6)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>	

- <sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).
- <sup>2)</sup> For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

- <sup>3)</sup> Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).
- <sup>4)</sup> Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).
- <sup>5)</sup> ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).
- <sup>6)</sup> ETU15B cannot be used with 3WL1 circuit breakers, size III.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

3-pole, fixed-mounted versions

1

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		
<b>Horizontal main circuit connection</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□62-□□□□</b> <b>3WL1108-4□□62-□□□□</b> <b>3WL1110-4□□62-□□□□</b> <b>3WL1112-4□□62-□□□□</b> <b>3WL1116-4□□62-□□□□</b> <b>3WL1120-4□□62-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		<b>3WL1208-4□□62-□□□□</b> <b>3WL1210-4□□62-□□□□</b> <b>3WL1212-4□□62-□□□□</b> <b>3WL1216-4□□62-□□□□</b> <b>3WL1220-4□□62-□□□□</b> <b>3WL1225-4□□62-□□□□</b> <b>3WL1232-4□□62-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	100		<b>3WL1340-4□□62-□□□□</b> <b>3WL1350-4□□62-□□□□</b>	1 1	1 unit 1 unit	1CA 1CA
<b>Vertical main circuit connection</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□61-□□□□</b> <b>3WL1108-4□□61-□□□□</b> <b>3WL1110-4□□61-□□□□</b> <b>3WL1112-4□□61-□□□□</b> <b>3WL1116-4□□61-□□□□</b> <b>3WL1120-4□□61-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		<b>3WL1208-4□□61-□□□□</b> <b>3WL1210-4□□61-□□□□</b> <b>3WL1212-4□□61-□□□□</b> <b>3WL1216-4□□61-□□□□</b> <b>3WL1220-4□□61-□□□□</b> <b>3WL1225-4□□61-□□□□</b> <b>3WL1232-4□□61-□□□□</b> <b>3WL1240-4□□61-□□□□</b>	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		<b>3WL1340-4□□61-□□□□</b> <b>3WL1350-4□□61-□□□□</b> <b>3WL1363-4□□61-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units				<b>AA</b>	<b>None</b>		
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>							
	ETU15B: Protection functions LI <sup>6)</sup>				<b>BB</b>			✓
	ETU25B: Protection functions LSI				<b>CB</b>			✓
	ETU45B: Protection functions LSIN <sup>3)</sup>				<b>EB</b>			✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display				<b>FB</b>			✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display				<b>NB</b>			✓
	<b>Versions with ground-fault protection</b>							
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>			✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>				<b>EG</b>			✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display				<b>FG</b>			✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with full graphics display				<b>NG</b>			✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>	<b>None</b>		
	For further Article No. supplements, <a href="#">page 1/51</a>							

<sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).

<sup>2)</sup> For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

<sup>3)</sup> Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).

<sup>4)</sup> Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).

<sup>5)</sup> ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).

<sup>6)</sup> ETU15B cannot be used with 3WL1 circuit breakers, size III.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 3-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Basic price per PU		
<b>Front main circuit connection, single hole</b>								
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		<b>3WL1208-4□□63-□□□□</b> <b>3WL1210-4□□63-□□□□</b> <b>3WL1212-4□□63-□□□□</b> <b>3WL1216-4□□63-□□□□</b> <b>3WL1220-4□□63-□□□□</b> <b>3WL1225-4□□63-□□□□</b> <b>3WL1232-4□□63-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		<b>3WL1340-4□□63-□□□□</b>	1	1 unit	1CA
<b>Front main circuit connection, double hole</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□64-□□□□</b> <b>3WL1108-4□□64-□□□□</b> <b>3WL1110-4□□64-□□□□</b> <b>3WL1112-4□□64-□□□□</b> <b>3WL1116-4□□64-□□□□</b> <b>3WL1120-4□□64-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		<b>3WL1208-4□□64-□□□□</b> <b>3WL1210-4□□64-□□□□</b> <b>3WL1212-4□□64-□□□□</b> <b>3WL1216-4□□64-□□□□</b> <b>3WL1220-4□□64-□□□□</b> <b>3WL1225-4□□64-□□□□</b> <b>3WL1232-4□□64-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		<b>3WL1340-4□□64-□□□□</b>	1	1 unit	1CA
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units			<b>AA</b>		<b>None</b>		
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>							
	ETU15B: Protection functions LI <sup>6)</sup>			<b>BB</b>		✓		
	ETU25B: Protection functions LSI			<b>CB</b>		✓		
	ETU45B: Protection functions LSIN <sup>3)</sup>			<b>EB</b>		✓		
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display			<b>FB</b>		✓		
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display			<b>NB</b>		✓		
	<b>Versions with ground-fault protection</b>							
	ETU27B: Protection functions LSING <sup>4)</sup>			<b>DG</b>		✓		
	ETU45B: Protection functions LSING <sup>3)5)</sup>			<b>EG</b>		✓		
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display			<b>FG</b>		✓		
	ETU76B: Protection functions LSING <sup>3)5)</sup> with full graphics display			<b>NG</b>		✓		
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>		<b>None</b>	
	For further Article No. supplements, page 1/51							

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/52.

2) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/68.

4) Current transformers for protection of the N conductor are to be ordered separately, page 1/68.

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/68.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

3-pole, fixed-mounted versions

1

Size	Max. rated circuit breaker current $I_{Nmax}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 130/150 kA at 500 V, very high breaking capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d					
<b>Horizontal main circuit connection</b>									
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□62-□□□□</b> <b>3WL1220-5□□62-□□□□</b> <b>3WL1225-5□□62-□□□□</b> <b>3WL1232-5□□62-□□□□</b>		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	150		<b>3WL1340-5□□62-□□□□</b> <b>3WL1350-5□□62-□□□□</b>		1 1	1 unit 1 unit	1CA 1CA
<b>Vertical main circuit connection</b>									
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□61-□□□□</b> <b>3WL1220-5□□61-□□□□</b> <b>3WL1225-5□□61-□□□□</b> <b>3WL1232-5□□61-□□□□</b>		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		<b>3WL1340-5□□61-□□□□</b> <b>3WL1350-5□□61-□□□□</b> <b>3WL1363-5□□61-□□□□</b>		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>Options</b>									
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units				<b>AA</b>			<b>None</b>	
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU15B: Protection functions LI <sup>3)</sup>				<b>BB</b>				✓
	ETU25B: Protection functions LSI				<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup>				<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display				<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>5)</sup>				<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>				<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display				<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with full graphics display				<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					<b>1AA2</b>		<b>None</b>	
	For further Article No. supplements, page 1/51								

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).
- 2) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

- 3) ETU15B cannot be used with 3WL1 circuit breakers, size III.
- 4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).
- 5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).
- 6) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).



# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## 3-pole, withdrawable versions

### Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Basic price per PU		
<b>Without guide frames<sup>2)</sup> (for guide frames, see pages 1/60 to 1/66)</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□65-□□□□ 3WL1108-2□□65-□□□□ 3WL1110-2□□65-□□□□ 3WL1112-2□□65-□□□□ 3WL1116-2□□65-□□□□ 3WL1120-2□□65-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□65-□□□□ 3WL1210-2□□65-□□□□ 3WL1212-2□□65-□□□□ 3WL1216-2□□65-□□□□ 3WL1220-2□□65-□□□□ 3WL1225-2□□65-□□□□ 3WL1232-2□□65-□□□□ 3WL1240-2□□65-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>With guide frames, horizontal main circuit connection</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□66-□□□□ 3WL1108-2□□66-□□□□ 3WL1110-2□□66-□□□□ 3WL1112-2□□66-□□□□ 3WL1116-2□□66-□□□□ 3WL1120-2□□66-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□66-□□□□ 3WL1210-2□□66-□□□□ 3WL1212-2□□66-□□□□ 3WL1216-2□□66-□□□□ 3WL1220-2□□66-□□□□ 3WL1225-2□□66-□□□□ 3WL1232-2□□66-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>5)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, page 1/51	

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/52.
- 2) Z options which are installed on the guide frame are not available.
- 3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, page 1/13.

- 4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/68.
- 5) Current transformers for protection of the N conductor are to be ordered separately, page 1/68.
- 6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/68.
- 7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92...A... or 3WL92...B... guide frames, it is necessary to order Z option A41.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

3-pole, withdrawable versions

1

Size	Max. rated circuit breaker current $I_{N\max}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	<div style="background-color: #f4a460; padding: 2px;"><b><math>I_{cu}</math> 55/66 kA at 500 V, ECO breaking capacity N</b></div> <div style="padding: 2px;">Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a></div>	<div style="border: 1px solid black; border-radius: 50%; padding: 2px; text-align: center;">N</div>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d					
<b>With guide frames, vertical main circuit connection</b>									
I	630	630	55		3WL1106-2□□67-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□67-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□67-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□67-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□67-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-2□□67-□□□□		1	1 unit	1CA
II	800	800	66		3WL1208-2□□67-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□67-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□67-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□67-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□67-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□67-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□67-□□□□		1	1 unit	1CA
	4000	4000			3WL1240-2□□67-□□□□		1	1 unit	1CA
<b>With guide frames, connecting flanges</b>									
I	630	630	55		3WL1106-2□□68-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□68-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□68-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□68-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□68-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-2□□68-□□□□		1	1 unit	1CA
II	800	800	66		3WL1208-2□□68-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□68-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□68-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□68-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□68-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□68-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□68-□□□□		1	1 unit	1CA
	<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units				<b>AA</b>		<b>Additional price</b> <b>None</b>		
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU15B: Protection functions LI				<b>BB</b>		✓		
	ETU25B: Protection functions LSI				<b>CB</b>		✓		
	ETU45B: Protection functions LSIN <sup>4)</sup>				<b>EB</b>		✓		
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				<b>FB</b>		✓		
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display				<b>NB</b>		✓		
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>5)</sup>				<b>DG</b>		✓		
	ETU45B: Protection functions LSING <sup>4)6)</sup>				<b>EG</b>		✓		
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display				<b>FG</b>		✓		
	ETU76B: Protection functions LSING <sup>4)6)</sup> with full graphics display				<b>NG</b>		✓		
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>		<b>Additional price</b> <b>None</b>		
	For further Article No. supplements, <a href="#">page 1/51</a>								

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).

5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

1

## 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo">www.siemens.com/product?ArticleNo</a>	Basic price per PU		
<b>Without guide frames<sup>27)</sup> (for guide frames, see pages 1/60 to 1/66)</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		<b>3WL1106-3□□65-□□□□</b> <b>3WL1108-3□□65-□□□□</b> <b>3WL1110-3□□65-□□□□</b> <b>3WL1112-3□□65-□□□□</b> <b>3WL1116-3□□65-□□□□</b> <b>3WL1120-3□□65-□□□□</b>	1	1 unit	1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	85		<b>3WL1208-3□□65-□□□□</b> <b>3WL1210-3□□65-□□□□</b> <b>3WL1212-3□□65-□□□□</b> <b>3WL1216-3□□65-□□□□</b> <b>3WL1220-3□□65-□□□□</b> <b>3WL1225-3□□65-□□□□</b> <b>3WL1232-3□□65-□□□□</b> <b>3WL1240-3□□65-□□□□</b>	1	1 unit	1CA
<b>With guide frames, horizontal main circuit connection</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		<b>3WL1106-3□□66-□□□□</b> <b>3WL1108-3□□66-□□□□</b> <b>3WL1110-3□□66-□□□□</b> <b>3WL1112-3□□66-□□□□</b> <b>3WL1116-3□□66-□□□□</b> <b>3WL1120-3□□66-□□□□</b>	1	1 unit	1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		<b>3WL1208-3□□66-□□□□</b> <b>3WL1210-3□□66-□□□□</b> <b>3WL1212-3□□66-□□□□</b> <b>3WL1216-3□□66-□□□□</b> <b>3WL1220-3□□66-□□□□</b> <b>3WL1225-3□□66-□□□□</b> <b>3WL1232-3□□66-□□□□</b> <b>3WL1232-3□□66-□□□□</b>	1	1 unit	1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>5)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).  
2) Z options which are installed on the guide frame are not available.  
3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).  
5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).  
6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).  
7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92.-.A... or 3WL92.-.B... guide frames, it is necessary to order Z option A41.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

3-pole, withdrawable versions

1

Size	Max. rated circuit breaker current $I_{Nmax}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Basic price per PU			
<b>With guide frames, vertical main circuit connection</b>									
I	630	630	66		3WL1106-3□□67-□□□□		1	1 unit	1CA
	800	800			3WL1108-3□□67-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-3□□67-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-3□□67-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-3□□67-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-3□□67-□□□□		1	1 unit	1CA
II	800	800	85		3WL1208-3□□67-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-3□□67-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-3□□67-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-3□□67-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-3□□67-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-3□□67-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-3□□67-□□□□		1	1 unit	1CA
	4000	4000			3WL1240-3□□67-□□□□		1	1 unit	1CA
	<b>With guide frames, connecting flanges</b>								
I	630	630	66		3WL1106-3□□68-□□□□		1	1 unit	1CA
	800	800			3WL1108-3□□68-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-3□□68-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-3□□68-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-3□□68-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-3□□68-□□□□		1	1 unit	1CA
II	800	800	85		3WL1208-3□□68-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-3□□68-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-3□□68-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-3□□68-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-3□□68-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-3□□68-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-3□□68-□□□□		1	1 unit	1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>5)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).

5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Basic price per PU		
<b>Without guide frames<sup>2)</sup> (for guide frames, see pages 1/60 to 1/66)</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□65-□□□□</b> <b>3WL1108-4□□65-□□□□</b> <b>3WL1110-4□□65-□□□□</b> <b>3WL1112-4□□65-□□□□</b> <b>3WL1116-4□□65-□□□□</b> <b>3WL1120-4□□65-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		<b>3WL1208-4□□65-□□□□</b> <b>3WL1210-4□□65-□□□□</b> <b>3WL1212-4□□65-□□□□</b> <b>3WL1216-4□□65-□□□□</b> <b>3WL1220-4□□65-□□□□</b> <b>3WL1225-4□□65-□□□□</b> <b>3WL1232-4□□65-□□□□</b> <b>3WL1240-4□□65-□□□□</b>	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		<b>3WL1340-4□□65-□□□□</b> <b>3WL1350-4□□65-□□□□</b> <b>3WL1363-4□□65-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, horizontal main circuit connection</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□66-□□□□</b> <b>3WL1108-4□□66-□□□□</b> <b>3WL1110-4□□66-□□□□</b> <b>3WL1112-4□□66-□□□□</b> <b>3WL1116-4□□66-□□□□</b> <b>3WL1120-4□□66-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		<b>3WL1208-4□□66-□□□□</b> <b>3WL1210-4□□66-□□□□</b> <b>3WL1212-4□□66-□□□□</b> <b>3WL1216-4□□66-□□□□</b> <b>3WL1220-4□□66-□□□□</b> <b>3WL1225-4□□66-□□□□</b> <b>3WL1232-4□□66-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	100		<b>3WL1340-4□□66-□□□□</b> <b>3WL1350-4□□66-□□□□</b>	1 1	1 unit 1 unit	1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>7)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>5)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>	

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).
- 2) Z options which are installed on the guide frame are not available.
- 3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).
- 4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).

- 5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).
- 6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).
- 7) ETU15B cannot be used with 3WL1 circuit breakers, size III.
- 8) For installation in combination with guide frames supplied before 03/2019 or with 3WL92...-A...-... or 3WL92...-B...-... guide frames, it is necessary to order Z option A41.

Size	Max. rated circuit breaker current $I_{N \max}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>				
<b>With guide frames, vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□67-□□□□ 3WL1108-4□□67-□□□□ 3WL1110-4□□67-□□□□ 3WL1112-4□□67-□□□□ 3WL1116-4□□67-□□□□ 3WL1120-4□□67-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□67-□□□□ 3WL1210-4□□67-□□□□ 3WL1212-4□□67-□□□□ 3WL1216-4□□67-□□□□ 3WL1220-4□□67-□□□□ 3WL1225-4□□67-□□□□ 3WL1232-4□□67-□□□□ 3WL1240-4□□67-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□67-□□□□ 3WL1350-4□□67-□□□□ 3WL1363-4□□67-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, connecting flanges</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□68-□□□□ 3WL1108-4□□68-□□□□ 3WL1110-4□□68-□□□□ 3WL1112-4□□68-□□□□ 3WL1116-4□□68-□□□□ 3WL1120-4□□68-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□68-□□□□ 3WL1210-4□□68-□□□□ 3WL1212-4□□68-□□□□ 3WL1216-4□□68-□□□□ 3WL1220-4□□68-□□□□ 3WL1225-4□□68-□□□□ 3WL1232-4□□68-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□68-□□□□		1	1 unit	1CA
<b>Options</b>									
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units				<b>AA</b>	<b>None</b>			
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU15B: Protection functions LI <sup>7)</sup>				<b>BB</b>				✓
	ETU25B: Protection functions LSI				<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup>				<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display				<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>5)</sup>				<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>				<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display				<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with full graphics display				<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>	<b>None</b>			
	For further Article No. supplements, <a href="#">page 1/51</a>								

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).
- 2) Z options which are installed on the guide frame are not available.
- 3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

- 4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).
- 5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).
- 6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).
- 7) ETU15B cannot be used with 3WL1 circuit breakers, size III.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 130/150 kA at 500 V, very high breaking capacity C	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Basic price per PU		
<b>Without guide frames<sup>2)8)</sup> (for guide frames, see pages 1/60 to 1/66)</b>								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□65-□□□□</b> <b>3WL1220-5□□65-□□□□</b> <b>3WL1225-5□□65-□□□□</b> <b>3WL1232-5□□65-□□□□</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		<b>3WL1340-5□□65-□□□□</b> <b>3WL1350-5□□65-□□□□</b> <b>3WL1363-5□□65-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, horizontal main circuit connection</b>								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□66-□□□□</b> <b>3WL1220-5□□66-□□□□</b> <b>3WL1225-5□□66-□□□□</b> <b>3WL1232-5□□66-□□□□</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	150		<b>3WL1340-5□□66-□□□□</b> <b>3WL1350-5□□66-□□□□</b>	1 1	1 unit 1 unit	1CA 1CA
<b>With guide frames, vertical main circuit connection</b>								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□67-□□□□</b> <b>3WL1220-5□□67-□□□□</b> <b>3WL1225-5□□67-□□□□</b> <b>3WL1232-5□□67-□□□□</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		<b>3WL1340-5□□67-□□□□</b> <b>3WL1350-5□□67-□□□□</b> <b>3WL1363-5□□67-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>4)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>5)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>5)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>5)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>6)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>5)7)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>5)7)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>5)7)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, <a href="#">page 1/51</a>	

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, [page 1/52](#).
- 2) Z options which are installed on the guide frame are not available.
- 3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, [page 1/13](#).

- 4) ETU15B cannot be used with 3WL1 circuit breakers, size III.
- 5) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, [page 1/68](#).
- 6) Current transformers for protection of the N conductor are to be ordered separately, [page 1/68](#).
- 7) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/68](#).
- 8) For installation in combination with guide frames supplied before 03/2019 or with 3WL92...A... or 3WL92...B... guide frames, it is necessary to order Z option A41.



# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

4-pole, fixed-mounted versions

1

## Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU			
<b>Horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□72-□□□□ 3WL1108-2□□72-□□□□ 3WL1110-2□□72-□□□□ 3WL1112-2□□72-□□□□ 3WL1116-2□□72-□□□□ 3WL1120-2□□72-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□72-□□□□ 3WL1210-2□□72-□□□□ 3WL1212-2□□72-□□□□ 3WL1216-2□□72-□□□□ 3WL1220-2□□72-□□□□ 3WL1225-2□□72-□□□□ 3WL1232-2□□72-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>Vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□71-□□□□ 3WL1108-2□□71-□□□□ 3WL1110-2□□71-□□□□ 3WL1112-2□□71-□□□□ 3WL1116-2□□71-□□□□ 3WL1120-2□□71-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□71-□□□□ 3WL1210-2□□71-□□□□ 3WL1212-2□□71-□□□□ 3WL1216-2□□71-□□□□ 3WL1220-2□□71-□□□□ 3WL1225-2□□71-□□□□ 3WL1232-2□□71-□□□□ 3WL1240-2□□71-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA

## Options

		Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>3)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>3)4)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, see page 1/51	

<sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

<sup>2)</sup> For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

<sup>3)</sup> Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

<sup>4)</sup> For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 4-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS	PG	
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?ArticleNo.</a>	Basic price per PU			
<b>Front main circuit connection, single hole</b>									
I	630	630	55		3WL1106-2□□73-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□73-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□73-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□73-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□73-□□□□		1	1 unit	1CA
II	800	800	66		3WL1208-2□□73-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□73-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□73-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□73-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□73-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□73-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□73-□□□□		1	1 unit	1CA
<b>Front main circuit connection, double hole</b>									
I	630	630	55		3WL1106-2□□74-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□74-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□74-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□74-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□74-□□□□		1	1 unit	1CA
2000	2000	3WL1120-2□□74-□□□□	1	1 unit	1CA				
II	800	800	66		3WL1208-2□□74-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□74-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□74-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□74-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□74-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□74-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□74-□□□□		1	1 unit	1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>3)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>3)4)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, see page 1/51	

<sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

<sup>2)</sup> For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

<sup>3)</sup> Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.


<sup>4)</sup> For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

4-pole, fixed-mounted versions

1

Size	Max. rated circuit breaker current $I_{N\max}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{CU} = I_{CS}$	SD	$I_{CU}$ 66/85 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU			
<b>Horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□72-□□□□ 3WL1108-3□□72-□□□□ 3WL1110-3□□72-□□□□ 3WL1112-3□□72-□□□□ 3WL1116-3□□72-□□□□ 3WL1120-3□□72-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		3WL1208-3□□72-□□□□ 3WL1210-3□□72-□□□□ 3WL1212-3□□72-□□□□ 3WL1216-3□□72-□□□□ 3WL1220-3□□72-□□□□ 3WL1225-3□□72-□□□□ 3WL1232-3□□72-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>Vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□71-□□□□ 3WL1108-3□□71-□□□□ 3WL1110-3□□71-□□□□ 3WL1112-3□□71-□□□□ 3WL1116-3□□71-□□□□ 3WL1120-3□□71-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	85		3WL1208-3□□71-□□□□ 3WL1210-3□□71-□□□□ 3WL1212-3□□71-□□□□ 3WL1216-3□□71-□□□□ 3WL1220-3□□71-□□□□ 3WL1225-3□□71-□□□□ 3WL1232-3□□71-□□□□ 3WL1240-3□□71-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options			Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	AA	None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>		
	ETU15B: Protection functions LI	BB	✓
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	EB	✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	FB	✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	NB	✓
	<b>Versions with ground-fault protection</b>		
	ETU27B: Protection functions LSING <sup>3)</sup>	DG	✓
	ETU45B: Protection functions LSING <sup>3)4)</sup>	EG	✓
	ETU45B: Protection functions LSING <sup>3)4)</sup> with 4-line display	FG	✓
	ETU76B: Protection functions LSING <sup>3)4)</sup> with full graphics display	NG	✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2	None
	For further Article No. supplements, see page 1/51		

<sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

<sup>2)</sup> For permissible rated short-time current  $I_{CC}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

<sup>3)</sup> Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

<sup>4)</sup> For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## 4-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU		
<b>Front main circuit connection, single hole</b>								
I	630 800 1000 1250 1600	630 800 1000 1250 1600	66		3WL1106-3□□73-□□□□ 3WL1108-3□□73-□□□□ 3WL1110-3□□73-□□□□ 3WL1112-3□□73-□□□□ 3WL1116-3□□73-□□□□	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		3WL1208-3□□73-□□□□ 3WL1210-3□□73-□□□□ 3WL1212-3□□73-□□□□ 3WL1216-3□□73-□□□□ 3WL1220-3□□73-□□□□ 3WL1225-3□□73-□□□□ 3WL1232-3□□73-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>Front main circuit connection, double hole</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□74-□□□□ 3WL1108-3□□74-□□□□ 3WL1110-3□□74-□□□□ 3WL1112-3□□74-□□□□ 3WL1116-3□□74-□□□□ 3WL1120-3□□74-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		3WL1208-3□□74-□□□□ 3WL1210-3□□74-□□□□ 3WL1212-3□□74-□□□□ 3WL1216-3□□74-□□□□ 3WL1220-3□□74-□□□□ 3WL1225-3□□74-□□□□ 3WL1232-3□□74-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>3)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>3)4)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, see page 1/51	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

4-pole, fixed-mounted versions

1

Size	Max. rated circuit breaker current $I_{N\max}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H	H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		Basic price per PU		
<b>Horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□72-□□□□</b> <b>3WL1108-4□□72-□□□□</b> <b>3WL1110-4□□72-□□□□</b> <b>3WL1112-4□□72-□□□□</b> <b>3WL1116-4□□72-□□□□</b> <b>3WL1120-4□□72-□□□□</b>		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		<b>3WL1208-4□□72-□□□□</b> <b>3WL1210-4□□72-□□□□</b> <b>3WL1212-4□□72-□□□□</b> <b>3WL1216-4□□72-□□□□</b> <b>3WL1220-4□□72-□□□□</b> <b>3WL1225-4□□72-□□□□</b> <b>3WL1232-4□□72-□□□□</b>		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	100		<b>3WL1340-4□□72-□□□□</b> <b>3WL1350-4□□72-□□□□</b>		1 1	1 unit 1 unit	1CA 1CA
<b>Vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□71-□□□□</b> <b>3WL1108-4□□71-□□□□</b> <b>3WL1110-4□□71-□□□□</b> <b>3WL1112-4□□71-□□□□</b> <b>3WL1116-4□□71-□□□□</b> <b>3WL1120-4□□71-□□□□</b>		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		<b>3WL1208-4□□71-□□□□</b> <b>3WL1210-4□□71-□□□□</b> <b>3WL1212-4□□71-□□□□</b> <b>3WL1216-4□□71-□□□□</b> <b>3WL1220-4□□71-□□□□</b> <b>3WL1225-4□□71-□□□□</b> <b>3WL1232-4□□71-□□□□</b> <b>3WL1240-4□□71-□□□□</b>		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		<b>3WL1340-4□□71-□□□□</b> <b>3WL1350-4□□71-□□□□</b> <b>3WL1363-4□□71-□□□□</b>		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>5)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>3)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>3)4)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>3)4)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, see page 1/51	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

5) ETU15B cannot be used with 3WL1 circuit breakers, size III.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 4-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		
<b>Front main circuit connection, single hole</b>								
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		<b>3WL1208-4□□73-□□□□</b> <b>3WL1210-4□□73-□□□□</b> <b>3WL1212-4□□73-□□□□</b> <b>3WL1216-4□□73-□□□□</b> <b>3WL1220-4□□73-□□□□</b> <b>3WL1225-4□□73-□□□□</b> <b>3WL1232-4□□73-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		<b>3WL1340-4□□73-□□□□</b>	1	1 unit	1CA
<b>Front main circuit connection, double hole</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		<b>3WL1106-4□□74-□□□□</b> <b>3WL1108-4□□74-□□□□</b> <b>3WL1110-4□□74-□□□□</b> <b>3WL1112-4□□74-□□□□</b> <b>3WL1116-4□□74-□□□□</b> <b>3WL1120-4□□74-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		<b>3WL1208-4□□74-□□□□</b> <b>3WL1210-4□□74-□□□□</b> <b>3WL1212-4□□74-□□□□</b> <b>3WL1216-4□□74-□□□□</b> <b>3WL1220-4□□74-□□□□</b> <b>3WL1225-4□□74-□□□□</b> <b>3WL1232-4□□74-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		<b>3WL1340-4□□74-□□□□</b>	1	1 unit	1CA
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units			<b>AA</b>	<b>None</b>	Additional price		
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>							
	ETU15B: Protection functions LI <sup>5)</sup>			<b>BB</b>				✓
	ETU25B: Protection functions LSI			<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>3)</sup>			<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display			<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with full graphics display			<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>							
	ETU27B: Protection functions LSING <sup>3)</sup>			<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>3)4)</sup>			<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>3)4)</sup> with 4-line display			<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>3)4)</sup> with full graphics display			<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO			<b>1AA2</b>				<b>None</b>
	For further Article No. supplements, see page 1/51							

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

5) ETU15B cannot be used with 3WL1 circuit breakers, size III.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

4-pole, fixed-mounted versions

1

Size	Max. rated circuit breaker current $I_{Nmax}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	<div style="background-color: #f4a460; padding: 2px;"><b><math>I_{cu}</math> 130/150 kA at 500 V, very high breaking capacity C</b></div> <div style="font-size: 0.8em; padding: 2px;">Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?ArticleNo.</a> Basic price per PU</div>	PU (UNIT, SET, M)	PS	PG
A	A	kA	d					
<b>Horizontal main circuit connection</b>								
II	1600	1600	130		3WL1216-5□□72-□□□□	1	1 unit	1CA
	2000	2000			3WL1220-5□□72-□□□□	1	1 unit	1CA
	2500	2500			3WL1225-5□□72-□□□□	1	1 unit	1CA
	3200	3200			3WL1232-5□□72-□□□□	1	1 unit	1CA
III	4000	4000	130		3WL1340-5□□72-□□□□	1	1 unit	1CA
	5000	5000			3WL1350-5□□72-□□□□	1	1 unit	1CA
<b>Vertical main circuit connection</b>								
II	1600	1600	130		3WL1216-5□□71-□□□□	1	1 unit	1CA
	2000	2000			3WL1220-5□□71-□□□□	1	1 unit	1CA
	2500	2500			3WL1225-5□□71-□□□□	1	1 unit	1CA
	3200	3200			3WL1232-5□□71-□□□□	1	1 unit	1CA
III	4000	4000	130		3WL1340-5□□71-□□□□	1	1 unit	1CA
	5000	5000			3WL1350-5□□71-□□□□	1	1 unit	1CA
	6300	6300			3WL1363-5□□71-□□□□	1	1 unit	1CA
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units				<b>AA</b>	<b>Additional price</b> <b>None</b>		
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>							
	ETU15B: Protection functions LI <sup>3)</sup>				<b>BB</b>			✓
	ETU25B: Protection functions LSI				<b>CB</b>			✓
	ETU45B: Protection functions LSIN <sup>4)</sup>				<b>EB</b>			✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				<b>FB</b>			✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display				<b>NB</b>			✓
	<b>Versions with ground-fault protection</b>							
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>			✓
	ETU45B: Protection functions LSING <sup>4)5)</sup>				<b>EG</b>			✓
	ETU45B: Protection functions LSING <sup>4)5)</sup> with 4-line display				<b>FG</b>			✓
	ETU76B: Protection functions LSING <sup>4)5)</sup> with full graphics display				<b>NG</b>			✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>	<b>None</b>		
	For further Article No. supplements, see page 1/51							

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

3) ETU15B cannot be used with 3WL1 circuit breakers, size III.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.



# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### 4-pole, withdrawable versions

1

#### Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS	PG
A	A	kA	d		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU		
<b>Without guide frames<sup>2)</sup> (for guide frames, see pages 1/60 to 1/66)</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□75-□□□□ 3WL1108-2□□75-□□□□ 3WL1110-2□□75-□□□□ 3WL1112-2□□75-□□□□ 3WL1116-2□□75-□□□□ 3WL1120-2□□75-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□75-□□□□ 3WL1210-2□□75-□□□□ 3WL1212-2□□75-□□□□ 3WL1216-2□□75-□□□□ 3WL1220-2□□75-□□□□ 3WL1225-2□□75-□□□□ 3WL1232-2□□75-□□□□ 3WL1240-2□□75-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>With guide frames, horizontal main circuit connection</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□76-□□□□ 3WL1108-2□□76-□□□□ 3WL1110-2□□76-□□□□ 3WL1112-2□□76-□□□□ 3WL1116-2□□76-□□□□ 3WL1120-2□□76-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□76-□□□□ 3WL1210-2□□76-□□□□ 3WL1212-2□□76-□□□□ 3WL1216-2□□76-□□□□ 3WL1220-2□□76-□□□□ 3WL1225-2□□76-□□□□ 3WL1232-2□□76-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>4)5)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>4)5)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>4)5)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, see page 1/51	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/51.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

6) For installation in combination with guide frames supplied before 03/2019 or with 3WL92...A... or 3WL92...B... guide frames, it is necessary to order Z option A41.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

4-pole, withdrawable versions

1

Size	Max. rated circuit breaker current $I_{N\max}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU			
<b>With guide frames, vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□77-□□□□ 3WL1108-2□□77-□□□□ 3WL1110-2□□77-□□□□ 3WL1112-2□□77-□□□□ 3WL1116-2□□77-□□□□ 3WL1120-2□□77-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□77-□□□□ 3WL1210-2□□77-□□□□ 3WL1212-2□□77-□□□□ 3WL1216-2□□77-□□□□ 3WL1220-2□□77-□□□□ 3WL1225-2□□77-□□□□ 3WL1232-2□□77-□□□□ 3WL1240-2□□77-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>With guide frames, connecting flanges</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□78-□□□□ 3WL1108-2□□78-□□□□ 3WL1110-2□□78-□□□□ 3WL1112-2□□78-□□□□ 3WL1116-2□□78-□□□□ 3WL1120-2□□78-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□78-□□□□ 3WL1210-2□□78-□□□□ 3WL1212-2□□78-□□□□ 3WL1216-2□□78-□□□□ 3WL1220-2□□78-□□□□ 3WL1225-2□□78-□□□□ 3WL1232-2□□78-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>Options</b>									
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units				<b>AA</b>		<b>None</b>		
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU15B: Protection functions LI				<b>BB</b>				✓
	ETU25B: Protection functions LSI				<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup>				<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display				<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>4)5)</sup>				<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>4)5)</sup> with 4-line display				<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>4)5)</sup> with full graphics display				<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>		<b>None</b>		
	For further Article No. supplements, see page 1/51								

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
A	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Basic price per PU		
<b>Without guide frames<sup>2)</sup> (for guide frames, see pages 1/60 to 1/66)</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□75-□□□□ 3WL1108-3□□75-□□□□ 3WL1110-3□□75-□□□□ 3WL1112-3□□75-□□□□ 3WL1116-3□□75-□□□□ 3WL1120-3□□75-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	85		3WL1208-3□□75-□□□□ 3WL1210-3□□75-□□□□ 3WL1212-3□□75-□□□□ 3WL1216-3□□75-□□□□ 3WL1220-3□□75-□□□□ 3WL1225-3□□75-□□□□ 3WL1232-3□□75-□□□□ 3WL1240-3□□75-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>With guide frames, horizontal main circuit connection</b>								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□76-□□□□ 3WL1108-3□□76-□□□□ 3WL1110-3□□76-□□□□ 3WL1112-3□□76-□□□□ 3WL1116-3□□76-□□□□ 3WL1120-3□□76-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		3WL1208-3□□76-□□□□ 3WL1210-3□□76-□□□□ 3WL1212-3□□76-□□□□ 3WL1216-3□□76-□□□□ 3WL1220-3□□76-□□□□ 3WL1225-3□□76-□□□□ 3WL1232-3□□76-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>4)5)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>4)5)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>4)5)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, see page 1/51	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

6) For installation in combination with guide frames supplied before 03/2019 or with 3WL92...-A...-... or 3WL92...-B...-... guide frames, it is necessary to order Z option A41.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

4-pole, withdrawable versions

1

Size	Max. rated circuit breaker current $I_{N\max}$	Rated current <sup>1)</sup> $I_N$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU			
<b>With guide frames, vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□77-□□□□ 3WL1108-3□□77-□□□□ 3WL1110-3□□77-□□□□ 3WL1112-3□□77-□□□□ 3WL1116-3□□77-□□□□ 3WL1120-3□□77-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	85		3WL1208-3□□77-□□□□ 3WL1210-3□□77-□□□□ 3WL1212-3□□77-□□□□ 3WL1216-3□□77-□□□□ 3WL1220-3□□77-□□□□ 3WL1225-3□□77-□□□□ 3WL1232-3□□77-□□□□ 3WL1240-3□□77-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
<b>With guide frames, connecting flanges</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□78-□□□□ 3WL1108-3□□78-□□□□ 3WL1110-3□□78-□□□□ 3WL1112-3□□78-□□□□ 3WL1116-3□□78-□□□□ 3WL1120-3□□78-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	85		3WL1208-3□□78-□□□□ 3WL1210-3□□78-□□□□ 3WL1212-3□□78-□□□□ 3WL1216-3□□78-□□□□ 3WL1220-3□□78-□□□□ 3WL1225-3□□78-□□□□ 3WL1232-3□□78-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options			Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	AA	None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>		
	ETU15B: Protection functions LI	BB	✓
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	EB	✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	FB	✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	NB	✓
	<b>Versions with ground-fault protection</b>		
	ETU27B: Protection functions LSING <sup>4)</sup>	DG	✓
	ETU45B: Protection functions LSING <sup>4)5)</sup>	EG	✓
	ETU45B: Protection functions LSING <sup>4)5)</sup> with 4-line display	FG	✓
	ETU76B: Protection functions LSING <sup>4)5)</sup> with full graphics display	NG	✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2	None
	For further Article No. supplements, see page 1/51		

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS	PG		
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU				
<b>Without guide frames<sup>2)7)</sup></b> (for guide frames, see pages 1/60 to 1/66)										
I	630	630	85	d	3WL1106-4□□75-□□□□		1	1 unit	1CA	
	800	800								3WL1108-4□□75-□□□□
	1000	1000								3WL1110-4□□75-□□□□
	1250	1250								3WL1112-4□□75-□□□□
	1600	1600								3WL1116-4□□75-□□□□
	2000	2000								3WL1120-4□□75-□□□□
II	800	800	100	d	3WL1208-4□□75-□□□□		1	1 unit	1CA	
	1000	1000								3WL1210-4□□75-□□□□
	1250	1250								3WL1212-4□□75-□□□□
	1600	1600								3WL1216-4□□75-□□□□
	2000	2000								3WL1220-4□□75-□□□□
	2500	2500								3WL1225-4□□75-□□□□
	3200	3200								3WL1232-4□□75-□□□□
	4000	4000								3WL1240-4□□75-□□□□
III	4000	4000	100	d	3WL1340-4□□75-□□□□		1	1 unit	1CA	
	5000	5000								3WL1350-4□□75-□□□□
	6300	6300								3WL1363-4□□75-□□□□
<b>With guide frames, horizontal main circuit connection</b>										
I	630	630	85	d	3WL1106-4□□76-□□□□		1	1 unit	1CA	
	800	800								3WL1108-4□□76-□□□□
	1000	1000								3WL1110-4□□76-□□□□
	1250	1250								3WL1112-4□□76-□□□□
	1600	1600								3WL1116-4□□76-□□□□
	2000	2000								3WL1120-4□□76-□□□□
II	800	800	100	d	3WL1208-4□□76-□□□□		1	1 unit	1CA	
	1000	1000								3WL1210-4□□76-□□□□
	1250	1250								3WL1212-4□□76-□□□□
	1600	1600								3WL1216-4□□76-□□□□
	2000	2000								3WL1220-4□□76-□□□□
	2500	2500								3WL1225-4□□76-□□□□
	3200	3200								3WL1232-4□□76-□□□□
	4000	4000								3WL1240-4□□76-□□□□
III	4000	4000	100	d	3WL1340-4□□76-□□□□		1	1 unit	1CA	
	5000	5000								3WL1350-4□□76-□□□□

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>6)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>4)5)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>4)5)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>4)5)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	<b>1AA2</b> <b>None</b>
	For further Article No. supplements, see page 1/51	

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.
- 2) Z options which are installed on the guide frame are not available.
- 3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

- 4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.
- 5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.
- 6) ETU15B cannot be used with 3WL1 circuit breakers, size III.
- 7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92...-A...-... or 3WL92...-B...-... guide frames, it is necessary to order Z option A41.

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H	H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Basic price per PU			
<b>With guide frames, vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□77-□□□□ 3WL1108-4□□77-□□□□ 3WL1110-4□□77-□□□□ 3WL1112-4□□77-□□□□ 3WL1116-4□□77-□□□□ 3WL1120-4□□77-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□77-□□□□ 3WL1210-4□□77-□□□□ 3WL1212-4□□77-□□□□ 3WL1216-4□□77-□□□□ 3WL1220-4□□77-□□□□ 3WL1225-4□□77-□□□□ 3WL1232-4□□77-□□□□ 3WL1240-4□□77-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□77-□□□□ 3WL1350-4□□77-□□□□ 3WL1363-4□□77-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, connecting flanges</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□78-□□□□ 3WL1108-4□□78-□□□□ 3WL1110-4□□78-□□□□ 3WL1112-4□□78-□□□□ 3WL1116-4□□78-□□□□ 3WL1120-4□□78-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□78-□□□□ 3WL1210-4□□78-□□□□ 3WL1212-4□□78-□□□□ 3WL1216-4□□78-□□□□ 3WL1220-4□□78-□□□□ 3WL1225-4□□78-□□□□ 3WL1232-4□□78-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□78-□□□□		1	1 unit	1CA
<b>Options</b>									
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units				AA		Additional price <b>None</b>		
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU15B: Protection functions LI <sup>6)</sup>				BB				✓
	ETU25B: Protection functions LSI				CB				✓
	ETU45B: Protection functions LSIN <sup>4)</sup>				EB				✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				FB				✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with full graphics display				NB				✓
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>4)</sup>				DG				✓
	ETU45B: Protection functions LSING <sup>4)5)</sup>				EG				✓
	ETU45B: Protection functions LSING <sup>4)5)</sup> with 4-line display				FG				✓
	ETU76B: Protection functions LSING <sup>4)5)</sup> with full graphics display				NG				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				1AA2				<b>None</b>
	For further Article No. supplements, see page 1/51								

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	SD	<b><math>I_{cu}</math> 130/150 kA at 500 V, very high breaking capacity C</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Basic price per PU		
<b>Without guide frames<sup>2)</sup> (for guide frames, see pages 1/60 to 1/66)</b>								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□75-□□□□</b> <b>3WL1220-5□□75-□□□□</b> <b>3WL1225-5□□75-□□□□</b> <b>3WL1232-5□□75-□□□□</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	130		<b>3WL1340-5□□75-□□□□</b> <b>3WL1350-5□□75-□□□□</b> <b>3WL1363-5□□75-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, horizontal main circuit connection</b>								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□76-□□□□</b> <b>3WL1220-5□□76-□□□□</b> <b>3WL1225-5□□76-□□□□</b> <b>3WL1232-5□□76-□□□□</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	130		<b>3WL1340-5□□76-□□□□</b> <b>3WL1350-5□□76-□□□□</b>	1 1	1 unit 1 unit	1CA 1CA
<b>With guide frames, vertical main circuit connection</b>								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		<b>3WL1216-5□□77-□□□□</b> <b>3WL1220-5□□77-□□□□</b> <b>3WL1225-5□□77-□□□□</b> <b>3WL1232-5□□77-□□□□</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	130		<b>3WL1340-5□□77-□□□□</b> <b>3WL1350-5□□77-□□□□</b> <b>3WL1363-5□□77-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options		Additional price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	Without Electronic Trip Units	<b>AA</b> <b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>	
	ETU15B: Protection functions LI <sup>4)</sup>	<b>BB</b> ✓
	ETU25B: Protection functions LSI	<b>CB</b> ✓
	ETU45B: Protection functions LSIN <sup>5)</sup>	<b>EB</b> ✓
	ETU45B: Protection functions LSIN <sup>5)</sup> with 4-line display	<b>FB</b> ✓
	ETU76B: Protection functions LSIN <sup>5)</sup> with full graphics display	<b>NB</b> ✓
	<b>Versions with ground-fault protection</b>	
	ETU27B: Protection functions LSING <sup>5)</sup>	<b>DG</b> ✓
	ETU45B: Protection functions LSING <sup>5)</sup> <sup>6)</sup>	<b>EG</b> ✓
	ETU45B: Protection functions LSING <sup>5)</sup> <sup>6)</sup> with 4-line display	<b>FG</b> ✓
	ETU76B: Protection functions LSING <sup>5)</sup> <sup>6)</sup> with full graphics display	<b>NG</b> ✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO  For further Article No. supplements, see page 1/51	<b>1AA2</b> <b>None</b>

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/52.
- 2) Z options which are installed on the guide frame are not available.
- 3) For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers, see page 1/13.

- 4) ETU15B cannot be used with 3WL1 circuit breakers, size III.
- 5) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, see page 1/68. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/55.
- 6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/68.
- 7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92...A... or 3WL92...B... guide frames, it is necessary to order Z option A41.



## Selection and ordering data

				Article No. supplement	Additional price
				3WL1...-.....- □□□□	
<b>Operating mechanisms</b>					
<b>Manual operating mechanism with mechanical closing</b>				1	None
<b>Manual operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% OP</b>					
50/60 Hz V AC	V DC				
110	110 ... 125			2	✓
230	220			3	✓
<b>Manual/motorized operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% OP</b>					
Motor	Closing coil				
50/60 Hz V AC	V DC	50/60 Hz V AC	V DC		
208 ... 240	220 ... 250	230	220	4	✓
110 ... 127	110 ... 125	110	110 ... 125	5	✓
--	24	--	24	6	✓
<b>Note</b>					
To order different voltages for motorized operating mechanism and closing coil or closing coil for synchronization purposes: "1" at the 13th Digit of the Article No. and order codes, <a href="#">see page 1/54</a> .					
<b>1st auxiliary release</b>					
Type	Condition	$U_s$ 50/60 Hz V AC	$U_s$ DC V		
<b>Without 1st auxiliary releases</b>	--	--	--	A	None
<b>Shunt release suitable for uninterrupted duty, 100% OP</b>	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
<b>2nd auxiliary release</b>					
Type	Condition	$U_s$ 50/60 Hz V AC	$U_s$ DC V		
<b>Without 2nd auxiliary releases</b>	--	--	--	A	None
<b>Shunt release suitable for uninterrupted duty, 100% OP</b>	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
<b>Undervoltage release, instantaneous (<math>\leq 80</math> ms), short-delay (<math>\leq 200</math> ms)</b>	Operating range $0.85 \dots 1.1 \times U_s$	--	24	J	✓
		--	30	K	✓
		--	48	L	✓
		--	60	U	✓
		110 ... 127	110 ... 125	M	✓
		208 ... 240	220 ... 250	N	✓
<b>Undervoltage release, can be delayed between 0.2 s and 3.2 s</b>	Operating range $0.85 \dots 1.1 \times U_s$	380 ... 415	--	P	✓
		--	48	Q	✓
		110 ... 127	110 ... 125	R	✓
		208 ... 240	220 ... 250	S	✓
380 ... 415	--	T	✓		
<b>Auxiliary switches</b>					
1st auxiliary switch block					
<b>2 NO + 2 NC</b>				2	None
1st + 2nd auxiliary switch block					
<b>4 NO + 4 NC</b>				4	✓
<b>6 NO + 2 NC</b>				7	✓
<b>5 NO + 3 NC</b>				8	✓

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## Options

Add "-Z" to the complete Article No.  
and indicate the appropriate order code(s).

3WL...-...-...-Z

□□□+...+...

Additional price

Operating manuals						
Printed version	French/Italian		A 1 1			✓
	Spanish/Portuguese		A 1 2			✓
Rated voltage 1000 V AC and 690 V IT networks						Additional price 3-pole
Conditions	Size	Rated current $I_n$				Additional price 4-pole
Only for circuit breakers of size I - III with high breaking capacity H and size III C class. (8th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1150 V AC, order code "A15".	I <sup>1)</sup>	Up to 2000 A	A 0 5			✓
	II <sup>1)2)</sup>	Up to 2000 A	A 0 5			✓
		2500 A	A 0 5			✓
		3200 A / 4000 A	A 0 5			✓
	III <sup>1)</sup>	4000 A	A 0 5			✓
		5000 A	A 0 5			✓
6300 A		A 0 5			✓	
Rated voltage 1150 V AC						
Conditions	Size	Rated current $I_n$				
Only for circuit breakers with high breaking capacity H (8th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1000 V AC, order code "A05".	II <sup>2)</sup>	Up to 2000 A	A 1 5			✓
		2500 A	A 1 5			✓
		3200 A	A 1 5			✓
	III <sup>3)</sup>	4000 A	A 1 5			✓
		5000 A	A 1 5			✓
		6300 A	A 1 5			✓
Note						
For size III select a circuit breaker with very high breaking capacity C, which can be used as standard up to 1150 V AC.						
Rated voltage 690 V AC (+ 20%)						
Conditions	Size	Rated current $I_n$				
Only for 3WL11 circuit breakers, size I, with high breaking capacity H (8th digit of the Article No. is a "4").	I	Up to 2000 A	A 1 6			✓
Tinned version of the customer's connections on the guide frame <sup>3)4)</sup>						
Conditions	Size					
Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.	I		A 0 8			✓
	II		A 0 8			✓
	III		A 0 8			✓
Use of the withdrawable circuit breaker in combination with a guide frame supplied up to 03/2019						
Reduction of the technical specifications for 3WL1 withdrawable circuit breakers for use in combination with older guide frames supplied			A 4 1			✓
<ul style="list-style-type: none"> <li>• as complete circuit breakers up to 03/2019 or</li> <li>• as 3WL92.-.A.-... or</li> <li>• as 3WL92.-.B.-... or</li> <li>• as 3WL92.-.D.-... or</li> <li>• as 3WL92.-.E.-... or</li> </ul> for sizes I to III.						✓
Special packaging (moisture protection)						Additional price
Special packaging for extended technical requirements						
Cardboard packaging with water-repellent coating on corrugated cardboard (moisture protection)			A 6 1			✓
Rating plugs						Additional price
Conditions	Size	Rated current $I_n$ A				

- <sup>1)</sup> When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.
- <sup>2)</sup> Not possible for circuit breakers with very high breaking capacity C.
- <sup>3)</sup> Front connections are tinned as standard.
- <sup>4)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

## Options

1

Add **"-Z"** to the complete Article No.  
and indicate the appropriate order code(s).

3WL.....-.....-Z

Additional price

   +...+...

Rating plugs					Additional price
Conditions	Size	Rated current $I_n$ A			
Only one module is possible per circuit breaker (not in conjunction with Electronic Trip Unit ETU15B). As standard, the Electronic Trip Units are equipped with a rating plug which is equal to the maximum rated circuit breaker current ( $I_{n\ max}$ ). The rated current of the selected rating plug must be smaller than $I_{n\ max}$ .	I, II	250	B 0 2		None
		315	B 0 3		None
		400	B 0 4		None
		500	B 0 5		None
		630	B 0 6		None
		800	B 0 8		None
		1000	B 1 0		None
	I, II, III	1250	B 1 2		None
		1600	B 1 6		None
		2000	B 2 0		None
	II, III	2500	B 2 5		None
		3200	B 3 2		None
		4000	B 4 0		None
	III	5000	B 5 0		None
		6300	B 6 3		None

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## Options

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z □□□ +...+...	Additional price	
<b>Indication/operator control elements, door sealing frames</b>					
<b>5-digit mechanical operating cycles counter<sup>1)</sup></b>			<b>C 0 1</b>	✓	
<b>Electrical ON button S10 in the operator panel<sup>2)</sup></b>			<b>C 1 1</b>	✓	
Possible only for circuit breakers with closing coil.	Button with sealing cap			✓	
	Key operation with CES lock		<b>C 1 2</b>	✓	
<b>Spring charged signaling switches<sup>2)</sup> (S21)</b>			<b>C 2 0</b>	✓	
	1 NO contact			✓	
<b>Ready-to-close signaling switches (S20)</b>			<b>C 2 2</b>	✓	
	1 NO contact			✓	
<b>Signaling switches<sup>2)</sup></b>					
	For the first auxiliary release (S22)		<b>C 2 6</b>	✓	
	For the second auxiliary release (S23)		<b>C 2 7</b>	✓	
<b>Motor shutdown switch in the operator panel<sup>3)</sup> (S12)</b>			<b>S 2 5</b>	✓	
<b>EMERGENCY-STOP pushbuttons</b>			<b>S 2 4</b>	✓	
	Mushroom pushbutton instead of the mechanical OFF pushbutton			✓	
<b>Door sealing frames</b>			<b>T 4 0</b>	✓	
<b>Reclosing lockout and remote resets</b>					
<b>Automatic reset of the reclosing lockout</b>			<b>K 0 1</b>	✓	
<b>1st tripped signaling switch<sup>2)4)</sup> (S24)</b>			<b>K 0 7</b>	✓	
	1 CO contact			✓	
<b>2nd tripped signaling switch<sup>2)4)8)</sup> (S25)</b>			<b>K 0 6</b>	✓	
	1 NO contact			✓	
Type	50/60 Hz V AC	V DC			
<b>Remote reset solenoid for displays and reset buttons including automatic reset of the reclosing lockout</b>					
	--	24	<b>K 1 0</b>	✓	
	--	48	<b>K 1 1</b>	✓	
	120	125	<b>K 1 2</b>	✓	
	208 ... 250	208 ... 250	<b>K 1 3</b>	✓	
<b>Motorized operating mechanism and closing/opening coils</b>					
Type	Conditions	Motor			
		50/60 Hz V AC	V DC		
<b>Motorized operating mechanism</b>					
	Only possible if the 13th digit of the Article No. = "1"	--	24 ... 30	<b>M 0 1</b>	✓
		--	48 ... 60	<b>M 0 3</b>	✓
		110 ... 127	110 ... 125	<b>M 0 5</b>	✓
		208 ... 240	220 ... 250	<b>M 0 6</b>	✓
Type	Conditions	Activation solenoids			
		50/60 Hz V AC	V DC		
<b>Closing coil suitable for uninterrupted duty, 100% OP</b>					
	Only possible if the 13th digit of the Article No. = "1"	--	24	<b>M 2 1</b>	✓
		--	30	<b>M 2 2</b>	✓
		--	48	<b>M 2 3</b>	✓
		--	60	<b>M 2 4</b>	✓
		110 ... 127	110 ... 125	<b>M 2 5</b>	✓
		208 ... 240	220 ... 250	<b>M 2 6</b>	✓
Type	Conditions	Activation solenoids			
		50/60 Hz V AC	V DC		
<b>Closing coil<sup>5)</sup> not suitable for uninterrupted duty, 5% OP, synchronizable</b>					
	Only possible if the 13th digit of the Article No. = "1"	--	24	<b>M 3 1</b>	✓
		--	48	<b>M 3 3</b>	✓
		110 ... 127	110 ... 125	<b>M 3 5</b>	✓
		208 ... 240	220 ... 250	<b>M 3 6</b>	✓
Type	Conditions	Activation solenoids			
		50/60 Hz V AC	V DC		
<b>Opening coil (shunt release)<sup>6)7)</sup></b>					
	Not suitable for uninterrupted duty, 5% OP, synchronizable	--	24	<b>M 4 1</b>	✓
		--	48	<b>M 4 3</b>	✓
		110 ... 127	110 ... 125	<b>M 4 5</b>	✓
		208 ... 240	220 ... 250	<b>M 4 6</b>	✓

1) Only possible with motorized operating mechanism.

2) Not possible with "communications interface" option, order code "F02" or "F12".

3) Only for breakers with motorized operating mechanism, not possible with order codes "C11", "C12".

4) Not available for non-automatic air circuit breakers.

5) Overexcited, i.e. switching time 50 ms (standard > 80 ms).

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

7) Overexcited, i.e. opening time 50 ms (standard > 80 ms).

8) Only possible with option "K07".

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

## Options

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z □□□ +...+...	Additional price	
<b>Interlocks, covers, position signaling switches (for fixed-mounted version)</b>					
<b>Mechanical interlocking</b> (interlocking module with Bowden cable 2 m)	Fixed-mounted circuit breakers		<b>S 5 5</b>	✓	
<b>Interlocks, covers, position signaling switches (for withdrawable version)</b>					
<b>Mechanical interlocking</b> (interlocking module with Bowden cable 2 m)	Variant				
	For withdrawable circuit breakers with guide frame		<b>R 5 5</b>	✓	
	For guide frames		<b>R 5 6</b>	✓	
	For withdrawable circuit breakers		<b>R 5 7</b>	✓	
<b>Arc chute covers</b>	Number of poles	Size			
Not available for - 1000 V version (order code "A05") - DC version - 4000 A, size II - 1150 V version (order code "A15") - 130 kA version, size II - 150 kA version, size III	3-pole	I	<b>R 1 0</b>	✓	
		II	<b>R 1 0</b>	✓	
		III	<b>R 1 0</b>	✓	
	4-pole	I	<b>R 1 0</b>	✓	
		II	<b>R 1 0</b>	✓	
		III	<b>R 1 0</b>	✓	
<b>Shutters</b> 2-part lockable with padlocks <sup>1)</sup>	Number of poles	Size			
3-pole		I	<b>R 2 1</b>	✓	
		II	<b>R 2 1</b>	✓	
		III	<b>R 2 1</b>	✓	
4-pole		I	<b>R 2 1</b>	✓	
		II	<b>R 2 1</b>	✓	
		III	<b>R 2 1</b>	✓	
<b>Position signaling switches for guide frames</b>	Connected position	Test position	Disconnected position		
	1 CO	1 CO	1 CO	<b>R 1 5</b>	✓
	3 CO	2 CO	1 CO	<b>R 1 6</b>	✓
<b>Communication and metering functions</b>					
<b>Breaker Status Sensor (BSS)</b>			<b>F 0 1</b>	✓	
<b>PROFIBUS DP communications interface<sup>2)</sup></b>	Including COM15 and Breaker Status Sensor (BSS)		<b>F 0 2</b>	✓	
<b>MODBUS RTU communications interface<sup>2)</sup></b>	Including COM16 and Breaker Status Sensor (BSS)		<b>F 1 2</b>	✓	
<b>PROFINET IO / Modbus TCP communications interface<sup>2)</sup></b> <b>NEW</b>	Including COM35 and Breaker Status Sensor (BSS)		<b>F 3 5</b>	✓	
<b>Metering function Plus (communication modules not included)</b> <b>NEW</b>					
<b>With internal voltage tap at the lower main conducting paths</b>			<b>F 3 6</b>	✓	
<b>With internal voltage tap at the upper main conducting paths</b>			<b>F 3 7</b>	✓	
<b>For combination with external voltage transformer</b> Voltage transformers have to be ordered externally, <a href="#">see page 1/77</a> .			<b>F 3 8</b>	✓	
<b>Overload and short-circuit protection for neutral conductors</b>					
<b>Internal current transformer for N conductor</b>	Size				
Only possible with 4-pole circuit breakers with ETU27B to ETU76B	I		<b>F 2 3</b>	✓	
	II		<b>F 2 3</b>	✓	
	III		<b>F 2 3</b>	✓	
<b>EMC filters</b>					
<b>EMC filters</b>			<b>F 3 1</b>	✓	
<ul style="list-style-type: none"> <li>Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)</li> <li>Insertion loss (asymmetric) in the range 40 kHz to 10 MHz &gt; 40 dB</li> </ul>					
<b>Transformer (without iron core), Rogowski coil only</b>					
<b>Transformer</b>	Number of poles	Size			
Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B	3-pole	II	<b>K 6 0</b>	✓	
		III	<b>K 6 0</b>	✓	
<ul style="list-style-type: none"> <li>External 24 V DC supply required</li> <li>Undervoltage release required</li> </ul>	4-pole	II	<b>K 6 0</b>	✓	
		III	<b>K 6 0</b>	✓	
Comprises: <ul style="list-style-type: none"> <li>3 (3-pole) or 4 (4-pole) transformers</li> <li>24 V DC relay</li> <li>Warning signs</li> <li>Manual</li> </ul>					

<sup>1)</sup> Padlocks not included in scope of supply.

<sup>2)</sup> When ordering withdrawable circuit breaker and guide frame separately, specify order code "F02" or "F12" or "F35" for withdrawable circuit breaker only.

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## Options

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).		3WL.....-.....-Z □□□+...+...	Additional price
<b>Locking devices (for fixed-mounted versions and withdrawable versions)</b>			
<b>Locking devices against unauthorized closing, in the operator panel</b> The disconnecter unit fulfills the requirements for main circuit breakers according to EN 60204-1	Variant		
	Made by CES	S 0 1	✓
	Made by IKON	S 0 3	✓
	Assembly kit FORTRESS or Castell <sup>1)</sup>	S 0 5	✓
	Assembly kit for padlocks <sup>2)</sup>	S 0 7	✓
	Made by Ronis	S 0 8	✓
<b>EMERGENCY-STOP pushbuttons</b>	Mushroom pushbutton instead of the mechanical OFF pushbutton	S 2 4	✓
<b>Locking devices for operating mechanism handles with padlock<sup>2)</sup></b>		S 3 3	✓
<b>Locking devices (for withdrawable version)</b>			
<b>Locking devices against unauthorized closing, for withdrawable circuit breakers</b> The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1, consisting of a lock in the cabinet door, active in the connected position, function is retained when circuit breaker is replaced. Not possible in combination with order codes "R81", "R85" or "R86".	Variant		
	Made by CES	R 6 1	✓
	Made by Ronis	R 6 8	✓
	Made by Profalux	R 6 0	✓
<b>Locking devices to prevent movement of the withdrawable circuit breakers</b> Safety lock for mounting on the circuit breaker	Variant		
	Made by CES	S 7 1	✓
	Made by Profalux	S 7 5	✓
	Made by Ronis	S 7 6	✓
<b>Locking mechanisms (for fixed-mounted versions)</b>			
<b>Locking mechanism</b> Not possible in combination with order codes "R81", "R85" or "R86".	To prevent opening of the cabinet door in ON position	S 3 0	✓
<b>Locking mechanisms (for withdrawable versions)</b>			
<b>Locking mechanism</b> Not possible in combination with order codes "R81", "R85" or "R86".	Variant		
	To prevent opening of the cabinet door in connected position	R 3 0	✓
	To prevent closing of circuit breaker with the cabinet door open <sup>3)5)</sup>	R 4 0	✓
	To prevent movement with the cabinet door open <sup>4)</sup>	R 5 0	✓
<b>Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position</b> , consisting of Bowden cable and lock in the cabinet door. Not possible in combination with order codes "R30", "R50", "R61", "R68" or "R60".	Variant		
	Made by CES	R 8 1	✓
	Made by Profalux	R 8 5	✓
	Made by Ronis	R 8 6	✓
<b>Connection methods for auxiliary conductors (for fixed-mounted and withdrawable versions)</b>			
<b>Connections for screwless terminals (tension spring)</b>	Variant		
	Fixed-mounted	N 6 1	✓
	Withdrawable	P 6 1	✓

1) Locks must be ordered from the manufacturer.

2) Padlock not included in the scope of supply.

3) Not available in combination with R50.

4) Not available in combination with R40.

5) Combination with R81, R85 and R86 on request.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

## Options

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> +...+...	Additional price	
For withdrawable circuit breakers with guide frames or for guide frames <sup>1)</sup>				Additional price 3-pole	Additional price 4-pole
Note					
To select this connection method, the 12th digit of the Article No. for the circuit breaker must be a "6".					
Connection methods for main connections	Size	Rated current $I_n$			
Top and bottom: <sup>1) 2)</sup> accessible from front, single hole	I	Up to 1600 A	P 0 0	✓	✓
	II	Up to 2000 A	P 0 0	✓	✓
		Up to 2500 A	P 0 0	✓	✓
		Up to 3200 A	P 0 0	✓	✓
III	Up to 4000 A	P 0 0	✓	✓	
Connection methods for main connections	Size	Rated current $I_n$			
Top and bottom: <sup>1)</sup> accessible from front, double hole	I	Up to 2000 A	P 0 1	✓	✓
	II	Up to 2000 A	P 0 1	✓	✓
		Up to 2500 A	P 0 1	✓	✓
		Up to 3200 A	P 0 1	✓	✓
III	Up to 4000 A	P 0 1	✓	✓	
Connection methods for main connections	Size	Rated current $I_n$			
Top: <sup>1) 2)</sup> horizontal Bottom: accessible from front, single hole	I	Up to 1600 A	P 0 7	✓	✓
	II	Up to 2000 A	P 0 7	✓	✓
		Up to 2500 A	P 0 7	✓	✓
		Up to 3200 A	P 0 7	✓	✓
III	Up to 4000 A	P 0 7	✓	✓	
Connection methods for main connections	Size	Rated current $I_n$			
Top: vertical Bottom: horizontal	I	Up to 2000 A	P 1 8	✓	✓
	II	Up to 2000 A	P 1 8	✓	✓
		Up to 2500 A	P 1 8	✓	✓
		Up to 3200 A	P 1 8	✓	✓
III	Up to 4000 A	P 1 8	✓	✓	
		Up to 5000 A	P 1 8	✓	✓
Connection methods for main connections	Size	Rated current $I_n$			
Top: <sup>1)</sup> connecting flange Bottom: horizontal	I	Up to 2000 A	P 1 9	✓	✓
	II	Up to 2000 A	P 1 9	✓	✓
		Up to 2500 A	P 1 9	✓	✓
		Up to 3200 A	P 1 9	✓	✓
III	Up to 4000 A	P 1 9	✓	✓	
Connection methods for main connections	Size	Rated current $I_n$			
Top: horizontal Bottom: vertical	I	Up to 2000 A	P 2 3	✓	✓
	II	Up to 2000 A	P 2 3	✓	✓
		Up to 2500 A	P 2 3	✓	✓
		Up to 3200 A	P 2 3	✓	✓
III	Up to 4000 A	P 2 3	✓	✓	
		Up to 5000 A	P 2 3	✓	✓
Connection methods for main connections	Size	Rated current $I_n$			
Top: <sup>1)</sup> horizontal Bottom: connecting flange	I	Up to 2000 A	P 2 8	✓	✓
	II	Up to 2000 A	P 2 8	✓	✓
		Up to 2500 A	P 2 8	✓	✓
		Up to 3200 A	P 2 8	✓	✓
III	Up to 4000 A	P 2 8	✓	✓	

<sup>1)</sup> Cannot be used for size II and III circuit breakers with very high breaking capacity C

<sup>2)</sup> Not for 3WL1 size I with high breaking capacity H



## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Options

1

Add "-Z" to the complete Article No.  
and indicate the appropriate order code(s).

3WL.....-.....-Z

+...+...

Additional price

#### For fixed-mounted circuit breakers

##### Note

To select this connection method, the 12th digit of the Article No. for the circuit breaker must be a "2".

Connection methods for main connections	Size	Rated current $I_n$			Additional price 3-pole	Additional price 4-pole	
Top: <sup>1)</sup> horizontal Bottom: accessible from front, single hole	I	Up to 1600 A	N 1 1		✓	✓	
	II	Up to 2000 A	N 1 1		✓	✓	
		Up to 2500 A	N 1 1		✓	✓	
		Up to 3200 A	N 1 1		✓	✓	
	III <sup>2)</sup>	Up to 4000 A	N 1 1		✓	✓	
Connection methods for main connections	I	Up to 1600 A	N 2 0		✓	✓	
		Up to 2000 A	N 2 0		✓	✓	
	II	Up to 2000 A	N 2 0		✓	✓	
		Up to 2500 A	N 2 0		✓	✓	
		Up to 3200 A	N 2 0		✓	✓	
	III	Up to 4000 A	N 2 0		✓	✓	
		Up to 5000 A	N 2 0		✓	✓	
	Connection methods for main connections	I	Up to 1600 A	N 2 4		✓	✓
			Up to 2000 A	N 2 4		✓	✓
II		Up to 2000 A	N 2 4		✓	✓	
		Up to 2500 A	N 2 4		✓	✓	
		Up to 3200 A	N 2 4		✓	✓	
III		Up to 4000 A	N 2 4		✓	✓	
		Up to 5000 A	N 2 4		✓	✓	

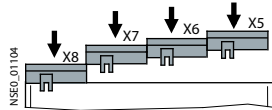
<sup>1)</sup> Not for 3WL1 size I with high breaking capacity H and circuit breakers with very high breaking capacity C

<sup>2)</sup> Not for size III with very high breaking capacity C

### Overview

#### Determination of the number of auxiliary supply connectors required

This selection is only required if the guide frame is ordered under a separate Article No.



The required number of auxiliary supply connectors depends on the:

- Operating mechanism type
- Electronic Trip Unit with/without current transformer
- Type and number of auxiliary releases
- Number of auxiliary switches
- COM15/COM16 communications interface

	Number of auxiliary supply connectors	Terminal
<b>a</b> <b>The first auxiliary supply connector X6 is always required.</b>	<b>1</b>	X6
<b>b</b> <b>Operating mechanisms</b>		
b1 Manual operating mechanism with stored-energy feature with mechanical closing	<b>0</b>	
b2 Manual operating mechanism with stored-energy feature with mechanical and electrical closing	<b>0</b>	X6
b3 Manual/motorized operating mechanism with stored-energy feature with mechanical and electrical closing	<b>+1</b>	X5
<b>c</b> <b>Electronic Trip Units</b>		
c1 Electronic Trip Units ETU15B, ETU25B, ETU27B	<b>0</b>	
c2 Electronic Trip Units ETU45B, ETU76B (internal CubicleBUS)	<b>+1</b>	X8
Connections for external current transformers for overload protection in the N conductor and ground fault protection		
c3 Current transformer installed in the N conductor (required with 3-pole circuit breakers if c2 is not selected)	<b>+1</b>	X8
c4 Current transformer in the star point of the transformer (required if c2 or c3 is not selected)	<b>+1</b>	X8
<b>d</b> <b>Auxiliary releases</b>		
d1 With/without 1st auxiliary release (shunt release F1)	<b>0</b>	X6
d2 2nd auxiliary release (shunt release F2, undervoltage release F3, delayable undervoltage release F4)	<b>+1</b>	X5
<b>e</b> <b>Auxiliary switch blocks</b>		
e1 1st auxiliary switch block 2 NO + 2 NC	<b>0</b>	X6
e2 1st and 2nd auxiliary switch block 4 NO + 4 NC or 6 NO + 2 NC or 5 NO + 3 NC (required if b3 or d2 is not selected)	<b>+1</b>	X5
<b>f</b> <b>Communication modules</b>		
f1 Without communication module COM15/COM16	<b>0</b>	
f2 With communication module COM15/COM16 - occupies the entire terminal strip X7, making the following options no longer possible:	<b>+1</b>	X7
<ul style="list-style-type: none"> <li>• Tripped signaling switch S24</li> <li>• Spring charged signaling switch S21</li> <li>• Electrical ON button S10</li> <li>• Signaling switch on first and second auxiliary release S22 + S23</li> </ul>		
<b>g</b> <b>Optional signals/accessories</b>		
g1 Tripped signaling switch S24 (only when f2 not selected)	<b>+1</b>	X7
g2 Spring charged signaling switch S21 (only when f2 not selected, required if g1 not selected)	<b>+1</b>	X7
g3 Electric ON button S10 (only when f2 not selected, required if g1 or g2 not selected)	<b>+1</b>	X7
g4 Signaling switch at first auxiliary release S22 (only when f2 not selected, required if g1, g2 or g3 not selected)	<b>+1</b>	X7
g5 Signaling switch at second auxiliary release S23 (only when f2 not selected, required if g1, g2, g3 or g4 not selected)	<b>+1</b>	X7
g6 Ready-to-close signaling switch S20	<b>0</b>	X6
g7 Motor shutdown switch S12 (only if motorized operating mechanism selected)	<b>0</b>	X5
g8 Remote reset solenoid F7 (required if c2 not selected)	<b>+1</b>	X8
<b>h</b> <b>Total number of auxiliary supply connectors</b>	<b>(max. 4)</b>	

For ordering the auxiliary supply connectors, see under "Accessories and spare parts, Guide frames for AC circuit breakers/non-automatic air circuit breakers", page 1/60 to page 1/66 and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/73.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

1

#### Selection and ordering data

##### Guide frames for AC circuit breakers/non-automatic air circuit breakers

Size	Max. rated circuit breaker current $I_{n \max}$	Breaking capacity $I_{cu} = I_{cs}$	SD	Guide frames for 3-pole circuit breakers/non-automatic air circuit breakers Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	kA	d					
<b>Front main circuit connection, single hole</b>								
I	1000	... 66		<b>3WL9211-1FA□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2FA□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3FA□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4FA□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5FA□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6FA□□-□□A1</b>		1	1 unit	1CA
<b>Front main circuit connection, double hole</b>								
I	1000	... 66		<b>3WL9211-1FB□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2FB□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3FB□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3FB□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4FB□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5FB□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6FB□□-□□A1</b>		1	1 unit	1CA
<b>Horizontal main circuit connection</b>								
I	1000	... 66		<b>3WL9211-1FC□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2FC□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3FC□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3FC□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4FC□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5FC□□-□□A1</b>		1	1 unit	1CA
	3200	... 130		<b>3WL9212-5FC□□-□□C1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6FC□□-□□A1</b>		1	1 unit	1CA
	5000	... 100		<b>3WL9213-7FC□□-□□A1</b>		1	1 unit	1CA
	4000	... 150		<b>3WL9213-6FC□□-□□C1</b>		1	1 unit	1CA
	5000	... 150		<b>3WL9213-7FC□□-□□C1</b>		1	1 unit	1CA
<b>Options</b>								
<b>Number of auxiliary supply connectors</b>		None		<b>0</b>				<b>None</b>
		1 connector		<b>1</b>				✓
		2 connectors		<b>2</b>				✓
		3 connectors		<b>3</b>				✓
		4 connectors		<b>4</b>				✓
Note								
For required number of auxiliary supply connectors, see table on page 1/59.								
<b>Type of auxiliary circuit connections</b>		None <sup>2)</sup>		<b>0</b>				<b>None</b>
		With screw connection (SIGUT, standard)		<b>1</b>				✓
		With screwless connection method (tension spring)		<b>2</b>				✓
<b>Position signaling switches</b>		None		<b>0</b>				<b>None</b>
		Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO		<b>1</b>				✓
		Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		<b>2</b>				✓
<b>Shutters</b>		None		<b>A</b>				<b>None</b>
		With shutter, 2-part, lockable	Size I	<b>B</b>				✓
			Size II	<b>B</b>				✓
			Size III	<b>B</b>				✓

<sup>1)</sup> For 3WL1 air circuit breakers size I from 630 A to 2000 A with high breaking capacity H and 3WL1 air circuit breakers size I with rated current  $I_n = 2000$  A.

<sup>2)</sup> Can only be selected if the number of auxiliary supply connectors = 0.

## Air Circuit Breakers

### 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

#### Accessories and spare parts

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	3WL921-.....-Z □ □ □	Additional price
<b>Rated voltage 1000 V AC and 690 V IT networks</b>		
Size I (breaking capacity H)	A 0 5	✓
Size II (breaking capacity H), not for breaking capacities N, S and C	A 0 5	✓
Size III (breaking capacity H and C)	A 0 5	✓
<b>Rated voltage 1150 V AC</b>		
Size II, except breaking capacity C and 4000 A (breaking capacity H)	A 1 5	✓
Size III, breaking capacity H	A 1 5	✓
<b>Rated voltage 690 V AC (+ 20%)</b>		
Size I (breaking capacity H)	A 1 6	✓
<b>Tinned version of the customer's connections on the guide frame<sup>1)2)</sup> Only for guide frames with horizontal connection or flange connection</b>		
Size I	A 0 8	✓
Size II	A 0 8	✓
Size III	A 0 8	✓
Notes		
<ul style="list-style-type: none"> <li>• For vertical main circuit connection and main circuit connection connecting flange, <a href="#">see the following page</a>.</li> <li>• All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, <a href="#">see page 1/52 to page 1/58</a>.</li> </ul>		

1) Front connections are tinned as standard.

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

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

Size	Max. rated circuit breaker current $I_{n \max}$	Breaking capacity $I_{cu} = I_{cs}$	SD	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	kA	d	Article No.: <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>				
<b>Vertical main circuit connection</b>								
I	1000	... 66		<b>3WL9211-1FD□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2FD□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3FD□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3FD□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4FD□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5FD□□-□□A1</b>		1	1 unit	1CA
	3200	... 130		<b>3WL9212-5FD□□-□□C1</b>		1	1 unit	1CA
	4000	... 100		<b>3WL9212-6FD□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6FD□□-□□A1</b>		1	1 unit	1CA
	5000	... 100		<b>3WL9213-7FD□□-□□A1</b>		1	1 unit	1CA
	6300	... 100		<b>3WL9213-8FD□□-□□A1</b>		1	1 unit	1CA
	4000	... 150		<b>3WL9213-6FD□□-□□C1</b>		1	1 unit	1CA
	5000	... 150		<b>3WL9213-7FD□□-□□C1</b>		1	1 unit	1CA
	6300	... 150		<b>3WL9213-8FD□□-□□C1</b>		1	1 unit	1CA
<b>Main circuit connection connecting flanges</b>								
I	1000	... 66		<b>3WL9211-1FE□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2FE□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3FE□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3FE□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4FE□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5FE□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6FE□□-□□A1</b>		1	1 unit	1CA
<b>Options</b>								
<b>Number of auxiliary supply connectors</b>					Additional price			
None				0		None		
1 connector				1		✓		
2 connectors				2		✓		
3 connectors				3		✓		
4 connectors				4		✓		
Note								
For required number of auxiliary supply connectors, see table on page 1/59.								
<b>Type of auxiliary circuit connections</b>								
None <sup>4)</sup>				0		None		
With screw connection (SIGUT, standard)				1		✓		
With screwless connection method (tension spring)				2		✓		
<b>Position signaling switches</b>								
None <sup>4)</sup>				0		None		
Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO				1		✓		
Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO				2		✓		
<b>Shutters</b>								
None				A		None		
With shutter, 2-part, lockable				B		✓		
Size I				B		✓		
Size II				B		✓		
Size III				B		✓		

<sup>1)</sup> For 3WL1 circuit breakers size I from 630 A to 2000 A with high breaking capacity H and 3WL1 circuit breakers size I with rated current  $I_n = 2000$  A.

<sup>2)</sup> Front connections are tinned as standard.

<sup>3)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

<sup>4)</sup> Can only be selected if the number of auxiliary supply connectors = 0.

## Air Circuit Breakers

### 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

#### Accessories and spare parts

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	<b>3WL921-.....-Z</b> □ □ □	Additional price
<b>Rated voltage 1000 V AC and 690 V IT networks</b>		
Size I (breaking capacity H; not for breaking capacity N and S)	<b>A 0 5</b>	✓
Size II (breaking capacity H), not for breaking capacities N, S and C	<b>A 0 5</b>	✓
Size III (breaking capacity H and C)	<b>A 0 5</b>	✓
<b>Rated voltage 1150 V AC</b>		
Size II, except breaking capacity C and 4000 A (breaking capacity H)	<b>A 1 5</b>	✓
Size III, breaking capacity H	<b>A 1 5</b>	✓
<b>Rated voltage 690 V AC (+ 20%)</b>		
Size I (breaking capacity H)	<b>A 1 6</b>	✓
<b>Tinned version of the customer's connections on the guide frame<sup>1)2)</sup> Only for guide frames with horizontal connection or flange connection</b>		
Size I	<b>A 0 8</b>	✓
Size II	<b>A 0 8</b>	✓
Size III	<b>A 0 8</b>	✓
<b>Notes</b>		
<ul style="list-style-type: none"> <li>• For vertical main circuit connection and main circuit connection connecting flange, <a href="#">see the following page</a>.</li> <li>• All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, <a href="#">see page 1/52 to page 1/58</a>.</li> </ul>		

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

Size	Max. rated circuit breaker current $I_{n \max}$ A	Breaking capacity $I_{cu} = I_{cs}$ kA	SD d	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?ArticleNo.</a>	Basic price per PU	PU (UNIT, SET, M)	PS	PG
<b>Front main circuit connection, single hole</b>								
I	1000	... 66		<b>3WL9211-1GA□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2GA□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3GA□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4GA□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5GA□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6GA□□-□□A1</b>		1	1 unit	1CA
<b>Front main circuit connection, double hole</b>								
I	1000	... 66		<b>3WL9211-1GB□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2GB□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3GB□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3GB□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4GB□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5GB□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6GB□□-□□A1</b>		1	1 unit	1CA
<b>Horizontal main circuit connection</b>								
I	1000	... 66		<b>3WL9211-1GC□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2GC□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3GC□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3GC□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4GC□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5GC□□-□□A1</b>		1	1 unit	1CA
	3200	... 130		<b>3WL9212-5GC□□-□□C1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6GC□□-□□A1</b>		1	1 unit	1CA
	5000	... 100		<b>3WL9213-7GC□□-□□A1</b>		1	1 unit	1CA
	4000	... 130		<b>3WL9213-6GC□□-□□C1</b>		1	1 unit	1CA
	5000	... 130		<b>3WL9213-7GC□□-□□C1</b>		1	1 unit	1CA
<b>Options</b>								
<b>Number of auxiliary supply connectors</b>	None			<b>0</b>				<b>None</b>
	1 connector			<b>1</b>				✓
	2 connectors			<b>2</b>				✓
	3 connectors			<b>3</b>				✓
	4 connectors			<b>4</b>				✓
Note								
For required number of auxiliary supply connectors, see table on page 1/59.								
<b>Type of auxiliary circuit connections</b>	None <sup>2)</sup>			<b>0</b>				<b>None</b>
	With screw connection (SIGUT, standard)			<b>1</b>				✓
	With screwless connection method (tension spring)			<b>2</b>				✓
<b>Position signaling switches</b>	None			<b>0</b>				<b>None</b>
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO			<b>1</b>				✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO			<b>2</b>				✓
<b>Shutters</b>	None			<b>A</b>				<b>None</b>
	With shutter, 2-part, lockable	Size I		<b>B</b>				✓
		Size II		<b>B</b>				✓
		Size III		<b>B</b>				✓

<sup>1)</sup> For 3WL1 circuit breakers size I from 630 A to 2000 A with high breaking capacity H and 3WL1 circuit breakers size I with rated current  $I_n = 2000$  A.

<sup>2)</sup> Can only be selected if the number of auxiliary supply connectors = 0.



Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	3WL921-.....-Z □ □ □	Additional price
<b>Rated voltage 1000 V AC and 690 V IT networks</b>		
Size I (breaking capacity H; not for breaking capacity N and S)	A 0 5	✓
Size II (breaking capacity H), not for breaking capacities N, S and C	A 0 5	✓
Size III (breaking capacity H and C)	A 0 5	✓
<b>Rated voltage 1150 V AC</b>		
Size II, except breaking capacity C and 4000 A (breaking capacity H)	A 1 5	✓
Size III, breaking capacity H	A 1 5	✓
<b>Rated voltage 690 V AC (+ 20%)</b>		
Size I (breaking capacity H)	A 1 6	✓
<b>Tinned version of the customer's connections on the guide frame<sup>1)2)</sup> Only for guide frames with horizontal connection or flange connection</b>		
Size I	A 0 8	✓
Size II	A 0 8	✓
Size III	A 0 8	✓
Notes		
<ul style="list-style-type: none"> <li>For vertical main circuit connection and main circuit connection connecting flange, <a href="#">see the following page</a>.</li> <li>All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, <a href="#">see page 1/52 to page 1/58</a>.</li> </ul>		

1) Front connections are tinned as standard.

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

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

Size	Max. rated circuit breaker current $I_{n \max}$	Breaking capacity $I_{cu} = I_{cs}$	SD	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	kA	d	Article No.: <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>				
<b>Vertical main circuit connection</b>								
I	1000	... 66		<b>3WL9211-1GD□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2GD□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3GD□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3GD□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4GD□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5GD□□-□□A1</b>		1	1 unit	1CA
	3200	... 130		<b>3WL9212-5GD□□-□□C1</b>		1	1 unit	1CA
	4000	... 100		<b>3WL9212-6GD□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6GD□□-□□A1</b>		1	1 unit	1CA
	5000	... 100		<b>3WL9213-7GD□□-□□A1</b>		1	1 unit	1CA
	6300	... 100		<b>3WL9213-8GD□□-□□A1</b>		1	1 unit	1CA
	4000	... 130		<b>3WL9213-6GD□□-□□C1</b>		1	1 unit	1CA
	5000	... 130		<b>3WL9213-7GD□□-□□C1</b>		1	1 unit	1CA
	6300	... 130		<b>3WL9213-8GD□□-□□C1</b>		1	1 unit	1CA
	<b>Main circuit connection connecting flanges</b>							
I	1000	... 66		<b>3WL9211-1GE□□-□□A1</b>		1	1 unit	1CA
	1600	... 66		<b>3WL9211-2GE□□-□□A1</b>		1	1 unit	1CA
	2000 <sup>1)</sup>	... 85		<b>3WL9211-3GE□□-□□A1</b>		1	1 unit	1CA
II	2000	... 100		<b>3WL9212-3GE□□-□□A1</b>		1	1 unit	1CA
	2500	... 100		<b>3WL9212-4GE□□-□□A1</b>		1	1 unit	1CA
	3200	... 100		<b>3WL9212-5GE□□-□□A1</b>		1	1 unit	1CA
III	4000	... 100		<b>3WL9213-6GE□□-□□A1</b>		1	1 unit	1CA
<b>Options</b>								
<b>Number of auxiliary supply connectors</b>								Additional price
None <sup>4)</sup>					0			None
1 connector					1			✓
2 connectors					2			✓
3 connectors					3			✓
4 connectors					4			✓
Note								
For required number of auxiliary supply connectors, see table on page 1/59.								
<b>Type of auxiliary circuit connections</b>								
None					0			None
With screw connection (SIGUT, standard)					1			✓
With screwless connection method (tension spring)					2			✓
<b>Position signaling switches</b>								
None					0			None
Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO					1			✓
Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO					2			✓
<b>Shutters</b>								
None					A			None
With shutter, 2-part, lockable					B			✓
					B			✓
					B			✓

<sup>1)</sup> For 3WL1 circuit breakers size I from 630 A to 2000 A with high breaking capacity H and 3WL1 circuit breakers size I with rated current  $I_n = 2000$  A.

<sup>2)</sup> Front connections are tinned as standard.

<sup>3)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

<sup>4)</sup> Can only be selected if the number of auxiliary supply connectors = 0.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### Accessories and spare parts

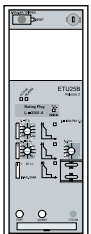



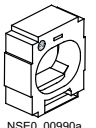
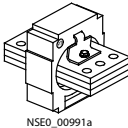
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Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	<b>3WL921-.....-Z</b> □ □ □	Additional price
<b>Rated voltage 1000 V AC and 690 V IT networks</b>		
Size I (breaking capacity H; not for breaking capacity N and S)	<b>A 0 5</b>	✓
Size II (breaking capacity H), not for breaking capacities N, S and C	<b>A 0 5</b>	✓
Size III (breaking capacity H and C)	<b>A 0 5</b>	✓
<b>Rated voltage 1150 V AC</b>		
Size II, except breaking capacity C and 4000 A (breaking capacity H)	<b>A 1 5</b>	✓
Size III, breaking capacity H	<b>A 1 5</b>	✓
<b>Rated voltage 690 V AC (+ 20%)</b>		
Size I (breaking capacity H)	<b>A 1 6</b>	✓
<b>Tinned version of the customer's connections on the guide frame<sup>1)2)</sup> Only for guide frames with horizontal connection or flange connection</b>		
Size I	<b>A 0 8</b>	✓
Size II	<b>A 0 8</b>	✓
Size III	<b>A 0 8</b>	✓
Notes		
<ul style="list-style-type: none"> <li>• For vertical main circuit connection and main circuit connection connecting flange, <a href="#">see the following page</a>.</li> <li>• All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, <a href="#">see page 1/52 to page 1/58</a>.</li> </ul>		

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## Accessories and spare parts

Designation	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
<b>Protective device with device holder and optional metering function<sup>1)</sup></b>							
 NSE0_01610b	Type	With protection function	Metering function				
	ETU15B	LI	None	<b>3WL9311-5AA00-0AA2</b>	1	1 unit 1CA	
	ETU25B	LSI	None	<b>3WL9312-5AA00-0AA2</b>	1	1 unit 1CA	
	ETU27B	LSING	None	<b>3WL9312-7AA00-0AA2</b>	1	1 unit 1CA	
	ETU45B (without display)	LSIN(G)	None	<b>3WL9314-5AA00-0AA2</b>	1	1 unit 1CA	
			With metering function Plus <b>NEW</b>	<b>3WL9314-5AA30-0AA2</b>	1	1 unit 1CA	
3WL9311-..AA.0-0AA1	ETU76B	LSIN(G)	None With metering function Plus <b>NEW</b>	<b>3WL9317-6AA00-0AA2</b> <b>3WL9317-6AA30-0AA2</b>	1	1 unit 1CA 1 1 unit 1CA	
<b>Rating plugs<sup>2)</sup></b>							
 NSE0_00992b	Size	Rated current $I_n$ A					
3WL9111-0AA64-0AA0	I, II	250	<b>3WL9111-0AA51-0AA0</b>	1	1 unit 1CA		
		315	<b>3WL9111-0AA52-0AA0</b>	1	1 unit 1CA		
		400	<b>3WL9111-0AA53-0AA0</b>	1	1 unit 1CA		
		500	<b>3WL9111-0AA54-0AA0</b>	1	1 unit 1CA		
		630	<b>3WL9111-0AA55-0AA0</b>	1	1 unit 1CA		
	I, II, III	800	<b>3WL9111-0AA56-0AA0</b>	1	1 unit 1CA		
		1000	<b>3WL9111-0AA57-0AA0</b>	1	1 unit 1CA		
		1250	<b>3WL9111-0AA58-0AA0</b>	1	1 unit 1CA		
	II, III	1600	<b>3WL9111-0AA61-0AA0</b>	1	1 unit 1CA		
		2000	<b>3WL9111-0AA62-0AA0</b>	1	1 unit 1CA		
2500		<b>3WL9111-0AA63-0AA0</b>	1	1 unit 1CA			
III	3200	<b>3WL9111-0AA64-0AA0</b>	1	1 unit 1CA			
	4000	<b>3WL9111-0AA65-0AA0</b>	1	1 unit 1CA			
	5000	<b>3WL9111-0AA66-0AA0</b>	1	1 unit 1CA			
	6300	<b>3WL9111-0AA67-0AA0</b>	1	1 unit 1CA			
<b>Ground-fault modules<sup>3)</sup></b>							
 NSE0_01027a	Versions						
3WL9111-0AT53-0AA0	• GFM AT 45B (only for ETU45B) alarm and tripping		<b>3WL9111-0AT53-0AA0</b>	1	1 unit 1CA		
	• GFM AT 55B-76B (only for ETU76B) alarm and tripping		<b>3WL9111-0AT56-0AA0</b>	1	1 unit 1CA		
 NSE0_01609	<b>Display</b>	• For ETU45B • 4-line	<b>3WL9111-0AT81-0AA0</b>	1	1 unit 1CA		
3WL9111-0AT81-0AA0							
<b>Internal current transformers for N conductor</b> Including wiring kit							
 NSE0_00990a	ETU Release 2	Size					
3WL9111-0AA2-.0AA0	✓	I	<b>3WL9111-0AA11-0AA0</b>	1	1 unit 1CA		
		II	<b>3WL9111-0AA12-0AA0</b>	1	1 unit 1CA		
		III	<b>3WL9111-0AA13-0AA0</b>	1	1 unit 1CA		
3WL9111-0AA3-.0AA0	✓	I	<b>3WL9111-0AA14-0AA0</b>	1	1 unit 1CA		
		II	<b>3WL9111-0AA15-0AA0</b>	1	1 unit 1CA		
		III	<b>3WL9111-0AA16-0AA0</b>	1	1 unit 1CA		
<b>External current transformers for N conductor</b> For T5, "Measurement Method" function, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
 NSE0_00991a	Copper connection pieces	Size					
3WL9111-0AA3-.0AA0	✓	I	<b>3WL9111-0AA21-0AA0</b>	1	1 unit 1CA		
		II	<b>3WL9111-0AA22-0AA0</b>	1	1 unit 1CA		
		III	<b>3WL9111-0AA23-0AA0</b>	1	1 unit 1CA		
3WL9111-0AA3-.0AA0	✓	I	<b>3WL9111-0AA31-0AA0</b>	1	1 unit 1CA		
		II	<b>3WL9111-0AA32-0AA0</b>	1	1 unit 1CA		
		III	<b>3WL9111-0AA33-0AA0</b>	1	1 unit 1CA		
<b>EMC filters</b>							
• Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)							
• Insertion loss (asymmetric) in the range 40 kHz to 10 MHz > 40 dB							
Versions							
• Only for ETU Release 2		<b>3WL9111-0AK34-0AA0</b>	1	1 unit 1CA			

<sup>1)</sup> For replacement in existing circuit breakers, please specify the circuit breaker ID No. when ordering.

<sup>2)</sup> With the rating plug selected, the maximum rated current  $I_{n\max}$  of the circuit breaker must not be exceeded. The following applies:  $I_n \leq I_{n\max}$


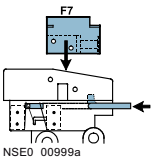
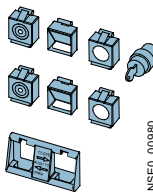
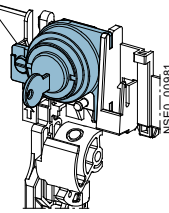
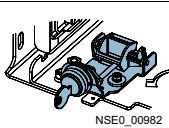
<sup>3)</sup> For direct measurement of the ground-fault current, e.g. in the star point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL circuit breaker is 0.11 Ω. If the ground-fault current is to be determined using the vectorial sum of the phases,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

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### Accessories and spare parts

1

Designation	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>More accessories for Electronic Trip Units</b>						
	<b>Sealable and lockable covers</b>					
	Versions <ul style="list-style-type: none"> <li>For ETU15B to ETU45B</li> <li>For ETU76</li> </ul>					
		<b>3WL9111-0AT45-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0AT46-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0AK21-0AA0</b>		1	1 unit	1CA
	<b>Automatic reset of the reclosing lockout</b> Spare part for option <b>K01</b> , see "-Z" + order code, <a href="#">page 1/54</a> .					
	<b>Remote reset solenoids<sup>1)</sup></b> <ul style="list-style-type: none"> <li>For mechanical tripped indicator</li> <li>Spare part for options <b>K10</b> to <b>K13</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>					
	<b>Note</b> Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 also needed.					
	<b>3WL9111-0AT45-0AA0</b> 					
	<b>Retrofittable internal CubicleBUS wiring for connection to terminal X8</b> <ul style="list-style-type: none"> <li>For ETU45B and ETU76B</li> <li>With male connector<sup>2)</sup></li> </ul>					
		<b>3WL9111-0AK03-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0AK04-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0AK05-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0AK06-0AA0</b>		1	1 unit	1CA
	<b>Retrofittable internal wiring for connection of the external N and G transformers to terminal X8</b> <ul style="list-style-type: none"> <li>Not for ETU Release 2</li> <li>Without male connector</li> </ul>					
		<b>3WL9111-0AK30-0AA0</b>		1	1 unit	1CA
	<b>Retrofittable internal CubicleBUS wiring for connection to terminal X8</b> <ul style="list-style-type: none"> <li>For ETU45B and ETU76B</li> <li>With male connector<sup>2)</sup></li> </ul>					
		<b>3WL9111-0AK0-0AA0</b>				
	<b>Retrofittable internal wiring for connection of the external N and G transformers to terminal X8</b> <ul style="list-style-type: none"> <li>Not for ETU Release 2</li> <li>Without male connector</li> </ul>					
		<b>3WL9111-0AK31-0AA0</b>		1	1 unit	1CA
	<b>Retrofittable internal wiring for connection of the external N and G transformers to terminal X8</b> <ul style="list-style-type: none"> <li>For ETU Release 2</li> <li>Without male connector</li> </ul>					
		<b>3WL9111-0AK33-0AA0</b>		1	1 unit	1CA
<b>Locking devices</b>						
	<b>Interlocking set for mechanical ON/OFF</b>					
	<ul style="list-style-type: none"> <li>Each consisting of 2 transparent covers for sealing or for attaching padlocks<sup>4)</sup></li> <li>Cover with 6.35 mm hole (for tool actuation)</li> <li>Lock mount for safety lock for key operation</li> </ul>					
	<b>3WL9111-0BA22-0AA0</b> Versions <ul style="list-style-type: none"> <li>Without safety lock</li> <li>Made by CES</li> <li>Made by IKON</li> </ul>					
		<b>3WL9111-0BA21-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA22-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA24-0AA0</b>		1	1 unit	1CA
	<b>Locking devices against unauthorized closing, in the operator panel</b>					
	<ul style="list-style-type: none"> <li>The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1</li> <li>Spare part for options <b>S01</b> to <b>S09</b>, see "-Z" + order code, <a href="#">page 1/56</a>.</li> </ul>					
	<b>3WL9111-0BA31-0AA0</b> Versions <ul style="list-style-type: none"> <li>Assembly kit FORTRESS or Castell<sup>3)</sup></li> <li>Made by Ronis</li> <li>Made by KIRK-Key<sup>3)</sup></li> <li>Made by Profalux</li> <li>Made by CES</li> <li>Made by IKON</li> <li>Assembly kit for padlocks<sup>4)</sup></li> </ul>					
		<b>3WL9111-0BA31-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA33-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA34-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA35-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA36-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA38-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA41-0AA0</b>		1	1 unit	1CA
	<b>Locking devices against unauthorized closing, for withdrawable circuit breakers</b>					
	<ul style="list-style-type: none"> <li>The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1</li> <li>Consisting of lock in the guide frame, active in connected position, function is retained when circuit breaker is replaced</li> <li>Spare part for option <b>R60</b>, <b>R61</b>, <b>R68</b>, see "-Z" + order code, <a href="#">page 1/56</a>.</li> </ul>					
	<b>3WL9111-0BA53-0AA0</b> Versions <ul style="list-style-type: none"> <li>Made by CES</li> <li>Made by IKON</li> <li>Made by KIRK-Key<sup>3)</sup></li> <li>Made by Ronis</li> <li>Made by Profalux</li> </ul>					
		<b>3WL9111-0BA51-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA53-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA57-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA58-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA50-0AA0</b>		1	1 unit	1CA

<sup>1)</sup> Can only be used in conjunction with "automatic reset of reclosing lockout", e.g. "-Z" + "K01", 3WL9111-0AK21-0AA0.

<sup>2)</sup> Required if communication is retrofitted.

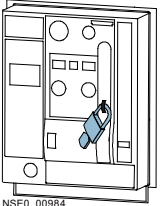
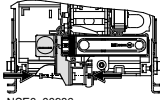
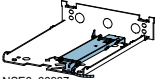
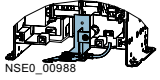
<sup>3)</sup> Locks, cylinders and keys must be ordered from the manufacturer.

<sup>4)</sup> Padlock not included in the scope of supply.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

Designation	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
 <p>NSE0_00984 3WL9111-0BA71-0AA0</p> <p><b>Locking devices for operating mechanism handle with padlock<sup>1)</sup></b> Spare part for option <b>S33</b>, see "-Z" + order code, <a href="#">page 1/56</a>.</p>	d	<b>3WL9111-0BA71-0AA0</b>		1	1 unit	1CA
 <p>NSE0_00986 3WL9111-0BA76-0AA0</p> <p><b>Locking devices to prevent movement of the withdrawable circuit breakers</b></p> <ul style="list-style-type: none"> <li>• Safety lock for mounting on the circuit breaker</li> <li>• Spare part for option <b>S71, S75, S76</b>, see "-Z" + order code, <a href="#">page 1/56</a>.</li> </ul> <p>Versions</p> <ul style="list-style-type: none"> <li>• Made by CES</li> <li>• Made by IKON</li> <li>• Made by Profalux</li> <li>• Made by Ronis</li> <li>• Made by KIRK-Key<sup>2)</sup></li> </ul>		<b>3WL9111-0BA73-0AA0</b> <b>3WL9111-0BA75-0AA0</b> <b>3WL9111-0BA76-0AA0</b> <b>3WL9111-0BA77-0AA0</b> <b>3WL9111-0BA80-0AA0</b>		1	1 unit	1CA
<p><b>Interlocking systems</b></p> <ul style="list-style-type: none"> <li>• Made by CES</li> <li>• 2 of the same keys for 3 circuit breakers</li> <li>• Locking device in OFF position</li> <li>• Lock in the operator panel</li> <li>• A maximum of 2 circuit breakers can be switched on</li> </ul>		<b>3WL9111-0BA43-0AA0</b>		1	1 unit	1CA
<b>Locking mechanisms</b>						
 <p>NSE0_00987 3WL9111-0BA83-0AA0</p> <p><b>Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position</b></p> <ul style="list-style-type: none"> <li>• Consisting of Bowden cable and lock in the cabinet door on the circuit breaker</li> <li>• Spare part for option <b>R81, R85, R86</b>, see "-Z" + order code, <a href="#">page 1/52</a>.</li> </ul> <p>Versions</p> <ul style="list-style-type: none"> <li>• Made by CES</li> <li>• Made by IKON</li> <li>• Made by Profalux</li> <li>• Made by Ronis</li> </ul> <p>Note</p> <p>Not possible in combination with "Locking mechanism to prevent opening of the cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the cabinet door open" (order code "R50").</p>		<b>3WL9111-0BA81-0AA0</b> <b>3WL9111-0BA83-0AA0</b> <b>3WL9111-0BA85-0AA0</b> <b>3WL9111-0BA86-0AA0</b>		1	1 unit	1CA
 <p>NSE0_00988 3WL9111-0BB12-0AA0</p> <p><b>Locking mechanisms to prevent opening of the cabinet door in ON position</b></p> <ul style="list-style-type: none"> <li>• Fixed-mounted</li> <li>• Can be defeated</li> <li>• Spare part for option <b>S30</b>, see "-Z" + order code, <a href="#">page 1/56</a>.</li> </ul>		<b>3WL9111-0BB12-0AA0</b>		1	1 unit	1CA
<p><b>Locking mechanisms to prevent opening of the cabinet door</b></p> <ul style="list-style-type: none"> <li>• Guide frames</li> <li>• Can be defeated</li> <li>• Spare part for option <b>R30</b>, see "-Z" + order code, <a href="#">page 1/56</a>.</li> </ul> <p>Note</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>		<b>3WL9111-0BB13-0AA0</b>		1	1 unit	1CA
<p><b>Locking mechanisms to prevent movement with the cabinet door open</b></p> <ul style="list-style-type: none"> <li>• Guide frames</li> <li>• Spare part for option <b>R50</b>, see "-Z" + order code, <a href="#">page 1/56</a>.</li> </ul> <p>Note</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>		<b>3WL9111-0BB15-0AA0</b>		1	1 unit	1CA

<sup>1)</sup> Padlock not included in the scope of supply.

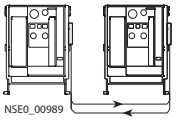
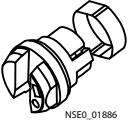

<sup>2)</sup> Locks, cylinders and keys must be ordered from the manufacturer.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### Accessories and spare parts

1

	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
<b>Interlocks</b>							
 <p>NSE0_00989</p> <p>3WL9111-0BB21-0AA0</p>	<b>Mechanical interlocking</b> With Bowden cable 2000 mm (one required for each circuit breaker)						
	Type	When ordered separately	Spare part for				
	Fixed-mounted circuit breakers	--	Option <b>S55</b> , see "-Z" + order code, <a href="#">page 1/56</a> .	<b>3WL9111-0BB21-0AA0</b>	1	1 unit	1CA
	Module for withdrawable circuit breakers with guide frame	--	Option <b>R55</b> , see "-Z" + order code, <a href="#">page 1/56</a> .	<b>3WL9111-0BB24-0AA0</b>	1	1 unit	1CA
	Module for guide frame	✓	Option <b>R56</b> , see "-Z" + order code, <a href="#">page 1/56</a> .	<b>3WL9111-0BB22-0AA0</b>	1	1 unit	1CA
	Module for withdrawable circuit breaker	✓	Option <b>R57</b> , see "-Z" + order code, <a href="#">page 1/56</a> .	<b>3WL9111-0BB23-0AA0</b>	1	1 unit	1CA
Adapter for size III withdrawable circuit breaker	✓	--	<b>3WL9111-0BB30-0AA0</b>	1	1 unit	1CA	
 <p>NSE0_01886</p> <p>3WL9112-8HA47-0AA0</p>	<b>Couplings on the circuit breaker (with ring) for mutual interlocking</b> Can be used in all circuit breakers		<b>3WL9112-8AH47-0AA0</b>	1	1 unit	1CA	
	<b>Bowden cables</b>						
Versions							
2000 mm			<b>3WL9111-0BB45-0AA0</b>	1	1 unit	1CA	
3000 mm			<b>3WL9111-0BB46-0AA0</b>	1	1 unit	1CA	
4500 mm			<b>3WL9111-0BB47-0AA0</b>	1	1 unit	1CA	
<b>Transfer control devices</b>							
 <p>3KC9000-8TL40 3KC9000-8EL10</p>	<b>3KC ATC6300 and ATC3100 transfer control devices</b> For combination with two air circuit breakers/molded case circuit breakers for changeover according to IEC 60947-6-1. For more information, see Catalog LV10 chapter "Transfer Switching Equipment and Load Transfer Switches".						
	<b>Manual tester Release 2 for Electronic Trip Units ETU15B to ETU76B</b> For testing the Electronic Trip Unit functions of all 3WL ETUs (release 1 and release 2)		<b>3WL9111-0AT32-0AA0</b>	1	1 unit	1CA	
<b>Function testers</b> For testing the tripping characteristics for Electronic Trip Units ETU15B to ETU76B		<b>3WL9111-0AT44-0AA0</b>	1	1 unit	1CA		
<b>Commissioning and service tool <span style="color: orange;">NEW</span></b>							
<b>TD400 Kit IEC</b> • Commissioning/service tool for IEC 3WL (ETU release 2) and 3VA • With adapter, cable and case		<b>3VW9011-0AT40</b>	1	1 unit	1CA		
<b>Spare parts</b>							
TD400 adapter for 3VA		<b>3VW9011-0AT43</b>	1	1 unit	1CA		
TD400 adapter for 3WL ETU release 1		<b>3VW9011-0AT44</b>	1	1 unit	1CA		
TD400 adapter for 3WL ETU release 2		<b>3VW9011-0AT45</b>	1	1 unit	1CA		

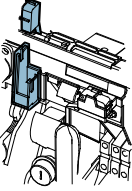
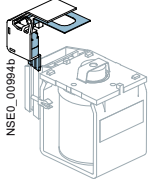


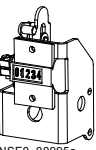
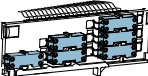
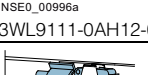
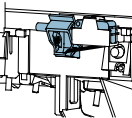
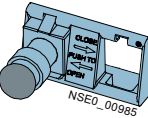


# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## Accessories and spare parts

1

Designation	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Indicators, control elements</b>						
 <p>NSE0_00993a</p> <p>3WL9111-0AH01-0AA0</p>		<b>Ready-to-close signaling switches (S20)</b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• 1 NO contact</li> <li>• Spare part for option <b>C22</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
 <p>NSE0_00994b</p> <p>3WL9111-0AH02-0AA0</p>		<b>Signaling switches<sup>1)2)</sup> (S22 or S23)</b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• 1st or 2nd auxiliary release</li> <li>• Spare part for option <b>C26</b> and <b>C27</b>, see "Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
 <p>NSE0_00995a</p> <p>3WL9111-0AH07-0AA0</p>		<b>1st tripped signaling switch<sup>1)2)</sup> (S24)</b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• 1 CO contact</li> <li>• Spare part for option <b>K07</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
 <p>NSE0_00995a</p> <p>3WL9111-0AH12-0AA0</p>		<b>2nd tripped signaling switch<sup>1)2)3)</sup> (S25)</b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• 1 NO contact</li> <li>• Spare part for option <b>K06</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
 <p>NSE0_00995a</p> <p>3WL9111-0AH07-0AA0</p>		<b>Operating cycles counter</b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• Mechanical<sup>4)</sup></li> <li>• Spare part for option <b>C01</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
 <p>NSE0_00996a</p> <p>3WL9111-0AH12-0AA0</p>		<b>Spring charged signaling switches<sup>1)2)</sup></b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• 1 NO contact</li> <li>• Spare part for option <b>C20</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
 <p>NSE0_00996a</p> <p>3WL9111-0AH12-0AA0</p>		<b>Position signaling switches for guide frames</b>				
		Spare part for option <b>R15</b> and <b>R16</b> , see "Z" + order code, <a href="#">page 1/55</a> .				
		<b>Versions</b>				
		<ul style="list-style-type: none"> <li>• 1st block (3 CO contacts)</li> <li>• 2nd block (6 CO contacts)</li> </ul>		1	1 unit	1CA
				1	1 unit	1CA
 <p>NSE0_00997a</p> <p>3WL9111-0AJ0.-0AA0</p>		<b>Electrical ON buttons<sup>1)5)</sup> (S10)</b>				
		<ul style="list-style-type: none"> <li>• Button + wiring<sup>2)</sup></li> <li>• For operator panel</li> <li>• Spare part for option <b>C11</b> and <b>C12</b>, see "Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
		<b>Versions</b>				
		<ul style="list-style-type: none"> <li>• With sealing cap <b>C11</b></li> <li>• With CES assembly kit <b>C12</b></li> <li>• With IKON assembly kit</li> </ul>		1	1 unit	1CA
				1	1 unit	1CA
				1	1 unit	1CA
		<b>Note</b>				
		Possible only for circuit breakers with closing coil.				
 <p>NSE0_00985</p> <p>3WL9111-0BA72-0AA0</p>		<b>Motor shutdown switches<sup>6)</sup> (S12)</b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• Mounting on operator panel</li> <li>• Spare part for option <b>S25</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				
		<b>EMERGENCY-STOP pushbuttons</b>		1	1 unit	1CA
		<ul style="list-style-type: none"> <li>• Mushroom pushbutton instead of the mechanical OFF pushbutton</li> <li>• Spare part for option <b>S24</b>, see "-Z" + order code, <a href="#">page 1/54</a>.</li> </ul>				

1) Not possible with "communications interface" option, order code "F02", "F12" or "F35".  
2) X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see [page 1/59](#) and [page 1/73](#)).

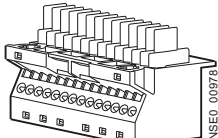
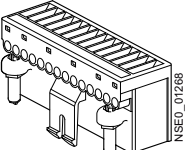
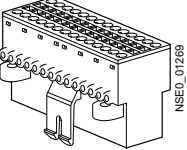


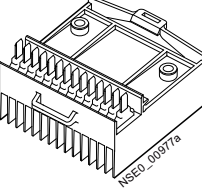
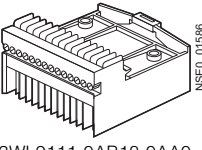
3) Can only be used in combination with 1st tripped signaling switch.  
4) Only in conjunction with motorized operating mechanism.  
5) Not possible with motor shutdown switch.  
6) Not possible with electrical ON button.

# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### Accessories and spare parts

1

	Designation	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Auxiliary conductor connections</b>							
	<b>Male connectors for circuit breakers</b> ①		<b>3WL9111-0AB01-0AA0</b>		1	1 unit	1CA
3WL9111-0AB01-0AA0							
	<b>Extension for the 1000 V male connector versions</b> Male connector must be ordered separately.		<b>3WL9111-0AB02-0AA0</b>		1	1 unit	1CA
	<b>Male connectors and extension for 1000 V</b>		<b>3WL9111-0AB10-0AA0</b>		1	1 unit	1EA
<b>Auxiliary supply connectors for circuit breakers or guide frames</b> ②							
	<b>Versions</b>						
	<ul style="list-style-type: none"> <li>• Screw connection (SIGUT)</li> <li>• Screwless connection method (tension spring)</li> </ul>		<b>3WL9111-0AB03-0AA0</b> <b>3WL9111-0AB04-0AA0</b>		1 1	1 unit 1 unit	1CA 1CA
3WL9111-0AB03-0AA0							
							
3WL9111-0AB04-0AA0							
	<b>Coding kits</b> For fixed-mounted versions (X5 to X8) ③		<b>3WL9111-0AB07-0AA0</b>		1	1 unit	1CA
							
							
3WL9111-0AB07-0AA0							
	<b>Sliding contact modules for guide frames</b> ④		<b>3WL9111-0AB08-0AA0</b>		1	1 unit	1CA
							
3WL9111-0AB08-0AA0							
	<b>One-part sliding contact modules for guide frames</b> Screw connection (SIGUT) ⑤		<b>3WL9111-0AB18-0AA0</b>		1	1 unit	1CA
							
3WL9111-0AB18-0AA0							
	<b>Blanking blocks for circuit breakers</b>		<b>3WL9111-0AB12-0AA0</b>		1	1 unit	1CA

For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

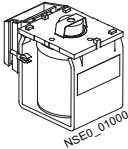
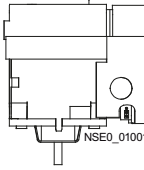
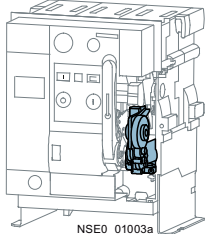
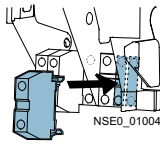
Withdrawable version: ① + ④ + ② or ① + ⑤

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

1

Designation	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
<b>Auxiliary releases</b>							
<b>Closing coils/shunt releases</b>							
 NSE0_01000 3WL9111-0AD06-0AA0	Versions	Voltage					
			100% OP	24 V DC	<b>3WL9111-0AD01-0AA0</b>	1	1 unit
		30 V DC	<b>3WL9111-0AD02-0AA0</b>	1	1 unit	1CA	
		48 V DC	<b>3WL9111-0AD03-0AA0</b>	1	1 unit	1CA	
		60 V DC	<b>3WL9111-0AD04-0AA0</b>	1	1 unit	1CA	
		110 ... 125 V DC/110 ... 127 V AC	<b>3WL9111-0AD05-0AA0</b>	1	1 unit	1CA	
		220 ... 250 V DC/208 ... 240 V AC	<b>3WL9111-0AD06-0AA0</b>	1	1 unit	1CA	
	5% OP <sup>1)</sup>	24 V DC	<b>3WL9111-0AD11-0AA0</b>	1	1 unit	1CA	
		48 V DC	<b>3WL9111-0AD12-0AA0</b>	1	1 unit	1CA	
		110 ... 125 V DC/110 ... 127 V AC	<b>3WL9111-0AD13-0AA0</b>	1	1 unit	1CA	
		220 ... 250 V DC/208 ... 240 V AC	<b>3WL9111-0AD14-0AA0</b>	1	1 unit	1CA	
	<b>Undervoltage releases</b>						
	 NSE0_01001 3WL9111-0AE0.-0AA0	Versions	Voltage				
				Instantaneous	24 V DC	<b>3WL9111-0AE01-0AA0</b>	1
30 V DC		<b>3WL9111-0AE02-0AA0</b>	1		1 unit	1CA	
48 V DC		<b>3WL9111-0AE03-0AA0</b>	1		1 unit	1CA	
60 V DC		<b>3WL9111-0AE07-0AA0</b>	1		1 unit	1CA	
110 ... 125 V DC/110 ... 127 V AC		<b>3WL9111-0AE04-0AA0</b>	1		1 unit	1CA	
220 ... 250 V DC/208 ... 240 V AC		<b>3WL9111-0AE05-0AA0</b>	1		1 unit	1CA	
380 ... 415 V AC		<b>3WL9111-0AE06-0AA0</b>	1	1 unit	1CA		
Delayed		48 V DC	<b>3WL9111-0AE11-0AA0</b>	1	1 unit	1CA	
		110 ... 125 V DC/110 ... 127 V AC	<b>3WL9111-0AE12-0AA0</b>	1	1 unit	1CA	
		220 ... 250 V DC/208 ... 240 V AC	<b>3WL9111-0AE13-0AA0</b>	1	1 unit	1CA	
		380 ... 415 V AC	<b>3WL9111-0AE14-0AA0</b>	1	1 unit	1CA	
	<b>Operating mechanisms</b>						
	<b>Motorized operating mechanisms<sup>2)</sup></b>						
 NSE0_01003a 3WL9111-0AF0.-0AA0	Versions						
		<ul style="list-style-type: none"> <li>• 24 ... 30 V DC</li> <li>• 48 ... 60 V DC</li> <li>• 110 ... 125 V DC/110 ... 127 V AC</li> <li>• 220 ... 250 V DC/208 ... 240 V AC</li> </ul>	<b>3WL9111-0AF01-0AA0</b>	1	1 unit	1CA	
			<b>3WL9111-0AF02-0AA0</b>	1	1 unit	1CA	
			<b>3WL9111-0AF03-0AA0</b>	1	1 unit	1CA	
			<b>3WL9111-0AF04-0AA0</b>	1	1 unit	1CA	
<b>Auxiliary contacts</b>							
<b>Auxiliary switch blocks</b>							
 NSE0_01004 3WL9111-0AG03-0AA0	Versions						
		<ul style="list-style-type: none"> <li>• 2 NO contacts + 2 NC contacts</li> <li>• 2 NO contacts</li> <li>• 1 NO contact + 1 NC contact</li> </ul>	<b>3WL9111-0AG01-0AA0</b>	1	1 unit	1CA	
			<b>3WL9111-0AG02-0AA0</b>	1	1 unit	1CA	
			<b>3WL9111-0AG03-0AA0</b>	1	1 unit	1CA	

<sup>1)</sup> Overexcited, i.e. switching time 50 ms (standard > 80 ms).

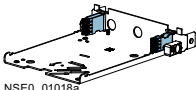
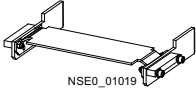
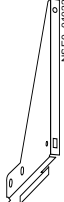
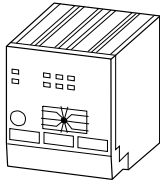
<sup>2)</sup> X5 auxiliary supply connector required for circuit breakers or guide frames.  
If this is not already available, please order additionally (see page 1/59  
and page 1/62).



## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

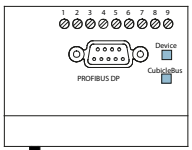
Designation	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Grounding connection</b>						
 NSE0_01018a 3WL9111-0BA02-0AA0						
<b>Grounding connection between the guide frame and the withdrawable circuit breaker</b>						
<ul style="list-style-type: none"> <li>For 30 kA ground short-circuit current<sup>1)</sup></li> <li>Contacting modules for guide frame</li> </ul>						
<b>Versions</b>						
<ul style="list-style-type: none"> <li>Size I and II<sup>2)</sup></li> <li>Size III</li> </ul>						
		<b>3WL9111-0BA01-0AA0</b>		1	1 unit	1CA
		<b>3WL9111-0BA02-0AA0</b>		1	1 unit	1CA
<b>Contact modules for withdrawable circuit breakers</b>						
 NSE0_01019 3WL9111-0BA07-0AA0	Number of poles	Size				
	3-pole	I II <sup>2)</sup> III	<b>3WL9111-0BA05-0AA0</b>	1	1 unit	1CA
			<b>3WL9111-0BA06-0AA0</b>	1	1 unit	1CA
			<b>3WL9111-0BA07-0AA0</b>	1	1 unit	1CA
	4-pole	I II <sup>2)</sup> III	<b>3WL9111-0BA08-0AA0</b>	1	1 unit	1CA
			<b>3WL9111-0BA04-0AA0</b>	1	1 unit	1CA
			<b>3WL9111-0BA10-0AA0</b>	1	1 unit	1CA
<b>Support brackets</b>						
 NSE0_01022 3WL9111-0BB50-0AA0			<b>3WL9111-0BB50-0AA0</b>	1	1 unit	1CA
<b>Support brackets</b>						
<ul style="list-style-type: none"> <li>For mounting fixed-mounted circuit breakers on vertical plane</li> <li>Only for sizes I and II (1 set = 2 units)</li> </ul>						
<b>CubicleBUS modules<sup>3)</sup></b>						
 NSE0_01023a 3WL9111-0AT23-0AA0			<b>3WL9111-0AT26-0AA0</b>	1	1 unit	1CA
<b>Digital output modules with rotary coding switch, relay outputs</b>						
			<b>3WL9111-0AT20-0AA0</b>	1	1 unit	1CA
<b>Digital output modules, configurable, relay outputs</b>						
			<b>3WL9111-0AT27-0AA0</b>	1	1 unit	1CA
<b>Digital input modules</b>						
			<b>3WL9111-0AT23-0AA0</b>	1	1 unit	1CA
<b>Analog output modules</b>						
			<b>3WL9111-0AT21-0AA0</b>	1	1 unit	1CA
<b>Zone Selective Interlocking modules</b>						
<b>Parameterization systems<sup>4)</sup></b>						
<b>powerconfig commissioning and service software</b>						
<ul style="list-style-type: none"> <li>Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using powerconfig software, see Catalog LV 10 chapter "Software", "Configuring, Visualizing and Controlling with SENTRON".</li> <li>powerconfig is available free of charge at <a href="http://support.automation.siemens.com/WW/view/en/63452759">http://support.automation.siemens.com/WW/view/en/63452759</a></li> </ul>						

<sup>1)</sup> For 60 kA ground short-circuit current, order 2.

<sup>2)</sup> Cannot be used for size II with very high breaking capacity C and size II, 4000 A.

<sup>3)</sup> Each CubicleBUS module is supplied with a 0.2 m pre-assembled cable to connect the modules with each other. A longer pre-assembled cable is required for connection to the circuit breaker.

<sup>4)</sup> All communication components, CubicleBUS modules and metering functions are available for the ETU45B and ETU76B Electronic Trip Units.

Designation	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Accessories for communication<sup>3)</sup></b>						
<b>Pre-assembled cables for CubicleBUS modules</b>						
Versions						
• 0.5 m long, for connection to 3WL with COM15/COM16		<b>3WL9111-0BC04-0AA0</b>		1	1 unit	1CA
• 1 m long, for connection to 3WL with COM15/COM16		<b>3WL9111-0BC02-0AA0</b>		1	1 unit	1CA
• 2 m long, for connection to 3WL with COM15/COM16		<b>3WL9111-0BC03-0AA0</b>		1	1 unit	1CA
• 2 m long, for connection to 3WL without COM15/COM16		<b>3WL9111-0BC05-0AA0</b>		1	1 unit	1CA
<b>SENTRON manual for communication solutions</b>						
<ul style="list-style-type: none"> <li>Detailed description of the communication functions for circuit breakers. Installation, connection, commissioning, data transmission to the PLC.</li> <li>Free download from: <a href="http://www.siemens.com/lowvoltage/manuals">www.siemens.com/lowvoltage/manuals</a></li> </ul>						
<b>Voltage transformers</b>						
<ul style="list-style-type: none"> <li>3-pole, for 3WL circuit breakers with metering function <i>Plus</i><sup>1)</sup></li> <li>380 ... 690 V/100 V, class 0.5</li> </ul>						
<b>3WL9111-0BB68-0AA0</b>						
				1	1 unit	1CA
<b>Retrofitting and spare parts<sup>3) 4)</sup></b>						
<b>COM35 PROFINET IO / Modbus TCP modules</b> <b>NEW</b>						
For ETU45B and ETU76B Electronic Trip Units						
<b>3WL9111-0AT65-0AA0</b>						
				1	1 unit	1CA
<b>PROFINET IO / Modbus TCP retrofit kits</b> <b>NEW</b>						
Retrofit kit for PROFINET IO / Modbus TCP communication including COM35, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units						
<b>3WL9111-0AT66-0AA0</b>						
				1	1 unit	1CA
<b>PROFIBUS retrofit kits</b>						
Retrofit kit for PROFIBUS communications including COM15, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units						
<b>3WL9111-0AT12-0AA0</b>						
				1	1 unit	1CA
<b>COM15 PROFIBUS modules</b>						
For ETU45B and ETU76B Electronic Trip Units						
<b>3WL9111-0AT15-0AA0</b>						
				1	1 unit	1CA
 <p>NSE0_01025</p>						
<b>3WL9111-0AT15-0AA0</b>						
				1	1 unit	1CA
<b>COM16 Modbus RTU modules</b>						
For ETU45B and ETU76B Electronic Trip Units						
<b>3WL9111-0AT17-0AA0</b>						
				1	1 unit	1CA
<b>Modbus RTU IEC retrofit kit</b>						
Retrofit kit for Modbus communications including COM16, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units						
<b>3WL9111-0AT18-0AA0</b>						
				1	1 unit	1CA
<b>Additional parts for retrofitting the COM15/COM16/COM35 communication modules</b>						
In withdrawable version 3WL circuit breakers with Z options:						
<ul style="list-style-type: none"> <li>A05 (1000 V AC) or</li> <li>A15 (1150 V AC) or</li> <li>A16 (690 V + 20%)</li> </ul>						
Size						
I		<b>3WL9111-0AT62-0AA0</b>		1	1 unit	1CA
II/III		<b>3WL9111-0AT63-0AA0</b>		1	1 unit	1CA
<b>Breaker Status Sensor (BSS)</b>						
For ETU45B and ETU76B Electronic Trip Units						
<b>3WL9111-0AT16-0AA0</b>						
				1	1 unit	1CA
<b>Metering function <i>Plus</i><sup>2)</sup> for retrofitting</b> <b>NEW</b>						
<ul style="list-style-type: none"> <li>For ETUs Release 2</li> <li>Voltage transformer required</li> <li>Voltage converter required</li> </ul>						
<b>3WL9111-0AT05-0AA0</b>						
				1	1 unit	1CA

<sup>1)</sup> Is required for operation of the metering function *Plus*.

<sup>2)</sup> A measuring accuracy of 3% is reached if retrofitted.

<sup>3)</sup> All communication components, **CubicleBUS** modules and metering functions are available for the ETU45B and ETU76B Electronic Trip Units.

<sup>4)</sup> For retrofitting the COM15 or COM16 communication modules in withdrawable 3WL circuit breakers with Z options A05 (1000 V AC), A15 (1150 V AC) or A16 (690 V + 20%), the following additional assembly kits are required:  
3WL9111-0AT62-0AA0 for circuit breakers size I or  
3WL9111-0AT63-0AA0 for circuit breakers size II/III

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

Designation	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG																																				
<b>Capacitor storage devices</b>																																										
<b>Capacitor storage devices</b> <ul style="list-style-type: none"> <li>For shunt releases</li> <li>Storage time 5 min</li> </ul> <table border="1"> <tr> <td colspan="2">Rated control supply voltage/rated operational voltage</td> </tr> <tr> <td>50/60 Hz V AC</td> <td>V DC</td> </tr> <tr> <td>220 ... 240</td> <td>220 ... 250</td> </tr> </table> <p>Note</p> <ul style="list-style-type: none"> <li>Rated control supply voltage must match the rated control supply voltage of the shunt release.</li> <li>Suitable also for 3VL, 3VA and 3WN circuit breakers.</li> </ul>	Rated control supply voltage/rated operational voltage		50/60 Hz V AC	V DC	220 ... 240	220 ... 250		<b>3WL9111-0BA14-0AA0</b>		1	1 unit	1CA																														
Rated control supply voltage/rated operational voltage																																										
50/60 Hz V AC	V DC																																									
220 ... 240	220 ... 250																																									
<b>Retrofitting and spare parts</b> <span style="color: orange;">NEW</span>																																										
<b>Voltage converters</b> As spare part or for retrofitting the metering function Plus		<b>3WL9111-0AT06-0AA0</b>		1	1 unit	1CA																																				
<b>Components for conversion of the internal voltage tap</b> <ul style="list-style-type: none"> <li>Conversion requires 3 components for 3-pole 3WL</li> <li>Conversion requires 4 components for 4-pole 3WL</li> <li>From bottom to top</li> </ul> <table border="1"> <tr> <td colspan="2">Size</td> </tr> <tr> <td>I</td> <td><b>3WL9111-0AT71-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>II</td> <td><b>3WL9111-0AT72-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>III</td> <td><b>3WL9111-0AT73-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td colspan="2">From top to bottom</td> </tr> <tr> <td colspan="2">Size</td> </tr> <tr> <td>I</td> <td><b>3WL9111-0AT74-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>II</td> <td><b>3WL9111-0AT75-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>III</td> <td><b>3WL9111-0AT76-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> </table>	Size		I	<b>3WL9111-0AT71-0AA0</b>	1	1 unit	1CA	II	<b>3WL9111-0AT72-0AA0</b>	1	1 unit	1CA	III	<b>3WL9111-0AT73-0AA0</b>	1	1 unit	1CA	From top to bottom		Size		I	<b>3WL9111-0AT74-0AA0</b>	1	1 unit	1CA	II	<b>3WL9111-0AT75-0AA0</b>	1	1 unit	1CA	III	<b>3WL9111-0AT76-0AA0</b>	1	1 unit	1CA						
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III	<b>3WL9111-0AT76-0AA0</b>	1	1 unit	1CA																																						
<b>Transformer (without iron core), Rogowski coil only</b> Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B <ul style="list-style-type: none"> <li>External 24 V DC supply required</li> <li>Undervoltage release required</li> </ul> Comprises: <ul style="list-style-type: none"> <li>Transformer</li> <li>Warning signs</li> <li>Manual</li> </ul> <table border="1"> <tr> <td>Number of poles</td> <td>Size</td> </tr> <tr> <td rowspan="3">3-pole</td> <td>I</td> <td><b>3WL9111-0AA42-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>II</td> <td><b>3WL9111-0AA43-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>III</td> <td><b>3WL9111-0AA44-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td rowspan="3">4-pole</td> <td>I</td> <td><b>3WL9111-0AA45-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>II</td> <td><b>3WL9111-0AA46-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> <tr> <td>III</td> <td><b>3WL9111-0AA47-0AA0</b></td> <td>1</td> <td>1 unit</td> <td>1CA</td> </tr> </table>	Number of poles	Size	3-pole	I	<b>3WL9111-0AA42-0AA0</b>	1	1 unit	1CA	II	<b>3WL9111-0AA43-0AA0</b>	1	1 unit	1CA	III	<b>3WL9111-0AA44-0AA0</b>	1	1 unit	1CA	4-pole	I	<b>3WL9111-0AA45-0AA0</b>	1	1 unit	1CA	II	<b>3WL9111-0AA46-0AA0</b>	1	1 unit	1CA	III	<b>3WL9111-0AA47-0AA0</b>	1	1 unit	1CA								
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3-pole	I	<b>3WL9111-0AA42-0AA0</b>		1	1 unit	1CA																																				
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	III	<b>3WL9111-0AA47-0AA0</b>	1	1 unit	1CA																																					

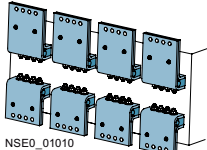
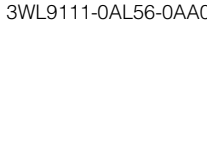
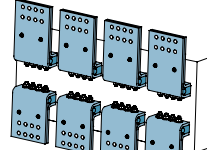
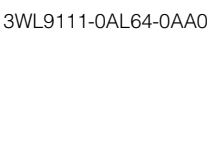
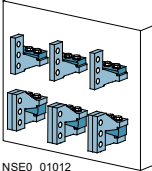


# Air Circuit Breakers

## 3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### Accessories and spare parts

1

Designation	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
<b>Main conductor connections, fixed-mounted versions (essential accessories)</b>							
Specified for each connection							
 NSE0_01010	<b>3WL9111-0AL06-0AA0 Front-accessible main connections, single hole at top<sup>1)</sup></b>						
	Size	Rated current $I_n$					
	I	Up to 1000 A 1250 A to 1600 A	<b>3WL9111-0AL01-0AA0</b> <b>3WL9111-0AL02-0AA0</b>		1 1	1 unit 1 unit	1CA 1CA
	II <sup>4)</sup>	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9111-0AL03-0AA0</b> <b>3WL9111-0AL04-0AA0</b> <b>3WL9111-0AL05-0AA0</b>		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	<b>3WL9111-0AL06-0AA0</b>		1	1 unit	1CA
 NSE0_01011	<b>3WL9111-0AL56-0AA0 Front-accessible main connections, single hole at bottom<sup>1)</sup></b>						
	Size	Rated current $I_n$					
	I	Up to 1000 A 1250 A to 1600 A	<b>3WL9111-0AL51-0AA0</b> <b>3WL9111-0AL52-0AA0</b>		1 1	1 unit 1 unit	1CA 1CA
	II <sup>4)</sup>	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9111-0AL53-0AA0</b> <b>3WL9111-0AL54-0AA0</b> <b>3WL9111-0AL55-0AA0</b>		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	<b>3WL9111-0AL56-0AA0</b>		1	1 unit	1CA
 NSE0_01011	<b>3WL9111-0AL14-0AA0 Front-accessible main connections according to DIN 43673, double hole at top</b>						
	Size	Rated current $I_n$					
	I	Up to 1000 A <sup>1)</sup> 1250 A to 2000 A	<b>3WL9111-0AL07-0AA0</b> <b>3WL9111-0AL08-0AA0</b>		1 1	1 unit 1 unit	1CA 1CA
	II <sup>4)</sup>	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9111-0AL11-0AA0</b> <b>3WL9111-0AL12-0AA0</b> <b>3WL9111-0AL13-0AA0</b>		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	<b>3WL9111-0AL14-0AA0</b>		1	1 unit	1CA
 NSE0_01011	<b>3WL9111-0AL64-0AA0 Front-accessible main connections according to DIN 43673, double hole at bottom</b>						
	Size	Rated current $I_n$					
	I	Up to 1000 A <sup>1)</sup> 1250 A to 2000 A	<b>3WL9111-0AL57-0AA0</b> <b>3WL9111-0AL58-0AA0</b>		1 1	1 unit 1 unit	1CA 1CA
	II <sup>4)</sup>	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9111-0AL61-0AA0</b> <b>3WL9111-0AL62-0AA0</b> <b>3WL9111-0AL63-0AA0</b>		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	<b>3WL9111-0AL64-0AA0</b>		1	1 unit	1CA
 NSE0_01012	<b>3WL9111-0AM03-0AA0 Rear vertical main connections</b>						
	Size	Rated current $I_n$					
	I <sup>2)</sup>	Up to 2000 A	<b>3WL9111-0AM01-0AA0</b>		1	1 unit	1CA
	II <sup>3)</sup>	Up to 3200 A	<b>3WL9111-0AM02-0AA0</b>		1	1 unit	1CA
	III	Up to 6300 A	<b>3WL9111-0AM03-0AA0</b>		1	1 unit	1CA

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

<sup>2)</sup> In the case of vertical connection size I with breaking capacity N and S, up to 1000 A one 3WL9111-0AM01-0AA0 vertical connection is required, up to 2000 A or with breaking capacity H two 3WL9111-0AM01-0AA0 vertical connections are required.

<sup>3)</sup> In the case of vertical connection size II, up to 2500 A one 3WL9111-0AM02-0AA0 vertical connection is required, up to 3200 A two 3WL9111-0AM02-0AA0 vertical connections are required.

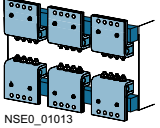
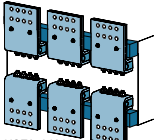
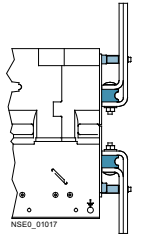

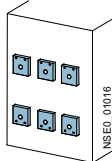
<sup>4)</sup> Not for circuit breakers with very high breaking capacity C.

# Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

## Accessories and spare parts

1

Designation	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Main conductor connections, withdrawable versions (essential accessories)</b>						
Specified for each connection						
<b>Front-accessible main connections, single hole at top or at bottom<sup>1) 2)</sup></b>						
 NSE0_01013 3WL9111-0AN06-0AA0	Size	Rated current $I_n$				
	I	Up to 1000 A 1250 A to 1600 A	<b>3WL9111-0AN01-0AA0</b> <b>3WL9111-0AN02-0AA0</b>	1 1	1 unit 1 unit	1CA 1CA
	II <sup>3)</sup>	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9111-0AN03-0AA0</b> <b>3WL9111-0AN04-0AA0</b> <b>3WL9111-0AN05-0AA0</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	<b>3WL9111-0AN06-0AA0</b>	1	1 unit	1CA
<b>Front-accessible main connections according to DIN 43673, double hole at top or at bottom<sup>1)</sup></b>						
 NSE0_01014 3WL9111-0AN14-0AA0	Size	Rated current $I_n$				
	I	Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9111-0AN07-0AA0</b> <b>3WL9111-0AN08-0AA0</b>	1 1	1 unit 1 unit	1CA 1CA
	II <sup>3)</sup>	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9111-0AN11-0AA0</b> <b>3WL9111-0AN12-0AA0</b> <b>3WL9111-0AN13-0AA0</b>	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	<b>3WL9111-0AN14-0AA0</b>	1	1 unit	1CA
<b>Supports for front and DIN connecting bars</b>						
 NSE0_01017 3WL9111-0AN41-0AA0	Number of poles	Size				
	3-pole for 3 bars	I	<b>3WL9111-0AN41-0AA0</b>	1	1 unit	1CA
		II	<b>3WL9111-0AN42-0AA0</b>	1	1 unit	1CA
		III	<b>3WL9111-0AN43-0AA0</b>	1	1 unit	1CA
	4-pole for 4 bars	I	<b>3WL9111-0AN44-0AA0</b>	1	1 unit	1CA
		II	<b>3WL9111-0AN45-0AA0</b>	1	1 unit	1CA
		III	<b>3WL9111-0AN46-0AA0</b>	1	1 unit	1CA
<b>Rear vertical main connections</b>						
 NSE0_01015 3WL9111-0AN23-0AA0	Size	Rated current $I_n$				
	I	Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9111-0AN15-0AA0</b> <b>3WL9111-0AN16-0AA0</b>	1 1	1 unit 1 unit	1CA 1CA
	II	Up to 2000 A <sup>3)</sup> Up to 2500 A <sup>3)</sup> Up to 3200 A <sup>3)</sup> 1600 ... 3200 A <sup>4)</sup>	<b>3WL9111-0AN17-0AA0</b> <b>3WL9111-0AN18-0AA0</b> <b>3WL9111-0AN21-0AA0</b> <b>3WL9111-0AN38-0AA0</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	III	Up to 5000 A	<b>3WL9111-0AN22-0AA0</b>	1	1 unit	1CA
		Up to 6300 A, 3 busbar connection pieces for 3-pole circuit breakers	<b>3WL9111-0AN23-0AA0</b>	1	1 unit	1CA
		Up to 6300 A, at top, 4 busbar connection pieces for 4-pole circuit breakers	<b>3WL9111-0AN20-0AA0</b>	1	1 unit	1CA
		Up to 6300 A, at bottom, 4 busbar connection pieces for 4-pole circuit breakers	<b>3WL9111-0AN10-0AA0</b>	1	1 unit	1CA
<b>Rear horizontal main connections</b>						
	Size	Rated current $I_n$				
	I	Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9111-0AN32-0AA0</b> <b>3WL9111-0AN33-0AA0</b>	1 1	1 unit 1 unit	1CA 1CA
	II	Up to 2000 A <sup>3)</sup>	<b>3WL9111-0AN34-0AA0</b>	1	1 unit	1CA
		Up to 2500 A <sup>3)</sup>	<b>3WL9111-0AN35-0AA0</b>	1	1 unit	1CA
		Up to 3200 A <sup>3)</sup>	<b>3WL9111-0AN36-0AA0</b>	1	1 unit	1CA
		1600 ... 3200 A <sup>4)</sup>	<b>3WL9111-0AN47-0AA0</b>	1	1 unit	1CA
	III	Up to 5000 A	<b>3WL9111-0AN37-0AA0</b>	1	1 unit	1CA
<b>Connecting flange</b>						
 NSE0_01016 3WL9111-0AN24-0AA0	Size	Rated current $I_n$				
	I	Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9111-0AN24-0AA0</b> <b>3WL9111-0AN25-0AA0</b>	1 1	1 unit 1 unit	1CA 1CA
	II <sup>3)</sup>	Up to 2000 A	<b>3WL9111-0AN26-0AA0</b>	1	1 unit	1CA
		Up to 2500 A	<b>3WL9111-0AN27-0AA0</b>	1	1 unit	1CA
		Up to 3200 A	<b>3WL9111-0AN28-0AA0</b>	1	1 unit	1CA
	III	Up to 4000 A	<b>3WL9111-0AN31-0AA0</b>	1	1 unit	1CA

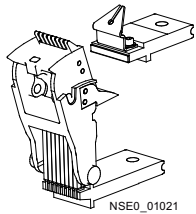
<sup>1)</sup> When using front-accessible main connections (withdrawable circuit breakers) supports are required.

<sup>2)</sup> Not for 3WL1 size I with high breaking capacity H.

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

<sup>4)</sup> Only for circuit breakers with very high breaking capacity C.

Designation	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Conversion sets</b>						
<b>Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers<sup>1)</sup></b> Guide frames and sliding contact modules must be ordered separately.						
Number of poles	Size					
3-pole	I	<b>3WL9111-0BC11-0AA0</b>		1	1 unit	1CA
	II	<b>3WL9111-0BC12-0AA0</b>		1	1 unit	1CA
	III	<b>3WL9111-0BC13-0AA0</b>		1	1 unit	1CA
4-pole	I	<b>3WL9111-0BC14-0AA0</b>		1	1 unit	1CA
	II	<b>3WL9111-0BC15-0AA0</b>		1	1 unit	1CA
	III	<b>3WL9111-0BC16-0AA0</b>		1	1 unit	1CA
<b>Main contact elements</b>						
<b>Main contact elements<sup>2)4)</sup></b>						
Size	$I_{n\ max}$					
I	Up to 1600 A	<b>3WL9111-0AM90 L1Y<sup>3)</sup></b>		1	1 unit	1CA
II	Up to 2500 A	<b>3WL9111-0AM91 L1Y<sup>3)</sup></b>		1	1 unit	1CA
II	Up to 4000 A	<b>3WL9111-0AM92 L1Y<sup>3)</sup></b>		1	1 unit	1CA
III	Up to 6300 A	<b>3WL9111-0AM93 L1Y<sup>3)</sup></b>		1	1 unit	1CA
Notes						
<ul style="list-style-type: none"> <li>The circuit breaker ID No. must be specified when ordering</li> <li>Specified for each connection (depending on the number of poles on the circuit breaker, order 3 or 4 units)</li> <li>Article No. is automatically adapted to the circuit breaker ID No.</li> </ul>						



- 1) Conversion from fixed-mounted to withdrawable is not possible for 3WL1 circuit breakers with very high breaking capacity C.
- 2) Not for circuit breakers with very high breaking capacity C.
- 3) Please specify the circuit breaker ID No. in plain text when ordering.
- 4) Replacement of the main contact elements for 3WL1 circuit breakers with very high breaking capacity C is only possible at the factory.

## Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers  
up to 6300 A (AC), IEC

### Accessories and spare parts

1

#### Options

##### Structure of the article number

Example			3WL1	2	2	0	-	4	N	G	6	1	-	1	F	A	2	
5th digit:	Size	Size II		2														
6th and 7th digit:	Max. rated circuit breaker current $I_{n\ max}$	$I_{n\ max} = 2000\ A$		2	0													
8th digit:	Breaking capacity class	High breaking capacity "H": 100 kA				4												
9th digit:	Electronic Trip Units	ETU76B with graphics display ...						N										
10th digit:	Electronic Trip Unit supplement	... with ground-fault protection							G									
11th digit:	Number of poles	Three-pole									6							
12th digit:	Installation type	Fixed-mounted, main connections on rear, vertical										1						
13th digit:	Operating mechanisms	Manual operating mechanism with mechanical closing											1					
14th digit:	1st auxiliary release	Shunt release 50/60 Hz 110 V AC													F			
15th digit:	2nd auxiliary release	Without 2nd auxiliary release														A		
16th digit:	Auxiliary switches	2 NO contacts + 2 NC contacts															2	

An important prerequisite for electronic order processing is that article numbers must be structured according to standardized criteria.

They are used as an unambiguous means of communication for various purposes:

- Offer processing
- Selection and configuration
- Order processing
- Orders
- Order confirmation
- Processing of products for storage
- Order processing in supply locations
- Supply and dispatch
- Reporting and planning
- Service and warranty

The standardized structure ensures that only one article number has to be administered for one device.

This saves time and effort during planning, configuring, ordering and in stock keeping, and consequently above all it saves costs.

The example opposite explains the various positions within an article number.

##### Accessories: With first order (components are already mounted)

Example			3WL1	2	1	6	-	4	F	G	6	1	-	1	F	A	6	-	Z	F	0	2
"-Z" with order code	Communications interface "Standard" + Breaker Status Sensor (BSS) + COM15 communication module for connection to PROFIBUS DP																		Z	F	0	2

Additional accessory components can be ordered ready-mounted.

These supplements are identified by "-Z".

Even with additional components, one article number is sufficient.

##### Accessories: For retrofitting (components for subsequent fitting)

Example			3WL9	1	1	1	-	0	B	A	2	1	-	0	A	A	0
Interlocking set for mechanical ON/OFF without lock																	

Additional accessories which are not intended to be ready-mounted in the factory, such as spare parts for storage, can also be ordered separately from the circuit breaker.

Accessories for retrofitting are identified by the article number stem 3WL9.

#### Documentation

<b>Operating manual</b> Complete set	German/English	Article No.	<b>3ZX1812-0WL00-0AN4</b>
	French/Italian	Article No.	<b>3ZX1812-0WL00-0AJ3</b>
	Spanish/Portuguese	Article No.	<b>3ZX1812-0WL00-0AL3</b>
<b>PROFIBUS manual</b> <b>Communication</b>	German	Article No.	<b>A5E01051347</b>
	English	Article No.	<b>A5E01051353</b>
<b>MODBUS manual</b> <b>Communication</b>	German	Article No.	<b>3ZX1012-0WL10-1AB1</b>
	English	Article No.	<b>3ZX1012-0WL10-1AC1</b>
<b>COM35 manual</b> <b>Communication</b>	German	Article No.	<b>3ZW1012-0VA27-1AB1</b>
	English	Article No.	<b>3ZW1012-0VA27-1AC1</b>

Free download of documentation from  
[www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

#### More information

Up-to-date information on the Internet at:  
[www.siemens.com/sentron](http://www.siemens.com/sentron)

### Technical specifications

Size	I		II	
Type	3WL11 20	3WL12 10	3WL12 20	3WL12 40
<b>Rated current <math>I_n</math> at 40 °C</b>				
Main conductor	A 2000	... 1000	2000	4000
<b>Rated operational voltage <math>U_e</math></b> (for 1000 V version, see "-Z" option and order code "A05", page 1/52)	V DC 1000	... 600/1000	... 600/1000	... 600/1000
<b>Rated insulation voltage <math>U_i</math></b>	V DC 1000	1000	1000	1000
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>				
• Main conducting paths	kV 12	12	12	12
• Auxiliary circuits	kV 4	4	4	4
• Control circuits	kV 2.5	2.5	2.5	2.5
<b>Isolating function acc. to EN 60947-2</b>	Yes	Yes	Yes	Yes
<b>Utilization category</b>	B			
<b>Permissible ambient temperature</b>				
• Operation	°C -40/+70	-40/+70	-40/+70	-40/+70
• Storage	°C -40/+80	-40/+80	-40/+80	-40/+80
<b>Permissible load</b>				
Up to 40 °C	A 2000	1000	2000	4000
At rear horizontal main circuit connections	A 1910	1000	2000	3640
Up to 55 °C	A 1850	1000	2000	3500
Up to 60 °C	A 1710	1000	1950	3250
Up to 70 °C (Cu painted black)				
<b>Power loss at <math>I_n</math> for symmetrical loads</b>				
Withdrawable circuit breakers	W 150	280	770	1640
<b>Switching times</b>				
• Make time	ms 35	35	35	35
• Opening time	ms 38	34	34	34
• Electrical make time (through activation solenoid) <sup>1)</sup>	ms 100	100	100	100
• Electrical opening time (through shunt release)	ms 73	73	73	73
• Electrical opening time (instantaneous undervoltage release)	ms 73	73	73	73
<b>Service life<sup>3)</sup></b>				
• Mechanical (without maintenance)	Operating cycles 10 000	10 000	10 000	10 000
• Mechanical (with maintenance) <sup>2)</sup>	Operating cycles 15 000	17 500	17 500	17 500
• Electrical (without maintenance)	Operating cycles 1 000	6 000	6 000	4 000
• 1000 V version	Operating cycles 1 000	1 000	1 000	1 000
• Electrical (with maintenance) <sup>2)</sup>	Operating cycles 2 000	17 500	17 500	17 500
<b>Switching frequency</b>				
• 600 V version	1/h --	60	60	60
• 1000 V version	1/h 20	20	20	20
<b>Mounting position</b>				
<b>Degree of protection</b>	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover			
<b>Auxiliary conductors (Cu)</b>	Standard connection = strain-relief clamp			
Max. number	• Without end sleeve			
Auxiliary conductors x cross-section (solid/stranded)	• With end sleeve acc. to DIN 46228 Part 2			
	• With twin end sleeve			
	Optional connection = tension spring			
	• Without end sleeve			
	• With end sleeve acc. to DIN 46228 Part 2			
	2 × 0.5 mm <sup>2</sup> (AWG 20) ... 2 × 1.5 mm <sup>2</sup> (AWG 16); 1 × 2.5 mm <sup>2</sup> (AWG 14)			
	1 × 0.5 mm <sup>2</sup> (AWG 20) ... 1 × 1.5 mm <sup>2</sup> (AWG 16)			
	2 × 0.5 mm <sup>2</sup> (AWG 20) ... 2 × 1.5 mm <sup>2</sup> (AWG 16)			
	2 × 0.5 mm <sup>2</sup> (AWG 20) ... 2 × 2.5 mm <sup>2</sup> (AWG 14)			
	2 × 0.5 mm <sup>2</sup> (AWG 20) ... 2 × 1.5 mm <sup>2</sup> (AWG 16)			
<b>Weights</b>				
3-pole				
• Fixed-mounted circuit breakers	kg 43	56	56	64
• Withdrawable circuit breakers	kg --	60	60	68
• Guide frames	kg --	31	31	45
4-pole				
• Fixed-mounted circuit breakers	kg 50	67	67	77
• Withdrawable circuit breakers	kg --	72	72	82
• Guide frames	kg --	37	37	54

<sup>1)</sup> Make time through activation solenoid for synchronization purposes (short-time excited) 50 ms.

<sup>2)</sup> Maintenance means: Replace main contact elements and arc chutes (see Operating Manual).

<sup>3)</sup> Further technical specifications on request.

## Air Circuit Breakers

3WL11-13 Non-Automatic Air Circuit Breakers  
up to 4000 A (DC), IEC

### General data

#### Breaking capacity

Size	I	DC	II	DC
Type	3WL11		3WL12	
Breaking capacity	DC		DC	
<b>Short-circuit breaking capacity</b>				
Up to 220 V DC $I_{cc}$	kA	20	35	
Up to 300 V DC $I_{cc}$	kA	20	30	
Up to 600 V DC $I_{cc}$	kA	20	25	
Up to 1000 V DC $I_{cc}$	kA	20	20	
<b>Rated short-time withstand current</b>				
$I_{cw}$				
0.5 s	kA	--	--	
1 s	kA	20	$35^1/30^2/25^3/20^4$	
2 s	kA	--	--	
3 s	kA	--	--	

- N Circuit breakers with ECO breaking capacity N
- S Circuit breakers with standard breaking capacity S
- H Circuit breakers with high breaking capacity H
- C Circuit breakers with very high breaking capacity C
- DC Non-automatic air circuit breakers with DC breaking capacity

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

#### Note:


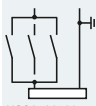

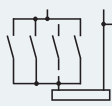
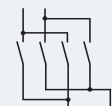


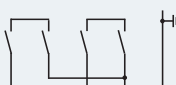

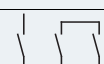
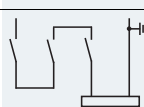

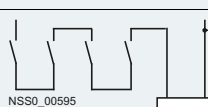
- For further technical specifications, see the Configuration Manual "Air Circuit Breakers" ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

- 1) At  $U_e = 220$  V DC
- 2) At  $U_e = 300$  V DC
- 3) At  $U_e = 600$  V DC
- 4) At  $U_e = 1000$  V DC

Abbreviations* (functions)	English long text	Explanation
L	Long Time Delay	Overload protection
S	Short Time Delay	Short-circuit protection (short-time delayed)
I	Instantaneous	Short-circuit protection (instantaneous)
N	Neutral Protection	Neutral conductor protection
G	Ground Fault	Ground-fault protection

\* Designations according to IEC 60947-2, Annex K.

### Application examples size II – non-automatic air circuit breakers for DC

Rated operational voltage	Required series-connected contact gaps at rated voltage	For 3-pole non-automatic air circuit breakers (operational currents up to 4000 A/ conducting path)	For 4-pole non-automatic air circuit breakers (operational currents up to 4000 A/ conducting path)
Up to 300 V + 10%		 NSS0_00539 1-pole, 2 parallel conducting paths, only with grounded system	 2-pole  1-pole, 3 parallel conducting paths, only with grounded system  2-pole 2 parallel conducting paths
Over 300 V + 10% Up to 600 V + 10%		 2-pole, only with grounded system	 1-pole, 2 parallel conducting paths, only with grounded system  2-pole
Over 600 V + 10% Up to 1000 V + 10% (version for 1000 V required, order with "-Z" and code A05)		 1-pole, only with grounded system	 2-pole, only with grounded system  1-pole, only with grounded system NSS0_00595

Connection to the circuit breakers is independent of the direction and polarity; the circuit diagrams can be converted analogously. If the parallel or series connections are established directly to the connecting bars, for thermal reasons the circuit breakers may only be subjected continuously to 80% of the permissible operational current. If the parallel or series connection is made at a distance of 1 m from the connecting bars, the circuit breaker can be used at full operational current load.

—||— grounded system

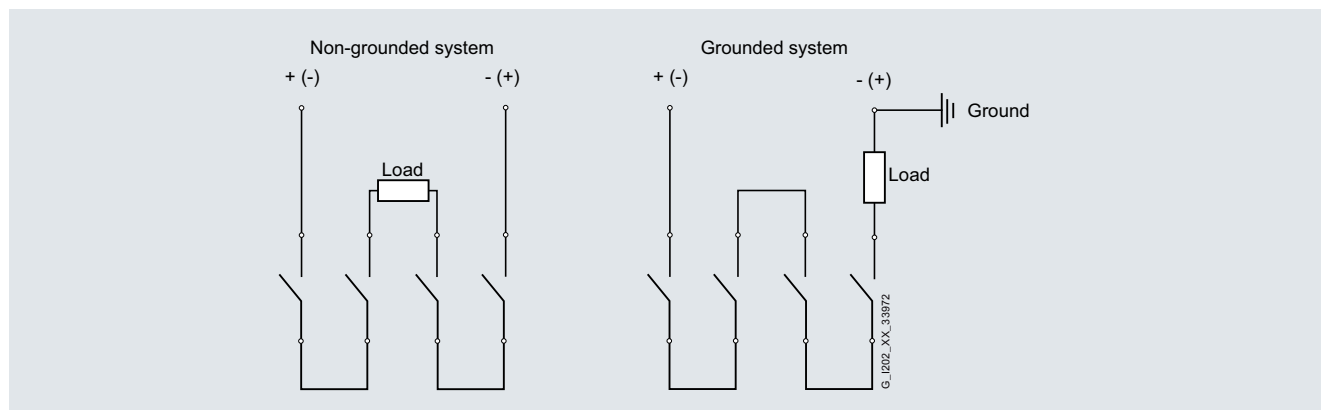
□ load

### Application examples size I – non-automatic air circuit breakers for DC

Permissible interconnections

Circuit diagrams for size I

1000 V DC non-automatic air circuit breakers



### More information

Up-to-date information on the Internet at:

[www.siemens.com/sentron](http://www.siemens.com/sentron)

Minimum order quantity (PS) or a multiple thereof can be ordered.



## Air Circuit Breakers

3WL11-13 Non-Automatic Air Circuit Breakers  
up to 4000 A (DC), IEC

### 3 and 4-pole, fixed-mounted versions

1

#### Selection and ordering data

For general data, see page 1/8.

Size	Max. rated circuit breaker current $I_{n \max}$	SD	3-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS	PG
A	d		Article No.: <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU			
<b>Horizontal main circuit connection</b>							
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□62-□□□□ 3WL1220-8□□62-□□□□ 3WL1240-8□□62-□□□□		1	1 unit	1CA
<b>Vertical main circuit connection</b>							
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□61-□□□□ 3WL1220-8□□61-□□□□ 3WL1240-8□□61-□□□□		1	1 unit	1CA
<b>Front main circuit connection, single hole</b>							
II	1000 2000		3WL1210-8□□63-□□□□ 3WL1220-8□□63-□□□□		1	1 unit	1CA
<b>Front main circuit connection, double hole</b>							
II	1000 2000		3WL1210-8□□64-□□□□ 3WL1220-8□□64-□□□□		1	1 unit	1CA
<b>Options</b>							
<b>Non-automatic air circuit breakers<sup>2)</sup></b>		Without Electronic Trip Units	AA		Additional price		
<b>Operating mechanisms</b>		Manual operating mechanism with mechanical closing	1AA2		None		
		For further Article No. supplements, see page 1/51			None		
Size	Max. rated circuit breaker current $I_{n \max}$	SD	4-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS	PG
A	d		Article No.: <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU			
<b>Horizontal main circuit connection</b>							
I <sup>3)</sup>	2000		3WL1120-8□□72-□□□□		1	1 unit	1CA
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□72-□□□□ 3WL1220-8□□72-□□□□ 3WL1240-8□□72-□□□□		1	1 unit	1CA
<b>Vertical main circuit connection</b>							
I <sup>3)</sup>	2000		3WL1120-8□□71-□□□□		1	1 unit	1CA
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□71-□□□□ 3WL1220-8□□71-□□□□ 3WL1240-8□□71-□□□□		1	1 unit	1CA
<b>Front main circuit connection, single hole</b>							
II	1000 2000		3WL1210-8□□73-□□□□ 3WL1220-8□□73-□□□□		1	1 unit	1CA
<b>Front main circuit connection, double hole</b>							
II	1000 2000		3WL1210-8□□74-□□□□ 3WL1220-8□□74-□□□□		1	1 unit	1CA
<b>Options</b>							
<b>Non-automatic air circuit breakers<sup>2)</sup></b>		Without Electronic Trip Units	AA		Additional price		
<b>Operating mechanisms</b>		Manual operating mechanism with mechanical closing	1AA2		None		
		For further Article No. supplements, see page 1/51			None		
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL12.0-8.....-Z		Additional price		
			□ □ □		3-pole	4-pole	
Condition	Size	Rated current $I_n$					
Rated voltage 1000 V DC	II	Up to 2000 A	A 0 5		✓	✓	
		Up to 4000 A	A 0 5		✓	✓	
<b>Note</b>							

For voltages over 600 V use the version for 1000 V DC rated voltage for size II: Order with "-Z" and order code "A05".  
All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/ Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/52.  
An external overload and short-circuit protection device is available from the company "mat" for the 3WL1 non-automatic air circuit breakers. Available only directly from the company "mat" – Maschinen- und Anlagentechnik (for the address, see page 1/88).

<sup>1)</sup> Provisions to dissipate heat must be made on the line side.

<sup>2)</sup> For permissible rated short-time current  $I_{cw}$  and short-circuit breaking capacity  $I_{cc}$  for non-automatic air circuit breakers, see page 1/13.

<sup>3)</sup> 3WL1120-8 DC non-automatic air circuit breakers are designed for a rated voltage of 1000 V DC.

# Air Circuit Breakers

## 3WL11-13 Non-Automatic Air Circuit Breakers up to 4000 A (DC), IEC

3 and 4-pole, withdrawable versions

1

**Selection and ordering data**

Size	Max. rated circuit breaker current $I_n$ max	SD	<b>3-pole non-automatic air circuit breakers</b>	Price per PU	PU (UNIT, SET, M)	PS	PG	
A		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>					
<b>Without guide frames (for guide frames, see page 1/89)</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL1210-8□□65-□□□□</b> <b>3WL1220-8□□65-□□□□</b> <b>3WL1240-8□□65-□□□□</b>		1	1 unit	1CA	
<b>With guide frames, horizontal main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL1210-8□□66-□□□□</b> <b>3WL1220-8□□66-□□□□</b> <b>3WL1240-8□□66-□□□□</b>		1	1 unit	1CA	
<b>With guide frames, vertical main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL1210-8□□67-□□□□</b> <b>3WL1220-8□□67-□□□□</b> <b>3WL1240-8□□67-□□□□</b>		1	1 unit	1CA	
<b>With guide frames, connecting flanges</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL1210-8□□68-□□□□</b> <b>3WL1220-8□□68-□□□□</b> <b>3WL1240-8□□68-□□□□</b>		1	1 unit	1CA	
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units		AA		Additional price			<b>None</b>
<b>Operating mechanisms</b>	Manual operating mechanism with mechanical closing		1AA2					<b>None</b>
	For further Article No. supplements, see page 1/51							
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			<b>3WL12.0-8..3.-.....Z</b> □ □ □					Additional price 3-pole
Condition	Size	Rated current $I_n$						
Rated voltage 1000 V DC	II <sup>4)</sup>	Up to 2000 A	A 0 5					✓
		Up to 4000 A	A 0 5					✓
Tinned version of the customer's connections on the guide frame <sup>3)</sup> . Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.	II		A 0 8					✓

**Note**

For voltages over 600 V use the version for 1000 V DC rated voltage: Order with "-Z" and order code "A05".

All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/52.

An external overload and short-circuit protection device is available from the company "mat" for the 3WL1 non-automatic air circuit breakers.

Available only directly from the company "mat" – Maschinen- und Anlagentechnik (for the address, see page 1/88).

- 1) Provisions to dissipate heat must be made on the line side.
- 2) For permissible rated short-time current  $I_{cw}$  and short-circuit breaking capacity  $I_{cc}$  for non-automatic air circuit breakers, see page 1/13.
- 3) The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.
- 4) When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

# Air Circuit Breakers

3WL11-13 Non-Automatic Air Circuit Breakers  
up to 4000 A (DC), IEC

3 and 4-pole, withdrawable versions

1

## Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	SD	4-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS	PG
A	d		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU			
<b>Without guide frames (for guide frames, see page 1/89)</b>							
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□75-□□□□ 3WL1220-8□□75-□□□□ 3WL1240-8□□75-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, horizontal main circuit connection</b>							
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□76-□□□□ 3WL1220-8□□76-□□□□ 3WL1240-8□□76-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, vertical main circuit connection</b>							
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□77-□□□□ 3WL1220-8□□77-□□□□ 3WL1240-8□□77-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>With guide frames, connecting flanges</b>							
II	1000 2000 4000 <sup>1)</sup>		3WL1210-8□□78-□□□□ 3WL1220-8□□78-□□□□ 3WL1240-8□□78-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
<b>Options</b>							
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	Without Electronic Trip Units		AA				Additional price <b>None</b>
<b>Operating mechanisms</b>	Manual operating mechanism with mechanical closing		1AA2				<b>None</b>
	For further Article No. supplements, see page 1/51						
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL12.0-8..4.-....-Z □ □ □				Additional price 4-pole
Condition	Size	Rated current $I_n$					
Rated voltage 1000 V DC	II <sup>4)</sup>	Up to 2000 A	A 0 5				✓
		Up to 4000 A	A 0 5				✓
Tinned version of the customer's connections on the guide frame <sup>3)</sup> . Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.	II		A 0 8				✓

### Note

For voltages over 600 V use the version for 1000 V DC rated voltage: Order with "-Z" and order code "A05".

All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/52.

An external overload and short-circuit protection device is available from the company "mat" for the 3WL1 non-automatic air circuit breakers.

Available only directly from the company "mat" – Maschinen- und Anlagentechnik<sup>5)</sup>.

- Provisions to dissipate heat must be made on the line side.
- For permissible rated short-time current  $I_{cw}$  and short-circuit breaking capacity  $I_{cc}$  for non-automatic air circuit breakers, see page 1/13.
- The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.
- When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

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### Selection and ordering data

#### Guide frames for DC non-automatic air circuit breakers

Size	Max. rated circuit breaker current $I_{n\ max}$	SD	Guide frames for 3-pole non-automatic air circuit breakers Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
<b>Front main circuit connection, single hole</b>							
II	2000		<b>3WL9212-3HA□□-□□A1</b>		1	1 unit	1CA
<b>Front main circuit connection, double hole</b>							
II	2000		<b>3WL9212-3HB□□-□□A1</b>		1	1 unit	1CA
<b>Horizontal main circuit connection</b>							
II	2000		<b>3WL9212-3HC□□-□□A1</b>		1	1 unit	1CA
	4000		<b>3WL9212-6HC□□-□□A1</b>		1	1 unit	1CA
<b>Vertical main circuit connection</b>							
II	2000		<b>3WL9212-3HD□□-□□A1</b>		1	1 unit	1CA
	4000		<b>3WL9212-6HD□□-□□A1</b>		1	1 unit	1CA
<b>Main circuit connection connecting flanges</b>							
II	2000		<b>3WL9212-3HE□□-□□A1</b>		1	1 unit	1CA
	4000		<b>3WL9212-6HE□□-□□A1</b>		1	1 unit	1CA
<b>Options</b>							
<b>Number of auxiliary supply con-</b>	None		<b>0</b>				Additional price 3-pole
	1 connector		<b>1</b>				None
	2 connectors		<b>2</b>				✓
	3 connectors		<b>3</b>				✓
	4 connectors		<b>4</b>				✓
Note							
For table for required number of auxiliary supply connectors, see page 1/59.							
<b>Type of auxiliary circuit connections</b>	None <sup>2)</sup>		<b>0</b>				None
	With screw connection (SIGUT, standard)		<b>1</b>				✓
	With screwless connection method (tension spring)		<b>2</b>				✓
<b>Position signaling switches</b>	None		<b>0</b>				None
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO		<b>1</b>				✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		<b>2</b>				✓
<b>Shutters</b>	None		<b>A</b>				None
	With shutter, 2-part, lockable		<b>B</b>				✓
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).					<b>3WL9212-.....-..A1-Z</b> □ □ □		Additional price
<b>Rated voltage 1000 V DC</b>							
Size II					<b>A 0 5</b>		✓
<b>Tinned version of the customer's connections on the guide frame<sup>1)</sup>. Only for guide frames with horizontal connection or flange connection</b>							
Size II					<b>A 0 8</b>		✓
Notes							
<ul style="list-style-type: none"> <li>For guide frames for 4-pole DC non-automatic air circuit breakers, see the following page.</li> <li>All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/52.</li> </ul>							

<sup>1)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

<sup>2)</sup> Can only be selected if the number of auxiliary supply connectors = 0.

## Air Circuit Breakers

3WL11-13 Non-Automatic Air Circuit Breakers  
up to 4000 A (DC), IEC

### Accessories and spare parts

Size	Max. rated circuit breaker current $I_{n \max}$	SD	Guide frames for 4-pole non-automatic air circuit breakers	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>				
<b>Front main circuit connection, single hole</b>							
II	2000		<b>3WL9212-3JA□□-□□A1</b>		1	1 unit	1CA
<b>Front main circuit connection, double hole</b>							
II	2000		<b>3WL9212-3JB□□-□□A1</b>		1	1 unit	1CA
<b>Horizontal main circuit connection</b>							
II	2000		<b>3WL9212-3JC□□-□□A1</b>		1	1 unit	1CA
II	4000		<b>3WL9212-6JC□□-□□A1</b>		1	1 unit	1CA
<b>Vertical main circuit connection</b>							
II	2000		<b>3WL9212-3JD□□-□□A1</b>		1	1 unit	1CA
II	4000		<b>3WL9212-6JD□□-□□A1</b>		1	1 unit	1CA
<b>Main circuit connection connecting flanges</b>							
II	2000		<b>3WL9212-3JE□□-□□A1</b>		1	1 unit	1CA
II	4000		<b>3WL9212-6JE□□-□□A1</b>		1	1 unit	1CA
<b>Options</b>							
<b>Number of auxiliary supply connectors</b>	None		<b>0</b>				<b>None</b>
	1 connector		<b>1</b>				✓
	2 connectors		<b>2</b>				✓
	3 connectors		<b>3</b>				✓
	4 connectors		<b>4</b>				✓
Note							
For required number of auxiliary supply connectors, see table see page 1/59.							
<b>Type of auxiliary circuit connections</b>	None <sup>2)</sup>		<b>0</b>				<b>None</b>
	With screw connection (SIGUT, standard)		<b>1</b>				✓
	With screwless connection method (tension spring)		<b>2</b>				✓
<b>Position signaling switches</b>	None		<b>0</b>				<b>None</b>
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO		<b>1</b>				✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		<b>2</b>				✓
<b>Shutters</b>	None		<b>A</b>				<b>None</b>
	With shutter, 2-part, lockable		<b>B</b>				✓
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).					<b>3WL9212-.....A1-Z</b> □ □ □		Additional price
<b>Rated voltage 1000 V DC</b>							
Size II					<b>A 0 5</b>		✓
<b>Tinned version of the customer's connections on the guide frame<sup>1)</sup>. Only for guide frames with horizontal connection or flange connection</b>							
Size II					<b>A 0 8</b>		✓
Notes							
<ul style="list-style-type: none"> <li>For guide frames for 3-pole DC non-automatic air circuit breakers, see previous page.</li> <li>All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/52.</li> </ul>							

<sup>1)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

<sup>2)</sup> Can only be selected if the number of auxiliary supply connectors = 0.

## 1. General standards

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

### 1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany"<sup>1)</sup> and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"<sup>1)</sup> and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup>.  
In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup>, the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

### 1.2 For customers with a seat or registered office outside of Germany

For customers with a seat or registered office outside of Germany, the following shall be subordinate to these CSD

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"<sup>1)</sup> (only available in English) and
- for services, the "International Terms & Conditions for Services"<sup>1)</sup> supplemented by the "Software Licensing Conditions"<sup>1)</sup> and
- for the supply of other hardware and software the "International Terms & Conditions for Products"<sup>1)</sup> supplemented by the "Software Licensing Conditions"<sup>1)</sup>.

### 1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

## 2. Prices

The prices are in € (euros) ex works, excluding packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: [www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

## 3. Additional terms and conditions

All dimensions are in mm. In Germany, according to the German law on units in metrology, data in inches only apply to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the corresponding pages of this catalog - especially with regard to data, dimensions and weights given - these are subject to change without prior notice.

<sup>1)</sup> You can download the text of the Siemens AG terms and conditions of trade at [www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

## Appendix

### Conditions of sale and delivery

#### 4. Export regulations

We shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions.

Exporting may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists.

Our products are controlled by the U.S. authorities (goods labeled with "ECCN" not equal to "N") and may only be supplied to the stated country of the end user for sole use by the end user. Without U.S. government approval or other approval under U.S. law, the products may not be sold, transferred or otherwise forwarded to other countries or to other persons other than the specified end user, either in their original form or after further processing into other goods. Goods labeled with an "AL" not equal to "N" are subject European/national export authorization requirements.

Please note that you can also preview the export designations in the respective product description via our "Industry Mall" online catalog system. The deciding factors, however, are the AL or ECCN export designations indicated on order confirmations, delivery notes and invoices.

Unmarked items or items marked "AL:N" / "ECCN:N" or "AL:9X9999" / "ECCN: 9X9999" may require authorization based on their intended use or ultimate destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-) export control regulations.

If required to conduct export control checks, you, at our request, shall promptly provide us with all information pertaining to particular end customers, destination and intended use of goods, works and services provided by us, as well as any relevant export control restrictions.

The products listed in this catalog may be subject to European/German and/or US export regulations. Therefore, any export requiring a license is subject to approval by the competent authorities.

Errors excepted and subject to change without prior notice.



Further information can be obtained from our branch offices listed at [www.siemens.com/lowvoltage/contact](http://www.siemens.com/lowvoltage/contact)

<b>Interactive Catalog</b>	<i>Catalog</i>	<b>Process Instrumentation and Analytics</b>	<i>Catalog</i>
Products for Automation and Drives	<b>CA 01</b>	<i>Digital: Field Instruments for Process Automation</i>	FI 01
<b>Building Control</b>		<i>Digital: Display Recorders SIREC D</i>	MP 20
GAMMA Building Control	ET G1	<i>Digital: SIPART Controllers and Software</i>	MP 31
<b>Drive Systems</b>		Products for Weighing Technology	WT 10
SINAMICS G130 Drive Converter Chassis Units	D 11	<i>Digital: Process Analytical Instruments</i>	AP 01
SINAMICS G150 Drive Converter Cabinet Units		<i>Digital: Process Analytics, Components for Continuous Emission Monitoring</i>	AP 11
<i>Digital: SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives (Germany Edition)</i>	D 15.1	<b>Low-Voltage Power Distribution and Electrical Installation Technology</b>	
SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 18.1	SENTRON · SIVACON · ALPHA	LV 10
SINAMICS S120 Chassis Format Converter Units	D 21.3	Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems	
SINAMICS S120 Cabinet Modules		Electrical Components for the Railway Industry	LV 12
SINAMICS S150 Converter Cabinet Units		Power Monitoring Made Simple	LV 14
SINAMICS S120 and SIMOTICS	D 21.4	Components for Industrial Control Panels according to UL Standards	LV 16
SINAMICS DCM DC Converter, Control Module	D 23.1	<i>Digital: Air circuit breakers and molded case circuit breakers with UL certification</i>	LV 18
SINAMICS Inverters for Single-Axis Drives · Built-In Units	D 31.1	3WT Air Circuit Breakers up to 4000 A	LV 35
SINAMICS Inverters for Single-Axis Drives · Distributed Inverters	D 31.2	3VT Molded Case Circuit Breakers up to 1600 A	LV 36
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<i>Digital: SINAMICS S210 Servo Drive System</i>	D 32	<i>Digital: ALPHA Distribution Systems</i>	LV 51
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