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Low-Voltage Power Distribution and Electrical Installation Technology

Air Circuit Breakers

Catalog
Extract
LV 10

Edition
10/2018

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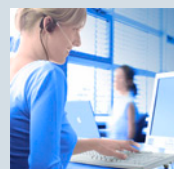


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Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



Catalog LV 10 · 10/2018

Supersedes:
Catalog LV 10 · 04/2018

Refer to the Industry Mall for current updates of
this catalog:
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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

Please contact your local Siemens branch.

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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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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					
▶	5TT3400		1	1 unit	1BK
	8US1923-5CA02		1	10 units	1CU
	8WH9000-1GA00		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

A product's export markings/metal surcharges are updated daily at www.siemens.com/industrymall.



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Ch. 8 3KC ATC6300 and ATC3100 transfer control devices

3WL10 air circuit breakers/ non-automatic air circuit breakers **NEW**

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For further technical product information:

[Configuration Manual](#)

[Air Circuit Breakers](#)

Article No.: 3ZW1012-3WL11-0AC1

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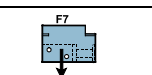
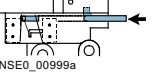
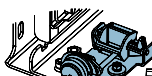
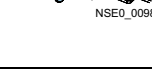
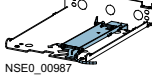
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 - Certificate
 - Characteristic
 - Download
 - FAQ
 - Manual
 - Product note
 - Software archive
 - Technical data


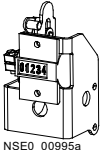
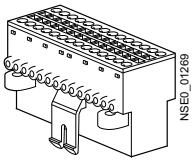
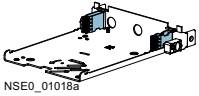
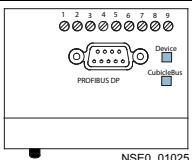
Air Circuit Breakers

Introduction

1

Overview

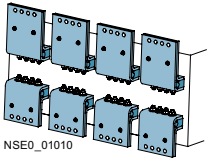
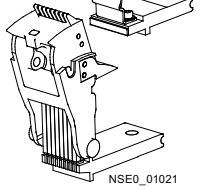
Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	3WL1 1/20 ... 1/47	As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations. For switching and protecting motors, capacitors, generators, transformers, busbars and cables.	IEC 60947-2, climate-proof acc. to IEC 60068-2-30 CCC	✓	--	✓
	1/79 ... 1/81	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	✓	--	✓
	1/62	Electronic Trip Units with protection functions LI, LSI, LSING, LSIN(G) with and without metering function <i>Plus</i>	As for circuit breakers	✓	--	✓
	1/62	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	✓	--	✓
	1/62	With alarm and tripping	As for circuit breakers	✓	--	✓
	1/62	4-line displays for ETU45B	As for circuit breakers	✓	--	✓
	1/62	Internal transformers for N conductors, external transformers for N conductors	As for circuit breakers	✓	--	✓
	1/62	Common-mode interference suppressor filters	As for circuit breakers	✓	--	✓
	1/63	Sealable and lockable covers, automatic reset of the reclosing lockout, remote reset solenoid, retrofitable internal CubicleBUS wiring, retrofitable internal wiring for connection of the external N and G transformers	As for circuit breakers	✓	--	✓
	1/63	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	✓	--	✓
	1/64	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	✓	--	✓
	1/65	Mechanical interlocking, couplings on the circuit breaker (with ring) for mutual interlocking, Bowden cable	As for circuit breakers	✓	--	✓






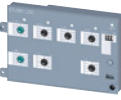






Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 <p>3KC ATC6300 and ATC3100 transfer control devices</p>	3WL.1 Ch. 8	The 3KC ATC6300 and ATC3100 transfer control devices, equipped with two circuit breakers with motorized 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	✓	✓	✓
Test devices	1/65	Manual testers Release 2 for Electronic Trip Units, function testers	As for circuit breakers	✓	--	✓
Capacitor storage devices	1/65	For shunt releases	As for circuit breakers	✓	--	✓
 <p>Indicators, control elements</p>	1/66	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>Auxiliary conductor connections</p>	1/67	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	✓	--	✓
Auxiliary releases	1/68	Closing coils/shunt releases, undervoltage releases	As for circuit breakers	✓	--	✓
Operating mechanisms	1/68	Motorized operating mechanism	As for circuit breakers	✓	--	✓
Auxiliary contacts	1/68	Auxiliary switch blocks	As for circuit breakers	✓	--	✓
Door sealing frames, hoods, shutters	1/69	Door sealing frames, IP55 protective covers, shutters	As for circuit breakers	✓	--	✓
Arc chutes	1/69	Arc chutes, arc chute covers	As for circuit breakers	✓	--	✓
Coding for withdrawable version	1/69	By customer, for 36 coding variants	As for circuit breakers	✓	--	✓
 <p>Grounding connection</p>	1/70	Grounding connection between the guide frame and the withdrawable circuit breaker, contacting modules for withdrawable circuit breakers	As for circuit breakers	✓	--	✓
Support brackets	1/70	For mounting fixed-mounted circuit breakers on vertical plane	As for circuit breakers	✓	--	✓
CubicleBUS modules	1/70	Digital and analog input and output modules, Zone Selective Interlocking modules	As for circuit breakers	✓	--	✓
Parameterization systems	1/70	powerconfig commissioning and service software	As for circuit breakers	✓	--	✓
Accessories for communication	1/71	Pre-assembled cables for CubicleBUS modules, SENTRON manual for communication solutions, voltage transformers	As for circuit breakers	✓	--	✓
 <p>Retrofitting and spare parts</p>	1/71	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>Main conductor connections, fixed-mounted, main conductor connections, withdrawable</p> <p>NSE0_01010</p>	1/72, 1/73	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	✓	--	✓
<p>Conversion sets</p>	1/74	Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers	As for circuit breakers	✓	--	✓
 <p>Main contact elements</p> <p>NSE0_01021</p>	1/74	For replacement of the main contacts during maintenance and thus to boost the useful life of the breaker.	As for circuit breakers	✓	--	✓

Devices	Page
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	CB modules 1/124
	Test devices and Breaker Data Adapters 1/126
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	Mechanical accessories / spare parts 1/128
	Locking devices and interlocks 1/130
	Terminals for main circuit connection 1/131

Air Circuit Breakers

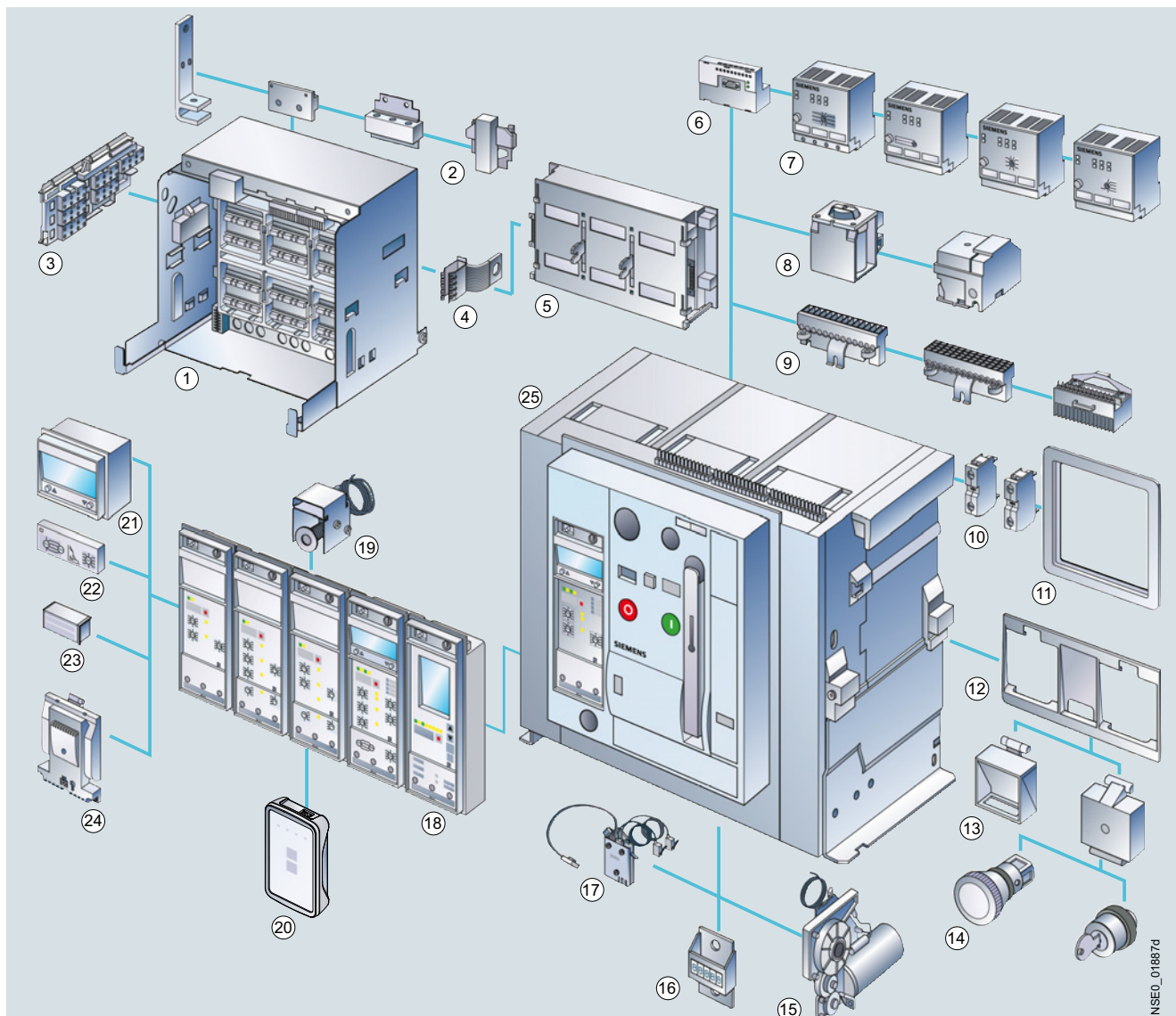
3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Introduction

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.

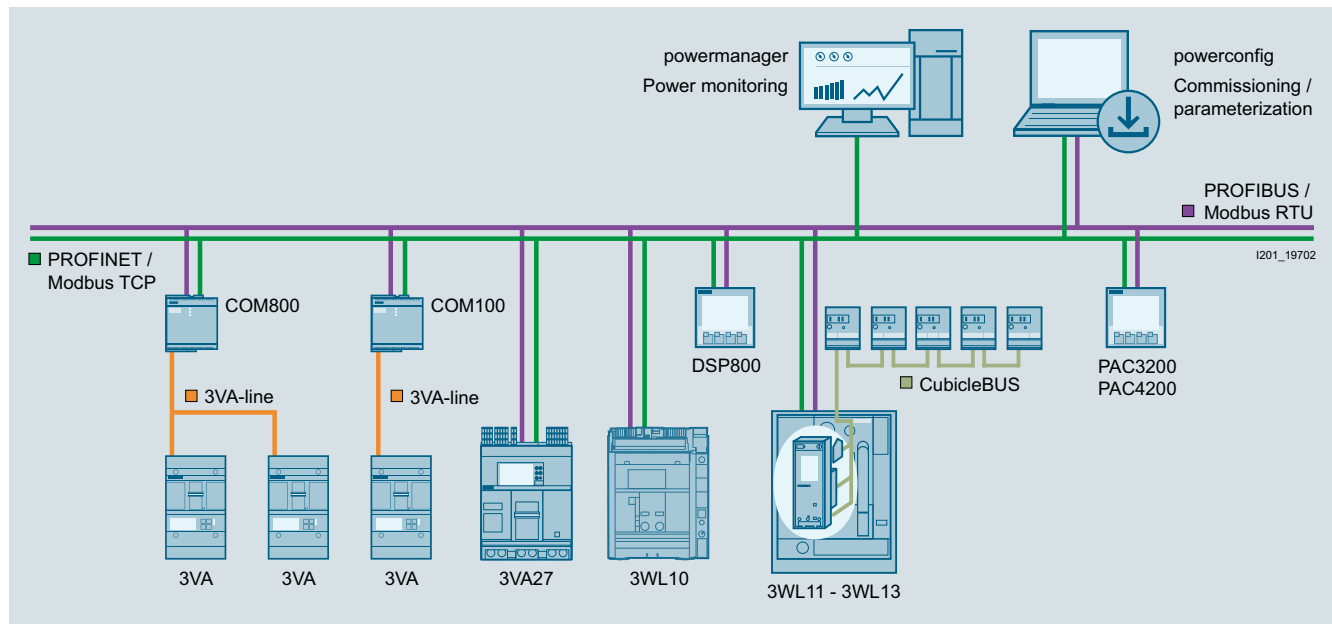


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- | | |
|---|--|
| ① Guide frame (page 1/56 to page 1/62) | ⑩ Operating cycles counter (page 1/50 and 1/66) |
| ② Main circuit connection front, flange, horizontal, vertical, (page 1/53, 1/72 and 1/73) | ⑪ Breaker Status Sensor (BSS) (page 1/51 and 1/71) |
| ③ Position signaling switch (page 1/51 and 1/66) | ⑫ Protective device with device holder, Electronic Trip Unit (ETU) (page 1/62) |
| ④ Grounding connection, leading (page 1/70) | ⑬ Remote reset solenoid (page 1/50 and 1/63) |
| ⑤ Shutters (page 1/51 and 1/69) | ⑭ Four-line display (page 1/62) |
| ⑥ COM15 PROFIBUS module or COM16 MODBUS module (page 1/51 and 1/71) | ⑮ Ground-fault protection module (page 1/62) |
| ⑦ External CubicleBUS modules (page 1/70) | ⑯ Rating plug (page 1/49 and 1/62) |
| ⑧ Closing coil, auxiliary release (page 1/48, 1/50 and 1/68) | ⑰ Metering function module (page 1/51 and 1/62) |
| ⑨ Auxiliary conductor plug-in system (page 1/52 and 1/67) | ⑱ Air circuit breaker (page 1/20 to 1/47) |
| ⑩ Auxiliary switch block (page 1/48 and 1/68) | |
| ⑪ Door sealing frame (page 1/50 and 1/69) | |
| ⑫ Interlocking set for mechanical ON/OFF (page 1/63) | |
| ⑬ Transparent panel, function insert (page 1/63) | |
| ⑭ EMERGENCY-STOP pushbutton, key operated (page 1/66) | |
| ⑮ Motorized operating mechanism (page 1/50 and 1/68) | |

Overview

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

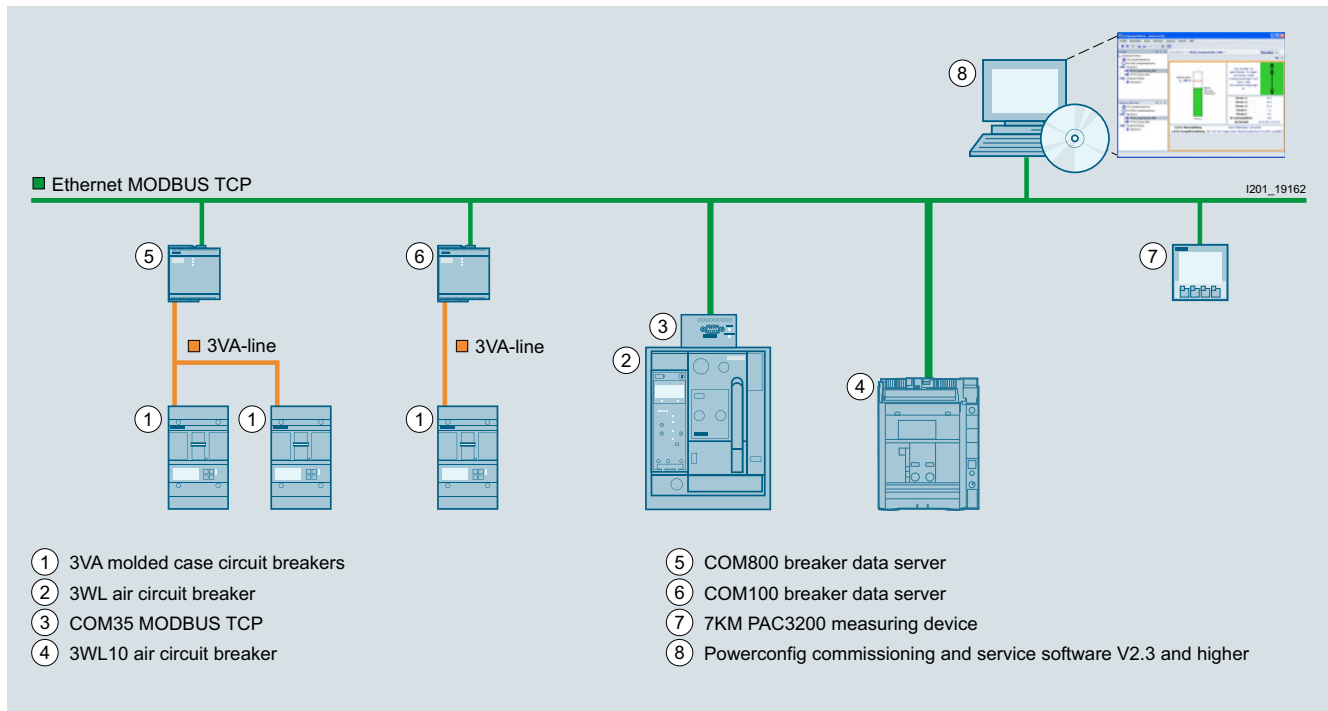


Air Circuit Breakers

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

Introduction

1



Characteristics

- Coordinated communication concept 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, both locally or via Ethernet/Intranet/Internet
- 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 1/20 to page 1/47.
- For accessories, see page 1/70 and page 1/71.
- For more information, see chapter "Measuring Devices and Power Monitoring" and see chapter "Monitoring Devices".
- For configuring information, see also Configuration Manual "Air Circuit Breakers" (www.siemens.com/lowvoltage/manuals).

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.

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 start-up, 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. DC devices are only available as non-automatic air circuit breakers.

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

Technical specifications

Size	I				II			
Type	... 3WL11 10	3WL11 12	3WL11 16	3WL11 20	3WL12 08	3WL12 10	3WL12 12	3WL12 16
Number of poles	3-pole, 4-pole							
Rated current I_n at 40 °C, at 50/60 Hz								
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
Rated operational voltage U_o at 50/60 Hz (1000 V version, see page 1/49 "Options")	V AC ...	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000
Rated insulation voltage U_i	V AC	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp}								
• Main conducting paths	kV	12	12	12	12	12	12	12
• Auxiliary circuits	kV	4	4	4	4	4	4	4
• Control circuits ⁹⁾	kV	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Isolating function acc. to EN 60947-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Utilization category	B							
Permissible ambient temperature								
• During operation (in operation with LCD max. 55 °C) ¹⁾	°C	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70
• Storage	°C	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70
Permissible load for withdrawable versions								
• Up to 55 °C (Cu, bare)	A	1000	1250	1600	2000	800	1000	1250
• Up to 60 °C (Cu, bare) ²⁾	A	1000	1250	1600	1930	800	1000	1250
at rear horizontal main connections	A	1000	1210	1490 ³⁾	1780	800	1000	1250
• Up to 70 °C (Cu, painted black) ²⁾	A	1000	1210	1490 ³⁾	1780	800	1000	1250
Rated rotor operational voltage U_{er}	V	2000	2000	2000	2000	2000	2000	2000
Power loss at I_n								
With three-phase symmetrical load								
• Fixed-mounted circuit breakers	W	100	105	150	240	40	45	80
• Withdrawable circuit breakers	W	195	205	350	440	85	95	165
Switching times								
• Make time	ms	35	35	35	35	35	35	35
• Opening time	ms	38	38	38	38	34	34	34
• Electrical make time (through closing coil) ⁴⁾	ms	80	80	80	80	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
Service life: Breaking capacity N and S, 3/4-pole								
• Mechanical (without maintenance)	Operating cycles	10 000	10 000	10 000	10 000	10 000	10 000	10 000
• Mechanical (with maintenance) ⁵⁾	Operating cycles	20 000	20 000	20 000	15 000	15 000	15 000	15 000
• Electrical (without maintenance)	Operating cycles	10 000	10 000	10 000	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) ⁵⁾	Operating cycles	20 000	20 000	20 000	15 000	15 000	15 000	15 000
Service life: Breaking capacity H, 3-pole								
• Mechanical (without maintenance)	Operating cycles	10 000	10 000	10 000	10 000	10 000	10 000	10 000
• Mechanical (with maintenance) ⁵⁾	Operating cycles	15 000	15 000	15 000	15 000	15 000	15 000	15 000
• Electrical (without maintenance)	Operating cycles	7 500	7 500	7 500	7 500	7 500	7 500	7 500
• 1000 V version, electrical (without maintenance) Oper. cycles	1000	1000	1000	1000	1000	1000	1000	1000
• 1150 V version, electrical (without maintenance) Oper. cycles	--	--	--	--	500	500	500	500
• Electrical (with maintenance) ⁵⁾ ⁶⁾	Operating cycles	15 000	15 000	15 000	15 000	15 000	15 000	15 000
Service life: Breaking capacity H, 4-pole								
• Mechanical (without maintenance)	Operating cycles	10 000	10 000	10 000	10 000	10 000	10 000	10 000
• Mechanical (with maintenance) ⁵⁾	Operating cycles	15 000	15 000	15 000	15 000	15 000	15 000	15 000
• Electrical (without maintenance)	Operating cycles	7 500	7 500	7 500	7 500	7 500	7 500	7 500
• 1000 V version, electrical (without maintenance) Oper. cycles	1000	1000	1000	1000	1000	1000	1000	1000
• 1150 V version, electrical (without maintenance) Oper. cycles	--	--	--	--	500	500	500	500
• Electrical (with maintenance) ⁵⁾ ⁶⁾	Operating cycles	10 000	10 000	10 000	10 000	15 000	15 000	15 000
Service life: Breaking capacity C								
• Mechanical (without maintenance)	Operating cycles	--	--	--	--	5 000	5 000	5 000
• Mechanical (with maintenance) ⁵⁾	Operating cycles	--	--	--	--	10 000	10 000	10 000
• Electrical (without maintenance)	Operating cycles	--	--	--	--	5 000	5 000	5 000
• Electrical (with maintenance) ⁵⁾	Operating cycles	--	--	--	--	10 000	10 000	10 000
Switching frequency⁷⁾								
• 690 V version	1/h	60 ⁸⁾	60 ⁸⁾	60 ⁸⁾	60	60 ⁸⁾	60 ⁸⁾	60 ⁸⁾
• 1000 V version	1/h	--	--	--	20	20	20	20
• 1150 V version	1/h	--	--	--	--	20	20	20
Minimum interval 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⁾ 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 mechanism $U_{imp} = 1.2$ kV

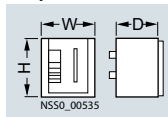
Air Circuit Breakers

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

General data

1

Size	I				II					
Type	... 3WL11 10	3WL11 12	3WL11 16	3WL11 20	3WL12 08	3WL12 10	3WL12 12	3WL12 16		
Mounting position										
Degree of protection	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover									
Main conductor minimum cross-sections	<ul style="list-style-type: none"> Copper bars, bare Copper bars, painted black 	Unit(s)	1 x	2 x	2 x	3 x	1 x	1 x	2 x	2 x
		mm ²	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 ²	60 x 10	40 x 10	50 x 10	50 x 10	50 x 10	60 x 10	40 x 10	50 x 10
Auxiliary conductors (Cu)	Standard connection = strain-relief clamp Max. number auxiliary conductors x cross-section (solid/stranded)									
	<ul style="list-style-type: none"> Without end sleeve With end sleeve acc. to DIN 46228 Part 2 With twin end sleeve Optional connection = tension spring		2 x 0.5 mm ² (AWG 20) ... 2 x 1.5 mm ² (AWG 16); 1 x 2.5 mm ² (AWG 14) 1 x 0.5 mm ² (AWG 20) ... 1 x 1.5 mm ² (AWG 16) 2 x 0.5 mm ² (AWG 20) ... 2 x 1.5 mm ² (AWG 16)							
	<ul style="list-style-type: none"> Without end sleeve With end sleeve acc. to DIN 46228 Part 2 		2 x 0.5 mm ² (AWG 20) ... 2 x 2.5 mm ² (AWG 14) 2 x 0.5 mm ² (AWG 20) ... 2 x 1.5 mm ² (AWG 16)							
Position signaling switches	Tension spring terminals		1 x 0.5 mm ² (AWG 20) ... 1 x 2.5 mm ² (AWG 14)							
Weights	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
Dimensions 3/4-pole		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 CubicleBUS	Max. startup current per module from the CubicleBUS
ETU45B Electronic Trip Unit	1	120 mA	2000 mA
ETU76B Electronic Trip Unit	1	170 mA	2000 mA
Metering function PLUS	1	120 mA	120 mA
Breaker Status Sensor BSS	1	40 mA	110 mA
COM15 PROFIBUS communication module	1	125 mA	280 mA
ZSI module	1	50 mA	125 mA
Digital output modules with rotary coding switch, relay outputs	1-2	180 mA	125 mA
Digital output modules, configurable, relay outputs	1	180 mA	125 mA
Analog output modules	1-2	110 mA	800 mA
Digital input modules	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

Size		II				III			
Type		3WL12 20	3WL12 25	3WL12 32	3WL12 40	3WL13 40	3WL13 50	3WL13 63	
Number of poles		3-pole, 4-pole							
Rated current I_n 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	
Rated operational voltage U_e at 50/60 Hz (1000 V version, see page 1/49 "Options")	V AC	
		690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	
Rated insulation voltage U_i	V AC	1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage U_{imp}									
• Main conducting paths	kV	12	12	12	12	12	12	12	
• Auxiliary circuits	kV	4	4	4	4	4	4	4	
• Control circuits ¹⁰⁾	kV	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Isolating function acc. to EN 60947-2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Utilization category		B							
Permissible ambient temperature									
• During operation (in operation with LCD max. 55 °C) ¹⁾	°C	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70	
• Storage	°C	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	
Permissible load for withdrawable versions^{2) 4)}									
• 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 painted black)	A	2000	2280	2870	3600	4000	5000	5500	
Rated rotor operational voltage U_{er}	V	2000	2000	2000	2000	2000	2000	2000	
Power loss at I_n									
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	
Switching times									
• 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) ⁵⁾	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	
Service life: Breaking capacity N, S and H¹¹⁾									
• Mechanical (without maintenance)	Operating cycles	10000	10000	10000	10000	5000	5000	5000	
• Mechanical (with maintenance) ⁶⁾	Operating cycles	15000	15000	15000	15000	10000	10000	10000	
• Electrical (without maintenance) up to 690 V	Operating cycles	7500	7500	4000	2000	2000	2000	2000	
• 1000 V version, electrical (without maintenance)	Operating cycles	1000	1000	1000	1000	1000	1000	1000	
• 1150 V version, electrical ⁷⁾ (without maintenance)	Operating cycles	500	500	500	500	500	500	500	
• Electrical (with maintenance) ⁶⁾	Operating cycles	15000	15000	15000	15000	10000	10000	10000	
Service life: Breaking capacity C									
• Mechanical (without maintenance)	Operating cycles	5000	5000	5000	--	5000	5000	5000	
• Mechanical (with maintenance) ⁶⁾	Operating cycles	10000	10000	10000	--	10000	10000	10000	
• Electrical (without maintenance) up to 690 V	Operating cycles	5000	5000	4000	--	1000	1000	1000	
• Electrical (without maintenance) up to 1150 V	Operating cycles	--	--	--	--	500	500	500	
• Electrical (with maintenance) ⁶⁾	Operating cycles	10000	10000	8000	--	--	--	--	
Switching frequency⁸⁾									
• 690 V version	1/h	60 ⁹⁾	60 ⁹⁾	60 ⁹⁾	60 ⁹⁾	60	60	60	
• 1000 V version	1/h	20	20	20	20	20	20	20	
• 1150 V version ⁷⁾	1/h	20	20	20	20	20	20	20	
Minimum interval 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 with order code "A15" and size III: data for very high breaking capacity.

8) Minimum interval time between 2 tripping operations.

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

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

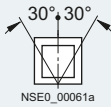
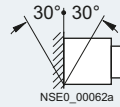
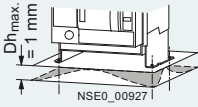
11) 1000 V and 1150 V versions only in the case of H breaking capacity

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			
Mounting position			and/or							
Degree of protection	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover									
Main conductor minimum cross-sections	<ul style="list-style-type: none"> Copper bars, bare 		<ul style="list-style-type: none"> Copper bars, painted black 							
	Unit(s)	3 x	2 x	3 x	4 x	4 x	6 x	6 x		
	mm ²	50 x 10	100 x 10	100 x 10	120 x 10	100 x 10	100 x 10	120 x 10		
	Unit(s)	3 x	2 x	3 x	4 x	4 x	6 x	6 x		
	mm ²	50 x 10	100 x 10	100 x 10	100 x 10 ¹⁾	100 x 10	100 x 10	120 x 10		
Auxiliary conductors (Cu)	Standard connection = strain-relief clamp									
Max. number of auxiliary conductors x cross-section (solid/stranded)	<ul style="list-style-type: none"> Without end sleeve With end sleeve acc. to DIN 46228 Part 2 With twin end sleeve 									
	2 x 0.5 mm ² (AWG 20) ... 2 x 1.5 mm ² (AWG 16); 1 x 2.5 mm ² (AWG 14)									
	1 x 0.5 mm ² (AWG 20) ... 1 x 1.5 mm ² (AWG 16)									
	2 x 0.5 mm ² (AWG 20) ... 2 x 1.5 mm ² (AWG 16)									
	Optional connection = tension spring									
	2 x 0.5 mm ² (AWG 20) ... 2 x 2.5 mm ² (AWG 14)									
	2 x 0.5 mm ² (AWG 20) ... 2 x 1.5 mm ² (AWG 16)									
Position signaling switches	Tension spring terminals									
	1 x 0.5 mm ² (AWG 20) ... 1 x 2.5 mm ² (AWG 14)									
Weights										
3-pole	<ul style="list-style-type: none"> Fixed-mounted circuit breakers Withdrawable circuit breakers Guide frames 		kg	56	59	64	85	82	82	90
4-pole	<ul style="list-style-type: none"> Fixed-mounted circuit breakers Withdrawable circuit breakers Guide frames 		kg	67	71	77	103	99	99	108
			kg	72	76	82	146	106	106	108
			kg	37	47	54	62	84	84	119
Dimensions 3/4-pole										
	Fixed-mounted		W mm	460/590				704/914		
			H mm	434				434		
			D mm	291				291		
	Withdrawable		H mm	465.5				465.5		
			D mm	471				471		

¹⁾ Minimum main conductor cross-sections for 4-pole withdrawable circuit breakers:
4 x 120 x 10 mm

Air Circuit Breakers

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

General data

Breaking capacity

Size	I					II					III									
Type	3WL11					3WL12					3WL13									
Breaking capacity	N	N	S	S	H	H	N	N	S	S	H	H	C ⁷⁾	C	H	H	C	C	C	C
Rated short-circuit breaking capacity																				
Rated operational voltage U_e up to 415 V AC																				
I_{cu}	kA	55	66	85	85	66	80	100	130	130	100	150	130	100	150	130	330	330	286	286
I_{cs}	kA	55	66	85	85	66	80	100	130	130	100	150	130	100	150	130	330	330	286	286
I_{cm}	kA	121	145	187	187	145	176	220	286	286	220	330	286	220	330	286	330	330	286	286
Rated operational voltage U_e up to 500 V AC																				
I_{cu}	kA	55	66	85	85	66	80	100	130	130	100	150	130	100	150	130	330	330	286	286
I_{cs}	kA	55	66	85	85	66	80	100	130	130	100	150	130	100	150	130	330	330	286	286
I_{cm}	kA	121	145	187	187	145	176	220	286	286	220	330	286	220	330	286	330	330	286	286
Rated operational voltage U_e up to 690 V AC																				
I_{cu}	kA	42	50	66	66	50	75	85	100	100	85	150	130	85	150	130	330	330	286	286
I_{cs}	kA	42	50	66	66	50	75	85	100	100	85	150	130	85	150	130	330	330	286	286
I_{cm}	kA	88	105	145	145	105	165	187	220	220	187	330	286	187	330	286	330	330	286	286
Rated operational voltage U_e up to 1000 V/1150 V AC																				
I_{cu}	kA	--	--	50 ⁵⁾	50 ⁵⁾	--	--	50	--	--	50	70 ⁴⁾	70 ⁴⁾	50	70 ⁴⁾	70 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾
I_{cs}	kA	--	--	50 ⁵⁾	50 ⁵⁾	--	--	50	--	--	50	70 ⁴⁾	70 ⁴⁾	50	70 ⁴⁾	70 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾
I_{cm}	kA	--	--	105 ⁵⁾	105 ⁵⁾	--	--	105	--	--	105	154 ⁴⁾	154 ⁴⁾	105	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾
Rated short-time withstand current																				
$I_{cw}^{3)}$																				
0.5 s	kA	55	66	75	75	66	80	100	100	100	100	100	100	100	100	100	100	100	100	100
1 s	kA	42	50	66	66	55	66	85	100	100	100	100	100	100	100	100	100	100	100	100
2 s	kA	29.5	35	46	46	39	46	65 ^{1)/70²⁾}	70	80	80	80	80	80	80	80	80	80	80	80
3 s	kA	24	29	44	44	32	44	50 ^{1)/65²⁾}	65	65	65	65	65	65	65	65	65	65	65	65
Rated conditional short-circuit current I_{cc} of the non-automatic air circuit breakers																				
Up to 500 V AC	kA	55	66	75	75	66	80	100	130	130	100	150	130	100	150	130	330	330	286	286
Up to 690 V AC	kA	42	50	66	66	50	75	85	100	100	85	150	130	85	150	130	330	330	286	286
Up to 1000 V/1150 V AC	kA	--	--	50 ⁵⁾	50 ⁵⁾	--	--	50 ⁴⁾	--	--	50 ⁶⁾	70 ⁴⁾	70 ⁴⁾	50 ⁶⁾	70 ⁴⁾	70 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾

- 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).

1) Size II with $I_{n\max} \leq 2500$ A.

2) Size II with $I_{n\max} = 3200$ A and $I_{n\max} = 4000$ A.

3) At a rated voltage ≥ 690 V, the I_{cw} value of the circuit breaker cannot be greater than the I_{cu} or I_{cs} value at 690 V.

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.

4) Rated operational voltage $U_e = 1150$ V.

5) Values also apply to 690 V + 20% version with Z option "A16".

6) Rated operational voltage $U_e = 1000$ V.

7) Up to 3200 A rated current.

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
Manual operating mechanism with mechanical closing			
Switching on/ Charging the energy store	Max. force required to operate the hand lever Required number of strokes on the hand lever	N	≤ 230 9
Manual operating mechanism with mechanical and electrical closing			
Charging the energy store			
Closing coil (CC)	<ul style="list-style-type: none"> Primary operating range Extended operating range for battery operation 	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.85 ... 1.1 × U_s 0.7 ... 1.26 × U_s
	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
Manual/motorized operating mechanism with mechanical and electrical closing			
Manual operating mechanism			For data, see above.
Motor	<ul style="list-style-type: none"> Primary operating range Extended operating range for battery operation 	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.85 ... 1.1 × U_s 0.7 ... 1.26 × U_s
	Power consumption of motor	AC/DC	VA/W 135/135
	Time required to charge the spring energy store at 1 × U_s		s ≤ 10
Closing coil For motor and closing coil	<ul style="list-style-type: none"> 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 Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) 	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 TDz (slow)/2 A 6 A 2 A 2 A
Signals of the Electronic Trip Unit			
Measuring accuracy of the Electronic Trip Unit			Protection functions acc. to EN 60947; Current indication ≤ 10%; Metering function for base quantities ≤ 1%; Metering function for derived quantities ≤ 4%
Auxiliary releases			
Undervoltage releases UVR (F3) and UVR-t_d (F4)	<ul style="list-style-type: none"> Response values Primary operating range Extended operating range for battery operation 	Pickup Dropout At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC	≥ 0.85 × U_s (circuit breaker can be closed) 0.35 ... 0.7 × U_s (circuit breaker is opened)
	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 ¹⁾
		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 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

¹⁾ 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

Size					I to III		
Type					3WL1		
Auxiliary releases							
Shunt release (ST) (F1, F2)	<ul style="list-style-type: none"> For continuous command (100% OP), locks out on momentary-contact commands 	- 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	
		5% ON period	- 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	
		<ul style="list-style-type: none"> With spring energy store consisting of shunt release and capacitor storage device 	- 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		
- 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"		
Remote reset solenoid for mechanical tripped indicator (F7)							
Remote reset solenoid for mechanical tripped indicator (F7)	- 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		
Contact position-driven auxiliary switches (S1, S2, S3, S4, S7, S8)							
Rated insulation voltage U_i			V AC/DC	500			
Rated operational voltage U_e			V AC/DC	500			
Rated impulse withstand voltage U_{imp}			kV	4			
Breaking capacity	<ul style="list-style-type: none"> Alternating current 50/60 Hz 	- 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"> Direct current 	- 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
Short-circuit protection	<ul style="list-style-type: none"> Largest permissible DIAZED fuse (operational class gL) Largest permissible miniature circuit breaker with C characteristic 				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

1

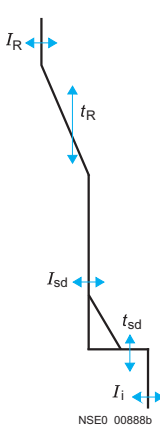
Size	I to III			
Type	3WL1			
Ready-to-close signaling switches (S20) (acc. to DIN VDE 0630)				
Breaking capacity	• Alternating current	- Rated operational voltage U_e	V	250
		- Rated operational current I_e	A	8
	• Direct current	- Rated operational voltage U_e	V	125 250
		- Rated operational current I_e	A	0.4 0.2
Short-circuit protection	Largest permissible DIAZED fuse (operational class gL)			2 A Dz (quick)
Tripped signaling switches (S24) and signaling switches for auxiliary releases (S22, S23) (acc. to DIN VDE 0630)				
Breaking capacity	• 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	24 125 250
		- Rated operational current $I_e/DC-12$	A	6 0.4 0.2
Short-circuit protection	Largest permissible DIAZED fuse (operational class gL)			6 A Dz (quick)
Tripped signaling switch	Signal duration after tripping			Until manual or electrical remote reset (option)
Position signaling switches on guide frame				
Type of contact	• 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
Rated insulation voltage U_i	50/60 Hz AC		V	440
	DC		V	250
Rated operational voltage U_e			V	250
Rated impulse withstand voltage U_{imp}			kV	4
Breaking capacity	• 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	
Short-circuit protection	• Largest permissible DIAZED fuse (operational class gL)		8 A TDz (slow)	
	• Largest permissible miniature circuit breaker with C characteristic		8 A TDz (slow)	

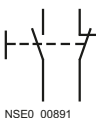
Air Circuit Breakers

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	
Function overview of the electronic trip system				
	Overload protection 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	
	L 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 memory can be enabled/disabled Phase failure sensitivity	-- 10 s fixed -- --	✓ 10 s fixed -- At $t_{sd} = 20$ ms (M)	-- 10 s fixed -- At $t_{sd} = 20$ ms (M)
	N N conductor protection Function can be switched on/off N conductor setting range $I_N = I_n \times \dots$	-- --	-- --	✓ 1
	S Short-time delayed short-circuit protection 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 -- --
	I Instantaneous short-circuit protection 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 ✓ permanently installed
	G Ground-fault protection 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 -- -- --
	Parameter set changeover Switchable between parameter set A and B	--	--	--
	LCD Alphanumeric LCD (4-line) Graphical LCD (24 V, external power supply required)	-- --	-- --	-- --
	Self-monitoring / communication Watchdog-monitored Communication-capable	✓ --	✓ --	✓ --
Metering function Metering capability with metering function <i>Plus</i>	--	--	--	
LED display 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 prot. function Communication	✓ ✓ ✓ -- -- -- -- -- -- -- -- --	✓ ✓ ✓ ✓ ✓ ✓ -- -- -- -- -- --	✓ ✓ ✓ ✓ ✓ ✓ -- -- -- -- -- --	
Signals from signaling switches with external CubicleBUS modules (relays) 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	-- -- -- -- -- -- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- -- -- -- -- -- --	



Delay time figures given in ms.
M = Motor protection, corresponds to 20 ms.
D = Rotary protection switch
D & 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 1/19.

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	ETU45B D & S	ETU76B M/K
Function overview of the electronic trip system		
Overload protection	✓	✓
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^4t -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 memory can be enabled/disabled	✓	✓
Phase failure sensitivity	At $t_{sd} = 20$ ms (M)	✓ (on/off)
N conductor protection	✓	✓
Function can be switched on/off	✓	✓
N conductor setting range $I_N = I_n \times \dots$	0.5 ... 1	0.2 ... 2
Short-time delayed short-circuit protection	✓	✓
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
Instantaneous short-circuit protection	✓	✓
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 $\times I_{cs}$	$1.5 \times I_n \dots 0.8 \times I_{cs}$
Ground-fault protection	<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
Parameter set changeover		
Switchable between parameter set A and B	--	✓
LCD		
Alphanumeric LCD (4-line)	<input type="checkbox"/>	--
Graphical LCD (24 V, external power supply required)	--	✓
Self-monitoring / communication		
Watchdog-monitored	✓	✓
Communication-capable	✓	✓
Metering function		
Metering capability with metering function <i>Plus</i>	✓	✓
LED display		
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	✓	✓
Signals from signaling switches with external CubicleBUS modules (relays)		
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	✓	✓

	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		

Legend, see page 1/18.

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 ¹⁾ 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. www.siemens.com/ product?ArticleNo.	Basic price per PU		
Horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□32-□□□□ 3WL1108-2□□32-□□□□ 3WL1110-2□□32-□□□□ 3WL1112-2□□32-□□□□ 3WL1116-2□□32-□□□□ 3WL1120-2□□32-□□□□	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□□32-□□□□ 3WL1210-2□□32-□□□□ 3WL1212-2□□32-□□□□ 3WL1216-2□□32-□□□□ 3WL1220-2□□32-□□□□ 3WL1225-2□□32-□□□□ 3WL1232-2□□32-□□□□	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
Vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□31-□□□□ 3WL1108-2□□31-□□□□ 3WL1110-2□□31-□□□□ 3WL1112-2□□31-□□□□ 3WL1116-2□□31-□□□□ 3WL1120-2□□31-□□□□	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□□31-□□□□ 3WL1210-2□□31-□□□□ 3WL1212-2□□31-□□□□ 3WL1216-2□□31-□□□□ 3WL1220-2□□31-□□□□ 3WL1225-2□□31-□□□□ 3WL1232-2□□31-□□□□ 3WL1240-2□□31-□□□□	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
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LJ ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48	

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 1/49](#).

²⁾ For permissible rated short-time current I_{cs} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, [page 1/14](#).

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 1/62](#).

⁴⁾ Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

⁵⁾ ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [see page 1/62](#).

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 $I_{n\max}$	Rated current ¹⁾ 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. www.siemens.com/product?Article No.	Basic price per PU		
Front main circuit connection, single hole								
I	630 800 1000 1250 1600	630 800 1000 1250 1600	55		3WL1106-2□□33-□□□□ 3WL1108-2□□33-□□□□ 3WL1110-2□□33-□□□□ 3WL1112-2□□33-□□□□ 3WL1116-2□□33-□□□□	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		3WL1208-2□□33-□□□□ 3WL1210-2□□33-□□□□ 3WL1212-2□□33-□□□□ 3WL1216-2□□33-□□□□ 3WL1220-2□□33-□□□□ 3WL1225-2□□33-□□□□ 3WL1232-2□□33-□□□□	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
Front main circuit connection, double hole								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□34-□□□□ 3WL1108-2□□34-□□□□ 3WL1110-2□□34-□□□□ 3WL1112-2□□34-□□□□ 3WL1116-2□□34-□□□□ 3WL1120-2□□34-□□□□	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□□34-□□□□ 3WL1210-2□□34-□□□□ 3WL1212-2□□34-□□□□ 3WL1216-2□□34-□□□□ 3WL1220-2□□34-□□□□ 3WL1225-2□□34-□□□□ 3WL1232-2□□34-□□□□	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
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

- 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 1/49.
- ²⁾ For permissible rated short-time current I_{cs} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, page 1/14.

- 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 1/62.
- ⁴⁾ Current transformers for protection of the N conductor are to be ordered separately, page 1/62.
- ⁵⁾ ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/62.
- 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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
I	630	630	66	d	3WL1106-3□□32-□□□□	1	1 unit	1CA
	800	800			3WL1108-3□□32-□□□□	1	1 unit	1CA
	1000	1000			3WL1110-3□□32-□□□□	1	1 unit	1CA
	1250	1250			3WL1112-3□□32-□□□□	1	1 unit	1CA
	1600	1600			3WL1116-3□□32-□□□□	1	1 unit	1CA
	2000	2000			3WL1120-3□□32-□□□□	1	1 unit	1CA
II	800	800	80	d	3WL1208-3□□32-□□□□	1	1 unit	1CA
	1000	1000			3WL1210-3□□32-□□□□	1	1 unit	1CA
	1250	1250			3WL1212-3□□32-□□□□	1	1 unit	1CA
	1600	1600			3WL1216-3□□32-□□□□	1	1 unit	1CA
	2000	2000			3WL1220-3□□32-□□□□	1	1 unit	1CA
	2500	2500			3WL1225-3□□32-□□□□	1	1 unit	1CA
	3200	3200			3WL1232-3□□32-□□□□	1	1 unit	1CA
						3WL1232-3□□32-□□□□	1	1 unit
Vertical main circuit connection								
I	630	630	66	d	3WL1106-3□□31-□□□□	1	1 unit	1CA
	800	800			3WL1108-3□□31-□□□□	1	1 unit	1CA
	1000	1000			3WL1110-3□□31-□□□□	1	1 unit	1CA
	1250	1250			3WL1112-3□□31-□□□□	1	1 unit	1CA
	1600	1600			3WL1116-3□□31-□□□□	1	1 unit	1CA
	2000	2000			3WL1120-3□□31-□□□□	1	1 unit	1CA
II	800	800	80	d	3WL1208-3□□31-□□□□	1	1 unit	1CA
	1000	1000			3WL1210-3□□31-□□□□	1	1 unit	1CA
	1250	1250			3WL1212-3□□31-□□□□	1	1 unit	1CA
	1600	1600			3WL1216-3□□31-□□□□	1	1 unit	1CA
	2000	2000			3WL1220-3□□31-□□□□	1	1 unit	1CA
	2500	2500			3WL1225-3□□31-□□□□	1	1 unit	1CA
	3200	3200			3WL1232-3□□31-□□□□	1	1 unit	1CA
	4000	4000			3WL1240-3□□31-□□□□	1	1 unit	1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48	

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 1/49](#).

2) For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, [page 1/14](#).

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 1/62](#).

4) Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 $I_{n\max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?ArticleNo.	Basic price per PU			
Front main circuit connection, single hole									
I	630 800 1000 1250 1600	630 800 1000 1250 1600	66		3WL1106-3□□33-□□□□ 3WL1108-3□□33-□□□□ 3WL1110-3□□33-□□□□ 3WL1112-3□□33-□□□□ 3WL1116-3□□33-□□□□		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	80		3WL1208-3□□33-□□□□ 3WL1210-3□□33-□□□□ 3WL1212-3□□33-□□□□ 3WL1216-3□□33-□□□□ 3WL1220-3□□33-□□□□ 3WL1225-3□□33-□□□□ 3WL1232-3□□33-□□□□		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
Front main circuit connection, double hole									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□34-□□□□ 3WL1108-3□□34-□□□□ 3WL1110-3□□34-□□□□ 3WL1112-3□□34-□□□□ 3WL1116-3□□34-□□□□ 3WL1120-3□□34-□□□□		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	80		3WL1208-3□□34-□□□□ 3WL1210-3□□34-□□□□ 3WL1212-3□□34-□□□□ 3WL1216-3□□34-□□□□ 3WL1220-3□□34-□□□□ 3WL1225-3□□34-□□□□ 3WL1232-3□□34-□□□□		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
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

- 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 1/49.
- ²⁾ For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, page 1/14.

- 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 1/62.
- ⁴⁾ Current transformers for protection of the N conductor are to be ordered separately, page 1/62.
- ⁵⁾ ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/62.
- 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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□32-□□□□ 3WL1108-4□□32-□□□□ 3WL1110-4□□32-□□□□ 3WL1112-4□□32-□□□□ 3WL1116-4□□32-□□□□ 3WL1120-4□□32-□□□□	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□□32-□□□□ 3WL1210-4□□32-□□□□ 3WL1212-4□□32-□□□□ 3WL1216-4□□32-□□□□ 3WL1220-4□□32-□□□□ 3WL1225-4□□32-□□□□ 3WL1232-4□□32-□□□□	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		3WL1340-4□□32-□□□□ 3WL1350-4□□32-□□□□	1 1	1 unit 1 unit	1CA 1CA
Vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□31-□□□□ 3WL1108-4□□31-□□□□ 3WL1110-4□□31-□□□□ 3WL1112-4□□31-□□□□ 3WL1116-4□□31-□□□□ 3WL1120-4□□31-□□□□	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□□31-□□□□ 3WL1210-4□□31-□□□□ 3WL1212-4□□31-□□□□ 3WL1216-4□□31-□□□□ 3WL1220-4□□31-□□□□ 3WL1225-4□□31-□□□□ 3WL1232-4□□31-□□□□ 3WL1240-4□□31-□□□□	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□□31-□□□□ 3WL1350-4□□31-□□□□ 3WL1363-4□□31-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Options								
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units			AA	None			
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI ⁶⁾			BB		✓		
	ETU25B: Protection functions LSI			CB		✓		
	ETU45B: Protection functions LSIN ³⁾			EB		✓		
	ETU45B: Protection functions LSIN ³⁾ with 4-line display			FB		✓		
	ETU76B: Protection functions LSIN ³⁾ with full graphics display			NB		✓		
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ⁴⁾			DG		✓		
	ETU45B: Protection functions LSING ³⁾⁵⁾			EG		✓		
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display			FG		✓		
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display			NG		✓		
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48							

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 1/49](#).

²⁾ For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, [page 1/14](#).

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 1/62](#).

⁴⁾ Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

⁵⁾ ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 $I_{n\max}$	Rated current ¹⁾ 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. www.siemens.com/product?ArticleNo.	Basic price per PU		
Front main circuit connection, single hole								
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□33-□□□□ 3WL1210-4□□33-□□□□ 3WL1212-4□□33-□□□□ 3WL1216-4□□33-□□□□ 3WL1220-4□□33-□□□□ 3WL1225-4□□33-□□□□ 3WL1232-4□□33-□□□□	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□□33-□□□□	1	1 unit	1CA
Front main circuit connection, double hole								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□34-□□□□ 3WL1108-4□□34-□□□□ 3WL1110-4□□34-□□□□ 3WL1112-4□□34-□□□□ 3WL1116-4□□34-□□□□ 3WL1120-4□□34-□□□□	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□□34-□□□□ 3WL1210-4□□34-□□□□ 3WL1212-4□□34-□□□□ 3WL1216-4□□34-□□□□ 3WL1220-4□□34-□□□□ 3WL1225-4□□34-□□□□ 3WL1232-4□□34-□□□□	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□□34-□□□□	1	1 unit	1CA
Options								
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units				AA	None		
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI ⁶⁾				BB			✓
	ETU25B: Protection functions LSI				CB			✓
	ETU45B: Protection functions LSIN ³⁾				EB			✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display				FB			✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display				NB			✓
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ⁴⁾				DG			✓
	ETU45B: Protection functions LSING ³⁾⁵⁾				EG			✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display				FG			✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display				NG			✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48							

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 1/49](#).

2) For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, [page 1/14](#).

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 1/62](#).

4) Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□32-□□□□ 3WL1220-5□□32-□□□□ 3WL1225-5□□32-□□□□ 3WL1232-5□□32-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	150		3WL1340-5□□32-□□□□ 3WL1350-5□□32-□□□□	1 1	1 unit 1 unit	1CA 1CA
Vertical main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□31-□□□□ 3WL1220-5□□31-□□□□ 3WL1225-5□□31-□□□□ 3WL1232-5□□31-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		3WL1340-5□□31-□□□□ 3WL1350-5□□31-□□□□ 3WL1363-5□□31-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ³⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48	

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 1/49](#).

²⁾ For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, [page 1/14](#).

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 1/62](#).

⁵⁾ Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

⁶⁾ ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

Air Circuit Breakers

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

3-pole, withdrawable versions

1

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ 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. www.siemens.com/ product?Article.No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/56 to 1/61)								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□35-□□□□ 3WL1108-2□□35-□□□□ 3WL1110-2□□35-□□□□ 3WL1112-2□□35-□□□□ 3WL1116-2□□35-□□□□ 3WL1120-2□□35-□□□□	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□□35-□□□□ 3WL1210-2□□35-□□□□ 3WL1212-2□□35-□□□□ 3WL1216-2□□35-□□□□ 3WL1220-2□□35-□□□□ 3WL1225-2□□35-□□□□ 3WL1232-2□□35-□□□□ 3WL1240-2□□35-□□□□	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
With guide frames, horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□36-□□□□ 3WL1108-2□□36-□□□□ 3WL1110-2□□36-□□□□ 3WL1112-2□□36-□□□□ 3WL1116-2□□36-□□□□ 3WL1120-2□□36-□□□□	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□□36-□□□□ 3WL1210-2□□36-□□□□ 3WL1212-2□□36-□□□□ 3WL1216-2□□36-□□□□ 3WL1220-2□□36-□□□□ 3WL1225-2□□36-□□□□ 3WL1232-2□□36-□□□□	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
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO For further Article No. supplements, page 1/48	1AA2 None

- 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 1/49](#).
- 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 1/14](#).

- 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 1/62](#).
- 5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).
- 6) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 ¹⁾ 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. www.siemens.com/product?ArticleNo.	Basic price per PU		
With guide frames, vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□37-□□□□ 3WL1108-2□□37-□□□□ 3WL1110-2□□37-□□□□ 3WL1112-2□□37-□□□□ 3WL1116-2□□37-□□□□ 3WL1120-2□□37-□□□□	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□□37-□□□□ 3WL1210-2□□37-□□□□ 3WL1212-2□□37-□□□□ 3WL1216-2□□37-□□□□ 3WL1220-2□□37-□□□□ 3WL1225-2□□37-□□□□ 3WL1232-2□□37-□□□□ 3WL1240-2□□37-□□□□	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
With guide frames, connecting flanges								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□38-□□□□ 3WL1108-2□□38-□□□□ 3WL1110-2□□38-□□□□ 3WL1112-2□□38-□□□□ 3WL1116-2□□38-□□□□ 3WL1120-2□□38-□□□□	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□□38-□□□□ 3WL1210-2□□38-□□□□ 3WL1212-2□□38-□□□□ 3WL1216-2□□38-□□□□ 3WL1220-2□□38-□□□□ 3WL1225-2□□38-□□□□ 3WL1232-2□□38-□□□□	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								
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units			AA	Additional price	None		
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI			BB				✓
	ETU25B: Protection functions LSI			CB				✓
	ETU45B: Protection functions LSIN ⁴⁾			EB				✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display			FB				✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display			NB				✓
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ⁵⁾			DG				✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾			EG				✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display			FG				✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display			NG				✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48							

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 1/49](#).

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 1/14](#).

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 1/62](#).

5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

6) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Without guide frames²⁾ (for guide frames, see pages 1/56 to 1/61)									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□35-□□□□ 3WL1108-3□□35-□□□□ 3WL1110-3□□35-□□□□ 3WL1112-3□□35-□□□□ 3WL1116-3□□35-□□□□ 3WL1120-3□□35-□□□□		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	80		3WL1208-3□□35-□□□□ 3WL1210-3□□35-□□□□ 3WL1212-3□□35-□□□□ 3WL1216-3□□35-□□□□ 3WL1220-3□□35-□□□□ 3WL1225-3□□35-□□□□ 3WL1232-3□□35-□□□□ 3WL1240-3□□35-□□□□		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
With guide frames, horizontal main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□36-□□□□ 3WL1108-3□□36-□□□□ 3WL1110-3□□36-□□□□ 3WL1112-3□□36-□□□□ 3WL1116-3□□36-□□□□ 3WL1120-3□□36-□□□□		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	80		3WL1208-3□□36-□□□□ 3WL1210-3□□36-□□□□ 3WL1212-3□□36-□□□□ 3WL1216-3□□36-□□□□ 3WL1220-3□□36-□□□□ 3WL1225-3□□36-□□□□ 3WL1232-3□□36-□□□□		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
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48	

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 1/49](#).

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 1/14](#).

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 1/62](#).

⁵⁾ Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

⁶⁾ For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
With guide frames, vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□37-□□□□ 3WL1108-3□□37-□□□□ 3WL1110-3□□37-□□□□ 3WL1112-3□□37-□□□□ 3WL1116-3□□37-□□□□ 3WL1120-3□□37-□□□□	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	80		3WL1208-3□□37-□□□□ 3WL1210-3□□37-□□□□ 3WL1212-3□□37-□□□□ 3WL1216-3□□37-□□□□ 3WL1220-3□□37-□□□□ 3WL1225-3□□37-□□□□ 3WL1232-3□□37-□□□□ 3WL1240-3□□37-□□□□	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
With guide frames, connecting flanges								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□38-□□□□ 3WL1108-3□□38-□□□□ 3WL1110-3□□38-□□□□ 3WL1112-3□□38-□□□□ 3WL1116-3□□38-□□□□ 3WL1120-3□□38-□□□□	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	80		3WL1208-3□□38-□□□□ 3WL1210-3□□38-□□□□ 3WL1212-3□□38-□□□□ 3WL1216-3□□38-□□□□ 3WL1220-3□□38-□□□□ 3WL1225-3□□38-□□□□ 3WL1232-3□□38-□□□□	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
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48	

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 1/49](#).

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 1/14](#).

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 1/62](#).

5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

6) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.				
Without guide frames²⁾ (for guide frames, see pages 1/56 to 1/61)									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□35-□□□□ 3WL1108-4□□35-□□□□ 3WL1110-4□□35-□□□□ 3WL1112-4□□35-□□□□ 3WL1116-4□□35-□□□□ 3WL1120-4□□35-□□□□		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□□35-□□□□ 3WL1210-4□□35-□□□□ 3WL1212-4□□35-□□□□ 3WL1216-4□□35-□□□□ 3WL1220-4□□35-□□□□ 3WL1225-4□□35-□□□□ 3WL1232-4□□35-□□□□ 3WL1240-4□□35-□□□□		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□□35-□□□□ 3WL1350-4□□35-□□□□ 3WL1363-4□□35-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□36-□□□□ 3WL1108-4□□36-□□□□ 3WL1110-4□□36-□□□□ 3WL1112-4□□36-□□□□ 3WL1116-4□□36-□□□□ 3WL1120-4□□36-□□□□		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□□36-□□□□ 3WL1210-4□□36-□□□□ 3WL1212-4□□36-□□□□ 3WL1216-4□□36-□□□□ 3WL1220-4□□36-□□□□ 3WL1225-4□□36-□□□□ 3WL1232-4□□36-□□□□		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		3WL1340-4□□36-□□□□ 3WL1350-4□□36-□□□□		1 1	1 unit 1 unit	1CA 1CA
Options									
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units				AA	None			
Electronic Trip Units	Versions without ground-fault protection								
	ETU15B: Protection functions LI ⁷⁾				BB				✓
	ETU25B: Protection functions LSI				CB				✓
	ETU45B: Protection functions LSIN ⁴⁾				EB				✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display				FB				✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display				NB				✓
	Versions with ground-fault protection								
	ETU27B: Protection functions LSING ⁵⁾				DG				✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾				EG				✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display				FG				✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display				NG				✓
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48								

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 1/49](#).

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

³⁾ For permissible rated short-time current I_{cs} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, [page 1/14](#).

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 1/62](#).

⁵⁾ Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

⁶⁾ For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
With guide frames, vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□37-□□□□ 3WL1108-4□□37-□□□□ 3WL1110-4□□37-□□□□ 3WL1112-4□□37-□□□□ 3WL1116-4□□37-□□□□ 3WL1120-4□□37-□□□□	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□□37-□□□□ 3WL1210-4□□37-□□□□ 3WL1212-4□□37-□□□□ 3WL1216-4□□37-□□□□ 3WL1220-4□□37-□□□□ 3WL1225-4□□37-□□□□ 3WL1232-4□□37-□□□□ 3WL1240-4□□37-□□□□	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□□37-□□□□ 3WL1350-4□□37-□□□□ 3WL1363-4□□37-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□38-□□□□ 3WL1108-4□□38-□□□□ 3WL1110-4□□38-□□□□ 3WL1112-4□□38-□□□□ 3WL1116-4□□38-□□□□ 3WL1120-4□□38-□□□□	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□□38-□□□□ 3WL1210-4□□38-□□□□ 3WL1212-4□□38-□□□□ 3WL1216-4□□38-□□□□ 3WL1220-4□□38-□□□□ 3WL1225-4□□38-□□□□ 3WL1232-4□□38-□□□□	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□□38-□□□□	1	1 unit	1CA
Options								
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units			AA	None			
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI ⁷⁾			BB			✓	
	ETU25B: Protection functions LSI			CB			✓	
	ETU45B: Protection functions LSIN ⁴⁾			EB			✓	
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display			FB			✓	
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display			NB			✓	
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ⁵⁾			DG			✓	
	ETU45B: Protection functions LSING ⁴⁾⁶⁾			EG			✓	
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display			FG			✓	
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display			NG			✓	
Operating mechanism, auxiliary release, auxiliary switch	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, page 1/48							

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 1/49](#).

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 1/14](#).

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 1/62](#).

5) Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).

6) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

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

1

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/56 to 1/61)								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□35-□□□□ 3WL1220-5□□35-□□□□ 3WL1225-5□□35-□□□□ 3WL1232-5□□35-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		3WL1340-5□□35-□□□□ 3WL1350-5□□35-□□□□ 3WL1363-5□□35-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□36-□□□□ 3WL1220-5□□36-□□□□ 3WL1225-5□□36-□□□□ 3WL1232-5□□36-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	150		3WL1340-5□□36-□□□□ 3WL1350-5□□36-□□□□	1 1	1 unit 1 unit	1CA 1CA
With guide frames, vertical main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□37-□□□□ 3WL1220-5□□37-□□□□ 3WL1225-5□□37-□□□□ 3WL1232-5□□37-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		3WL1340-5□□37-□□□□ 3WL1350-5□□37-□□□□ 3WL1363-5□□37-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁴⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁵⁾	EB ✓
	ETU45B: Protection functions LSIN ⁵⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁵⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁶⁾	DG ✓
	ETU45B: Protection functions LSING ⁵⁾⁷⁾	EG ✓
	ETU45B: Protection functions LSING ⁵⁾⁷⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁵⁾⁷⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO For further Article No. supplements, page 1/48	1AA2 None

- 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 1/49](#).
- 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 1/14](#).

- 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 1/62](#).
- 6) Current transformers for protection of the N conductor are to be ordered separately, [page 1/62](#).
- 7) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), [page 1/62](#).

Air Circuit Breakers

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

4-pole, fixed-mounted versions

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□42-□□□□ 3WL1108-2□□42-□□□□ 3WL1110-2□□42-□□□□ 3WL1112-2□□42-□□□□ 3WL1116-2□□42-□□□□ 3WL1120-2□□42-□□□□	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□□42-□□□□ 3WL1210-2□□42-□□□□ 3WL1212-2□□42-□□□□ 3WL1216-2□□42-□□□□ 3WL1220-2□□42-□□□□ 3WL1225-2□□42-□□□□ 3WL1232-2□□42-□□□□	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
Vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□41-□□□□ 3WL1108-2□□41-□□□□ 3WL1110-2□□41-□□□□ 3WL1112-2□□41-□□□□ 3WL1116-2□□41-□□□□ 3WL1120-2□□41-□□□□	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□□41-□□□□ 3WL1210-2□□41-□□□□ 3WL1212-2□□41-□□□□ 3WL1216-2□□41-□□□□ 3WL1220-2□□41-□□□□ 3WL1225-2□□41-□□□□ 3WL1232-2□□41-□□□□ 3WL1240-2□□41-□□□□	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
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

⁴⁾ For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU			
Front main circuit connection, single hole									
I	630	630	55		3WL1106-2□□43-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□43-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□43-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□43-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□43-□□□□		1	1 unit	1CA
II	800	800	66		3WL1208-2□□43-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□43-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□43-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□43-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□43-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□43-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□43-□□□□		1	1 unit	1CA
Front main circuit connection, double hole									
I	630	630	55		3WL1106-2□□44-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□44-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□44-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□44-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□44-□□□□		1	1 unit	1CA
2000	2000	3WL1120-2□□44-□□□□	1	1 unit	1CA				
II	800	800	66		3WL1208-2□□44-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□44-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□44-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□44-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□44-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□44-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□44-□□□□		1	1 unit	1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

4) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
Horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□42-□□□□ 3WL1108-3□□42-□□□□ 3WL1110-3□□42-□□□□ 3WL1112-3□□42-□□□□ 3WL1116-3□□42-□□□□ 3WL1120-3□□42-□□□□	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	80		3WL1208-3□□42-□□□□ 3WL1210-3□□42-□□□□ 3WL1212-3□□42-□□□□ 3WL1216-3□□42-□□□□ 3WL1220-3□□42-□□□□ 3WL1225-3□□42-□□□□ 3WL1232-3□□42-□□□□	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
Vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□41-□□□□ 3WL1108-3□□41-□□□□ 3WL1110-3□□41-□□□□ 3WL1112-3□□41-□□□□ 3WL1116-3□□41-□□□□ 3WL1120-3□□41-□□□□	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	80		3WL1208-3□□41-□□□□ 3WL1210-3□□41-□□□□ 3WL1212-3□□41-□□□□ 3WL1216-3□□41-□□□□ 3WL1220-3□□41-□□□□ 3WL1225-3□□41-□□□□ 3WL1232-3□□41-□□□□ 3WL1240-3□□41-□□□□	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
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

⁴⁾ For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Front main circuit connection, single hole								
I	630	630	66		3WL1106-3□□43-□□□□		1	1 unit 1CA
	800	800			3WL1108-3□□43-□□□□		1	1 unit 1CA
	1000	1000			3WL1110-3□□43-□□□□		1	1 unit 1CA
	1250	1250			3WL1112-3□□43-□□□□		1	1 unit 1CA
	1600	1600			3WL1116-3□□43-□□□□		1	1 unit 1CA
II	800	800	80		3WL1208-3□□43-□□□□		1	1 unit 1CA
	1000	1000			3WL1210-3□□43-□□□□		1	1 unit 1CA
	1250	1250			3WL1212-3□□43-□□□□		1	1 unit 1CA
	1600	1600			3WL1216-3□□43-□□□□		1	1 unit 1CA
	2000	2000			3WL1220-3□□43-□□□□		1	1 unit 1CA
	2500	2500			3WL1225-3□□43-□□□□		1	1 unit 1CA
	3200	3200			3WL1232-3□□43-□□□□		1	1 unit 1CA
Front main circuit connection, double hole								
I	630	630	66		3WL1106-3□□44-□□□□		1	1 unit 1CA
	800	800			3WL1108-3□□44-□□□□		1	1 unit 1CA
	1000	1000			3WL1110-3□□44-□□□□		1	1 unit 1CA
	1250	1250			3WL1112-3□□44-□□□□		1	1 unit 1CA
	1600	1600			3WL1116-3□□44-□□□□		1	1 unit 1CA
2000	2000	3WL1120-3□□44-□□□□	1	1 unit 1CA				
II	800	800	80		3WL1208-3□□44-□□□□		1	1 unit 1CA
	1000	1000			3WL1210-3□□44-□□□□		1	1 unit 1CA
	1250	1250			3WL1212-3□□44-□□□□		1	1 unit 1CA
	1600	1600			3WL1216-3□□44-□□□□		1	1 unit 1CA
	2000	2000			3WL1220-3□□44-□□□□		1	1 unit 1CA
	2500	2500			3WL1225-3□□44-□□□□		1	1 unit 1CA
	3200	3200			3WL1232-3□□44-□□□□		1	1 unit 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

4) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU			
Horizontal main circuit connection									
I	630	630	85	d	3WL1106-4□□42-□□□□		1	1 unit	1CA
	800	800			3WL1108-4□□42-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-4□□42-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-4□□42-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-4□□42-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-4□□42-□□□□		1	1 unit	1CA
II	800	800	100	d	3WL1208-4□□42-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-4□□42-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-4□□42-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-4□□42-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-4□□42-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-4□□42-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-4□□42-□□□□		1	1 unit	1CA
III	4000	4000	100	d	3WL1340-4□□42-□□□□		1	1 unit	1CA
	5000	5000			3WL1350-4□□42-□□□□		1	1 unit	1CA
Vertical main circuit connection									
I	630	630	85	d	3WL1106-4□□41-□□□□		1	1 unit	1CA
	800	800			3WL1108-4□□41-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-4□□41-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-4□□41-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-4□□41-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-4□□41-□□□□		1	1 unit	1CA
II	800	800	100	d	3WL1208-4□□41-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-4□□41-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-4□□41-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-4□□41-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-4□□41-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-4□□41-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-4□□41-□□□□		1	1 unit	1CA
III	4000	4000	100	d	3WL1340-4□□41-□□□□		1	1 unit	1CA
	5000	5000			3WL1350-4□□41-□□□□		1	1 unit	1CA
	6300	6300			3WL1363-4□□41-□□□□		1	1 unit	1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁵⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

2) For permissible rated short-time current I_{cs} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see page 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

4) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 $I_{n \max}$	Rated current ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU		
Front main circuit connection, single hole								
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□43-□□□□ 3WL1210-4□□43-□□□□ 3WL1212-4□□43-□□□□ 3WL1216-4□□43-□□□□ 3WL1220-4□□43-□□□□ 3WL1225-4□□43-□□□□ 3WL1232-4□□43-□□□□	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□□43-□□□□	1	1 unit	1CA
Front main circuit connection, double hole								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□44-□□□□ 3WL1108-4□□44-□□□□ 3WL1110-4□□44-□□□□ 3WL1112-4□□44-□□□□ 3WL1116-4□□44-□□□□ 3WL1120-4□□44-□□□□	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□□44-□□□□ 3WL1210-4□□44-□□□□ 3WL1212-4□□44-□□□□ 3WL1216-4□□44-□□□□ 3WL1220-4□□44-□□□□ 3WL1225-4□□44-□□□□ 3WL1232-4□□44-□□□□	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□□44-□□□□	1	1 unit	1CA
Options								
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units				AA	None		
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI ⁵⁾				BB			✓
	ETU25B: Protection functions LSI				CB			✓
	ETU45B: Protection functions LSIN ³⁾				EB			✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display				FB			✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display				NB			✓
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ³⁾				DG			✓
	ETU45B: Protection functions LSING ³⁾⁴⁾				EG			✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display				FG			✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display				NG			✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48							

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

4) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□42-□□□□ 3WL1220-5□□42-□□□□ 3WL1225-5□□42-□□□□ 3WL1232-5□□42-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	130		3WL1340-5□□42-□□□□ 3WL1350-5□□42-□□□□	1 1	1 unit 1 unit	1CA 1CA
Vertical main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□41-□□□□ 3WL1220-5□□41-□□□□ 3WL1225-5□□41-□□□□ 3WL1232-5□□41-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	130		3WL1340-5□□41-□□□□ 3WL1350-5□□41-□□□□ 3WL1363-5□□41-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ³⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

2) For permissible rated short-time current I_{cs} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see page 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

5) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ 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
					Article No. www.siemens.com/ product?Article.No.	Basic price per PU		
A		A	kA	d				

Without guide frames²⁾
 (for guide frames, see pages 1/56 to 1/61)

I	630	630	55	3WL1106-2□□45-□□□□	1	1 unit	1CA
	800	800		3WL1108-2□□45-□□□□	1	1 unit	1CA
	1000	1000		3WL1110-2□□45-□□□□	1	1 unit	1CA
	1250	1250		3WL1112-2□□45-□□□□	1	1 unit	1CA
	1600	1600		3WL1116-2□□45-□□□□	1	1 unit	1CA
	2000	2000		3WL1120-2□□45-□□□□	1	1 unit	1CA
II	800	800	66	3WL1208-2□□45-□□□□	1	1 unit	1CA
	1000	1000		3WL1210-2□□45-□□□□	1	1 unit	1CA
	1250	1250		3WL1212-2□□45-□□□□	1	1 unit	1CA
	1600	1600		3WL1216-2□□45-□□□□	1	1 unit	1CA
	2000	2000		3WL1220-2□□45-□□□□	1	1 unit	1CA
	2500	2500		3WL1225-2□□45-□□□□	1	1 unit	1CA
	3200	3200		3WL1232-2□□45-□□□□	1	1 unit	1CA
	4000	4000		3WL1240-2□□45-□□□□	1	1 unit	1CA

With guide frames, horizontal main circuit connection

I	630	630	55	3WL1106-2□□46-□□□□	1	1 unit	1CA
	800	800		3WL1108-2□□46-□□□□	1	1 unit	1CA
	1000	1000		3WL1110-2□□46-□□□□	1	1 unit	1CA
	1250	1250		3WL1112-2□□46-□□□□	1	1 unit	1CA
	1600	1600		3WL1116-2□□46-□□□□	1	1 unit	1CA
	2000	2000		3WL1120-2□□46-□□□□	1	1 unit	1CA
II	800	800	66	3WL1208-2□□46-□□□□	1	1 unit	1CA
	1000	1000		3WL1210-2□□46-□□□□	1	1 unit	1CA
	1250	1250		3WL1212-2□□46-□□□□	1	1 unit	1CA
	1600	1600		3WL1216-2□□46-□□□□	1	1 unit	1CA
	2000	2000		3WL1220-2□□46-□□□□	1	1 unit	1CA
	2500	2500		3WL1225-2□□46-□□□□	1	1 unit	1CA
	3200	3200		3WL1232-2□□46-□□□□	1	1 unit	1CA

Options

		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG ✓
ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG ✓	
ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG ✓	
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/48.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

5) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.				
With guide frames, vertical main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□47-□□□□ 3WL1108-2□□47-□□□□ 3WL1110-2□□47-□□□□ 3WL1112-2□□47-□□□□ 3WL1116-2□□47-□□□□ 3WL1120-2□□47-□□□□		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□□47-□□□□ 3WL1210-2□□47-□□□□ 3WL1212-2□□47-□□□□ 3WL1216-2□□47-□□□□ 3WL1220-2□□47-□□□□ 3WL1225-2□□47-□□□□ 3WL1232-2□□47-□□□□ 3WL1240-2□□47-□□□□		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
With guide frames, connecting flanges									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□48-□□□□ 3WL1108-2□□48-□□□□ 3WL1110-2□□48-□□□□ 3WL1112-2□□48-□□□□ 3WL1116-2□□48-□□□□ 3WL1120-2□□48-□□□□		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□□48-□□□□ 3WL1210-2□□48-□□□□ 3WL1212-2□□48-□□□□ 3WL1216-2□□48-□□□□ 3WL1220-2□□48-□□□□ 3WL1225-2□□48-□□□□ 3WL1232-2□□48-□□□□		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
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	✓
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ⁴⁾	✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/48	

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

5) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Without guide frames²⁾ (for guide frames, see pages 1/56 to 1/61)									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□45-□□□□ 3WL1108-3□□45-□□□□ 3WL1110-3□□45-□□□□ 3WL1112-3□□45-□□□□ 3WL1116-3□□45-□□□□ 3WL1120-3□□45-□□□□		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	80		3WL1208-3□□45-□□□□ 3WL1210-3□□45-□□□□ 3WL1212-3□□45-□□□□ 3WL1216-3□□45-□□□□ 3WL1220-3□□45-□□□□ 3WL1225-3□□45-□□□□ 3WL1232-3□□45-□□□□ 3WL1240-3□□45-□□□□		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
With guide frames, horizontal main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□46-□□□□ 3WL1108-3□□46-□□□□ 3WL1110-3□□46-□□□□ 3WL1112-3□□46-□□□□ 3WL1116-3□□46-□□□□ 3WL1120-3□□46-□□□□		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	80		3WL1208-3□□46-□□□□ 3WL1210-3□□46-□□□□ 3WL1212-3□□46-□□□□ 3WL1216-3□□46-□□□□ 3WL1220-3□□46-□□□□ 3WL1225-3□□46-□□□□ 3WL1232-3□□46-□□□□		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
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

5) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
With guide frames, vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□47-□□□□ 3WL1108-3□□47-□□□□ 3WL1110-3□□47-□□□□ 3WL1112-3□□47-□□□□ 3WL1116-3□□47-□□□□ 3WL1120-3□□47-□□□□	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	80		3WL1208-3□□47-□□□□ 3WL1210-3□□47-□□□□ 3WL1212-3□□47-□□□□ 3WL1216-3□□47-□□□□ 3WL1220-3□□47-□□□□ 3WL1225-3□□47-□□□□ 3WL1232-3□□47-□□□□ 3WL1240-3□□47-□□□□	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
With guide frames, connecting flanges								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□48-□□□□ 3WL1108-3□□48-□□□□ 3WL1110-3□□48-□□□□ 3WL1112-3□□48-□□□□ 3WL1116-3□□48-□□□□ 3WL1120-3□□48-□□□□	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	80		3WL1208-3□□48-□□□□ 3WL1210-3□□48-□□□□ 3WL1212-3□□48-□□□□ 3WL1216-3□□48-□□□□ 3WL1220-3□□48-□□□□ 3WL1225-3□□48-□□□□ 3WL1232-3□□48-□□□□	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
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

5) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ 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
					Article No. www.siemens.com/ product?Article No.	Basic price per PU		
A		A	kA	d				
Without guide frames²⁾ (for guide frames, see pages 1/56 to 1/61)								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□45-□□□□ 3WL1108-4□□45-□□□□ 3WL1110-4□□45-□□□□ 3WL1112-4□□45-□□□□ 3WL1116-4□□45-□□□□ 3WL1120-4□□45-□□□□	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□□45-□□□□ 3WL1210-4□□45-□□□□ 3WL1212-4□□45-□□□□ 3WL1216-4□□45-□□□□ 3WL1220-4□□45-□□□□ 3WL1225-4□□45-□□□□ 3WL1232-4□□45-□□□□ 3WL1240-4□□45-□□□□	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□□45-□□□□ 3WL1350-4□□45-□□□□ 3WL1363-4□□45-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□46-□□□□ 3WL1108-4□□46-□□□□ 3WL1110-4□□46-□□□□ 3WL1112-4□□46-□□□□ 3WL1116-4□□46-□□□□ 3WL1120-4□□46-□□□□	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□□46-□□□□ 3WL1210-4□□46-□□□□ 3WL1212-4□□46-□□□□ 3WL1216-4□□46-□□□□ 3WL1220-4□□46-□□□□ 3WL1225-4□□46-□□□□ 3WL1232-4□□46-□□□□	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		3WL1340-4□□46-□□□□ 3WL1350-4□□46-□□□□	1 1	1 unit 1 unit	1CA 1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	

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 1/49.

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

3) For permissible rated short-time current I_{cs} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see page 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

5) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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 ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H	Ⓜ	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
With guide frames, vertical main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□47-□□□□ 3WL1108-4□□47-□□□□ 3WL1110-4□□47-□□□□ 3WL1112-4□□47-□□□□ 3WL1116-4□□47-□□□□ 3WL1120-4□□47-□□□□		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□□47-□□□□ 3WL1210-4□□47-□□□□ 3WL1212-4□□47-□□□□ 3WL1216-4□□47-□□□□ 3WL1220-4□□47-□□□□ 3WL1225-4□□47-□□□□ 3WL1232-4□□47-□□□□ 3WL1240-4□□47-□□□□		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□□47-□□□□ 3WL1350-4□□47-□□□□ 3WL1363-4□□47-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□48-□□□□ 3WL1108-4□□48-□□□□ 3WL1110-4□□48-□□□□ 3WL1112-4□□48-□□□□ 3WL1116-4□□48-□□□□ 3WL1120-4□□48-□□□□		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□□48-□□□□ 3WL1210-4□□48-□□□□ 3WL1212-4□□48-□□□□ 3WL1216-4□□48-□□□□ 3WL1220-4□□48-□□□□ 3WL1225-4□□48-□□□□ 3WL1232-4□□48-□□□□		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□□48-□□□□		1	1 unit	1CA
Options									
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units				AA		Additional price None		
Electronic Trip Units	Versions without ground-fault protection								
	ETU15B: Protection functions LI ⁶⁾				BB				✓
	ETU25B: Protection functions LSI				CB				✓
	ETU45B: Protection functions LSIN ⁴⁾				EB				✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display				FB				✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display				NB				✓
	Versions with ground-fault protection								
	ETU27B: Protection functions LSING ⁴⁾				DG				✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾				EG				✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display				FG				✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display				NG				✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48								

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 1/49.

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 1/14.

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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.

5) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

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

1

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ 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. www.siemens.com/ product?Article No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/56 to 1/61)								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□45-□□□□ 3WL1220-5□□45-□□□□ 3WL1225-5□□45-□□□□ 3WL1232-5□□45-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	130		3WL1340-5□□45-□□□□ 3WL1350-5□□45-□□□□ 3WL1363-5□□45-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□46-□□□□ 3WL1220-5□□46-□□□□ 3WL1225-5□□46-□□□□ 3WL1232-5□□46-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	130		3WL1340-5□□46-□□□□ 3WL1350-5□□46-□□□□	1 1	1 unit 1 unit	1CA 1CA
With guide frames, vertical main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□47-□□□□ 3WL1220-5□□47-□□□□ 3WL1225-5□□47-□□□□ 3WL1232-5□□47-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	130		3WL1340-5□□47-□□□□ 3WL1350-5□□47-□□□□ 3WL1363-5□□47-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁴⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁵⁾	EB ✓
	ETU45B: Protection functions LSIN ⁵⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁵⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁵⁾ ⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁵⁾ ⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁵⁾ ⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	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 1/48	1AA2 None

- 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 1/49.
- 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 1/14.

- 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 1/62. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/51.
- 6) For ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/62.

Air Circuit Breakers

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

Options

1

Selection and ordering data

				Article No. supplement	Additional price
				3WL1...-.....- □□□□	
Operating mechanisms					
Manual operating mechanism with mechanical closing				1	None
Manual operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% OP					
50/60 Hz V AC	V DC				
110	110 ... 125			2	✓
230	220			3	✓
Manual/motorized operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% OP					
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	✓
Note					
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, see page 1/50 .					
1st auxiliary release					
Type	Condition	U_s 50/60 Hz V AC	U_s V DC		
Without 1st auxiliary releases	--	--	--	A	None
Shunt release suitable for uninterrupted duty, 100% OP	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	✓
2nd auxiliary release					
Type	Condition	U_s 50/60 Hz V AC	U_s V DC		
Without 2nd auxiliary releases	--	--	--	A	None
Shunt release suitable for uninterrupted duty, 100% OP	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	✓
Undervoltage release, instantaneous (≤ 80 ms), short-delay (≤ 200 ms)	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	✓
Undervoltage release, can be delayed between 0.2 s and 3.2 s	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	✓		
Auxiliary switches					
1st auxiliary switch block					
2 NO + 2 NC				2	None
1st + 2nd auxiliary switch block					
4 NO + 4 NC				4	✓
6 NO + 2 NC				7	✓
5 NO + 3 NC				8	✓

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

□ □ □ +...+...

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 with high breaking capacity H (8 th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1150 V AC, order code "A15".	I ¹⁾ II ¹⁾²⁾	Up to 2000 A	A 0 5		✓	
		Up to 2000 A	A 0 5		✓	
		2500 A	A 0 5		✓	
	III ¹⁾³⁾	3200 A / 4000 A	A 0 5		✓	✓
		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 (8 th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1000 V AC, order code "A05".	II ²⁾	Up to 2000 A	A 1 5		✓	
		2500 A	A 1 5		✓	
		3200 A	A 1 5		✓	✓
		4000 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 (8 th 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 ⁴⁾⁵⁾						
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			
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				
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		

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

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

3) Not necessary for circuit breakers with very high breaking capacity C as these circuit breakers can be used as standard up to 1150 V AC.

4) Front connections are tinned as standard.

5) 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	
Indication/operator control elements, door sealing frames					
5-digit mechanical operating cycles counter¹⁾			C 0 1	✓	
Electrical ON button S10 in the operator panel²⁾ Possible only for circuit breakers with closing coil.	Button with sealing cap		C 1 1	✓	
	Key operation with CES lock		C 1 2	✓	
Spring charged signaling switch²⁾ (S21)	1 NO contact		C 2 0	✓	
Ready-to-close signaling switches (S20)	1 NO contact		C 2 2	✓	
Signaling switches²⁾	For the first auxiliary release (S22)		C 2 6	✓	
	For the second auxiliary release (S23)		C 2 7	✓	
Motor shutdown switch in the operator panel³⁾ (S12)			S 2 5	✓	
EMERGENCY-STOP pushbuttons	Mushroom pushbutton instead of the mechanical OFF pushbutton		S 2 4	✓	
Door sealing frames			T 4 0	✓	
Reclosing lockout and remote resets					
Automatic reset of the reclosing lockout			K 0 1	✓	
1st tripped signaling switch²⁾⁴⁾ (S24)	1 CO contact		K 0 7	✓	
2nd tripped signaling switch²⁾⁴⁾⁸⁾ (S25)	1 NO contact		K 0 6	✓	
Type	50/60 Hz V AC	V DC		✓	
Remote reset solenoid for displays and reset buttons including automatic reset of the reclosing lockout	--	24	K 1 0	✓	
	--	48	K 1 1	✓	
	120	125	K 1 2	✓	
	208 ... 250	208 ... 250	K 1 3	✓	
Motorized operating mechanism and closing/opening coils					
Type	Conditions	Motor 50/60 Hz V AC	V DC		
Motorized operating mechanism	Only possible if the 13 th digit of the Article No. = "1"	--	24 ... 30	M 0 1	✓
		--	48 ... 60	M 0 3	✓
		110 ... 127	110 ... 125	M 0 5	✓
		208 ... 240	220 ... 250	M 0 6	✓
Type	Conditions	Activation solenoids 50/60 Hz V AC	V DC		
Closing coil suitable for uninterrupted duty, 100% OP	Only possible if the 13 th digit of the Article No. = "1"	--	24	M 2 1	✓
		--	30	M 2 2	✓
		--	48	M 2 3	✓
		--	60	M 2 4	✓
		110 ... 127	110 ... 125	M 2 5	✓
		208 ... 240	220 ... 250	M 2 6	✓
Type	Conditions	Activation solenoids 50/60 Hz V AC	V DC		
Closing coil⁵⁾ not suitable for uninterrupted duty, 5% OP, synchronizable	Only possible if the 13 th digit of the Article No. = "1"	--	24	M 3 1	✓
		--	48	M 3 3	✓
		110 ... 127	110 ... 125	M 3 5	✓
		208 ... 240	220 ... 250	M 3 6	✓
Type	Conditions	Activation solenoids 50/60 Hz V AC	V DC		
Opening coil (shunt release)⁶⁾⁷⁾	Not suitable for uninterrupted duty, 5% OP, synchronizable	--	24	M 4 1	✓
		--	48	M 4 3	✓
		110 ... 127	110 ... 125	M 4 5	✓
		208 ... 240	220 ... 250	M 4 6	✓

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
Interlocks, covers, position signaling switches (for fixed-mounted version)					
Mechanical interlocking (interlocking module with Bowden cable 2 m)	Fixed-mounted circuit breakers			S 5 5	✓
Interlocks, covers, position signaling switches (for withdrawable version)					
Mechanical interlocking (interlocking module with Bowden cable 2 m)	Variant				
	For withdrawable circuit breakers with guide frame			R 5 5	✓
	For guide frames			R 5 6	✓
	For withdrawable circuit breakers			R 5 7	✓
Arc chute covers 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	Number of poles	Size			
	3-pole	I		R 1 0	✓
		II		R 1 0	✓
		III		R 1 0	✓
	4-pole	I		R 1 0	✓
		II		R 1 0	✓
		III		R 1 0	✓
Shutters 2-part lockable with padlocks ¹⁾	Number of poles	Size			
	3-pole	I		R 2 1	✓
		II		R 2 1	✓
		III		R 2 1	✓
	4-pole	I		R 2 1	✓
		II		R 2 1	✓
		III		R 2 1	✓
Position signaling switches for guide frames	Connected position	Test position	Disconnected position		
	1 CO	1 CO	1 CO	R 1 5	✓
	3 CO	2 CO	1 CO	R 1 6	✓
Communication and metering functions					
Breaker status sensor (BSS)				F 0 1	✓
PROFIBUS DP communications interface²⁾	Including COM15 and Breaker Status Sensor (BSS)			F 0 2	✓
MODBUS RTU communications interface²⁾	Including COM16 and Breaker Status Sensor (BSS)			F 1 2	✓
Metering function Plus (without PROFIBUS/MODBUS communications interface³⁾)				F 0 5	✓
Overload and short-circuit protection for neutral conductors					
Internal current transformer for N conductor	Size				
Only possible with 4-pole circuit breakers with ETU27B to ETU76B	I			F 2 3	✓
	II			F 2 3	✓
	III			F 2 3	✓
EMC filters					
EMC filters				F 3 1	✓
	<ul style="list-style-type: none"> 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 				

¹⁾ Padlocks not included in scope of supply.

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

³⁾ Additional voltage transformers are required for connection of the metering function *Plus*, see page 1/71.

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
Locking devices (for fixed-mounted versions and withdrawable versions)				
Locking devices against unauthorized closing, in the operator panel 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 ¹⁾	S 0 5		✓
	Assembly kit for padlocks ²⁾	S 0 7		✓
	Made by Ronis	S 0 8		✓
	Made by Profalux	S 0 9		✓
EMERGENCY-STOP pushbuttons	Mushroom pushbutton instead of the mechanical OFF pushbutton	S 2 4		✓
Locking devices for operating mechanism handles with padlock²⁾		S 3 3		✓
Locking devices (for withdrawable version)				
Locking devices against unauthorized closing, for withdrawable circuit breakers 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		✓
Locking devices to prevent movement of the withdrawable circuit breakers 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		✓
Locking mechanisms (for fixed-mounted versions)				
Locking mechanism Not possible in combination with order codes "R81", "R85" or "R86".	To prevent opening of the cabinet door in ON position	S 3 0		✓
Locking mechanisms (for withdrawable version)				
Locking mechanism 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 ³⁾⁵⁾	R 4 0		✓
	To prevent movement with the cabinet door open ⁴⁾	R 5 0		✓
Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position , 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		✓
Connection methods for auxiliary conductors (for fixed-mounted and withdrawable versions)				
Connections for screwless terminals (tension spring)	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

□□□ +...+...

Additional price

For withdrawable circuit breakers with guide frames or for guide frames ¹⁾				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: ^{1) 2)} 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: ¹⁾ 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: ^{1) 2)} 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	✓	✓	
III	Up to 5000 A	P 1 8			
Connection methods for main connections	Size	Rated current I_n			
Top: ¹⁾ 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	✓	✓	
III	Up to 5000 A	P 2 3			
Connection methods for main connections	Size	Rated current I_n			
Top: ¹⁾ 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	✓	✓	

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

²⁾ 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: ¹⁾ 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 ²⁾	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		✓	✓	

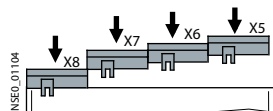
¹⁾ Not for 3WL1 size I with high breaking capacity H and circuit breakers with very high breaking capacity C

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

For ordering the auxiliary supply connectors, see under "Accessories and spare parts, Guide frames for AC circuit breakers/non-automatic air circuit breakers", page 1/56 to page 1/61 and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/67.

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. www.siemens.com/ product?Article.No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	kA	d					
Front main circuit connection, single hole								
I	1000	... 66		3WL9211-1AA□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AA□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AA□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AA□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AA□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole								
I	1000	... 66		3WL9211-1AB□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AB□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AB□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AB□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AB□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AB□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection								
I	1000	... 66		3WL9211-1AC□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AC□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AC□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AC□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AC□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AC□□-□□A1		1	1 unit	1CA
	3200	... 130		3WL9212-5AC□□-□□C1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AC□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9213-7AC□□-□□A1		1	1 unit	1CA
	4000	... 150		3WL9213-6AC□□-□□C1		1	1 unit	1CA
	5000	... 150		3WL9213-7AC□□-□□C1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors	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 1/55.								
Type of auxiliary circuit connections	None ²⁾			0				None
	With screw connection (SIGUT, standard)			1				✓
	With screwless connection method (tension spring)			2				✓
Position signaling switches	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				✓
Shutters	None			A				None
	With shutter, 2-part, lockable	Size I		B				✓
		Size II		B				✓
		Size III		B				✓

¹⁾ 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.

²⁾ 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
Rated voltage 1000 V AC and 690 V IT networks		
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, not necessary with circuit breakers with very high breaking capacity	A 0 5	✓
Rated voltage 1150 V AC		
Size II, except breaking capacity C and 4000 A (breaking capacity H)	A 1 5	✓
Rated voltage 690 V AC (+ 20%)		
Size I (breaking capacity H)	A 1 6	✓
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection		
Size I	A 0 8	✓
Size II	A 0 8	✓
Size III	A 0 8	✓
Notes		
<ul style="list-style-type: none"> • For vertical main circuit connection and main circuit connection connecting flange, see the following page. • All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see page 1/49 to page 1/54. 		

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. www.siemens.com/ product?Article No.				
Vertical main circuit connection								
I	1000	... 66		3WL9211-1AD□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AD□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AD□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AD□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AD□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AD□□-□□A1		1	1 unit	1CA
	3200	... 130		3WL9212-5AD□□-□□C1		1	1 unit	1CA
	4000	... 100		3WL9212-6AD□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AD□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9213-7AD□□-□□A1		1	1 unit	1CA
	6300	... 100		3WL9213-8AD□□-□□A1		1	1 unit	1CA
	4000	... 150		3WL9213-6AD□□-□□C1		1	1 unit	1CA
	5000	... 150		3WL9213-7AD□□-□□C1		1	1 unit	1CA
	6300	... 150		3WL9213-8AD□□-□□C1		1	1 unit	1CA
Main circuit connection connecting flanges								
I	1000	... 66		3WL9211-1AE□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AE□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AE□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AE□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AE□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AE□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AE□□-□□A1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors					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 1/55.								
Type of auxiliary circuit connections								
None ⁴⁾				0		None		
With screw connection (SIGUT, standard)				1		✓		
With screwless connection method (tension spring)				2		✓		
Position signaling switches								
None ⁴⁾				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		✓		
Shutters								
None				A		None		
With shutter, Size I				B		✓		
2-part, Size II				B		✓		
lockable, Size III				B		✓		
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).					3WL921-.....-Z			Additional price
					□ □ □			
Rated voltage 1000 V AC and 690 V IT networks								
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, not necessary with circuit breakers with very high breaking capacity					A 0 5			✓
Rated voltage 1150 V AC								
Size II, except breaking capacity C and 4000 A (breaking capacity H)					A 1 5			✓
Rated voltage 690 V AC (+ 20%)								
Size I (breaking capacity H)					A 1 6			✓
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection								
Size I					A 0 8			✓
Size II					A 0 8			✓
Size III					A 0 8			✓
Notes								
<ul style="list-style-type: none"> For vertical main circuit connection and main circuit connection connecting flange, see the following page. All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see page 1/49 to page 1/54. 								

1) 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.

2) Front connections are tinned as standard.

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) 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

Size	Max. rated circuit breaker current $I_n \text{ max}$ A	Breaking capacity $I_{cu} = I_{cs}$ kA	SD d	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Front main circuit connection, single hole								
I	1000	... 66		3WL9211-1BA□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BA□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BA□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BA□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BA□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole								
I	1000	... 66		3WL9211-1BB□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BB□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BB□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BB□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BB□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BB□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection								
I	1000	... 66		3WL9211-1BC□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BC□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BC□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BC□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BC□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BC□□-□□A1		1	1 unit	1CA
	3200	... 130		3WL9212-5BC□□-□□C1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BC□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9213-7BC□□-□□A1		1	1 unit	1CA
	4000	... 130		3WL9213-6BC□□-□□C1		1	1 unit	1CA
	5000	... 130		3WL9213-7BC□□-□□C1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors	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 1/55.								
Type of auxiliary circuit connections	None ²⁾			0				None
	With screw connection (SIGUT, standard)			1				✓
	With screwless connection method (tension spring)			2				✓
Position signaling switches	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				✓
Shutters	None			A				None
	With shutter, 2-part, lockable	Size I		B				✓
		Size II		B				✓
		Size III		B				✓

¹⁾ 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.

²⁾ 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

	Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	3WL921-.....-Z □ □ □	Additional price
Rated voltage 1000 V AC and 690 V IT networks			
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, not necessary with circuit breakers with very high breaking capacity		A 0 5	✓
Rated voltage 1150 V AC			
Size II, except breaking capacity C and 4000 A (breaking capacity H)		A 1 5	✓
Rated voltage 690 V AC (+ 20%)			
Size I (breaking capacity H)		A 1 6	✓
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection			
Size I		A 0 8	✓
Size II		A 0 8	✓
Size III		A 0 8	✓
Notes			
<ul style="list-style-type: none"> For vertical main circuit connection and main circuit connection connecting flange, see the following page. All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see page 1/49 to page 1/54. 			

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

1

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. www.siemens.com/ product?Article No.				
Vertical main circuit connection								
I	1000	... 66		3WL9211-1BD□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BD□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BD□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BD□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BD□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BD□□-□□A1		1	1 unit	1CA
	3200	... 130		3WL9212-5BD□□-□□C1		1	1 unit	1CA
	4000	... 100		3WL9212-6BD□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BD□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9213-7BD□□-□□A1		1	1 unit	1CA
	6300	... 100		3WL9213-8BD□□-□□A1		1	1 unit	1CA
	4000	... 130		3WL9213-6BD□□-□□C1		1	1 unit	1CA
	5000	... 130		3WL9213-7BD□□-□□C1		1	1 unit	1CA
	6300	... 130		3WL9213-8BD□□-□□C1		1	1 unit	1CA
Main circuit connection connecting flanges								
I	1000	... 66		3WL9211-1BE□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BE□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BE□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BE□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BE□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BE□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BE□□-□□A1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors								Additional price
None ⁴⁾				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 1/55.								
Type of auxiliary circuit connections								
None				0				None
With screw connection (SIGUT, standard)				1				✓
With screwless connection method (tension spring)				2				✓
Position signaling switches								
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				✓
Shutters								
None				A				None
With shutter, 2-part, lockable				B				✓
				B				✓
				B				✓
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).						3WL921-.....-Z		Additional price
						□ □ □		
Rated voltage 1000 V AC and 690 V IT networks								
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, not necessary with circuit breakers with very high breaking capacity						A 0 5		✓
Rated voltage 1150 V AC								
Size II, except breaking capacity C and 4000 A (breaking capacity H)						A 1 5		✓
Rated voltage 690 V AC (+ 20%)								
Size I (breaking capacity H)						A 1 6		✓
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection								
Size I						A 0 8		✓
Size II						A 0 8		✓
Size III						A 0 8		✓
Notes								
<ul style="list-style-type: none"> For vertical main circuit connection and main circuit connection connecting flange, see the following page. All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see page 1/49 to page 1/54. 								

1) 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.
2) Front connections are tinned as standard.

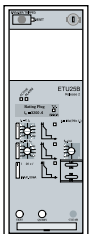



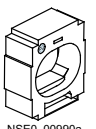
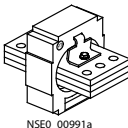
3) The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.
4) Can only be selected if the number of auxiliary supply connectors = 0.

Air Circuit Breakers

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

Accessories and spare parts


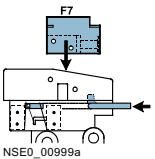

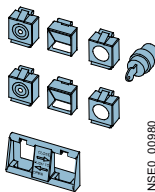
1

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Protective device with device holder and optional metering function¹⁾						
 NSE0_01610b						
Type	With protection function	Metering function				
ETU15B	LI	None	3WL9311-5AA00-0AA2	1	1 unit	1CA
ETU25B	LSI	None	3WL9312-5AA00-0AA2	1	1 unit	1CA
ETU27B	LSING	None	3WL9312-7AA00-0AA2	1	1 unit	1CA
ETU45B (without display)	LSIN(G)	None	3WL9314-5AA00-0AA2	1	1 unit	1CA
		With metering function <i>Plus</i>	3WL9314-5AA20-0AA2	1	1 unit	1CA
ETU76B	LSIN(G)	None	3WL9317-6AA00-0AA2	1	1 unit	1CA
		With metering function <i>Plus</i>	3WL9317-6AA20-0AA2	1	1 unit	1CA
Rating plugs²⁾						
 NSE0_00992b	Size	Rated current I_n A				
3WL9111-0AA64-0AA0	I, II	250	3WL9111-0AA51-0AA0	1	1 unit	1CA
		315	3WL9111-0AA52-0AA0	1	1 unit	1CA
		400	3WL9111-0AA53-0AA0	1	1 unit	1CA
		500	3WL9111-0AA54-0AA0	1	1 unit	1CA
		630	3WL9111-0AA55-0AA0	1	1 unit	1CA
	800	3WL9111-0AA56-0AA0	1	1 unit	1CA	
	1000	3WL9111-0AA57-0AA0	1	1 unit	1CA	
I, II, III	1250	3WL9111-0AA58-0AA0	1	1 unit	1CA	
	1600	3WL9111-0AA61-0AA0	1	1 unit	1CA	
	2000	3WL9111-0AA62-0AA0	1	1 unit	1CA	
II, III	2500	3WL9111-0AA63-0AA0	1	1 unit	1CA	
	3200	3WL9111-0AA64-0AA0	1	1 unit	1CA	
	4000	3WL9111-0AA65-0AA0	1	1 unit	1CA	
III	5000	3WL9111-0AA66-0AA0	1	1 unit	1CA	
	6300	3WL9111-0AA67-0AA0	1	1 unit	1CA	
Ground-fault modules³⁾						
 NSE0_01027a	Versions					
3WL9111-0AT53-0AA0	• GFM AT 45B (only for ETU45B) alarm and tripping		3WL9111-0AT53-0AA0	1	1 unit	1CA
	• GFM AT 55B-76B (only for ETU76B) alarm and tripping		3WL9111-0AT56-0AA0	1	1 unit	1CA
Displays						
 NSE0_01609	• For ETU45B		3WL9111-0AT81-0AA0	1	1 unit	1CA
	• 4-line					
3WL9111-0AT81-0AA0						
Internal current transformers for N conductor						
 NSE0_00990a	Including wiring kit					
3WL9111-0AA2-0AA0	ETU Release 2	Size				
	--	I	3WL9111-0AA11-0AA0	1	1 unit	1CA
		II	3WL9111-0AA12-0AA0	1	1 unit	1CA
	III	3WL9111-0AA13-0AA0	1	1 unit	1CA	
✓	I	3WL9111-0AA14-0AA0	1	1 unit	1CA	
	II	3WL9111-0AA15-0AA0	1	1 unit	1CA	
	III	3WL9111-0AA16-0AA0	1	1 unit	1CA	
External current transformers for N conductor						
 NSE0_00991a	For ground fault protection with "vectorial summation current formation" measuring method for 3-pole circuit breakers					
3WL9111-0AA3-0AA0	Copper connection pieces	Size				
	--	I	3WL9111-0AA21-0AA0	1	1 unit	1CA
		II	3WL9111-0AA22-0AA0	1	1 unit	1CA
	III	3WL9111-0AA23-0AA0	1	1 unit	1CA	
✓	I	3WL9111-0AA31-0AA0	1	1 unit	1CA	
	II	3WL9111-0AA32-0AA0	1	1 unit	1CA	
	III	3WL9111-0AA33-0AA0	1	1 unit	1CA	
EMC filters						
• 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						
• Not for ETU Release 2			3WL9111-0AK32-0AA0	1	1 unit	1CA
• Only for ETU Release 2			3WL9111-0AK34-0AA0	1	1 unit	1CA

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

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

³⁾ For direct measurement of the ground-fault current, e.g. in the neutral 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.

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
More accessories for Electronic Trip Units						
  		Sealable and lockable covers				
		Versions				
		<ul style="list-style-type: none"> For ETU15B to ETU45B For ETU76 	3WL9111-0AT45-0AA0 3WL9111-0AT46-0AA0		1 1 unit	1CA
		Automatic reset of the reclosing lockout	3WL9111-0AK21-0AA0		1 1 unit	1CA
		Spare part for option K01 , see "-Z" + order code, page 1/50 .				
		Remote reset solenoids¹⁾				
		<ul style="list-style-type: none"> For mechanical tripped indicator Spare part for options K10 to K13, see "-Z" + order code, page 1/50. 				
		Note				
		Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 also needed.				
		Versions				
	<ul style="list-style-type: none"> 24 V DC 48 V DC 120 V AC/125 V DC 208-250 V AC/208-250 V DC 	3WL9111-0AK03-0AA0 3WL9111-0AK04-0AA0 3WL9111-0AK05-0AA0 3WL9111-0AK06-0AA0		1 1 unit	1CA	
	Retrofittable internal CubicleBUS wiring for connection to terminal X8	3WL9111-0AK30-0AA0		1 1 unit	1CA	
	<ul style="list-style-type: none"> For ETU45B and ETU76B With male connector²⁾ 					
	Retrofittable internal wiring for connection of the external N and G transformers to terminal X8	3WL9111-0AK31-0AA0		1 1 unit	1CA	
	<ul style="list-style-type: none"> Not for ETU Release 2 Without male connector 					
	Retrofittable internal wiring for connection of the external N and G transformers to terminal X8	3WL9111-0AK33-0AA0		1 1 unit	1CA	
	<ul style="list-style-type: none"> For ETU Release 2 Without male connector 					
Locking devices						
		Interlocking set for mechanical ON/OFF				
		<ul style="list-style-type: none"> Each consisting of 2 transparent covers for sealing or for attaching padlocks⁴⁾ Cover with 6.35 mm hole (for tool actuation) Lock mount for safety lock for key operation 				
		Versions				
	<ul style="list-style-type: none"> Without safety lock Made by CES Made by IKON 	3WL9111-0BA21-0AA0 3WL9111-0BA22-0AA0 3WL9111-0BA24-0AA0		1 1 unit	1CA	
	Locking devices against unauthorized closing, in the operator panel					
	<ul style="list-style-type: none"> The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 Spare part for options S01 to S09, see "-Z" + order code, page 1/52. 					
	Versions					
	<ul style="list-style-type: none"> Assembly kit FORTRESS or CASTELL³⁾ Made by Ronis Made by KIRK-Key³⁾ Made by Profalux Made by CES Made by IKON Assembly kit for padlocks⁴⁾ 	3WL9111-0BA31-0AA0 3WL9111-0BA33-0AA0 3WL9111-0BA34-0AA0 3WL9111-0BA35-0AA0 3WL9111-0BA36-0AA0 3WL9111-0BA38-0AA0 3WL9111-0BA41-0AA0		1 1 unit	1CA	
	Locking devices against unauthorized closing, for withdrawable circuit breakers					
	<ul style="list-style-type: none"> The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 Consisting of lock in the guide frame, active in connected position, function is retained when circuit breaker is replaced Spare part for options R60, R61, R68, see "-Z" + order code, page 1/52. 					
	Versions					
	<ul style="list-style-type: none"> Made by CES Made by IKON Made by KIRK-Key³⁾ Made by Ronis Made by Profalux 	3WL9111-0BA51-0AA0 3WL9111-0BA53-0AA0 3WL9111-0BA57-0AA0 3WL9111-0BA58-0AA0 3WL9111-0BA50-0AA0		1 1 unit	1CA	

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

²⁾ Required if communication is retrofitted.

³⁾ Locks, cylinders and keys must be ordered from the manufacturer.

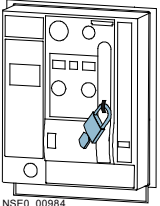
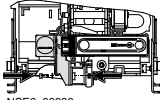
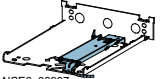
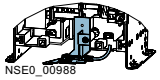
⁴⁾ Padlock not included in the scope of supply.

Air Circuit Breakers

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

Accessories and spare parts

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Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 <p>NSE0_00984 3WL9111-0BA71-0AA0</p> <p>Locking devices for operating mechanism handle with padlock¹⁾ Spare part for option S33, see "-Z" + order code, page 1/52.</p>	d	3WL9111-0BA71-0AA0		1	1 unit	1CA
 <p>NSE0_00986 3WL9111-0BA76-0AA0</p> <p>Locking devices to prevent movement of the withdrawable circuit breakers</p> <ul style="list-style-type: none"> • Safety lock for mounting on the circuit breaker • Spare part for options S71, S75, S76, see "-Z" + order code, page 1/52. <p>Versions</p> <ul style="list-style-type: none"> • Made by CES • Made by IKON • Made by Profalux • Made by Ronis • Made by KIRK-Key²⁾ 		3WL9111-0BA73-0AA0 3WL9111-0BA75-0AA0 3WL9111-0BA76-0AA0 3WL9111-0BA77-0AA0 3WL9111-0BA80-0AA0		1	1 unit	1CA 1CA 1CA 1CA 1CA
<p>Interlocking systems</p> <ul style="list-style-type: none"> • Made by CES • 2 of the same keys for 3 circuit breakers • Locking device in OFF position • Lock in the operator panel • A maximum of 2 circuit breakers can be switched on 		3WL9111-0BA43-0AA0		1	1 unit	1CA
Locking mechanisms						
 <p>NSE0_00987 3WL9111-0BA83-0AA0</p> <p>Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position</p> <ul style="list-style-type: none"> • Consisting of Bowden cable and lock in the cabinet door on the circuit breaker • Spare part for options R81, R85, R86, see "-Z" + order code, page 1/49. <p>Versions</p> <ul style="list-style-type: none"> • Made by CES • Made by IKON • Made by Profalux • Made by Ronis <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>		3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0 3WL9111-0BA86-0AA0		1	1 unit	1CA 1CA 1CA 1CA
 <p>NSE0_00988 3WL9111-0BB12-0AA0</p> <p>Locking mechanisms to prevent opening of the cabinet door in ON position</p> <ul style="list-style-type: none"> • Fixed-mounted • Can be defeated • Spare part for option S30, see "-Z" + order code, page 1/52. 		3WL9111-0BB12-0AA0		1	1 unit	1CA
<p>Locking mechanisms to prevent opening of the cabinet door</p> <ul style="list-style-type: none"> • Guide frames • Can be defeated • Spare part for option R30, see "-Z" + order code, page 1/52. <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>		3WL9111-0BB13-0AA0		1	1 unit	1CA
<p>Locking mechanisms to prevent movement with the cabinet door open</p> <ul style="list-style-type: none"> • Guide frames • Spare part for option R50, see "-Z" + order code, page 1/52. <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>		3WL9111-0BB15-0AA0		1	1 unit	1CA

1) Padlock not included in the scope of supply.

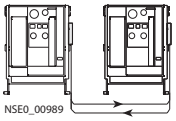
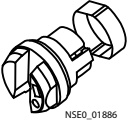

2) Locks, cylinders and keys must be ordered from the manufacturer.

Air Circuit Breakers

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

Accessories and spare parts

1

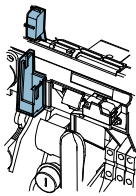
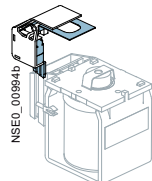


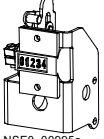
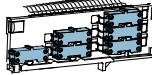
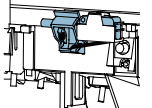
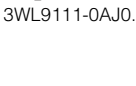
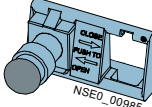
	Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Interlocks								
 <p>NSE0_00989</p> <p>3WL9111-0BB21-0AA0</p>	Mechanical interlocking With Bowden cable 2000 mm (one required for each circuit breaker)							
	Type	When ordered separately	Spare part for					
	Fixed-mounted circuit breakers	--	Option S55 , see "-Z" + order code, page 1/52 .	3WL9111-0BB21-0AA0		1	1 unit	1CA
	Module for withdrawable circuit breakers with guide frame	--	Option R55 , see "-Z" + order code, page 1/52 .	3WL9111-0BB24-0AA0		1	1 unit	1CA
	Module for guide frame	✓	Option R56 , see "-Z" + order code, page 1/52 .	3WL9111-0BB22-0AA0		1	1 unit	1CA
	Module for withdrawable circuit breaker	✓	Option R57 , see "-Z" + order code, page 1/52 .	3WL9111-0BB23-0AA0		1	1 unit	1CA
Adapter for size III withdrawable circuit breaker	✓	--	3WL9111-0BB30-0AA0		1	1 unit	1CA	
 <p>NSE0_01886</p> <p>3WL9112-8HA47-0AA0</p>	Couplings on the circuit breaker (with ring) for mutual interlocking Can be used in all circuit breakers		3WL9112-8AH47-0AA0		1	1 unit	1CA	
	Bowden cables							
	Versions							
	2000 mm		3WL9111-0BB45-0AA0		1	1 unit	1CA	
	3000 mm		3WL9111-0BB46-0AA0		1	1 unit	1CA	
	4500 mm		3WL9111-0BB47-0AA0		1	1 unit	1CA	
Transfer control devices								
 <p>3KC9000-8TL40 3KC9000-8EL10</p>	3KC ATC6300 and ATC3100 transfer control devices For combination with two air circuit breakers/molded case circuit breakers for changeover according to IEC 60947-6-1. For more information, see chapter "Transfer Switching Equipment and Load Transfer Switches".							
	Test devices							
	Manual tester Release 2 for Electronic Trip Units ETU15B to ETU76B For testing the Electronic Trip Unit functions of all 3WL ETUs (release 1 and release 2)		3WL9111-0AT32-0AA0		1	1 unit	1CA	
	Function testers For testing the tripping characteristics for Electronic Trip Units ETU15B to ETU76B		3WL9111-0AT44-0AA0		1	1 unit	1CA	
Capacitor storage devices								
	Capacitor storage devices <ul style="list-style-type: none"> For shunt releases Storage time 5 min 		3WL9111-0BA14-0AA0		1	1 unit	1CA	
	Rated control supply voltage/rated operational voltage							
	50/60 Hz V AC	V DC						
	220 ... 240	220 ... 250						
	Note							
	<ul style="list-style-type: none"> Rated control supply voltage must match the rated control supply voltage of the shunt release. Suitable also for 3VL, 3VA and 3WN circuit breakers. 							

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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Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Indicators, control elements						
 <p>NSE0_00993a</p> <p>3WL9111-0AH01-0AA0</p>		Ready-to-close signaling switches (S20)		1	1 unit	1CA
		<ul style="list-style-type: none"> • 1 NO contact • Spare part for option C22, see "-Z" + order code, page 1/50. 				
 <p>NSE0_00994b</p> <p>3WL9111-0AH02-0AA0</p>		Signaling switches¹⁾²⁾ (S22 or S23)		1	1 unit	1CA
		<ul style="list-style-type: none"> • 1st or 2nd auxiliary release • Spare part for options C26 and C27, see "Z" + order code, page 1/50. 				
 <p>NSE0_00995a</p> <p>3WL9111-0AH07-0AA0</p>		1st tripped signaling switch¹⁾²⁾ (S24)		1	1 unit	1CA
		<ul style="list-style-type: none"> • 1 CO contact • Spare part for option K07, see "-Z" + order code, page 1/50. 				
 <p>NSE0_00996a</p> <p>3WL9111-0AH12-0AA0</p>		2nd tripped signaling switch¹⁾²⁾³⁾ (S25)		1	1 unit	1CA
		<ul style="list-style-type: none"> • 1 NO contact • Spare part for option K06, see "-Z" + order code, page 1/50. 				
 <p>NSE0_00995a</p> <p>3WL9111-0AH07-0AA0</p>		Operating cycles counter		1	1 unit	1CA
		<ul style="list-style-type: none"> • Mechanical⁴⁾ • Spare part for option C01, see "-Z" + order code, page 1/50. 				
 <p>NSE0_00996a</p> <p>3WL9111-0AH12-0AA0</p>		Spring charged signaling switch¹⁾²⁾		1	1 unit	1CA
		<ul style="list-style-type: none"> • 1 NO contact • Spare part for option C20, see "-Z" + order code, page 1/50. 				
 <p>NSE0_00997a</p> <p>3WL9111-0AJ0.-0AA0</p>		Position signaling switches for guide frames				
		Spare part for options R15 and R16 , see "Z" + order code, page 1/51 .				
		Versions				
		<ul style="list-style-type: none"> • 1st block (3 CO contacts) • 2nd block (6 CO contacts) 		1	1 unit	1CA
				1	1 unit	1CA
 <p>NSE0_00997a</p> <p>3WL9111-0AJ0.-0AA0</p>		Electrical ON buttons¹⁾⁵⁾ (S10)				
		<ul style="list-style-type: none"> • Button + wiring²⁾ • For operator panel • Spare part for options C11 and C12, see "Z" + order code, page 1/50. 				
		Versions				
		<ul style="list-style-type: none"> • With sealing cap C11 • With CES assembly kit C12 • With IKON assembly kit 		1	1 unit	1CA
				1	1 unit	1CA
				1	1 unit	1CA
		Note				
		Possible only for circuit breakers with closing coil.				
 <p>NSE0_00985</p> <p>3WL9111-0BA72-0AA0</p>		Motor shutdown switches⁶⁾ (S12)		1	1 unit	1CA
		<ul style="list-style-type: none"> • Mounting on operator panel • Spare part for option S25, see "-Z" + order code, page 1/50. 				
		EMERGENCY-STOP pushbuttons		1	1 unit	1CA
		<ul style="list-style-type: none"> • Mushroom pushbutton instead of the mechanical OFF pushbutton • Spare part for option S24, see "-Z" + order code, page 1/50. 				

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

2) X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see [page 1/55](#) and [page 1/67](#)).

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.

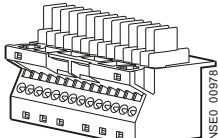
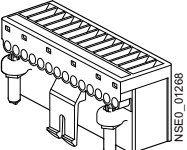
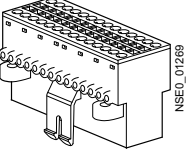


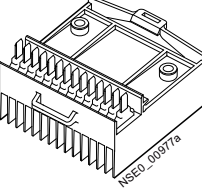
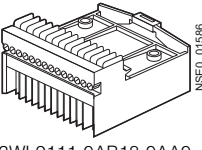
6) Not possible with electrical ON button.

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

For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

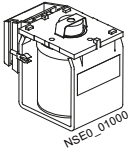
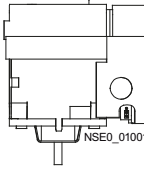
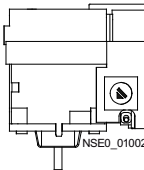
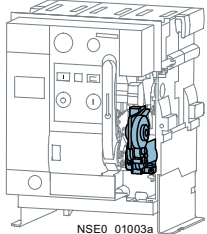
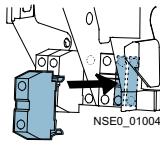
Withdrawable version: ① + ④ + ② or ① + ⑤

Air Circuit Breakers

3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
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Accessories and spare parts

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Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Auxiliary releases						
Closing coils/shunt releases						
 NSE0_01000						
3WL9111-0AD06-0AA0						
Versions	Voltage					
100% OP	24 V DC 30 V DC 48 V DC 60 V DC 110 ... 125 V DC/110 ... 127 V AC 220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AD01-0AA0 3WL9111-0AD02-0AA0 3WL9111-0AD03-0AA0 3WL9111-0AD04-0AA0 3WL9111-0AD05-0AA0 3WL9111-0AD06-0AA0		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
5% OP ¹⁾	24 V DC 48 V DC 110 ... 125 V DC/110 ... 127 V AC 220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AD11-0AA0 3WL9111-0AD12-0AA0 3WL9111-0AD13-0AA0 3WL9111-0AD14-0AA0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Undervoltage releases						
 NSE0_01001						
3WL9111-0AE0.-0AA0						
 NSE0_01002						
3WL9111-0AE1.-0AA0						
Versions	Voltage					
Instantaneous	24 V DC 30 V DC 48 V DC 60 V DC 110 ... 125 V DC/110 ... 127 V AC 220 ... 250 V DC/208 ... 240 V AC 380 ... 415 V AC	3WL9111-0AE01-0AA0 3WL9111-0AE02-0AA0 3WL9111-0AE03-0AA0 3WL9111-0AE07-0AA0 3WL9111-0AE04-0AA0 3WL9111-0AE05-0AA0 3WL9111-0AE06-0AA0		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
Delayed	48 V DC 110 ... 125 V DC/110 ... 127 V AC 220 ... 250 V DC/208 ... 240 V AC 380 ... 415 V AC	3WL9111-0AE11-0AA0 3WL9111-0AE12-0AA0 3WL9111-0AE13-0AA0 3WL9111-0AE14-0AA0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Operating mechanisms						
Motorized operating mechanisms²⁾						
 NSE0_01003a						
3WL9111-0AF0.-0AA0						
Versions	Voltage					
	• 24 ... 30 V DC • 48 ... 60 V DC • 110 ... 125 V DC/110 ... 127 V AC • 220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AF01-0AA0 3WL9111-0AF02-0AA0 3WL9111-0AF03-0AA0 3WL9111-0AF04-0AA0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Auxiliary contacts						
Auxiliary switch blocks						
 NSE0_01004						
3WL9111-0AG03-0AA0						
Versions	Voltage					
	• 2 NO contacts + 2 NC contacts • 2 NO contacts • 1 NO contact + 1 NC contact	3WL9111-0AG01-0AA0 3WL9111-0AG02-0AA0 3WL9111-0AG03-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

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

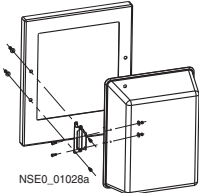
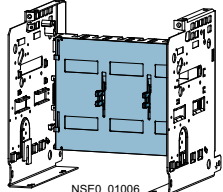
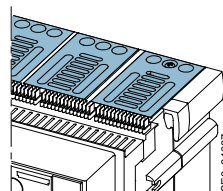
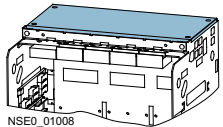
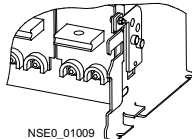
2) X5 auxiliary supply connector required for circuit breakers or guide frames.
If this is not already available, please order additionally (see page 1/55 and page 1/58).

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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Door sealing frames, hoods, shutters							
	Door sealing frames Spare part for option T40 , see "-Z" + order code, page 1/50 .		3WL9111-0AP01-0AA0		1	1 unit	1CA
	Protective covers IP55 Notes • Cannot be used in conjunction with door sealing frames • Hood removable and can be opened on both sides		3WL9111-0AP02-0AA0		1	1 unit	1CA
3WL9111-0AP02-0AA0							
	Shutters Spare part for option R21 , see "-Z" + order code, page 1/51 .						
	Number of poles	Size					
	3-pole	I	3WL9111-0AP04-0AA0		1	1 unit	1CA
		II ¹⁾	3WL9111-0AP06-0AA0		1	1 unit	1CA
		II C	3WL9111-0AP43-0AA0		1	1 unit	1CA
		III	3WL9111-0AP07-0AA0		1	1 unit	1CA
	4-pole	I	3WL9111-0AP08-0AA0		1	1 unit	1CA
		II ¹⁾	3WL9111-0AP11-0AA0		1	1 unit	1CA
		II C	3WL9111-0AP44-0AA0		1	1 unit	1CA
		III	3WL9111-0AP12-0AA0		1	1 unit	1CA
3WL9111-0AP0-0AA0							
Arc chutes							
	Arc chutes	Size					
	690 V	I	3WL9111-0AS01-0AA0		1	1 unit	1CA
		II ¹⁾	3WL9111-0AS02-0AA0		1	1 unit	1CA
		II C	3WL9111-0AS10-0AA0		1	1 unit	1CA
		III	3WL9111-0AS03-0AA0		1	1 unit	1CA
	1000 V/1150 V	II	3WL9111-0AS05-0AA0		1	1 unit	1CA
		III	3WL9111-0AS06-0AA0		1	1 unit	1CA
3WL9111-0AS0-0AA0							
	Arc chute covers²⁾ • Parts kit for guide frame • Spare part for option R10 , see "-Z" + order code, page 1/51 .	Size					
	3-pole	I	3WL9111-0AS32-0AA0		1	1 unit	1CA
		II	3WL9111-0AS36-0AA0		1	1 unit	1CA
		III	3WL9111-0AS38-0AA0		1	1 unit	1CA
	4-pole	I	3WL9111-0AS42-0AA0		1	1 unit	1CA
		II	3WL9111-0AS44-0AA0		1	1 unit	1CA
		III	3WL9111-0AS46-0AA0		1	1 unit	1CA
3WL9111-0AS3-0AA0							
Coding for withdrawable version							
	Coding for withdrawable version By customer, for 36 coding variants	Size					
	Versions						
	• Sizes I and II		3WL9111-0AR12-0AA0		1	1 unit	1CA
	• Size III		3WL9111-0AR13-0AA0		1	1 unit	1CA
3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0							

¹⁾ Cannot be used for 3WL1 size II with very high breaking capacity C

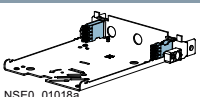
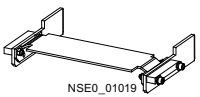
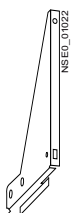
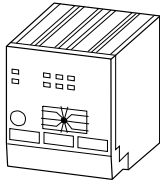
²⁾ Not available for:
 - 1000 V version (order code "A05")
 - 1150 V version (order code "A15")
 - DC version
 - 4000 A size II
 - Circuit breakers with very high breaking capacity C

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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Grounding connection						
 <p>NSE0_01018a 3WL9111-0BA02-0AA0</p>	Grounding connection between the guide frame and the withdrawable circuit breaker <ul style="list-style-type: none"> For 30 kA ground short-circuit current¹⁾ Contacting modules for guide frame 					
	Versions <ul style="list-style-type: none"> Sizes I and II²⁾ Size III 		3WL9111-0BA01-0AA0 3WL9111-0BA02-0AA0	1	1 unit	1CA
Contact modules for withdrawable circuit breakers						
 <p>NSE0_01019 3WL9111-0BA07-0AA0</p>	Number of poles	Size				
	3-pole	I	3WL9111-0BA05-0AA0	1	1 unit	1CA
		II ²⁾	3WL9111-0BA06-0AA0	1	1 unit	1CA
		III	3WL9111-0BA07-0AA0	1	1 unit	1CA
	4-pole	I	3WL9111-0BA08-0AA0	1	1 unit	1CA
		II ²⁾	3WL9111-0BA04-0AA0	1	1 unit	1CA
III		3WL9111-0BA10-0AA0	1	1 unit	1CA	
Support brackets						
 <p>NSE0_01022 3WL9111-0BB50-0AA0</p>	Support brackets <ul style="list-style-type: none"> For mounting fixed-mounted circuit breakers on vertical plane Only for sizes I and II (1 set = 2 units) 		3WL9111-0BB50-0AA0	1	1 unit	1CA
	CubicleBUS modules³⁾					
 <p>NSE0_01023a 3WL9111-0AT23-0AA0</p>	Digital output modules with rotary coding switch, relay outputs		3WL9111-0AT26-0AA0	1	1 unit	1CA
	Digital output modules, configurable, relay outputs		3WL9111-0AT20-0AA0	1	1 unit	1CA
	Digital input modules		3WL9111-0AT27-0AA0	1	1 unit	1CA
	Analog output modules		3WL9111-0AT23-0AA0	1	1 unit	1CA
	Zone Selective Interlocking modules		3WL9111-0AT21-0AA0	1	1 unit	1CA
Parameterization systems⁴⁾						
powerconfig commissioning and service software <ul style="list-style-type: none"> Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using powerconfig software, see chapter "Software", "Configuring, Visualizing and Controlling with SENTRON". powerconfig is available free of charge at http://support.automation.siemens.com/WWW/view/en/63452759 						

1) For 60 kA ground short-circuit current, order 2.

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

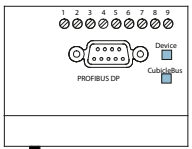
3) Each **CubicleBUS** module is supplied with a 0.2 m pre-assembled cable to connect the modules with each other. A longer pre-assembled cable is required for connection to the circuit breaker.4) All communication components, **CubicleBUS** modules and metering functions are available for the ETU45B and ETU76B Electronic Trip Units.

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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Accessories for communication³⁾						
Pre-assembled cables for CubicleBUS modules						
Versions						
• 0.5 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC04-0AA0		1	1 unit	1CA
• 1 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC02-0AA0		1	1 unit	1CA
• 2 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC03-0AA0		1	1 unit	1CA
• 2 m long, for connection to 3WL without COM15/COM16		3WL9111-0BC05-0AA0		1	1 unit	1CA
SETRON manual for communication solutions						
<ul style="list-style-type: none"> Detailed description of the communication functions for circuit breakers. Installation, connection, commissioning, data transmission to the PLC. Free download from: www.siemens.com/lowvoltage/manuals 						
Voltage transformers						
• 3-pole, for 3WL circuit breakers with metering function <i>Plus</i> ¹⁾		3WL9111-0BB68-0AA0		1	1 unit	1CA
• 380 ... 690 V/100 V, class 0.5						
Retrofitting and spare parts^{3) 4)}						
PROFIBUS retrofit kits						
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						
		3WL9111-0AT12-0AA0		1	1 unit	1CA
COM15 PROFIBUS modules						
For ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT15-0AA0		1	1 unit	1CA
3WL9111-0AT15-0AA0						
COM16 MODBUS modules						
For ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT17-0AA0		1	1 unit	1CA
MODBUS IEC retrofit kits						
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						
		3WL9111-0AT18-0AA0		1	1 unit	1CA
Additional parts for retrofitting the COM15/COM16 communication modules						
In withdrawable version 3WL circuit breakers with Z options:						
<ul style="list-style-type: none"> A05 (1000 V AC) or A15 (1150 V AC) or A16 (690 V + 20%) 						
Size						
I		3WL9111-0AT62-0AA0		1	1 unit	1CA
II/III		3WL9111-0AT63-0AA0		1	1 unit	1CA
Breaker Status Sensor (BSS)						
For ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT16-0AA0		1	1 unit	1CA
Metering function <i>Plus</i>²⁾						
<ul style="list-style-type: none"> For ETUs Release 2 Voltage transformer required 						
Transformer (without iron core), Rogowski coil only						
Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B						
<ul style="list-style-type: none"> External 24 V DC supply required Undervoltage release required 						
Comprises:						
<ul style="list-style-type: none"> Transformer Warning signs Manual 						
Number of poles		Size				
3-pole		I		3WL9111-0AA42-0AA0	1	1 unit 1CA
		II		3WL9111-0AA43-0AA0	1	1 unit 1CA
		III		3WL9111-0AA44-0AA0	1	1 unit 1CA
4-pole		I		3WL9111-0AA45-0AA0	1	1 unit 1CA
		II		3WL9111-0AA46-0AA0	1	1 unit 1CA
		III		3WL9111-0AA47-0AA0	1	1 unit 1CA

¹⁾ Is required for operation of the metering function *Plus*.

²⁾ A measuring accuracy of 3% is reached if retrofitted.

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

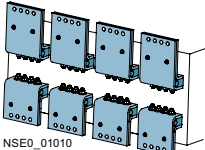
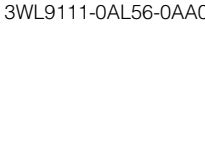
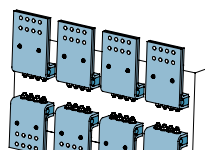
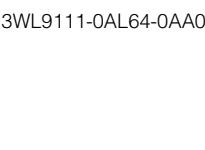
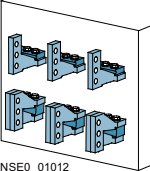
⁴⁾ For retrofitting the COM15 or COM16 communication modules in withdrawable 3WL circuit breakers with Z options A05 (1000 V AC), A15 (1150 V AC) or A16 (690 V + 20%), the following additional assembly kits are required:
3WL9111-0AT62-0AA0 for circuit breakers size I or 3WL9111-0AT63-0AA0 for circuit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

1

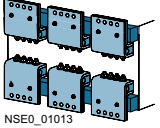
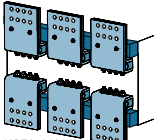
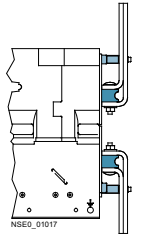

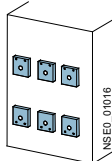
Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Main conductor connections, fixed-mounted versions (essential accessories)							
Specified for each connection							
 NSE0_01010	3WL9111-0AL06-0AA0 Front-accessible main connections, single hole at top¹⁾						
	Size	Rated current I_n					
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AL01-0AA0 3WL9111-0AL02-0AA0		1 1	1 unit 1 unit	1CA 1CA
	II ⁴⁾	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AL03-0AA0 3WL9111-0AL04-0AA0 3WL9111-0AL05-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	3WL9111-0AL06-0AA0		1	1 unit	1CA
 NSE0_01011	3WL9111-0AL56-0AA0 Front-accessible main connections, single hole at bottom¹⁾						
	Size	Rated current I_n					
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AL51-0AA0 3WL9111-0AL52-0AA0		1 1	1 unit 1 unit	1CA 1CA
	II ⁴⁾	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AL53-0AA0 3WL9111-0AL54-0AA0 3WL9111-0AL55-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	3WL9111-0AL56-0AA0		1	1 unit	1CA
 NSE0_01011	3WL9111-0AL14-0AA0 Front-accessible main connections according to DIN 43673, double hole at top						
	Size	Rated current I_n					
	I	Up to 1000 A ¹⁾ 1250 A to 2000 A	3WL9111-0AL07-0AA0 3WL9111-0AL08-0AA0		1 1	1 unit 1 unit	1CA 1CA
	II ⁴⁾	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AL11-0AA0 3WL9111-0AL12-0AA0 3WL9111-0AL13-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	3WL9111-0AL14-0AA0		1	1 unit	1CA
 NSE0_01011	3WL9111-0AL64-0AA0 Front-accessible main connections according to DIN 43673, double hole at bottom						
	Size	Rated current I_n					
	I	Up to 1000 A ¹⁾ 1250 A to 2000 A	3WL9111-0AL57-0AA0 3WL9111-0AL58-0AA0		1 1	1 unit 1 unit	1CA 1CA
	II ⁴⁾	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AL61-0AA0 3WL9111-0AL62-0AA0 3WL9111-0AL63-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	3WL9111-0AL64-0AA0		1	1 unit	1CA
 NSE0_01012	3WL9111-0AM03-0AA0 Rear vertical main connections						
	Size	Rated current I_n					
	I ²⁾	Up to 2000 A	3WL9111-0AM01-0AA0		1	1 unit	1CA
	II ³⁾	Up to 3200 A	3WL9111-0AM02-0AA0		1	1 unit	1CA
	III	Up to 6300 A	3WL9111-0AM03-0AA0		1	1 unit	1CA

¹⁾ Not for 3WL1 size I with high breaking capacity H.

²⁾ 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.

³⁾ 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.

⁴⁾ Not for circuit breakers with very high breaking capacity C.

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main conductor connections, withdrawable versions (essential accessories)						
Specified for each connection						
Front-accessible main connections, single hole at top or at bottom^{1) 2)}						
 NSE0_01013 3WL9111-0AN06-0AA0	Size	Rated current I_n				
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN01-0AA0 3WL9111-0AN02-0AA0	1 1	1 unit 1 unit	1CA 1CA
	II ³⁾	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN03-0AA0 3WL9111-0AN04-0AA0 3WL9111-0AN05-0AA0	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	3WL9111-0AN06-0AA0	1	1 unit	1CA
Front-accessible main connections according to DIN 43673, double hole at top or at bottom¹⁾						
 NSE0_01014 3WL9111-0AN14-0AA0	Size	Rated current I_n				
	I	Up to 1000 A ²⁾ 1250 A to 2000 A	3WL9111-0AN07-0AA0 3WL9111-0AN08-0AA0	1 1	1 unit 1 unit	1CA 1CA
	II ³⁾	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN11-0AA0 3WL9111-0AN12-0AA0 3WL9111-0AN13-0AA0	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	3WL9111-0AN14-0AA0	1	1 unit	1CA
Supports for front and DIN connecting bars						
 NSE0_01017 3WL9111-0AN41-0AA0	Number of poles	Size				
	3-pole for 3 bars	I	3WL9111-0AN41-0AA0	1	1 unit	1CA
		II	3WL9111-0AN42-0AA0	1	1 unit	1CA
		III	3WL9111-0AN43-0AA0	1	1 unit	1CA
	4-pole for 4 bars	I	3WL9111-0AN44-0AA0	1	1 unit	1CA
		II	3WL9111-0AN45-0AA0	1	1 unit	1CA
		III	3WL9111-0AN46-0AA0	1	1 unit	1CA
Rear vertical main connections						
 NSE0_01015 3WL9111-0AN23-0AA0	Size	Rated current I_n				
	I	Up to 1000 A ²⁾ 1250 A to 2000 A	3WL9111-0AN15-0AA0 3WL9111-0AN16-0AA0	1 1	1 unit 1 unit	1CA 1CA
	II	Up to 2000 A ³⁾ Up to 2500 A ³⁾ Up to 3200 A ³⁾ 1600 ... 3200 A ⁴⁾	3WL9111-0AN17-0AA0 3WL9111-0AN18-0AA0 3WL9111-0AN21-0AA0 3WL9111-0AN38-0AA0	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	III	Up to 5000 A	3WL9111-0AN22-0AA0	1	1 unit	1CA
		Up to 6300 A, 3 busbar connection pieces for 3-pole circuit breakers	3WL9111-0AN23-0AA0	1	1 unit	1CA
		Up to 6300 A, at top, 4 busbar connection pieces for 4-pole circuit breakers	3WL9111-0AN20-0AA0	1	1 unit	1CA
		Up to 6300 A, at bottom, 4 busbar connection pieces for 4-pole circuit breakers	3WL9111-0AN10-0AA0	1	1 unit	1CA
Rear horizontal main connections						
	Size	Rated current I_n				
	I	Up to 1000 A ²⁾ 1250 A to 2000 A	3WL9111-0AN32-0AA0 3WL9111-0AN33-0AA0	1 1	1 unit 1 unit	1CA 1CA
	II	Up to 2000 A ³⁾ Up to 2500 A ³⁾ Up to 3200 A ³⁾ 1600 ... 3200 A ⁴⁾	3WL9111-0AN34-0AA0 3WL9111-0AN35-0AA0 3WL9111-0AN36-0AA0 3WL9111-0AN47-0AA0	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	III	Up to 5000 A	3WL9111-0AN37-0AA0	1	1 unit	1CA
Connecting flange						
 NSE0_01016 3WL9111-0AN24-0AA0	Size	Rated current I_n				
	I	Up to 1000 A ²⁾ 1250 A to 2000 A	3WL9111-0AN24-0AA0 3WL9111-0AN25-0AA0	1 1	1 unit 1 unit	1CA 1CA
	II ³⁾	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN26-0AA0 3WL9111-0AN27-0AA0 3WL9111-0AN28-0AA0	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
	III	Up to 4000 A	3WL9111-0AN31-0AA0	1	1 unit	1CA

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

²⁾ Not for 3WL1 size I with high breaking capacity H.

³⁾ Not for circuit breakers with very high breaking capacity C.

⁴⁾ Only for circuit breakers with very high breaking capacity C.

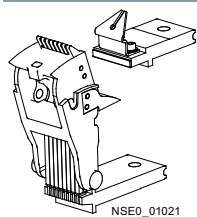
Air Circuit Breakers

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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Conversion sets						
Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers¹⁾ Guide frames and sliding contact modules must be ordered separately.						
Number of poles	Size					
3-pole	I	3WL9111-0BC11-0AA0		1	1 unit	1CA
	II	3WL9111-0BC12-0AA0		1	1 unit	1CA
	III	3WL9111-0BC13-0AA0		1	1 unit	1CA
4-pole	I	3WL9111-0BC14-0AA0		1	1 unit	1CA
	II	3WL9111-0BC15-0AA0		1	1 unit	1CA
	III	3WL9111-0BC16-0AA0		1	1 unit	1CA
Main contact elements						
Main contact elements²⁾⁴⁾						
Size	$I_{n\ max}$					
I	Up to 1600 A	3WL9111-0AM90 L1Y³⁾		1	1 unit	1CA
II	Up to 2500 A	3WL9111-0AM91 L1Y³⁾		1	1 unit	1CA
II	Up to 4000 A	3WL9111-0AM92 L1Y³⁾		1	1 unit	1CA
III	Up to 6300 A	3WL9111-0AM93 L1Y³⁾		1	1 unit	1CA
Notes						
<ul style="list-style-type: none"> The circuit breaker ID No. must be specified when ordering Specified for each connection (depending on the number of poles on the circuit breaker, order 3 or 4 units) Article No. is automatically adapted to the circuit breaker ID No. 						



- 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	3	1	-	1	F	A	2
5th digit:	Size	Size II		2													
6th and 7th digits:	Max. rated circuit breaker current $I_{n\max}$	$I_{n\max} = 2000\text{ A}$			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									3						
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	J	G	3	1	-	1	F	A	3	-	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

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

Free download of documentation from
www.siemens.com/lowvoltage/manuals

More information

Up-to-date information on the Internet at:
www.siemens.com/sentron

Air Circuit Breakers

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

General data

Technical specifications

Size	I	II			
Type	3WL11 20	3WL12 10	3WL12 20	3WL12 40	
Rated current I_n at 40 °C					
Main conductor	A 2000	... 1000	2000	4000	
Rated operational voltage U_e (for 1000 V version, see "-Z" option and order code "A05", page 1/49)	V DC 1000	... 600/1000	... 600/1000	... 600/1000	
Rated insulation voltage U_i	V DC 1000	1000	1000	1000	
Rated impulse withstand voltage U_{imp}					
• 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	
Isolating function acc. to EN 60947-2	Yes	Yes	Yes	Yes	
Utilization category		B			
Permissible ambient temperature					
• Operation	°C -25/+70	-25/+70	-25/+70	-25/+70	
• Storage	°C -40/+70	-40/+70	-40/+70	-40/+70	
Permissible load					
At rear horizontal main circuit connections	Up to 40 °C Up to 55 °C Up to 60 °C Up to 70 °C	A 2000 A 1910 A 1850 A 1710	1000 1000 1000 1000	2000 2000 2000 1950	4000 3640 3500 3250
Power loss at I_n for symmetrical loads					
Withdrawable circuit breakers	W 150	280	770	1640	
Switching times					
• Make time	ms 35	35	35	35	
• Opening time	ms 38	34	34	34	
• Electrical make time (through activation solenoid) ¹⁾	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	
Service life³⁾					
• Mechanical (without maintenance)	Operating cycles 10 000	10 000	10 000	10 000	
• Mechanical (with maintenance) ²⁾	Operating cycles 15 000	15 000	15 000	15 000	
• 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) ²⁾	Operating cycles 2 000	15 000	15 000	15 000	
Switching frequency					
• 600 V version	1/h --	60	60	60	
• 1000 V version	1/h 20	20	20	20	
Mounting position					
Degree of protection		IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover			
Auxiliary conductors (Cu)	Standard connection = strain-relief clamp				
Max. number	• Without end sleeve	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14)			
Auxiliary conductors × cross-section	• With end sleeve acc. to DIN 46228 Part 2	1 × 0.5 mm ² (AWG 20) ... 1 × 1.5 mm ² (AWG 16)			
(solid/stranded)	• With twin end sleeve	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)			
	Optional connection = tension spring				
	• Without end sleeve	2 × 0.5 mm ² (AWG 20) ... 2 × 2.5 mm ² (AWG 14)			
	• With end sleeve acc. to DIN 46228 Part 2	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)			
Weights					
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

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

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

³⁾ Further technical specifications on request.

Breaking capacity

Size	I	DC	II	DC
Type	3WL11		3WL12	
Breaking capacity	DC		DC	
Short-circuit breaking capacity				
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	
Rated short-time withstand current				
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).

- 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.


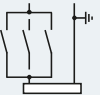

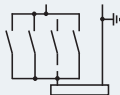

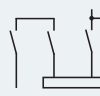
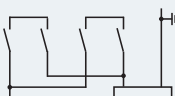

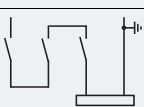

Air Circuit Breakers

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

General data

1

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
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
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

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

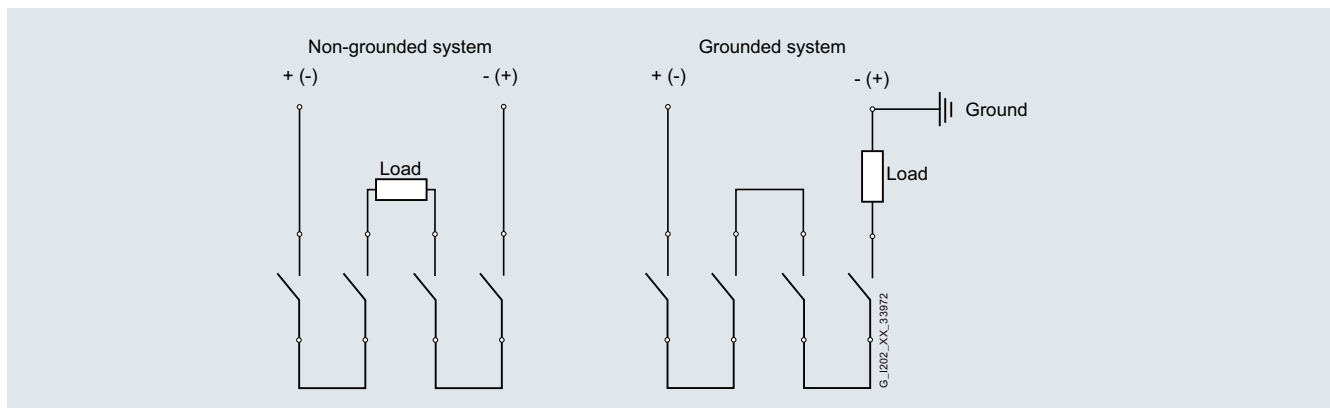
□ Load

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

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 1/10.

Size	Max. rated circuit breaker current $I_{n \max}$	SD	3-pole non-automatic air circuit breakers DC	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Price per PU		
Horizontal main circuit connection						
II	1000 2000 4000 ¹⁾		3WL1210-8□□32-□□□□ 3WL1220-8□□32-□□□□ 3WL1240-8□□32-□□□□	1	1 unit	1CA
Vertical main circuit connection						
II	1000 2000 4000 ¹⁾		3WL1210-8□□31-□□□□ 3WL1220-8□□31-□□□□ 3WL1240-8□□31-□□□□	1	1 unit	1CA
Front main circuit connection, single hole						
II	1000 2000		3WL1210-8□□33-□□□□ 3WL1220-8□□33-□□□□	1	1 unit	1CA
Front main circuit connection, double hole						
II	1000 2000		3WL1210-8□□34-□□□□ 3WL1220-8□□34-□□□□	1	1 unit	1CA
Options						
Non-automatic air circuit breakers²⁾ Without Electronic Trip Units			AA	Add. price None		
Operating mechanisms Manual operating mechanism with mechanical closing			1AA2	None		
For further Article No. supplements, see page 1/48						
Size	Max. rated circuit breaker current $I_{n \max}$	SD	4-pole non-automatic air circuit breakers DC	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Price per PU		
Horizontal main circuit connection						
I ³⁾	2000		3WL1120-8□□42-□□□□	1	1 unit	1CA
II	1000 2000 4000 ¹⁾		3WL1210-8□□42-□□□□ 3WL1220-8□□42-□□□□ 3WL1240-8□□42-□□□□	1	1 unit	1CA
Vertical main circuit connection						
I ³⁾	2000		3WL1120-8□□41-□□□□	1	1 unit	1CA
II	1000 2000 4000 ¹⁾		3WL1210-8□□41-□□□□ 3WL1220-8□□41-□□□□ 3WL1240-8□□41-□□□□	1	1 unit	1CA
Front main circuit connection, single hole						
II	1000 2000		3WL1210-8□□43-□□□□ 3WL1220-8□□43-□□□□	1	1 unit	1CA
Front main circuit connection, double hole						
II	1000 2000		3WL1210-8□□44-□□□□ 3WL1220-8□□44-□□□□	1	1 unit	1CA
Options						
Non-automatic air circuit breakers²⁾ Without Electronic Trip Units			AA	Add. price None		
Operating mechanisms Manual operating mechanism with mechanical closing			1AA2	None		
For further Article No. supplements, see page 1/48						
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	A 0 5			
Rated voltage 1000 V DC	II	Up to 2000 A	A 0 5	✓	✓	
		Up to 4000 A	A 0 5	✓	✓	
Note						

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 1/49.

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 1/81).

1) Provisions to dissipate heat must be made on the line side.

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

2) For permissible rated short-time current I_{cw} and short-circuit breaking capacity I_{cc} for non-automatic air circuit breakers, see page 1/14.


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	3-pole non-automatic air circuit breakers		PU (UNIT, SET, M)	PS	PG
A	d		Article No. www.siemens.com/product?Article No.	Price per PU			
Without guide frames (for guide frames, see page 1/82)							
II	1000 2000 4000 ¹⁾		3WL1210-8□□35-□□□□ 3WL1220-8□□35-□□□□ 3WL1240-8□□35-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□36-□□□□ 3WL1220-8□□36-□□□□ 3WL1240-8□□36-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, vertical main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□37-□□□□ 3WL1220-8□□37-□□□□ 3WL1240-8□□37-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges							
II	1000 2000 4000 ¹⁾		3WL1210-8□□38-□□□□ 3WL1220-8□□38-□□□□ 3WL1240-8□□38-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Options							
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units		AA				None
Operating mechanisms	Manual operating mechanism with mechanical closing		1AA2				None
	For further Article No. supplements, see page 1/48						
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL12.0-8..3.-.....Z □ □ □				Additional price 3-pole
Condition	Size	Rated current I_n					
Rated voltage 1000 V DC	II ⁴⁾	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 ³⁾ . 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 1/49.

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 1/81).

- 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 1/14.
- 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.

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. www.siemens.com/ product?Article No.	Price per PU			
Without guide frames (for guide frames, see page 1/82)							
II	1000 2000 4000 ¹⁾		3WL1210-8□□45-□□□□ 3WL1220-8□□45-□□□□ 3WL1240-8□□45-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□46-□□□□ 3WL1220-8□□46-□□□□ 3WL1240-8□□46-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, vertical main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□47-□□□□ 3WL1220-8□□47-□□□□ 3WL1240-8□□47-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges							
II	1000 2000 4000 ¹⁾		3WL1210-8□□48-□□□□ 3WL1220-8□□48-□□□□ 3WL1240-8□□48-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Options							
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units		AA				Additional price None
Operating mechanisms	Manual operating mechanism with mechanical closing		1AA2				None
	For further Article No. supplements, see page 1/48						
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 ⁴⁾	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 ³⁾ . 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 1/49.

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 Anlagentechnik⁵⁾.

- 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 1/14.
- 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.

- 5) **mat – Maschinen- und Anlagentechnik**
Dr. Becker GmbH
Rudolf-Diesel-Strasse 22
22941 Bargteheide, Germany
Tel.: +49 (45 32) 20-2101
Fax: +49 (45 32) 20-2121
Email: info@m-a-t.de
Internet: www.m-a-t.de

Air Circuit Breakers

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

Accessories and spare parts

1

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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
Front main circuit connection, single hole							
II	2000		3WL9212-3DA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole							
II	2000		3WL9212-3DB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection							
II	2000		3WL9212-3DC□□-□□A1		1	1 unit	1CA
	4000		3WL9212-6DC□□-□□A1		1	1 unit	1CA
Vertical main circuit connection							
II	2000		3WL9212-3DD□□-□□A1		1	1 unit	1CA
	4000		3WL9212-6DD□□-□□A1		1	1 unit	1CA
Main circuit connection connecting flanges							
II	2000		3WL9212-3DE□□-□□A1		1	1 unit	1CA
	4000		3WL9212-6DE□□-□□A1		1	1 unit	1CA
Options							
Number of auxiliary supply connectors	None		0				None
	1 connector		1				✓
	2 connectors		2				✓
	3 connectors		3				✓
	4 connectors		4				✓
Note	For table for required number of auxiliary supply connectors, see page 1/55.						
Type of auxiliary circuit connections	None ²⁾		0				None
	With screw connection (SIGUT, standard)		1				✓
	With screwless connection method (tension spring)		2				✓
Position signaling switches	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				✓
Shutters	None		A				None
	With shutter, 2-part, lockable		B				
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).					3WL9212-.....-..A1-Z		Additional price
					□ □ □		
Rated voltage 1000 V DC							
Size II			A 0 5				✓
Tinned version of the customer's connections on the guide frame¹⁾ Only for guide frames with horizontal connection or flange connection							
Size II			A 0 8				✓
Notes	<ul style="list-style-type: none"> For guide frames for 4-pole DC non-automatic air circuit breakers, see the following page. 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 1/49. 						

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

²⁾ 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

1

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. www.siemens.com/ product?Article No.				
Front main circuit connection, single hole							
II	2000		3WL9212-3EA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole							
II	2000		3WL9212-3EB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection							
II	2000		3WL9212-3EC□□-□□A1		1	1 unit	1CA
II	4000		3WL9212-6EC□□-□□A1		1	1 unit	1CA
Vertical main circuit connection							
II	2000		3WL9212-3ED□□-□□A1		1	1 unit	1CA
II	4000		3WL9212-6ED□□-□□A1		1	1 unit	1CA
Main circuit connection connecting flanges							
II	2000		3WL9212-3EE□□-□□A1		1	1 unit	1CA
II	4000		3WL9212-6EE□□-□□A1		1	1 unit	1CA
Options							
Number of auxiliary supply connectors	None		0		Additional price 4-pole	None	
	1 connector		1			✓	
	2 connectors		2			✓	
	3 connectors		3			✓	
	4 connectors		4			✓	
Note							
For required number of auxiliary supply connectors, see table see page 1/55.							
Type of auxiliary circuit connections	None ²⁾		0			None	
	With screw connection (SIGUT, standard)		1			✓	
	With screwless connection method (tension spring)		2			✓	
Position signaling switches	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			✓	
Shutters	None		A			None	
	With shutter, 2-part, lockable		B				
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).					3WL9212-.....A1-Z		Additional price
					□ □ □		
Rated voltage 1000 V DC							
Size II			A 0 5				✓
Tinned version of the customer's connections on the guide frame¹⁾ Only for guide frames with horizontal connection or flange connection							
Size II			A 0 8				✓
Notes							
<ul style="list-style-type: none"> For guide frames for 3-pole DC non-automatic air circuit breakers, see previous page. 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 1/49. 							

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

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

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

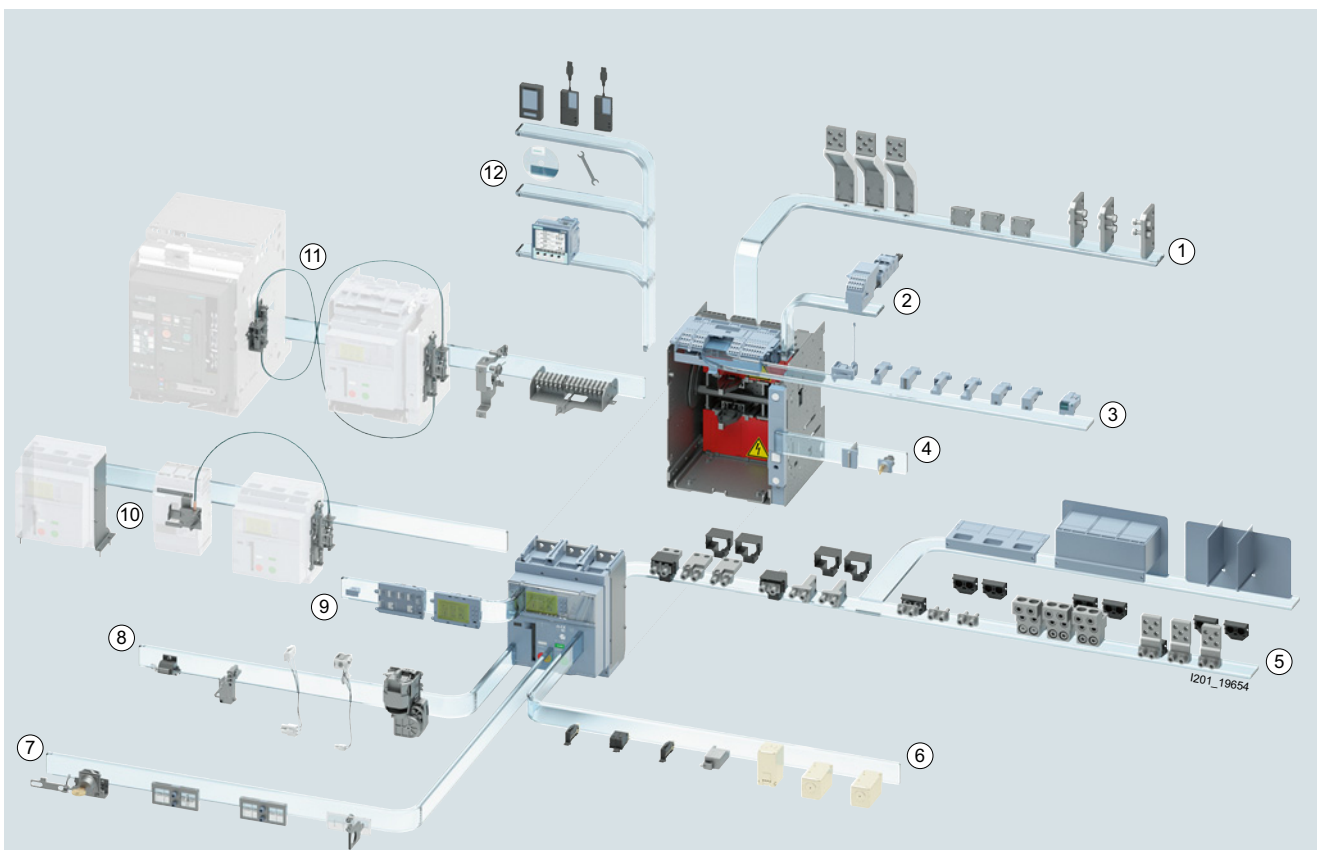
Introduction

Overview

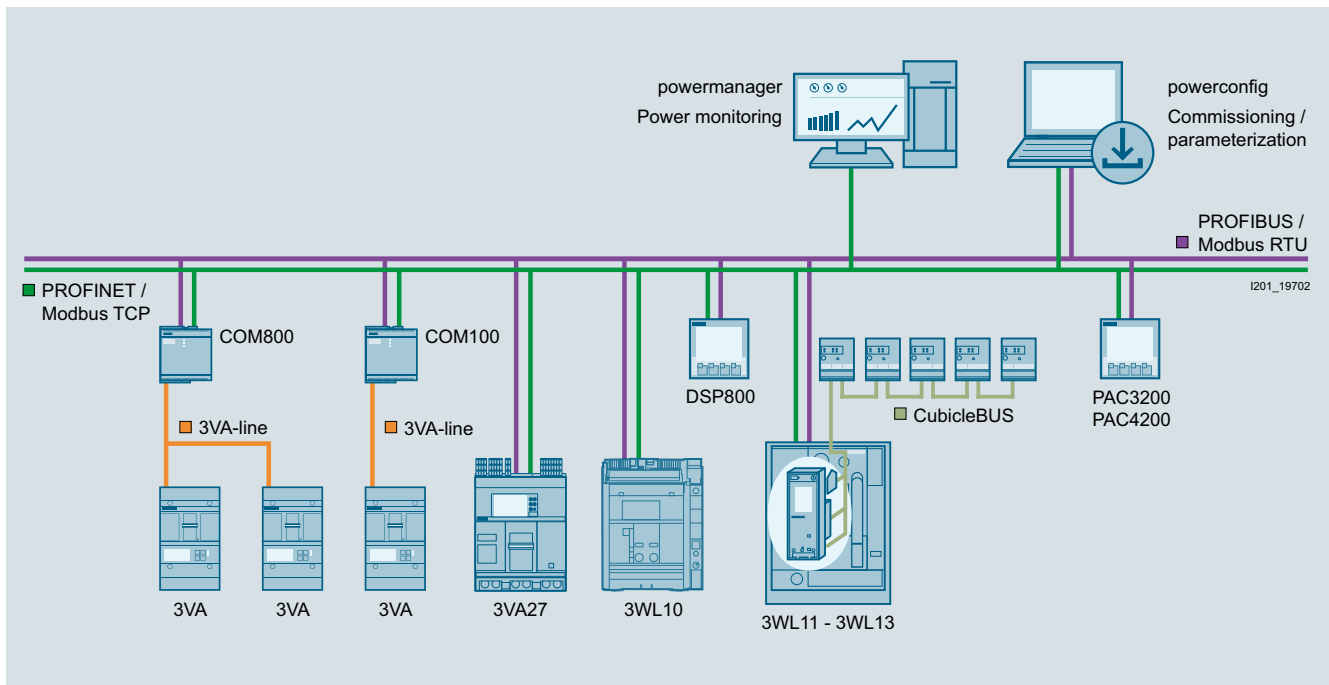


The 3WL10 air circuit breakers are an addition to the existing 3WL1 IEC portfolio with the very compact size 0 up to 1250 A. Like the larger sizes 1 - 3, the 3WL10 breakers are modular in

design allowing most accessory components to be retrofitted or replaced easily by the end user.



- | | |
|--|---|
| ① Connection technology, guide frames | ⑦ Locks, fixed mounting |
| ② Position signaling switches for guide frames | ⑧ Spring charging motor |
| ③ Communication modules | ⑨ Electronic Trip Units |
| ④ Locks, guide frames | ⑩ Interlocking technology, fixed mounting |
| ⑤ Connection technology, fixed mounting | ⑪ Interlocking technology, guide frames |
| ⑥ Internal accessories | ⑫ External accessories |



Features

- Integrated communication concept together with the 3WL10, the 3VA molded case circuit breakers and the 7KM PAC measuring devices. The communication function is available from 16 A to 1600 A (ACB from 630 A – 1250 A) together with 3VA molded case circuit breakers.
- The 3WL10 air circuit breaker can be equipped with an optional communication function. The Electronic Trip Units ETU650 or ETU660 support the communication function.
- The communication modules support PROFIBUS-DP, PROFINET, Modbus TCP and Modbus RTU.
- The high level of modularity of the circuit breakers and accessories allows easy retrofitting of all communication components. Two different communication modules can be used at the same time.
- Simple integration into power monitoring systems with the Basic or Advanced modular metering functions according to IEC 61557-12 for Electronic Trip Units of the 6-series.
- Simple integration into plant monitoring systems for monitoring status / measured values / alarms and warnings / diagnostics / maintenance.
- Significant additional benefits for the switchboard due to the possibility of connecting external input and output modules to the 3WL10 air circuit breaker.
- Innovative software products for commissioning, testing, parameterization, operation, monitoring, documentation and diagnostics of circuit breakers, locally via display, test or gateway devices, or via the communication modules.
- Integration of the circuit breakers into the Totally Integrated Power (TIP) and Totally Integrated Automation (TIA) solutions.

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Introduction

1

Benefits

Low space requirements

The 3WL10 air circuit breakers are extremely compact. 3-pole and 4-pole devices of size 0 fit into a 400 mm wide switchboard panel. Two 3-pole 3WL10 circuit breakers can also be installed side by side in a 600 mm wide switchboard panel. There is no derating of the circuit breaker according to IEC 60947-2 up to 70 °C.

Reduced complexity

A revised system for article numbers makes it easier to find a customized solution without creating unintentional extra work when individual components need to be reordered. Auxiliary and signaling switches are automatically assigned to the device functions without an additional charge. A new product configurator guides the user through the selection process step by step.

Modular design

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

Flexible connection and mounting options

Apart from the customary method of connecting an ACB from the rear side, the 3WL10 can also be mounted in the control cabinet on a mounting plate and connected in a fixed-mounted version like an MCCB from the front side using busbars or cables.

Retrofittable modules for Electronic Trip Units

Upgrading the Electronic Trip Unit is possible at any time. This is done simply by replacing the ETU. For example, the RC functionality for residual current protection can be supplemented by replacing the rating plug in the ETU660 when the MF Advanced metering function is used.

Rating plugs, the metering function, 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:

- Simultaneous use of up to two different bus systems, such as PROFIBUS, PROFINET, Modbus TCP, or Modbus RTU.
- Fast and secure parameterization via the communication path, via test devices as a connection to the mobile terminal, or on the display itself.
- 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.
- Readout of the measuring interval memory, in order to identify trends in the plant.
- Readout of the high-resolution datalog buffer, in order to perform network analyses of current and voltage characteristics.

Integrated energy management combined with a direct Ethernet communications interface makes it possible to standardize the protection and measurement architecture of a switchboard in the compact 3WL10 air circuit breaker. This offers benefits with respect to space-saving and low-effort design, as well as with respect to the configuration of power distribution in industry and infrastructure.

New standards in CAx and engineering support

The new online tools and CAx interfaces in the product configurator offer comprehensive support with the configuration and integration of the device in the application. This variety of detailed CAx data is unique on the air circuit breaker market and lays the foundation for the "digital twin".

Extended protection functions of the Electronic Trip Unit

Extended and directed protection functions support a variety of applications. They provide answers to the challenges of distributed power supply systems in the context of the energy turnaround. The 3WL10 provides customized solutions in the form of tie breakers for UPS systems or in the network system, which requires direction-dependent protection settings and a selective response.

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 3WL10 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.


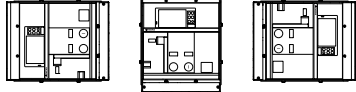
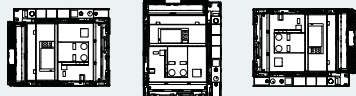
The AC version devices are available as circuit breakers and non-automatic air circuit breakers according to IEC 60947-3 and IEC 60947-2 Annex L (CBI-Y).

Standards

The 3WL10 air circuit breakers comply with the following standards:

- IEC 60947-2 for circuit breakers
- IEC 60947-3 for non-automatic air circuit breakers
- IEC 60947-3 and IEC 60947-2 Annex L (CBI-Y) for non-automatic circuit breakers
- IEC 60947-2 Annex F/CISPR 11/22 Class B
- Climate-proof according to IEC 60068-2-30

Technical specifications

Breaking capacity				B	B	N	N	S	S	
Number of poles				3-pole, 4-pole						
Rated operational current	I_n	40 °C	A	630, 800, 1000, 1250						
Rated operational voltage	U_e	AC (50/60 Hz)	V	Up to 500	690		690			
Rated insulation voltage	U_i	AC (50/60 Hz)	V	1000						
Rated impulse withstand voltage	U_{imp}		kV	12						
Current carrying capacity of the neutral conductor for 4-pole circuit breakers				$\% I_u$	100					
Rated ultimate short-circuit breaking capacity AC	I_{cu}	440 V AC	kA	42	55		66			
	I_{cu}	500 V AC	kA	42	50		50			
	I_{cu}	690 V AC	kA	--	42		50			
Rated service short-circuit breaking capacity AC	I_{cs}	440 V AC	kA	42	50		50			
	I_{cs}	500 V AC	kA	42	50		50			
	I_{cs}	690 V AC	kA	--	42		50			
Rated short-circuit making capacity AC	I_{cm}	440 V AC	kA	88	121		145			
	I_{cm}	500 V AC	kA	88	105		105			
	I_{cm}	690 V AC	kA	--	88		105			
Rated short-time withstand current	I_{cw}	1 s	kA	42	42		50			
	I_{cw}	3 s	kA	24	24		36			
Break time on opening	$I < I_{cw}$		ms	40	40		40			
	$I > I_{cw}$		ms	25	25		25			
IT network capability according to ICE60947-2 Appendix H up to and including max. rated operational voltage				V	500	690		690		
Rated conditional short-circuit current of the non-automatic air circuit breakers				I_{cc}	kA	--	42		50	
Dimensions (3-pole)				H	Fixed / Withdrawable	mm	268* / 363.5			
				D	Fixed / Withdrawable	mm	183 / 271			
				W	Fixed / Withdrawable	mm	214 / 278			
				Dimensions (4-pole)				H	Fixed / Withdrawable	mm
* Dimension without auxiliary conductor terminals or COM modules; otherwise H = 291 mm				D	Fixed / Withdrawable	mm	183 / 271			
				W	Fixed / Withdrawable	mm	284 / 348			
				Weight (with ETU and current sensor, 3-pole)				Fixed / Withdrawable	kg	14 / 38
Weight (with ETU and current sensor, 4-pole)				Fixed / Withdrawable	kg	16 / 43				
Minimum connection cross-sections, bare copper bars								Horizontal or front connection	Vertical connection	
<ul style="list-style-type: none"> Recommended for optimized temperature derating Fixed-mounted and withdrawable versions Refer to the manual for maximum possible connection cross-sections 				I_u	630	mm	2 x 40 x 5	Yes	Yes	
				I_u	800	mm	2 x 50 x 5	Yes	Yes	
				I_u	1000	mm	2 x 50 x 10	Yes	--	
				I_u	1250	mm	2 x 50 x 8	--	Yes	
							2 x 50 x 8	--	Yes	
Mounting position				Fixed						
				Withdrawable						
Switching frequency				Mechanical	1/h	60				
				Electrical	1/h	30				
Endurance				Mechanical with maintenance	Oper. cycles	20000				
				Electrical ≤ 440 V AC	Oper. cycles	8000				
				Electrical ≤ 690 V AC	Oper. cycles	8000 at 1000 A rated current, 6500 at 1250 A rated current				
Power loss				Fixed	W	630 A = 31 W				
					W	800 A = 50 W				
					W	1000 A = 78 W				
					W	1250 A = 122 W				
					Withdrawable	W	630 A = 62 W			
						W	800 A = 100 W			
					W	1000 A = 156 W				
					W	1250 A = 244 W				

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

Undervoltage release (UVR)

The undervoltage release trips the circuit breaker if the rated voltage U_n fails or drops to between 70% and 35% of its normal value. The undervoltage release can be used for:

- Safe remote tripping
- Interlocking during closure
- Checking the voltage in the primary and secondary circuits

Note

The circuit breaker can be reclosed at a coil supply voltage of 85% to 110% U_n .

Technical specifications

	AC	DC
Power supply (U_n)	24 V	✓
	30 V	✓
	48 V	✓
	60 V	✓
	110 ... 120 V	✓
	220 ... 240 V	✓
	240 ... 250 V	✓
Operating limits	ST: 70 ... 110% U_n	
	CC: 85 ... 110% U_n	
Switch-on power (P_s)	300 VA	300 W
Continuous power (P_c)	3.5 VA	3.5 W
Break time YU	30 ms	

Time-delay device (adjustable) for UVR

The undervoltage release (UVR) can be coupled with an external electronic time-delay device which permits a delayed response to the release. The response time can be adjusted in steps of between 0.5 s and 3 s.

This prevents the circuit breaker / non-automatic air circuit breaker from being switched off by the undervoltage release if the control voltage of the undervoltage release is subject to short breaks or interruptions.

Note

Undervoltage releases and time-delay devices must be designed for the same control voltage.

The time-delay device is installed outside the circuit breaker on a standard mounting rail.

Technical specifications

	AC	DC	
Configuration			
	Power supply (U_n)		
	24 V	✓	✓
	30 V	✓	✓
	48 V	✓	✓
	60 V	✓	✓
	110 ... 127 V	✓	✓
220 ... 250 V	✓	✓	
Adjustable break time (UVR + delay)	0.5 / 1 / 1.5 / 2 / 3 s		

Closing coil (CC) / shunt release (ST)

Using the auxiliary trip units / closing coils, the circuit breaker can be tripped by remote access.

Closing (breaker position CLOSED) is only possible if the closing springs are charged and the circuit breaker is ready for closing. Opening (breaker position OPEN) is always possible.

The coils work with a current pulse ≥ 100 ms or with constant power input.

Technical specifications

	AC	DC
Power supply (U_n)	24 V	✓
	30 V	✓
	48 V	✓
	60 V	✓
	110 ... 120 V	✓
	220 ... 240 V	✓
	240 ... 250 V	✓
	380 ... 400 V	✓
415 ... 440 V	✓	
Operating limits	ST: 70 ... 110% U_n	
	CC: 85 ... 110% U_n	
Switch-on power	300 VA	300 W
Continuous power	3.5 VA	3.5 W
Break time ST	20 ms	
Make time CC	50 ms	

Remote reset magnet (RR)

With the remote reset magnet (RR), the mechanical tripped signal can be reset remotely.

Technical specifications

	AC	DC
Power supply (U_n)	24 V	✓
	110 V	✓
	250 V	✓
Operating limits	90 ... 110% U_n	

If the remote reset (RR) magnet is DC-operated, the activation time must be kept below a pulse length of 50 ms. The RR cannot be activated permanently.

Spring charging motor (MO)

The spring charging motor (MO) automatically charges the closing springs if they are discharged and if voltage is applied to the motor.

Technical specifications

	AC	DC
Power supply (U_n)	24 V	✓
	30 V	✓
	48 V	✓
	60 V	✓
	100 ... 130 V	✓
	220 ... 250 V	✓
Operating limits (acc. to IEC 60947-2)	85 ... 110% U_n	
Switch-on power	300 VA	300 W
Continuous power	100 VA	100 W
Make time (inrush time until start of charging)	200 ms	
Charging time	8 s	

Spring charged signaling switch (S21)

The spring charged signaling switch (S21) signals by means of a remote display the charging status of the spring assembly of the circuit breaker.

The contact is available in the standard version or in a version for digital signals with electronics capability. The signaling contact can only be operated in conjunction with the spring charging motor and is always included with this.

Technical specifications

	Standard contact	Contact for digital signal
Type	Changeover contact	Changeover contact
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V	--
	125 V	0.3 A at 0 ms
	250 V	0.15 A at 0 ms
	AC 250 V	5 A at p.f. 1
		5 A at p.f. 0.7
		5 A at p.f. 0.3
	400 V	3 A at p.f. 1
		2 A at p.f. 0.7
		1 A at p.f. 0.3

Position signaling switch PSS for guide frame

The position signaling switches are used in the withdrawable breaker and signal whether the circuit breaker is in the "CONNECT", "TEST" or "DISCONNECT" position. Two changeover contacts are available for displaying each position. The PSS contacts are always included in the guide frame.

Technical specifications

Configuration	Position auxiliary contacts - PSS 6 auxiliary contacts	
Standard contact	✓	
Contact for digital signal	✓	
	Standard contact	Contact for digital signal
Type	Changeover contact	Changeover contact
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V	--
	125 V	0.3 A at 0 ms
	250 V	0.15 A at 0 ms
	AC 250 V	5 A at p.f. 1
		5 A at p.f. 0.7
		5 A at p.f. 0.3
	400 V	3 A at p.f. 1
		2 A at p.f. 0.7
		1 A at p.f. 0.3

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

Ready-to-close signaling switch (RTC)

The signaling contact for ready-to-close (RTC) is used to query whether the circuit breaker is ready for closing.

The standard version of this changeover contact is included in the scope of supply of all circuit breakers and non-automatic circuit breakers.

The following conditions must be met before the circuit breaker is ready to close:

- Circuit breaker in the OPEN position
- Springs charged
- Switch-off command or interlocking with switch-off command is not pending
- Undervoltage release charged
- Mechanical tripped signal reset

Technical specifications

	Standard contact	Contact for digital signal
Type	Changeover contact	
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V	--
	250 V	0.5 A at 0 ms
		0.2 A at 10 ms
	AC 250 V	3 A at p.f. 0.7

Auxiliary switch AUX

The auxiliary contacts signal the current CLOSED or OPEN position of the circuit breaker.

By default, four standard contacts are supplied with the circuit breakers and non-automatic circuit breakers. A maximum of 19 CLOSED / OPEN auxiliary contacts can be made available. Of these, four are installed internally in the switch and 15 externally.

Technical specifications

Configuration	AUX 4 CO 4 auxiliary contacts	AUX 15 CO 15 additional external auxiliary contacts
Standard contact	✓	✓
Contact for digital signal	✓	✓
Mixed	✓	--

	Standard contact	Contact for digital signal	
Type	Changeover contact		
Smallest load	100 mA at 24 V	1 mA at 5 V	
Breaking capacity	DC 24 V	--	
	125 V	0.3 A at 10 ms	
	250 V	0.15 A at 10 ms	
	AC 250 V	5 A at p.f. 1	--
		5 A at p.f. 0.7	--
		5 A at p.f. 0.3	--
	400 V	3 A at p.f. 1	--
		2 A at p.f. 0.7	--
		1 A at p.f. 0.3	--

Tripped signaling switch (S24)

The contact signals when the circuit breaker has been tripped by the Electronic Trip Unit ETU.

The standard version of this changeover contact is supplied by default with every circuit breaker. The tripped signaling switch (S24) is also optionally available in a version for digital signals.

Technical specifications

	Standard contact	Contact for digital signal
Type	Changeover contact	
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V	--
	250 V	0.5 A at 0 ms
		0.2 A at 10 ms
	AC 250 V	3 A at p.f. 0.7

Breaker Connect module, external power supply

Via the Breaker Connect module, the Electronic Trip Units and accessory modules (communications and digital I/O module IOM040) on the terminal strip can be fed with an auxiliary AC or DC supply available in the switchboard. The external power supply module can be installed at any time on the terminal strip of the circuit breaker and permits installation of plug-in modules for communication and digital inputs/outputs.

As an additional function, it conducts the internal CB bus outside and thus permits the connection of the CB bus modules for communication I/O functionalities: IOM040 and the external IOM300 (which can also be connected directly to the equivalent contact without a Breaker Connect module on CB1 / CB2)

Depending on the supply voltage used, the following versions are available:

- External power supply 110 to 240 V AC/DC
- External power supply 24 to 48 V DC

The 24 V version of the Breaker Connect module is automatically configured in the breaker if the device is selected with a 6-series ETU and a communications interface. It is possible to change to the 240 V version by means of a Z option.

Actuator module (COM ACT)

The actuator module (COM ACT) is a communication link for the remote operation of auxiliary solenoids (CC/ST). With the actuator module, the 3WL10 air circuit breaker can be opened and closed by remote access parallel to access via the auxiliary conductor terminal system.

The module is automatically configured in the breaker if the device is selected with a 6-series ETU and a communication link.

Position signaling switch communication (COM PSS)

The position signaling switch COM PSS provides the signal via the communication link indicating whether the circuit breaker in the guide frame is inserted or removed.

Unlike the position signaling switch PSS, whose signals are available at the auxiliary conductor terminal system (see section on Accessories for auxiliary and signaling switches, [page 1/127](#)), the position switch COM PSS only signals two different states:

- INSERTED breaker position (circuit breaker in the CONNECT position)
- ISOLATED breaker position (circuit breaker in the TEST or DISCONNECT position)

The COM PSS is automatically configured in the breaker frame if a withdrawable version of the device is selected with a 6-series ETU and a communications interface.

Ready-to-close signaling switch for communication (COM RTC)

The ready-to-close signaling switch COM RTC provides the same information as the ready-to-close signaling switch RTC (see section on Accessories for auxiliary and signaling switches, [page 1/127](#)), i.e. it is used to query whether the circuit breaker is ready to close.

Unlike the RTC signaling switch, whose signals are available at the auxiliary contact system, the signals of the ready-to-close signaling switch COM RTC are forwarded via the communication link.

The COM RTC is automatically configured in the breaker if the device is selected with a 6-series ETU and a communications interface.

Internal digital I/O module IOM040

The digital I/O modules IOM040 provide two input and two output contacts for control and remote signaling of alarms and tripping of the circuit breaker. They can be used for the ETUs with display (6-series). Via the display of the ETU 6-series, defaults of the inputs and outputs can be selected and configured via the powerconfig software.

These modules are suitable for all ETUs of the 6-series.

External digital I/O module IOM300

The digital I/O modules IOM300 provide eleven input and ten output contacts for control and remote signaling of alarms and tripping of the circuit breaker. They can be used for the ETUs with display (6-series). Via the display of the ETU6xx, defaults of the inputs and outputs can be selected and configured via the powerconfig software. The IOM300 is intended for standard rail mounting.

The I/O module IOM300 can be fed from either a DC or AC supply and can be connected via the internal bus to the ETUs of the 3-series and 6-series. This does not necessarily require a Breaker Connect module, but still offers the option of connection.

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Function overview of the electronic trip system

Protection functions	ETU320	ETU350	ETU360	ETU650	ETU660	
	LI	LSI	LSIG	LSI	LSIG	
LT	LT: Overload protection I_r Protection function can be enabled/disabled	✓	✓	✓	✓ L=OFF rating plug	✓ L=OFF rating plug
	Setting range of operating value $I_r = I_n \times \dots$	0.4; 0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4	0.4; 0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4	0.4; 0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4	0.4 - 1; default 1 (in steps of 0.001)	0.4 - 1; default 1 (in steps of 0.001)
	Setting range of delay time t_r at $I^2 t$ (reference point $6 \times I_n$)	0.75; 1; 2; 5; 8; 10; 14; 17; 21; 25 s; default 0.75 s	0.75; 1; 2; 5; 8; 10; 14; 17; 21; 25 s; default 0.75 s	0.75; 1; 2; 5; 8; 10; 14; 17; 21; 25 s; default 0.75 s	0.75 - 36 s; (in steps of 0.25 s); default 36 s	0.75 - 36 s; (in steps of 0.25 s); default 36 s
	Overload protection mode switchable to characteristic IEC 60255-151	--	--	--	$I^4 t$: $\alpha=4$, $b=1296$ standard inverse SI: $\alpha=0.02$, $b=0.0364$ very inverse VI: $\alpha=1$, $b=5$ extremely inverse EI: $\alpha=2$, $b=35.2$ Default $I^2 t$	$I^4 t$: $\alpha=4$, $b=1296$ standard inverse SI: $\alpha=0.02$, $b=0.0364$ very inverse VI: $\alpha=1$, $b=5$ extremely inverse EI: $\alpha=2$, $b=35.2$ Default $I^2 t$
	$t_{\text{trip}} = \frac{t_r \times b}{\left(\frac{I_{\text{load}}}{I_r}\right)^\alpha - 1}$	--	--	--	--	--
	Setting range of delay time t_r for characteristic IEC 60255-151 (reference point $6 \times I_n$)	--	--	--	0.75 - 5 s; (in steps of 0.25 s); default 5 s	0.75 - 5 s; (in steps of 0.25 s); default 5 s
	Thermal memory can be enabled/disabled	--	--	--	✓	✓
Overload pre-alarm	50% - 100% $\times I_r$; default 90%; (in steps of 1%)	50% - 100% $\times I_r$; default 90%; (in steps of 1%)	50% - 100% $\times I_r$; default 90%; (in steps of 1%)	50% - 100% $\times I_r$; default 90%; (in steps of 1%)	50% - 100% $\times I_r$; default 90%; (in steps of 1%)	
ST	ST: Short-time delayed short-circuit protection I_{sd} Protection function can be enabled/disabled	--	✓	✓	✓	✓
	Characteristic	--	$I^2 t / t = \text{const.}$	$I^2 t / t = \text{const.}$	$I^2 t / t = \text{const.}$	$I^2 t / t = \text{const.}$
	Switchable short-time delayed short-circuit protection ($I^2 t$ -dependent function to fixed delay)	--	✓	✓	✓	✓
	Setting range of operating value $I_{sd} = I_n \times \dots$	--	1; 1.5; 2; 2.5; 3; 4; 6; 8; 10; default OFF	1; 1.5; 2; 2.5; 3; 4; 6; 8; 10; default OFF	0.6 - 10; default OFF; (in steps of 0.1)	0.6 - 10; default 1.5 OFF; (in steps of 0.1)
	Switchable short-time delayed short-circuit protection ($I^2 t$ -dependent function)	--	✓	✓	✓	✓
	Setting range of delay time t_{sd} (constant delay $t = k$)	--	0.08; 0.15; 0.22; 0.3; 0.4	0.08; 0.15; 0.22; 0.3; 0.4	0.05 - 0.4 s; default 0.05; (in steps of 0.01)	0.05 - 0.4 s; default 0.05; (in steps of 0.01)
	Setting range of delay time t_{sd} at $I^2 t$ (reference point $10 \times I_n$)	--	0.1; 0.2; 0.3; 0.4; 0.5; ($I^2 t$ -dependent); default 0.1	0.1; 0.2; 0.3; 0.4; 0.5; ($I^2 t$ -dependent); default 0.1	0.05 - 0.5 s ($I^2 t$ -dependent) (in steps of 0.01)	0.05 - 0.5 s ($I^2 t$ -dependent) (in steps of 0.01)
	Tripping can be disabled	--	--	--	✓	✓
	Switchover to alternative operating values possible with short-time-delayed short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed)	--	--	--	✓ Default OFF	✓ Default OFF
	Setting range of the switch-on phase (inrush adaptation)	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	0.10 - 30 s; default 0.1; (in steps of 0.01)
	Setting range $I_{sd} = I_n \times \dots$ during the switch-on phase (inrush adaptation)	--	--	--	0.6 - 10; default 10; (in steps of 0.1)	0.6 - 10; default 10; (in steps of 0.1)
	ZSI function test	--	--	--	--	--
	INST	INST: Instantaneous short-circuit protection I_i Protection function can be enabled/disabled	✓	✓	✓	✓
Setting range $I_i = I_n \times \dots$		OFF; 1.5; 2; 3; 4; 6; 8; 10; 12; 15; default 1.5	OFF; 1.5; 2; 3; 4; 6; 8; 10; 12; 15; default 1.5	OFF; 1.5; 2; 3; 4; 6; 8; 10; 12; 15; default 1.5	1.5 - 15; default 2; (in steps of 0.1)	1.5 - 15; default 2; (in steps of 0.1)
Switchover to alternative operating values with instantaneous short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible		--	--	--	✓ Default OFF	✓ Default OFF
Setting range of the switch-on phase (inrush adaptation)		--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	0.10 - 30 s; default 0.1; (in steps of 0.01)
Setting range $I_i = I_n \times \dots$ during the switch-on phase (inrush adaptation)		--	--	--	1.5 - 15; default 1.5; (in steps of 0.1)	1.5 - 15; default 1.5; (in steps of 0.1)
N	Neutral protection Neutral protection can be enabled/disabled	✓	✓	✓	✓	✓
	Current setting value $I_N = I_n \times \dots$	50%; 100%; 200%; default 50%	50%; 100%; 200%; default 50%	50%; 100%; 200%; default 50%	50%; 100%; 150%; 200%	50%; 100%; 150%; 200%

Protection functions	ETU320	ETU350	ETU360	ETU650	ETU660
	LI	LSI	LSIG	LSI	LSIG
GF: Ground-fault protection I_g	--	--	✓	--	✓
Protection function can be enabled/disabled	--	--	✓	--	✓
Ground-fault protection characteristic	--	--	$t = \text{const.} / I^2 t$; default $I^2 t$	--	$t = \text{const.} / I^2 t$; default const.
Setting range of operating value $I_g = I_n \times \dots$	--	--	0.1; 0.2; 0.3; 0.4; 0.5; 0.6; 0.7; 0.8; 1; default 0.1	--	0.1 - 1; default 0.1; (in steps of 0.001)
Setting range of delay time t_g (constant delay $t = k$)	--	--	0.1; 0.2; 0.4; 0.6; 0.8 s; (fixed delay)	--	0.1 s - 1 s; default 0.1 s; (in steps of 0.05 s)
Setting range of delay time t_g at $I^2 t$ (reference point $2 \times I_n$)	--	--	0.1; 0.2; 0.4; 0.6; 0.8 s ($I^2 t$ -dependent); default 0.1 ($I^2 t$)	--	0.1 s - 1 s; (in steps of 0.05 s)
Ground-fault protection pre-alarm	--	--	--	--	50% - 90% $\times I_r$; default 90%; (in steps of 1%)
Tripping can be disabled	--	--	--	--	✓
Switchover to the alternative of the external, directly measured ground-fault protection	--	--	--	--	✓ Default OFF
Switchover to alternative operating values with ground-fault current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	--	✓ Default OFF
Setting range of the switch-on phase (inrush adaptation)	--	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)
Extended parameter range with external auxiliary power supply of the ETU	--	--	I_g full range, otherwise I_g limited to min. 0.2 I_n or 0.25 I_n (for $I_n = 400$ A)	--	I_g full range, otherwise I_g limited to min. 0.2 I_n or 0.25 I_n (for $I_n = 400$ A) - t_g instantaneous possible
ZSI G function test	--	--	--	--	--

G

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Function overview of the electronic trip system

Protection functions	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG	
G direct	GF direct: Ground-fault protection direct measurement	--	--	--	--	✓ Default: Not installed;
	Protection function can be selected	--	--	--	--	Ground fault return transformer or RC transformer required.
	R_c - Residual current protection (with summation current transformer)	--	--	--	--	
	G_{ret} - Ground-fault return (transformer in star point)	--	--	--	--	
	R_c - Residual current protection (with summation current transformer)	--	--	--	--	✓ Alternative to GF and GRET; default OFF; can be activated with rating plug R_c & metering function Advanced
	Setting range of residual current operating value $I_{\Delta n}$ [A]	--	--	--	--	$I_{\Delta n}$ =3; 5; 7; 10; 20; 30 A; Default OFF; can be activated with rating plug R_c & metering function Advanced
	Setting range of delay time $t_{\Delta n}$	--	--	--	--	$t_{\Delta n}$ = 0.06 - 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 0.8 s
	G_{ret} - Ground-fault return (transformer in star point)	--	--	--	--	✓ Alternative to GF and R_c ; external power supply required.
	Design of G_{ret} transformer (ground fault return CT - I_{CT_rating})	--	--	--	--	100 A; 250 A; default 100 A
	Setting range of ground-fault return operating value $I_{g_ret} = I_{CT_rating} \times \dots$	--	--	--	--	0.1 - 1 x I_{CT_rating} ; default 0.1; (in steps of 0.001)
	Setting range of delay time t_{g_ret} (fixed) $t = k$	--	--	--	--	0.1 s - 1 s; default 0.1 s; (in steps of 0.05 s)
	Setting range of delay time t_{g_ret} at $I^2 t$ (reference point $4 \times I_n$)	--	--	--	--	0.1 s - 1 s; (in steps of 0.05 s)
	Ground-fault return pre-alarm	--	--	--	--	50% - 90% x I_f ; default 90%; (in steps of 1%)
Switchover to alternative operating values with ground-fault current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	--	✓ Default OFF	
Setting range of the switch-on phase (inrush adaptation)	--	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	
Setting range $I_g = I_n \times \dots$ during the switch-on phase (inrush adaptation)	--	--	--	--	0.1 - 1; default 1; (in steps of 0.01)	
DAS	DAS protection - Arc fault mitigation mode	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
Setting range of operating value $I_{l_arc} = I_n \times \dots$	--	--	--	1.5 - 15; default 1.5; (in steps of 0.1)	1.5 - 15; default 1.5; (in steps of 0.1)	
I_{nba}	Phase current unbalance I_{nba}	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range I_{nba} phase current unbalance	--	--	--	2% - 90%; default 50%; (in steps of 1%)	2% - 90%; default 50%; (in steps of 1%)
	Setting range for the delay time t_{nba} for phase current unbalance	--	--	--	0.50 - 60 s; default 10 s; (in steps of 0.5 s)	0.50 - 60 s; default 10 s; (in steps of 0.5 s)
Enabling/disabling of tripping on phase current unbalance	--	--	--	✓	✓	

Enhanced protection functions - only available with metering function (MF Advanced)		ETU320	ETU350	ETU360	ETU650	ETU660
		LI	LSI	LSIG	LSI	LSIG
DST	Directed short-circuit protection DST	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Enabling/disabling on directed (directional) short-circuit protection	--	--	--	✓	✓
	Setting range $I_{d\text{sd}} = I_n \times \dots$ in forward direction FW (top -> bottom)	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 2; (in steps of 0.1)
	Setting range $I_{d\text{sd}} = I_n \times \dots$ in backward direction BW (bottom -> top)	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 2; (in steps of 0.1)
	Switchable short-time delayed short-circuit protection (I^2t -dependent function)	--	--	--	✓	✓
	Setting range of delay time t_{dsd} FW in forward direction	--	--	--	0.1 - 0.5 s; default 0.2; (in steps of 0.01)	0.1 - 0.5 s; default 0.2; (in steps of 0.01)
	Setting range of delay time t_{dsd} BW in backward direction	--	--	--	0.1 - 0.5 s; default 0.2; (in steps of 0.01)	0.1 - 0.5 s; default 0.2 s; (in steps of 0.01 s)
	Switchover to alternative operating values possible with directed short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed)	--	--	--	✓	✓
	Setting range of the switch-on phase	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	0.10 - 30 s; default 0.1; (in steps of 0.01)
Setting range $I_{\text{dsd}} = I_n \times \dots$ during the switch-on phase in the forward direction FW	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 10; (in steps of 0.1)	
Setting range $I_{\text{dsd}} = I_n \times \dots$ during the switch-on phase in the backward direction BW	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 10; (in steps of 0.1)	
Settings DST phase difference angle	--	--	--	3.6°; 7.2°; 10.8°; 14.5°; 18.2°; 22.0°; 25.9°; 30°; 34.2°; 38.7°; 43.4°; 48.6°; 54.3°; 61.0°; 69.6°; default 3.6°	bottom -> top; top -> bottom; default: top -> bottom	
Definition of direction of power flow	--	--	--	bottom -> top; top -> bottom; default: top -> bottom	bottom -> top; top -> bottom; default: top -> bottom	
U _{nba}	Phase voltage unbalance U_{nba}	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range U _{nba} phase voltage unbalance	--	--	--	2% - 90%; default 50%; (in steps of 1%)	2% - 90%; default 50%; (in steps of 1%)
Setting range of the delay time $t_{\text{nba(U)}}$ for phase voltage unbalance	--	--	--	0.50 - 60 s; default 10 s; (in steps of 0.5 s)	0.50 - 60 s; default 10 s; (in steps of 0.5 s)	
Enabling/disabling of tripping on phase voltage unbalance	--	--	--	✓	✓	
U _u	Undervoltage protection U_u	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range of undervoltage protection $U_u = U_n \times \dots$	--	--	--	0.5 - 0.98; default 0.9; (in steps of 0.01)	0.5 - 0.98; default 0.9; (in steps of 0.01)
Setting range of the delay time for undervoltage protection $t_{\text{u(U)}}$	--	--	--	0.05 - 120 s; default 10; (in steps of 0.01 s)	0.05 - 120 s; default 10; (in steps of 0.01 s)	
Enabling/disabling of tripping on undervoltage protection	--	--	--	✓	✓	
U _o	Overvoltage protection U_o	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range of overvoltage protection $U_o = U_n \times \dots$	--	--	--	1.02 - 1.5; default 1.05; (in steps of 0.01)	1.02 - 1.5; default 1.05; (in steps of 0.01)
Setting range of the delay time for overvoltage protection $t_{\text{o(U)}}$	--	--	--	0.05 - 120 s; default 10 s; (in steps of 0.01 s)	0.05 - 120 s; default 10 s; (in steps of 0.01 s)	
Enabling/disabling of tripping on overvoltage protection	--	--	--	✓	✓	
f _u	Underfrequency protection f_u	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range for underfrequency protection $f_u = f_n \times \dots$	--	--	--	0.9 - 0.999; default 0.9; (in steps of 0.001)	0.9 - 0.999; default 0.9; (in steps of 0.001)
Setting range of the delay time for underfrequency $t_{\text{u(f)}}$	--	--	--	3 - 300 s; default 3 s; (in steps of 0.01 s)	3 - 300 s; default 3 s; (in steps of 0.01 s)	
Enabling/disabling of tripping on underfrequency protection	--	--	--	✓	✓	
f _o	Overfrequency protection f_o	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range for overfrequency protection $f_o = f_n \times \dots$	--	--	--	1.001 - 1.1; default 1.1; (in steps of 0.001)	1.001 - 1.1; default 1.1; (in steps of 0.001)
Setting range of the delay time for overfrequency $t_{\text{o(f)}}$	--	--	--	3 - 300 s; default 3 s; (in steps of 0.01 s)	3 - 300 s; default 3 s; (in steps of 0.01 s)	
Enabling/disabling of tripping on overfrequency protection	--	--	--	✓	✓	

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Function overview of the electronic trip system

Enhanced protection functions - only available with metering function (MF Advanced)		ETU320	ETU350	ETU360	ETU650	ETU660
		LI	LSI	LSIG	LSI	LSIG
RP	Reverse power protection: Reverse Power RP	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range for reverse power $P_{rp} = S_n \times \dots$	--	--	--	-0.050 to -1.0; default -0.1;	-0.050 to -1.0; default -0.1;
	Setting range of the delay time for reverse power protection	--	--	--	0.5 - 100 s; default 5 s; (in steps of 0.1 s)	0.5 - 100 s; default 5 s; (in steps of 0.1 s)
	Definition of direction of power flow	--	--	--	bottom -> top; top -> bottom; default: top -> bottom	bottom -> top; top -> bottom; default: top -> bottom
Alarms	Enabling/disabling of tripping on reverse power	--	--	--	✓	✓
	Pre-alarms PAL response thresholds - Function trigger	--	--	--	✓	✓
	Enabling/disabling of PAL response threshold overload current $I_{r_pal(1)}$	--	--	--	✓	✓
	Enabling/disabling of PAL response threshold overload current $I_{r_pal(2)}$	--	--	--	✓	✓
	Setting range of PAL response threshold overload current $I_{r_pal(1)} = I_r \times \dots$	--	--	--	50%, 100%; default 50%; (in steps of 1%)	50%, 100%; default 50%; (in steps of 1%)
	Setting range of PAL response threshold overload current $I_{r_pal(2)} = I_r \times \dots$	--	--	--	50%, 100%; default 50%; (in steps of 1%)	50%, 100%; default 50%; (in steps of 1%)
	Enabling/disabling of PAL response threshold rated current $I_{n_pal(1)}$	--	--	--	✓	✓
	Enabling/disabling of PAL response threshold rated current $I_{n_pal(2)}$	--	--	--	✓	✓
	Setting range of PAL response threshold overload current $I_{n_pal(1)} = I_n \times \dots$	--	--	--	0.1 - 10; default 3; (in steps of 0.01)	0.1 - 10; default 3; (in steps of 0.01)
	Setting range of PAL response threshold overload current $I_{n_pal(2)} = I_n \times \dots$	--	--	--	0.1 - 10; default 3; (in steps of 0.01)	0.1 - 10; default 3; (in steps of 0.01)
	Crossing the response threshold rated current $I_{n_pal(1)}$ Direction: from bottom, or from top	--	--	--	default: bottom -> top;	default: bottom -> top;
	Crossing the response threshold rated current $I_{n_pal(2)}$ Direction: from bottom, or from top	--	--	--	default: bottom -> top;	default: bottom -> top;
	Checking the phase sequence / alarm	--	--	--	✓	✓
	Checking the phase sequence can be enabled/disabled	--	--	--	✓	✓
	Setting range for phase sequence	--	--	--	L1L2L3; L3L2L1; default L1L2L3;	L1L2L3; L3L2L1; default L1L2L3;
Trip/alarm COS PHI	--	--	--	✓	✓	
Trip COS PHI can be enabled/disabled	--	--	--	✓	✓	
Setting range for checking the COS PHI	--	--	--	0.50 - 0.95; default 0.95; (in steps of 0.01)	0.50 - 0.95; default 0.95; (in steps of 0.01)	
Funct.	Frequency adaptation	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz
	Nominal voltage adaptation					
	Nominal voltage	--	--	--	100 V AC - 690 V AC; default 400 V AC	100 V AC - 690 V AC; default 400 V AC

Function overview of the electronic trip system

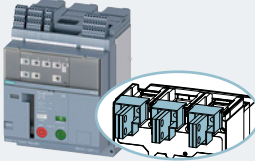
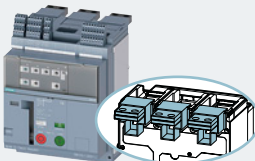
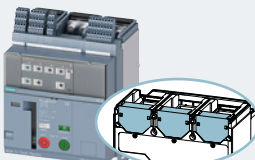
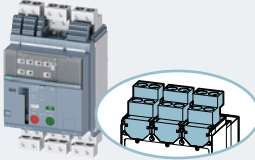
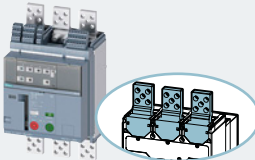
Equipment features of the ETU types	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG
Protection					
Line protection	✓	✓	✓	✓	✓
Generator protection	✓	✓	✓	✓	✓
Residual current protection (Rc)	--	--	--	--	✓
Ground-fault protection with current measurement at the star point (G _{RET})	--	--	--	--	✓
MCR protection function - Making current release (switchover to short circuit) with reduced trip time due to instantaneous release (INST) with subsequent deactivation of the INST	--	--	--	✓	✓
Monitoring of the start-up phase by changing the operating values (LT, ST, GF) during heavy starting or in the case of high inrush currents	--	--	--	✓	✓
Monitoring of direction of power flow (with metering function MF)	--	--	--	✓	✓
2nd parameter set	--	--	--	✓	✓
Equipment					
LCD	--	--	--	✓	✓
Setting with rotary coding switch	✓	✓	✓	--	--
Setting via control buttons next to the ETU display	--	--	--	✓	✓
Data display via control buttons next to the ETU display	--	--	--	✓	✓
Metering function as option MF Basic	--	--	--	✓	✓
Metering function as option MF Advanced	--	--	--	✓	✓
Internal I/O module IOM040 with 2 inputs and 2 outputs as an option	--	--	--	✓	✓
External I/O module IOM300 with 10I and 11O as an option	--	--	--	✓	✓
Front interface for parameterization, testing, and data read-out	✓	✓	✓	✓	✓
Communication					
Communication Modbus RTU, Modbus TCP, PROFIBUS, or PROFINET as an option	--	--	--	✓	✓
Self-monitoring and diagnostics					
Watchdog monitored (hardware, firmware) (tripping or only alarm)	✓	✓	✓	✓	✓
Continuous CT and tripping solenoid monitoring (tripping or only alarm)	✓	✓	✓	✓	✓
Protection by temperature monitoring (can be disabled)	✓	✓	✓	✓	✓
Thermal memory (LT adaptation) can be disabled	--	--	--	✓	✓
Write protection for communication	--	--	--	✓	✓
Deactivation of communication for external access	--	--	--	✓	✓

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

3-pole, fixed-mounted versions

Selection and ordering data

	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B B	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.				
Rear vertical connection							
	630 800 1000 1250		3WL1006-1□□01-□□□□ 3WL1008-1□□01-□□□□ 3WL1010-1□□01-□□□□ 3WL1012-1□□01-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection							
	630 800 1000 1250		3WL1006-1□□02-□□□□ 3WL1008-1□□02-□□□□ 3WL1010-1□□02-□□□□ 3WL1012-1□□02-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection							
	630 800 1000 1250		3WL1006-1□□03-□□□□ 3WL1008-1□□03-□□□□ 3WL1010-1□□03-□□□□ 3WL1012-1□□03-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection							
	630 800 1000 1250		3WL1006-1□□04-□□□□ 3WL1008-1□□04-□□□□ 3WL1010-1□□04-□□□□ 3WL1012-1□□04-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended							
	630 800 1000 1250		3WL1006-1□□05-□□□□ 3WL1008-1□□05-□□□□ 3WL1010-1□□05-□□□□ 3WL1012-1□□05-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Versions – always with S24 and AUX 4 CO signaling and auxiliary switches							
ETU 3-series – Communications interface and metering function not possible							
with ETU320 (LI)		A B					✓
with ETU350 (LSI)		A C					✓
with ETU360 (LSIG)		A D					✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function							
with ETU650 (LSI)		E					✓
with ETU660 (LSIG)		F					✓
With display, without communications interface, without metering function		A					✓
With display, with communications interface, without metering function		B					✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)		C					✓
With display, with communications interface, with Basic metering function (voltage tap at top)		D					✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)		E					✓
With display, with communications interface, with Advanced metering function (voltage tap at top)		F					✓

¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
 Size 0 for AC up to 1250 A

3-pole, fixed-mounted versions

1

	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 55 kA at 440 V, ECO breaking capacity N N	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Rear vertical connection	630 800 1000 1250		3WL1006-2□□01-□□□□ 3WL1008-2□□01-□□□□ 3WL1010-2□□01-□□□□ 3WL1012-2□□01-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection	630 800 1000 1250		3WL1006-2□□02-□□□□ 3WL1008-2□□02-□□□□ 3WL1010-2□□02-□□□□ 3WL1012-2□□02-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection	630 800 1000 1250		3WL1006-2□□03-□□□□ 3WL1008-2□□03-□□□□ 3WL1010-2□□03-□□□□ 3WL1012-2□□03-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection	630 800 1000 1250		3WL1006-2□□04-□□□□ 3WL1008-2□□04-□□□□ 3WL1010-2□□04-□□□□ 3WL1012-2□□04-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended	630 800 1000 1250		3WL1006-2□□05-□□□□ 3WL1008-2□□05-□□□□ 3WL1010-2□□05-□□□□ 3WL1012-2□□05-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Versions – always with S24 and AUX 4 CO signaling and auxiliary switches			Additional price
ETU 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	A B		✓
with ETU350 (LSI)	A C		✓
with ETU360 (LSIG)	A D		✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function			
with ETU650 (LSI)	E		✓
with ETU660 (LSIG)	F		✓
	A	With display, without communications interface, without metering function	✓
	B	With display, with communications interface, without metering function	✓
	C	With display, with communications interface, with Basic metering function (voltage tap at bottom)	✓
	D	With display, with communications interface, with Basic metering function (voltage tap at top)	✓
	E	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	✓
	F	With display, with communications interface, with Advanced metering function (voltage tap at top)	✓

¹⁾ Communications interface =
incl. Breaker Connect module
(24 V), COM RTC, COM ACT

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

3-pole, fixed-mounted versions


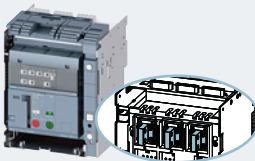
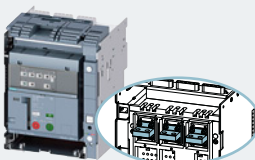
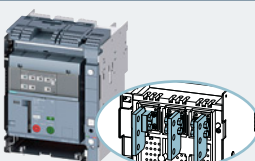
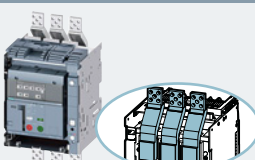
	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 66 kA at 440 V, standard breaking capacity S	(S)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Rear vertical connection	630 800 1000 1250		3WL1006-3□□01-□□□□ 3WL1008-3□□01-□□□□ 3WL1010-3□□01-□□□□ 3WL1012-3□□01-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection	630 800 1000 1250		3WL1006-3□□02-□□□□ 3WL1008-3□□02-□□□□ 3WL1010-3□□02-□□□□ 3WL1012-3□□02-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection	630 800 1000 1250		3WL1006-3□□03-□□□□ 3WL1008-3□□03-□□□□ 3WL1010-3□□03-□□□□ 3WL1012-3□□03-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection	630 800 1000 1250		3WL1006-3□□04-□□□□ 3WL1008-3□□04-□□□□ 3WL1010-3□□04-□□□□ 3WL1012-3□□04-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended	630 800 1000 1250		3WL1006-3□□05-□□□□ 3WL1008-3□□05-□□□□ 3WL1010-3□□05-□□□□ 3WL1012-3□□05-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Versions – always with S24 and AUX 4 CO signaling and auxiliary switches

			Additional price
ETU 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	A B		✓
with ETU350 (LSI)	A C		✓
with ETU360 (LSIG)	A D		✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function			
with ETU650 (LSI)	E		✓
with ETU660 (LSIG)	F		✓
	With display, without communications interface, without metering function	A	✓
	With display, with communications interface, without metering function	B	✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓

¹⁾ Communications interface =
incl. Breaker Connect module
(24 V), COM RTC, COM ACT

Selection and ordering data


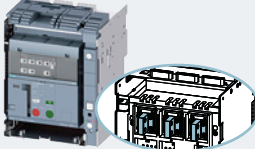
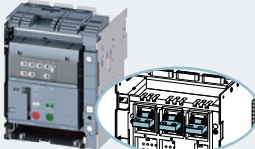
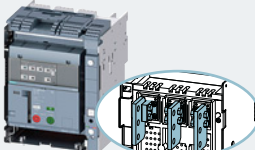
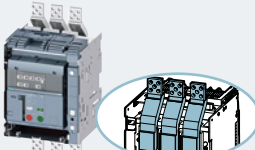
	Max. rated circuit breaker current $I_{n \text{ max}}$	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B B	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Withdrawable breaker version without guide frame						
	630 800 1000 1250		3WL1006-1□□30-□□□□ 3WL1008-1□□30-□□□□ 3WL1010-1□□30-□□□□ 3WL1012-1□□30-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit 1CA 1CA 1CA 1CA
With guide frame, rear vertical connection						
	630 800 1000 1250		3WL1006-1□□31-□□□□ 3WL1008-1□□31-□□□□ 3WL1010-1□□31-□□□□ 3WL1012-1□□31-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit 1CA 1CA 1CA 1CA
With guide frame, rear horizontal connection						
	630 800 1000 1250		3WL1006-1□□32-□□□□ 3WL1008-1□□32-□□□□ 3WL1010-1□□32-□□□□ 3WL1012-1□□32-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit 1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable lugs, rear terminal for main circuit connection						
	630 800 1000 1250		3WL1006-1□□34-□□□□ 3WL1008-1□□34-□□□□ 3WL1010-1□□34-□□□□ 3WL1012-1□□34-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit 1CA 1CA 1CA 1CA
With guide frame, front-accessible, extended terminal for main circuit connection						
	630 800 1000 1250		3WL1006-1□□35-□□□□ 3WL1008-1□□35-□□□□ 3WL1010-1□□35-□□□□ 3WL1012-1□□35-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit 1CA 1CA 1CA 1CA
Versions – always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches						
ETU 3-series – Communications interface and metering function not possible						
with ETU320 (LI)			A B			✓
with ETU350 (LSI)			A C			✓
with ETU360 (LSIG)			A D			✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function						
with ETU650 (LSI)			E			✓
with ETU660 (LSIG)			F			✓
With display, without communications interface, without metering function			A			✓
With display, with communications interface, without metering function			B			✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)			C			✓
With display, with communications interface, with Basic metering function (voltage tap at top)			D			✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)			E			✓
With display, with communications interface, with Advanced metering function (voltage tap at top)			F			✓

¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

3-pole, withdrawable versions

	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 55 kA at 440 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU		
Withdrawable breaker version without guide frame						
	630		3WL1006-20030-0000		1	1 unit 1CA
	800		3WL1008-20030-0000		1	1 unit 1CA
	1000		3WL1010-20030-0000		1	1 unit 1CA
	1250		3WL1012-20030-0000		1	1 unit 1CA
With guide frame, rear vertical connection						
	630		3WL1006-20031-0000		1	1 unit 1CA
	800		3WL1008-20031-0000		1	1 unit 1CA
	1000		3WL1010-20031-0000		1	1 unit 1CA
	1250		3WL1012-20031-0000		1	1 unit 1CA
With guide frame, rear horizontal connection						
	630		3WL1006-20032-0000		1	1 unit 1CA
	800		3WL1008-20032-0000		1	1 unit 1CA
	1000		3WL1010-20032-0000		1	1 unit 1CA
	1250		3WL1012-20032-0000		1	1 unit 1CA
Circular conductor terminal for Cu/Al cable lugs, rear terminal for main circuit connection						
	630		3WL1006-20034-0000		1	1 unit 1CA
	800		3WL1008-20034-0000		1	1 unit 1CA
	1000		3WL1010-20034-0000		1	1 unit 1CA
	1250		3WL1012-20034-0000		1	1 unit 1CA
With guide frame, front-accessible, extended terminal for main circuit connection						
	630		3WL1006-20035-0000		1	1 unit 1CA
	800		3WL1008-20035-0000		1	1 unit 1CA
	1000		3WL1010-20035-0000		1	1 unit 1CA
	1250		3WL1012-20035-0000		1	1 unit 1CA

Versions – always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches			Additional price
ETU 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	A B		✓
with ETU350 (LSI)	A C		✓
with ETU360 (LSIG)	A D		✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function			
with ETU650 (LSI)	E		✓
with ETU660 (LSIG)	F		✓
	A	With display, without communications interface, without metering function	✓
	B	With display, with communications interface, without metering function	✓
	C	With display, with communications interface, with Basic metering function (voltage tap at bottom)	✓
	D	With display, with communications interface, with Basic metering function (voltage tap at top)	✓
	E	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	✓
	F	With display, with communications interface, with Advanced metering function (voltage tap at top)	✓


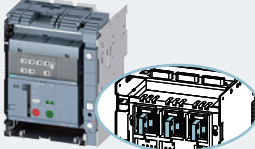
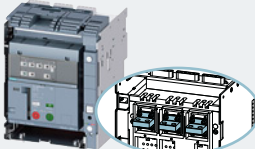
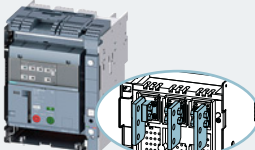
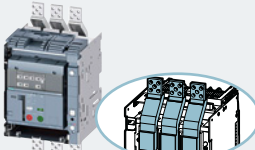
¹⁾ Communications interface =
incl. Breaker Connect module (24 V),
COM RTC, COM ACT, COM PSS

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

3-pole, withdrawable versions

1

Max. rated circuit breaker current I_n max		SD	I_{cu} 66 kA at 440 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
A		d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame							
	630 800 1000 1250		3WL1006-30030-0000 3WL1008-30030-0000 3WL1010-30030-0000 3WL1012-30030-0000		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, rear vertical connection							
	630 800 1000 1250		3WL1006-30031-0000 3WL1008-30031-0000 3WL1010-30031-0000 3WL1012-30031-0000		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, rear horizontal connection							
	630 800 1000 1250		3WL1006-30032-0000 3WL1008-30032-0000 3WL1010-30032-0000 3WL1012-30032-0000		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable lugs, rear terminal for main circuit connection							
	630 800 1000 1250		3WL1006-30034-0000 3WL1008-30034-0000 3WL1010-30034-0000 3WL1012-30034-0000		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, front-accessible, extended terminal for main circuit connection							
	630 800 1000 1250		3WL1006-30035-0000 3WL1008-30035-0000 3WL1010-30035-0000 3WL1012-30035-0000		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Versions – always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches

Additional price

ETU 3-series – Communications interface and metering function not possible

with ETU320 (LI) A B ✓

with ETU350 (LSI) A C ✓

with ETU360 (LSIG) A D ✓

ETU 6-series – Expandable with communications interface¹⁾ and metering function

with ETU650 (LSI) E ✓

with ETU660 (LSIG) F ✓

With display, without communications interface,
without metering function A ✓With display, with communications interface,
without metering function B ✓With display, with communications interface,
with Basic metering function (voltage tap at bottom) C ✓With display, with communications interface,
with Basic metering function (voltage tap at top) D ✓With display, with communications interface,
with Advanced metering function (voltage tap at bottom) E ✓With display, with communications interface,
with Advanced metering function (voltage tap at top) F ✓¹⁾ Communications interface = incl.
Breaker Connect module (24 V),
COM RTC, COM ACT, COM PSS

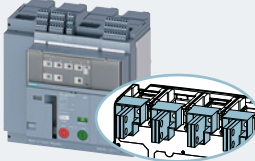
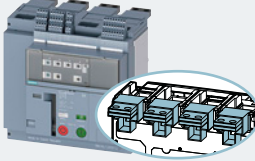
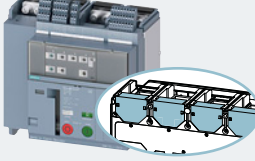
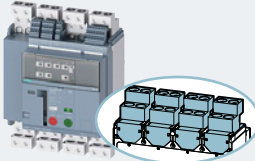
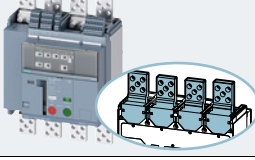
Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

4-pole, fixed-mounted versions

Selection and ordering data

		Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B Article No. www.siemens.com/ product?Article.No.	(B) Basic price per PU	PU (UNIT, SET, M)	PS	PG
		A	d					
Rear vertical connection								
	Neutral left	630		3WL1006-1□□11-□□□□		1	1 unit	1CA
		800		3WL1008-1□□11-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□11-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□11-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-1□□21-□□□□		1	1 unit	1CA	
	800		3WL1008-1□□21-□□□□		1	1 unit	1CA	
	1000		3WL1010-1□□21-□□□□		1	1 unit	1CA	
	1250		3WL1012-1□□21-□□□□		1	1 unit	1CA	
Rear horizontal connection								
	Neutral left	630		3WL1006-1□□12-□□□□		1	1 unit	1CA
		800		3WL1008-1□□12-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□12-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□12-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-1□□22-□□□□		1	1 unit	1CA	
	800		3WL1008-1□□22-□□□□		1	1 unit	1CA	
	1000		3WL1010-1□□22-□□□□		1	1 unit	1CA	
	1250		3WL1012-1□□22-□□□□		1	1 unit	1CA	
Front terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□13-□□□□		1	1 unit	1CA
		800		3WL1008-1□□13-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□13-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□13-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-1□□23-□□□□		1	1 unit	1CA	
	800		3WL1008-1□□23-□□□□		1	1 unit	1CA	
	1000		3WL1010-1□□23-□□□□		1	1 unit	1CA	
	1250		3WL1012-1□□23-□□□□		1	1 unit	1CA	
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□14-□□□□		1	1 unit	1CA
		800		3WL1008-1□□14-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□14-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□14-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-1□□24-□□□□		1	1 unit	1CA	
	800		3WL1008-1□□24-□□□□		1	1 unit	1CA	
	1000		3WL1010-1□□24-□□□□		1	1 unit	1CA	
	1250		3WL1012-1□□24-□□□□		1	1 unit	1CA	
Front connection bars, extended								
	Neutral left	630		3WL1006-1□□15-□□□□		1	1 unit	1CA
		800		3WL1008-1□□15-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□15-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□15-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-1□□25-□□□□		1	1 unit	1CA	
	800		3WL1008-1□□25-□□□□		1	1 unit	1CA	
	1000		3WL1010-1□□25-□□□□		1	1 unit	1CA	
	1250		3WL1012-1□□25-□□□□		1	1 unit	1CA	
Versions – always with S24 and AUX 4 CO signaling and auxiliary switches								
ETU 3-series – Communications interface and metering function not possible								
with ETU320 (LI)			A B					✓
with ETU350 (LSI)			A C					✓
with ETU360 (LSIG)			A D					✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function								
with ETU650 (LSI)			E					✓
with ETU660 (LSIG)			F					✓
With display, without communications interface, without metering function			A					✓
With display, with communications interface, without metering function			B					✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)			C					✓
With display, with communications interface, with Basic metering function (voltage tap at top)			D					✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)			E					✓
With display, with communications interface, with Advanced metering function (voltage tap at top)			F					✓

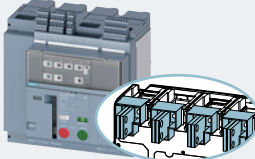
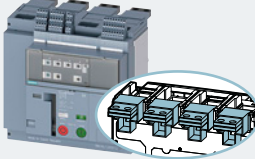
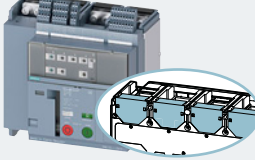
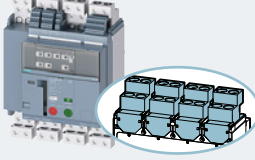
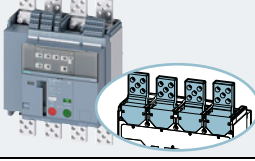
¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers Size 0 for AC up to 1250 A

4-pole, fixed-mounted versions

1

		Max. rated circuit breaker current $I_{n\ max}$	SD	I_{cu} 55 kA at 440 V, ECO breaking capacity N	N	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU			
Rear vertical connection								
	Neutral left	630 800 1000 1250		3WL1006-2□□11-□□□□ 3WL1008-2□□11-□□□□ 3WL1010-2□□11-□□□□ 3WL1012-2□□11-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□21-□□□□ 3WL1008-2□□21-□□□□ 3WL1010-2□□21-□□□□ 3WL1012-2□□21-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral left	630 800 1000 1250		3WL1006-2□□12-□□□□ 3WL1008-2□□12-□□□□ 3WL1010-2□□12-□□□□ 3WL1012-2□□12-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□22-□□□□ 3WL1008-2□□22-□□□□ 3WL1010-2□□22-□□□□ 3WL1012-2□□22-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection								
	Neutral left	630 800 1000 1250		3WL1006-2□□13-□□□□ 3WL1008-2□□13-□□□□ 3WL1010-2□□13-□□□□ 3WL1012-2□□13-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□23-□□□□ 3WL1008-2□□23-□□□□ 3WL1010-2□□23-□□□□ 3WL1012-2□□23-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral left	630 800 1000 1250		3WL1006-2□□14-□□□□ 3WL1008-2□□14-□□□□ 3WL1010-2□□14-□□□□ 3WL1012-2□□14-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□24-□□□□ 3WL1008-2□□24-□□□□ 3WL1010-2□□24-□□□□ 3WL1012-2□□24-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection								
	Neutral left	630 800 1000 1250		3WL1006-2□□15-□□□□ 3WL1008-2□□15-□□□□ 3WL1010-2□□15-□□□□ 3WL1012-2□□15-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□25-□□□□ 3WL1008-2□□25-□□□□ 3WL1010-2□□25-□□□□ 3WL1012-2□□25-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral left	630 800 1000 1250		3WL1006-2□□16-□□□□ 3WL1008-2□□16-□□□□ 3WL1010-2□□16-□□□□ 3WL1012-2□□16-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□26-□□□□ 3WL1008-2□□26-□□□□ 3WL1010-2□□26-□□□□ 3WL1012-2□□26-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection								
	Neutral left	630 800 1000 1250		3WL1006-2□□17-□□□□ 3WL1008-2□□17-□□□□ 3WL1010-2□□17-□□□□ 3WL1012-2□□17-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□27-□□□□ 3WL1008-2□□27-□□□□ 3WL1010-2□□27-□□□□ 3WL1012-2□□27-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral left	630 800 1000 1250		3WL1006-2□□18-□□□□ 3WL1008-2□□18-□□□□ 3WL1010-2□□18-□□□□ 3WL1012-2□□18-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□28-□□□□ 3WL1008-2□□28-□□□□ 3WL1010-2□□28-□□□□ 3WL1012-2□□28-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended								
	Neutral left	630 800 1000 1250		3WL1006-2□□19-□□□□ 3WL1008-2□□19-□□□□ 3WL1010-2□□19-□□□□ 3WL1012-2□□19-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□29-□□□□ 3WL1008-2□□29-□□□□ 3WL1010-2□□29-□□□□ 3WL1012-2□□29-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral left	630 800 1000 1250		3WL1006-2□□20-□□□□ 3WL1008-2□□20-□□□□ 3WL1010-2□□20-□□□□ 3WL1012-2□□20-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
	Neutral right	630 800 1000 1250		3WL1006-2□□30-□□□□ 3WL1008-2□□30-□□□□ 3WL1010-2□□30-□□□□ 3WL1012-2□□30-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Versions – always with S24 and AUX 4 CO signaling and auxiliary switches**ETU 3-series – Communications interface and metering function not possible**

			Additional price
with ETU320 (LI)	A B		✓
with ETU350 (LSI)	A C		✓
with ETU360 (LSIG)	A D		✓

ETU 6-series – Expandable with communications interface¹⁾ and metering function

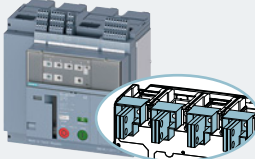
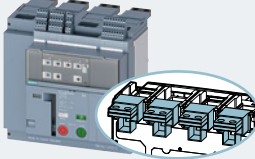
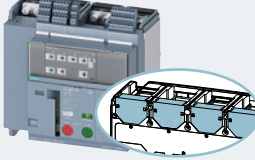
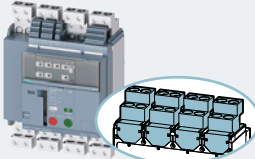
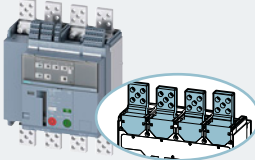
			Additional price
with ETU650 (LSI)	E		✓
with ETU660 (LSIG)	F		✓
With display, without communications interface, without metering function	A		✓
With display, with communications interface, without metering function	B		✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)	C		✓
With display, with communications interface, with Basic metering function (voltage tap at top)	D		✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E		✓
With display, with communications interface, with Advanced metering function (voltage tap at top)	F		✓

¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A


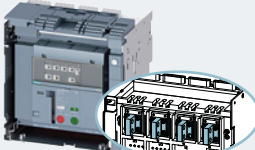
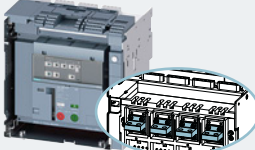
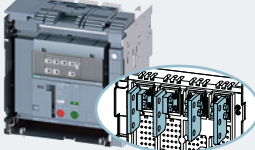
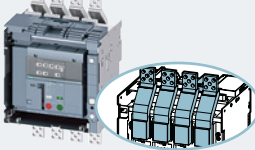
4-pole, fixed-mounted versions

		Max. rated circuit breaker current $I_{n\ max}$	SD	I_{cu} 66 kA at 440 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Rear vertical connection								
	Neutral left	630		3WL1006-3□□11-□□□□		1	1 unit	1CA
		800		3WL1008-3□□11-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□11-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□11-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□21-□□□□		1	1 unit	1CA
		800		3WL1008-3□□21-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□21-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□21-□□□□		1	1 unit	1CA
Rear horizontal connection								
	Neutral left	630		3WL1006-3□□12-□□□□		1	1 unit	1CA
		800		3WL1008-3□□12-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□12-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□12-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□22-□□□□		1	1 unit	1CA
		800		3WL1008-3□□22-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□22-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□22-□□□□		1	1 unit	1CA
Front terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□13-□□□□		1	1 unit	1CA
		800		3WL1008-3□□13-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□13-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□13-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□23-□□□□		1	1 unit	1CA
		800		3WL1008-3□□23-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□23-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□23-□□□□		1	1 unit	1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□14-□□□□		1	1 unit	1CA
		800		3WL1008-3□□14-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□14-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□14-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□24-□□□□		1	1 unit	1CA
		800		3WL1008-3□□24-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□24-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□24-□□□□		1	1 unit	1CA
Front connection bars, extended								
	Neutral left	630		3WL1006-3□□15-□□□□		1	1 unit	1CA
		800		3WL1008-3□□15-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□15-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□15-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□25-□□□□		1	1 unit	1CA
		800		3WL1008-3□□25-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□25-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□25-□□□□		1	1 unit	1CA

Versions – always with S24 and AUX 4 CO signaling and auxiliary switches				Additional price
ETU 3-series – Communications interface and metering function not possible				
with ETU320 (LI)		A B		✓
with ETU350 (LSI)		A C		✓
with ETU360 (LSIG)		A D		✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function				
with ETU650 (LSI)		E		✓
with ETU660 (LSIG)		F		✓
	With display, without communications interface, without metering function	A		✓
	With display, with communications interface, without metering function	B		✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C		✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D		✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E		✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F		✓

¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

Selection and ordering data


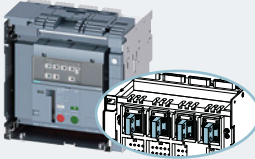
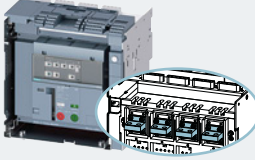
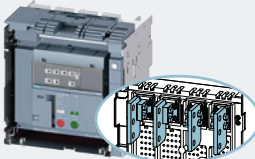
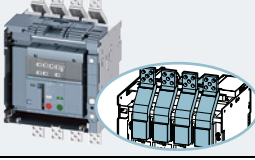
		Max. rated circuit breaker current I_n max	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B	B	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Withdrawable breaker version without guide frame								
	Neutral left	630		3WL1006-1□□40-□□□□		1	1 unit	1CA
		800		3WL1008-1□□40-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□40-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□40-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□50-□□□□		1	1 unit	1CA
		800		3WL1008-1□□50-□□□□		1	1 unit	1CA
1000			3WL1010-1□□50-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□50-□□□□		1	1 unit	1CA	
With guide frame, rear vertical connection								
	Neutral left	630		3WL1006-1□□41-□□□□		1	1 unit	1CA
		800		3WL1008-1□□41-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□41-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□41-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□51-□□□□		1	1 unit	1CA
		800		3WL1008-1□□51-□□□□		1	1 unit	1CA
1000			3WL1010-1□□51-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□51-□□□□		1	1 unit	1CA	
With guide frame, rear horizontal connection								
	Neutral left	630		3WL1006-1□□42-□□□□		1	1 unit	1CA
		800		3WL1008-1□□42-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□42-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□42-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□52-□□□□		1	1 unit	1CA
		800		3WL1008-1□□52-□□□□		1	1 unit	1CA
1000			3WL1010-1□□52-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□52-□□□□		1	1 unit	1CA	
With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□44-□□□□		1	1 unit	1CA
		800		3WL1008-1□□44-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□44-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□44-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□54-□□□□		1	1 unit	1CA
		800		3WL1008-1□□54-□□□□		1	1 unit	1CA
1000			3WL1010-1□□54-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□54-□□□□		1	1 unit	1CA	
With guide frame, front-accessible, extended terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□45-□□□□		1	1 unit	1CA
		800		3WL1008-1□□45-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□45-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□45-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□55-□□□□		1	1 unit	1CA
		800		3WL1008-1□□55-□□□□		1	1 unit	1CA
1000			3WL1010-1□□55-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□55-□□□□		1	1 unit	1CA	
Versions – always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches								
ETU 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A B				✓
with ETU350 (LSI)				A C				✓
with ETU360 (LSIG)				A D				✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function								
with ETU650 (LSI)				E				✓
with ETU660 (LSIG)				F				✓
		With display, without communications interface, without metering function		A				✓
		With display, with communications interface, without metering function		B				✓
		With display, with communications interface, with Basic metering function (voltage tap at bottom)		C				✓
		With display, with communications interface, with Basic metering function (voltage tap at top)		D				✓
		With display, with communications interface, with Advanced metering function (voltage tap at bottom)		E				✓
		With display, with communications interface, with Advanced metering function (voltage tap at top)		F				✓

¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

4-pole, withdrawable versions


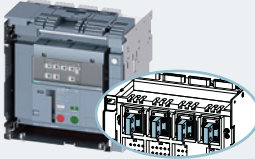
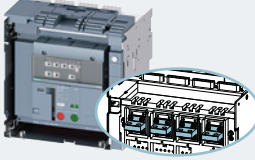
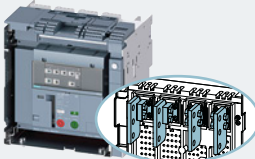
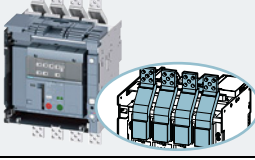
		Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 55 kA at 440 V, ECO breaking capacity N N	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A		d	Article No. www.siemens.com/product?Article.No.				
Withdrawable breaker version without guide frame								
	Neutral left	630		3WL1006-2□□40-□□□□		1	1 unit	1CA
		800		3WL1008-2□□40-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□40-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□40-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□50-□□□□		1	1 unit	1CA
		800		3WL1008-2□□50-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□50-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□50-□□□□		1	1 unit	1CA
With guide frame, rear vertical connection								
	Neutral left	630		3WL1006-2□□41-□□□□		1	1 unit	1CA
		800		3WL1008-2□□41-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□41-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□41-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□51-□□□□		1	1 unit	1CA
		800		3WL1008-2□□51-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□51-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□51-□□□□		1	1 unit	1CA
With guide frame, rear horizontal connection								
	Neutral left	630		3WL1006-2□□42-□□□□		1	1 unit	1CA
		800		3WL1008-2□□42-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□42-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□42-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□52-□□□□		1	1 unit	1CA
		800		3WL1008-2□□52-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□52-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□52-□□□□		1	1 unit	1CA
With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection								
	Neutral left	630		3WL1006-2□□44-□□□□		1	1 unit	1CA
		800		3WL1008-2□□44-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□44-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□44-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□54-□□□□		1	1 unit	1CA
		800		3WL1008-2□□54-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□54-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□54-□□□□		1	1 unit	1CA
With guide frame, front-accessible, extended terminal for main circuit connection								
	Neutral left	630		3WL1006-2□□45-□□□□		1	1 unit	1CA
		800		3WL1008-2□□45-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□45-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□45-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□55-□□□□		1	1 unit	1CA
		800		3WL1008-2□□55-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□55-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□55-□□□□		1	1 unit	1CA
Versions – always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches								
ETU 3-series – Communications interface and metering function not possible								
with ETU320 (LI)			A B					✓
with ETU350 (LSI)			A C					✓
with ETU360 (LSIG)			A D					✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function								
with ETU650 (LSI)			E					✓
with ETU660 (LSIG)			F					✓
With display, without communications interface, without metering function			A					✓
With display, with communications interface, without metering function			B					✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)			C					✓
With display, with communications interface, with Basic metering function (voltage tap at top)			D					✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)			E					✓
With display, with communications interface, with Advanced metering function (voltage tap at top)			F					✓

¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
 Size 0 for AC up to 1250 A

4-pole, withdrawable versions

1

		Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 66 kA at 440 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
	A		d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Withdrawable breaker version without guide frame								
	Neutral left	630		3WL1006-3□□40-□□□□		1	1 unit	1CA
		800		3WL1008-3□□40-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□40-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□40-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□50-□□□□		1	1 unit	1CA
		800		3WL1008-3□□50-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□50-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□50-□□□□		1	1 unit	1CA
With guide frame, rear vertical connection								
	Neutral left	630		3WL1006-3□□41-□□□□		1	1 unit	1CA
		800		3WL1008-3□□41-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□41-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□41-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□51-□□□□		1	1 unit	1CA
		800		3WL1008-3□□51-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□51-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□51-□□□□		1	1 unit	1CA
With guide frame, rear horizontal connection								
	Neutral left	630		3WL1006-3□□42-□□□□		1	1 unit	1CA
		800		3WL1008-3□□42-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□42-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□42-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□52-□□□□		1	1 unit	1CA
		800		3WL1008-3□□52-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□52-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□52-□□□□		1	1 unit	1CA
With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□44-□□□□		1	1 unit	1CA
		800		3WL1008-3□□44-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□44-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□44-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□54-□□□□		1	1 unit	1CA
		800		3WL1008-3□□54-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□54-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□54-□□□□		1	1 unit	1CA
With guide frame, front-accessible, extended terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□45-□□□□		1	1 unit	1CA
		800		3WL1008-3□□45-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□45-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□45-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-3□□55-□□□□		1	1 unit	1CA
		800		3WL1008-3□□55-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□55-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□55-□□□□		1	1 unit	1CA
Versions – always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches								
ETU 3-series – Communications interface and metering function not possible								
with ETU320 (LI)								
	A	B						✓
with ETU350 (LSI)								
	A	C						✓
with ETU360 (LSIG)								
	A	D						✓
ETU 6-series – Expandable with communications interface¹⁾ and metering function								
with ETU650 (LSI)								
		E						✓
with ETU660 (LSIG)								
		F						✓
		With display, without communications interface, without metering function	A					✓
		With display, with communications interface, without metering function	B					✓
		With display, with communications interface, with Basic metering function (voltage tap at bottom)	C					✓
		With display, with communications interface, with Basic metering function (voltage tap at top)	D					✓
		With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E					✓
		With display, with communications interface, with Advanced metering function (voltage tap at top)	F					✓

¹⁾ Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS


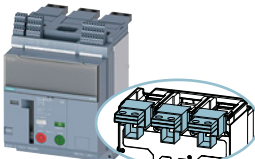
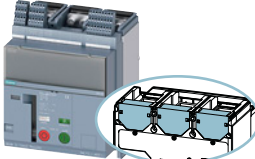
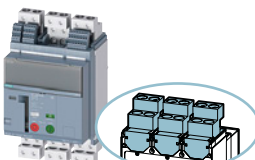
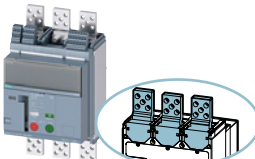
Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Fixed-mounted non-automatic air circuit breakers

1

Selection and ordering data

3-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 42 kA at 440 V, Class N N	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Rear vertical connection						
	630 800 1000 1250		3WL1006-2AA01-□□□□ 3WL1008-2AA01-□□□□ 3WL1010-2AA01-□□□□ 3WL1012-2AA01-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection						
	630 800 1000 1250		3WL1006-2AA02-□□□□ 3WL1008-2AA02-□□□□ 3WL1010-2AA02-□□□□ 3WL1012-2AA02-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-2AA03-□□□□ 3WL1008-2AA03-□□□□ 3WL1010-2AA03-□□□□ 3WL1012-2AA03-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-2AA04-□□□□ 3WL1008-2AA04-□□□□ 3WL1010-2AA04-□□□□ 3WL1012-2AA04-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended						
	630 800 1000 1250		3WL1006-2AA05-□□□□ 3WL1008-2AA05-□□□□ 3WL1010-2AA05-□□□□ 3WL1012-2AA05-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Note

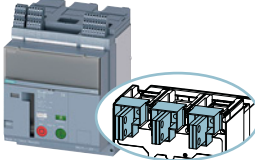
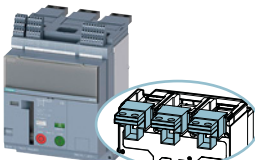

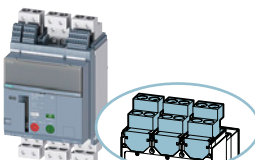
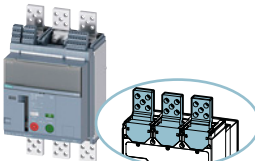
If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
 Size 0 for AC up to 1250 A

Fixed-mounted non-automatic air circuit breakers

1

3-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 50 kA at 440 V, Class S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Rear vertical connection						
	630 800 1000 1250		3WL1006-3AA01-□□□□ 3WL1008-3AA01-□□□□ 3WL1010-3AA01-□□□□ 3WL1012-3AA01-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection						
	630 800 1000 1250		3WL1006-3AA02-□□□□ 3WL1008-3AA02-□□□□ 3WL1010-3AA02-□□□□ 3WL1012-3AA02-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA03-□□□□ 3WL1008-3AA03-□□□□ 3WL1010-3AA03-□□□□ 3WL1012-3AA03-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA04-□□□□ 3WL1008-3AA04-□□□□ 3WL1010-3AA04-□□□□ 3WL1012-3AA04-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended						
	630 800 1000 1250		3WL1006-3AA05-□□□□ 3WL1008-3AA05-□□□□ 3WL1010-3AA05-□□□□ 3WL1012-3AA05-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA

Note

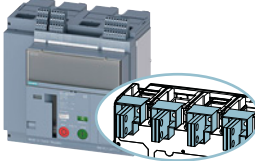
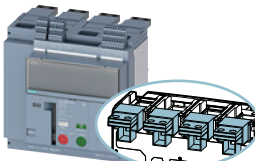
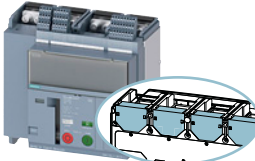
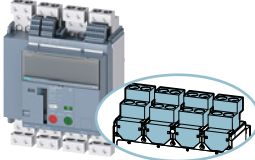
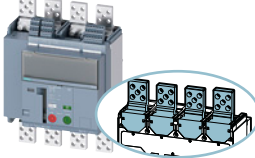
If the switch disconnecter is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Fixed-mounted non-automatic air circuit breakers

4-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 42 kA at 440 V, Class N	(N)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Rear vertical connection			N left	N right			
	630 800 1000 1250		3WL1006-2AA11-□□□□ 3WL1008-2AA11-□□□□ 3WL1010-2AA11-□□□□ 3WL1012-2AA11-□□□□	3WL1006-2AA21-□□□□ 3WL1008-2AA21-□□□□ 3WL1010-2AA21-□□□□ 3WL1012-2AA21-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection							
	630 800 1000 1250		3WL1006-2AA12-□□□□ 3WL1008-2AA12-□□□□ 3WL1010-2AA12-□□□□ 3WL1012-2AA12-□□□□	3WL1006-2AA22-□□□□ 3WL1008-2AA22-□□□□ 3WL1010-2AA22-□□□□ 3WL1012-2AA22-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection							
	630 800 1000 1250		3WL1006-2AA13-□□□□ 3WL1008-2AA13-□□□□ 3WL1010-2AA13-□□□□ 3WL1012-2AA13-□□□□	3WL1006-2AA23-□□□□ 3WL1008-2AA23-□□□□ 3WL1010-2AA23-□□□□ 3WL1012-2AA23-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection							
	630 800 1000 1250		3WL1006-2AA14-□□□□ 3WL1008-2AA14-□□□□ 3WL1010-2AA14-□□□□ 3WL1012-2AA14-□□□□	3WL1006-2AA24-□□□□ 3WL1008-2AA24-□□□□ 3WL1010-2AA24-□□□□ 3WL1012-2AA24-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended							
	630 800 1000 1250		3WL1006-2AA15-□□□□ 3WL1008-2AA15-□□□□ 3WL1010-2AA15-□□□□ 3WL1012-2AA15-□□□□	3WL1006-2AA25-□□□□ 3WL1008-2AA25-□□□□ 3WL1010-2AA25-□□□□ 3WL1012-2AA25-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Note

If the switch disconnecter is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_0) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
 Size 0 for AC up to 1250 A

Fixed-mounted non-automatic air circuit breakers

1

4-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 50 kA at 440 V, Class S		PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/product?Article.No.	Basic price per PU			
Rear vertical connection	630 800 1000 1250		N left	N right			
			3WL1006-2AA11-□□□□	3WL1006-2AA21-□□□□	1	1 unit	1CA
			3WL1008-2AA11-□□□□	3WL1008-2AA21-□□□□	1	1 unit	1CA
			3WL1010-2AA11-□□□□	3WL1010-2AA21-□□□□	1	1 unit	1CA
			3WL1012-2AA11-□□□□	3WL1012-2AA21-□□□□	1	1 unit	1CA
Rear horizontal connection	630 800 1000 1250		3WL1006-2AA12-□□□□	3WL1006-2AA22-□□□□	1	1 unit	1CA
			3WL1008-2AA12-□□□□	3WL1008-2AA22-□□□□	1	1 unit	1CA
			3WL1010-2AA12-□□□□	3WL1010-2AA22-□□□□	1	1 unit	1CA
			3WL1012-2AA12-□□□□	3WL1012-2AA22-□□□□	1	1 unit	1CA
Front terminal for main circuit connection	630 800 1000 1250		3WL1006-2AA13-□□□□	3WL1006-2AA23-□□□□	1	1 unit	1CA
			3WL1008-2AA13-□□□□	3WL1008-2AA23-□□□□	1	1 unit	1CA
			3WL1010-2AA13-□□□□	3WL1010-2AA23-□□□□	1	1 unit	1CA
			3WL1012-2AA13-□□□□	3WL1012-2AA23-□□□□	1	1 unit	1CA
Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection	630 800 1000 1250		3WL1006-2AA14-□□□□	3WL1006-2AA24-□□□□	1	1 unit	1CA
			3WL1008-2AA14-□□□□	3WL1008-2AA24-□□□□	1	1 unit	1CA
			3WL1010-2AA14-□□□□	3WL1010-2AA24-□□□□	1	1 unit	1CA
			3WL1012-2AA14-□□□□	3WL1012-2AA24-□□□□	1	1 unit	1CA
Front connection bars, extended	630 800 1000 1250		3WL1006-2AA15-□□□□	3WL1006-2AA25-□□□□	1	1 unit	1CA
			3WL1008-2AA15-□□□□	3WL1008-2AA25-□□□□	1	1 unit	1CA
			3WL1010-2AA15-□□□□	3WL1010-2AA25-□□□□	1	1 unit	1CA
			3WL1012-2AA15-□□□□	3WL1012-2AA25-□□□□	1	1 unit	1CA

Note

If the switch disconnecter is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_g) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.






The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Withdrawable non-automatic air circuit breakers

Selection and ordering data

3-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 42 kA at 440 V, Class N N	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?ArticleNo.		Basic price per PU		
A		d				
Withdrawable breaker version without guide frame						
	630		3WL1006-2AA30-□□□□	1	1 unit	1CA
	800		3WL1008-2AA30-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA30-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA30-□□□□	1	1 unit	1CA
With guide frame, rear vertical connection						
	630		3WL1006-2AA31-□□□□	1	1 unit	1CA
	800		3WL1008-2AA31-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA31-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA31-□□□□	1	1 unit	1CA
With guide frame, rear horizontal connection						
	630		3WL1006-2AA32-□□□□	1	1 unit	1CA
	800		3WL1008-2AA32-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA32-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA32-□□□□	1	1 unit	1CA
With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection						
	630		3WL1006-2AA34-□□□□	1	1 unit	1CA
	800		3WL1008-2AA34-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA34-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA34-□□□□	1	1 unit	1CA
With guide frame, front-accessible, extended terminal for main circuit connection						
	630		3WL1006-2AA35-□□□□	1	1 unit	1CA
	800		3WL1008-2AA35-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA35-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA35-□□□□	1	1 unit	1CA

Note


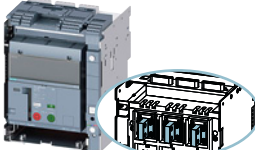
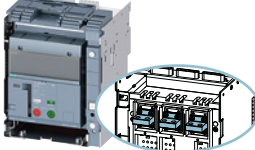
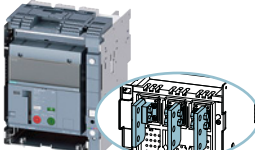
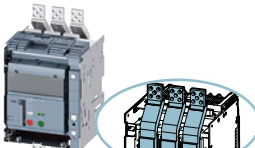
If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Withdrawable non-automatic air circuit breakers

1

3-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 50 kA at 440 V, Class S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Withdrawable breaker version without guide frame						
	630 800 1000 1250		3WL1006-3AA30-□□□□ 3WL1008-3AA30-□□□□ 3WL1010-3AA30-□□□□ 3WL1012-3AA30-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
With guide frame, rear vertical connection						
	630 800 1000 1250		3WL1006-3AA31-□□□□ 3WL1008-3AA31-□□□□ 3WL1010-3AA31-□□□□ 3WL1012-3AA31-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
With guide frame, rear horizontal connection						
	630 800 1000 1250		3WL1006-3AA32-□□□□ 3WL1008-3AA32-□□□□ 3WL1010-3AA32-□□□□ 3WL1012-3AA32-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA34-□□□□ 3WL1008-3AA34-□□□□ 3WL1010-3AA34-□□□□ 3WL1012-3AA34-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA
With guide frame, front-accessible, extended terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA35-□□□□ 3WL1008-3AA35-□□□□ 3WL1010-3AA35-□□□□ 3WL1012-3AA35-□□□□		1 1 1 1 unit	1CA 1CA 1CA 1CA

Note


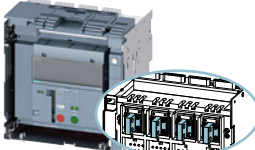
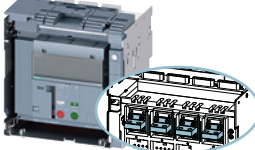
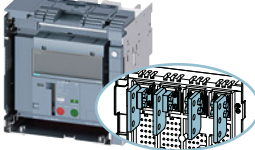
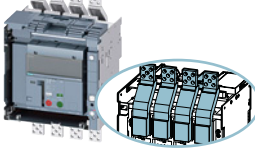
If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_B) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Withdrawable non-automatic air circuit breakers

4-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 42 kA at 440 V, Class N	(N)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame			N left	N right			
	630 800 1000 1250		3WL1006-2AA40-□□□□	3WL1006-2AA50-□□□□	1	1 unit	1CA
			3WL1008-2AA40-□□□□	3WL1008-2AA50-□□□□	1	1 unit	1CA
			3WL1010-2AA40-□□□□	3WL1010-2AA50-□□□□	1	1 unit	1CA
			3WL1012-2AA40-□□□□	3WL1012-2AA50-□□□□	1	1 unit	1CA
With guide frame, rear vertical connection							
	630 800 1000 1250		3WL1006-2AA41-□□□□	3WL1006-2AA51-□□□□	1	1 unit	1CA
			3WL1008-2AA41-□□□□	3WL1008-2AA51-□□□□	1	1 unit	1CA
			3WL1010-2AA41-□□□□	3WL1010-2AA51-□□□□	1	1 unit	1CA
			3WL1012-2AA41-□□□□	3WL1012-2AA51-□□□□	1	1 unit	1CA
With guide frame, rear horizontal connection							
	630 800 1000 1250		3WL1006-2AA42-□□□□	3WL1006-2AA52-□□□□	1	1 unit	1CA
			3WL1008-2AA42-□□□□	3WL1008-2AA52-□□□□	1	1 unit	1CA
			3WL1010-2AA42-□□□□	3WL1010-2AA52-□□□□	1	1 unit	1CA
			3WL1012-2AA42-□□□□	3WL1012-2AA52-□□□□	1	1 unit	1CA
With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection							
	630 800 1000 1250		3WL1006-2AA44-□□□□	3WL1006-2AA54-□□□□	1	1 unit	1CA
			3WL1008-2AA44-□□□□	3WL1008-2AA54-□□□□	1	1 unit	1CA
			3WL1010-2AA44-□□□□	3WL1010-2AA54-□□□□	1	1 unit	1CA
			3WL1012-2AA44-□□□□	3WL1012-2AA54-□□□□	1	1 unit	1CA
With guide frame, front-accessible, extended terminal for main circuit connection							
	630 800 1000 1250		3WL1006-2AA45-□□□□	3WL1006-2AA55-□□□□	1	1 unit	1CA
			3WL1008-2AA45-□□□□	3WL1008-2AA55-□□□□	1	1 unit	1CA
			3WL1010-2AA45-□□□□	3WL1010-2AA55-□□□□	1	1 unit	1CA
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Note


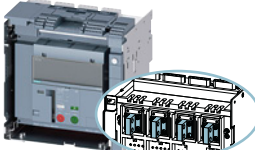
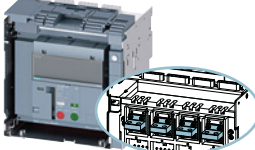
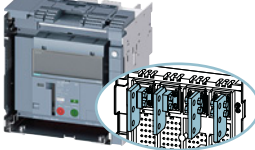
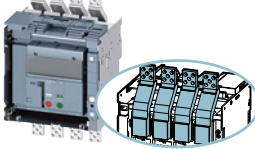
If the switch disconnecter is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_0) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
 Size 0 for AC up to 1250 A

Withdrawable non-automatic air circuit breakers

1

4-pole	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cc} 50 kA at 440 V, Class S	S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame			N left	N right			
	630		3WL1006-3AA40-□□□□	3WL1006-3AA50-□□□□	1	1 unit	1CA
	800		3WL1008-3AA40-□□□□	3WL1008-3AA50-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA40-□□□□	3WL1010-3AA50-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA40-□□□□	3WL1012-3AA50-□□□□	1	1 unit	1CA
With guide frame, rear vertical connection							
	630		3WL1006-3AA41-□□□□	3WL1006-3AA51-□□□□	1	1 unit	1CA
	800		3WL1008-3AA41-□□□□	3WL1008-3AA51-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA41-□□□□	3WL1010-3AA51-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA41-□□□□	3WL1012-3AA51-□□□□	1	1 unit	1CA
With guide frame, rear horizontal connection							
	630		3WL1006-3AA42-□□□□	3WL1006-3AA52-□□□□	1	1 unit	1CA
	800		3WL1008-3AA42-□□□□	3WL1008-3AA52-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA42-□□□□	3WL1010-3AA52-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA42-□□□□	3WL1012-3AA52-□□□□	1	1 unit	1CA
With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection							
	630		3WL1006-3AA44-□□□□	3WL1006-3AA54-□□□□	1	1 unit	1CA
	800		3WL1008-3AA44-□□□□	3WL1008-3AA54-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA44-□□□□	3WL1010-3AA54-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA44-□□□□	3WL1012-3AA54-□□□□	1	1 unit	1CA
With guide frame, front-accessible, extended terminal for main circuit connection							
	630		3WL1006-3AA45-□□□□	3WL1006-3AA55-□□□□	1	1 unit	1CA
	800		3WL1008-3AA45-□□□□	3WL1008-3AA55-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA45-□□□□	3WL1010-3AA55-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA45-□□□□	3WL1012-3AA55-□□□□	1	1 unit	1CA

Note

If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_b) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Options

Overview

		Article No. supplement	3WL10... - - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Additional price
Operators							
Type	U_s V AC/DC						
Manual operator (no spring charging motor)	--	0				None	
With spring charging motor	24-30	1				✓	
Scope of supply: Spring charging motor and spring charged signaling switch S21.	48-60	2				✓	
When a spring charging motor is used, a closing coil (CC) and a shunt release (ST) are useful to permit electrical ON/OFF switching.	110	3				✓	
	230	4				✓	
Closing coil, remote reset magnet (CC and RR)							
Type	U_s V AC/DC						
Without closing coil (CC), without remote reset magnet (RR)	--	A				None	
Closing coil (CC)	24	B				✓	
Recommended when spring charging motor is used.	30	C				✓	
	48	D				✓	
	60	E				✓	
	110 ... 120	F				✓	
	120 ... 127	G				✓	
	220 ... 240	H				✓	
	240 ... 250	J				✓	
Closing coil (CC) and remote reset magnet (RR) in addition	24	K				✓	
	110	L				✓	
	220	M				✓	
1st auxiliary release, shunt release (ST)							
Type	U_s V AC/DC						
Without 1st auxiliary release	--	0				None	
Shunt release (ST)	24	1				✓	
	30	2				✓	
	48	3				✓	
	60	4				✓	
	110 ... 120	5				✓	
	120 ... 127	6				✓	
	220 ... 240	7				✓	
	240 ... 250	8				✓	
2nd auxiliary release: Undervoltage release or 2nd shunt release (UVR / ST2)							
Type	U_s V AC/DC						
Without 2nd auxiliary release	--	A				None	
Undervoltage release (UVR)	24	B				✓	
	30	C				✓	
	48	D				✓	
	60	E				✓	
	110 ... 120	F				✓	
	120 ... 127	G				✓	
	220 ... 240	H				✓	
	240 ... 250	J				✓	
	380 ... 400	K				✓	
	415 ... 440	L				✓	
Undervoltage release (UVR), delayable with external time-delay device	24 ... 30	M				✓	
Scope of supply: UVR + time-delay device	110 ... 127	N				✓	
	220 ... 250	P				✓	
2nd shunt release (ST2)	24	Q				✓	
	30	R				✓	
	48	S				✓	
	60	T				✓	
	110 ... 120	U				✓	
	120 ... 127	V				✓	
	220 ... 240	W				✓	
	240 ... 250	X				✓	

Air Circuit Breakers

Size 0 for AC up to 1250 A

Options

1

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

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

□ □ □ +...+...

Additional price

Rating plugs					
Type/conditions	For ETU	Rated current I_n			
Only one module is possible per circuit breaker.					
As standard, the Electronic Trip Units are equipped with a rating plug for setting the rated current I_n , which is equal to the maximum rated circuit breaker current ($I_{n,max}$). To downrate the circuit breaker, a rated current smaller than $I_{n,max}$ is selected for the rating plug by means of a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection).					
Rating plugs for setting ($< I_{n,max}$) the rated current I_n .	All	400	B 0 4		--
		630	B 0 6		--
		800	B 0 8		--
		1000	B 1 0		--
Rating plug with overload protection L = OFF and for setting ($\leq I_{n,max}$) of rated current I_n .	Only for ETUs of the 6-series	400	L 0 4		--
		630	L 0 6		--
		800	L 0 8		--
		1000	L 1 0		--
		1250	L 1 2		--
Rc rating plug for ETU660, for enabling the residual current protection function and for setting ($\leq I_{n,max}$) of rated current I_n . The residual current function is only possible with the metering function MF Advanced.	For ETU660 only	400	G 0 4		--
		630	G 0 6		--
		800	G 0 8		--
		1250	G 1 2		--
CB bus modules - communication modules					
Conditions	Communication module	Protocol			
Contain the respective communication module.	COM040 ¹⁾	PROFIBUS	F 0 2		✓
	COM041 ¹⁾	PROFINET	F 0 3		✓
Up to 2 different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only 1 communication module can be used.	COM043	Modbus TCP	F 1 1		✓
	COM042	Modbus RTU	F 1 2		✓
Can only be used with ETUs of the 6-series.					
CB bus modules - I/O modules internal					
Conditions	Type	Version			
I/O module for 24 V DC with 2 inputs and 2 outputs with a maximum switching current per contact of 2 A at 24 V DC. When using a digital I/O module IOM040 (K56), only 1 communication module can be used. Can only be used with ETUs of the 6-series and communications interface selection.	Digital I/O module IOM040	2 inputs and 2 outputs	K 5 6		✓
Breaker Connect module					
Conditions	Type	Version			
When a circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed. By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110-240 V AC/DC.	Breaker Connect modules	110 - 240 V AC/DC	F 2 6		--

¹⁾ Availability scheduled for 1st quarter 2019

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Options

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Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z □ □ □ +...+...	Additional price
Auxiliary / signaling switches for 24 V DC digital signals for extremely low currents				
Conditions	Type	Version		
Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard. For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be replaced. The auxiliary/signaling switches for 24 V DC digital signals are designed for a - smallest load above 1 mA at 5 V DC and a - maximum breaking capacity of 100 mA at 24 V DC.	Ready-to-close signaling	1 CO digital	K 5 0	✓
	Auxiliary current switch ON / OFF AUX	4 CO digital	K 5 1	✓
	Auxiliary current switch ON / OFF AUX	2 CO standard + 2 CO digital	K 5 2	✓
	Tripped signaling switch S24	1 CO digital	K 5 3	✓
	Spring charged signaling switch S21 Only in combination with a spring charging motor.	1 CO digital	K 5 4	✓
	Position signaling switches PSS only with withdrawable versions ¹⁾	6 CO; 2x connected, 2x test and 2x disconnected.	K 5 5	✓
Mechanical operating cycles counter				
Conditions	Type	Version		
Mechanical operating cycles counter only possible in combination with a spring charging motor.	Mechanical operating cycles counter	5 digits	C 0 1	✓
Door sealing frame IP30				
Conditions	Type	Version		
For fixed-mounted and withdrawable breaker versions. Can only be used up to IP3X degree of protection. For IP4X and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.	Door sealing frame	IP3x	T 3 0	✓
Locking devices (for fixed-mounted breakers and withdrawable breakers)				
Conditions	Variant	Version		
Locking devices in OFF position to prevent unauthorized activation, in the operator panel (safe OFF), fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1	Cylinder lock	Ronis	S 0 8	✓
	Padlock 4 mm	Plastic for no more than 3 locks	S 2 2	✓
	Padlock 7 mm	Metal for no more than 1 lock	S 2 3	✓
	Padlock 8 mm	Metal for no more than 2 locks	S 0 7	✓
Padlockable protective cover ON and/or OFF on the operator panel	Padlock 4 mm	Plastic for no more than 3 locks	S 4 2	✓
	Padlock 7 mm	Metal for no more than 1 lock	S 4 3	✓
	Padlock 8 mm	Metal for no more than 2 locks	S 4 4	✓
Protective cover ON/OFF to protect against unintended actuation on the operator panel, cannot be locked.	Protective cover		S 4 1	✓

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

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z □□□ +...+...	Additional price
Locking devices (for withdrawable version) ¹⁾				
Conditions	Variant	Version		
Locking device against movement of the withdrawable circuit breaker; Safety lock for mounting on the circuit breaker	Cylinder lock	Ronis	R 7 8	✓
	Padlock 8 mm	For no more than 3 locks	R 6 5	✓
Locking mechanism to prevent movement of the withdrawable circuit breaker in disconnected position. Supplement to R78 and/or R65. Only possible when using R78 and/or R65.	Locking mechanism		R 7 9	✓
Mounting options: Modification of the side wall of the fixed-mounted circuit breaker for mechanical transmission of switch position ^{1) 2)}				
Conditions	Variant	Version		
Pre-installed mounting support standard (circuit breaker feet) for mounting the fixed breaker on the floor	Fixed breaker, Floor fixation	Mounting support, standard	A 0 7	✓
Pre-installed extension kit, for mechanical transmission of switch position on circuit breaker side panel; allows attachment of	Fixed breaker, Floor fixation	Mounting support extended ³⁾	S 5 6	✓
	Fixed breaker, Rear fixation on mounting plate	Side panel extended	S 5 7	✓
<ul style="list-style-type: none"> • Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15) • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) • Mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21) 				

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

²⁾ These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side panel.

³⁾ Not possible in connection with or as an alternative to the mounting support standard (A07).

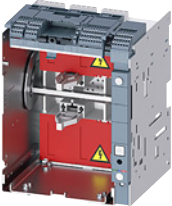
Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Accessories and spare parts

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Selection and ordering data

			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
Guide frames for ordering separately without circuit breakers¹⁾								
Description	Number of poles	Connection type						
	3-pole	Rear vertical		3VW8112-0AA01		1	1 unit	1CB
	3-pole	Rear horizontal		3VW8112-0AB01		1	1 unit	1CB
	3-pole	4 x 240 mm ² Cu/Al cable connection, for cable lugs		3VW8112-0AD01		1	1 unit	1CB
	3-pole	Front connection bars, extended		3VW8112-0AE01		1	1 unit	1CB
	4-pole	Rear vertical		3VW8112-0BA01		1	1 unit	1CB
	4-pole	Rear horizontal		3VW8112-0BB01		1	1 unit	1CB
	4-pole	4 x 240 mm ² Cu/Al cable connection, for cable lugs		3VW8112-0BD01		1	1 unit	1CB
	4-pole	Front connection bars, extended		3VW8112-0BE01		1	1 unit	1CB

¹⁾ All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable breaker and defined there by means of Z options and included with the switching device. PSS Standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

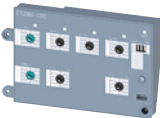



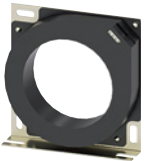

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3VW8....-.....-Z	Additional price
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> +...+...	
Locking devices (for guide frame)				
Description	Variant	Version		
Locking device to prevent movement of the withdrawable circuit breaker	Cylinder lock	Ronis	R 7 8	✓
Safety lock for mounting on the circuit breaker	Padlock 8 mm	For no more than 3 locks	R 6 5	✓
Locking mechanisms to prevent movement of the withdrawable circuit breaker in disconnected position. Supplement to R78 and/or R65. Only possible when using R78 or R65.	Locking mechanism		R 7 9	✓
Auxiliary / signaling switches for 24 V DC digital signals for extremely low				
Conditions	Type	Version		
Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard. For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be modified. The auxiliary/signaling switches for 24 V DC digital signals are designed for a - smallest load above 1 mA at 5 V DC and a - maximum breaking capacity of 100 mA at 24 V DC.	Position signaling switch PSS 24V digital	6 CO; 2 x connected, 2 x test and 2 x disconnected	K 5 5	✓

Air Circuit Breakers

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Size 0 for AC up to 1250 A

Accessories and spare parts

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				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				d					
Electronic Trip Units (ETU)									
	Type	Protection function/ version	Expansion for communications/ metering function/ enhanced protection functions possible						
	ETU320	LIN with rotary coding switches	No		3VW9011-5AA00		1	1 unit	1CB
	ETU350	LSIN with rotary coding switches	No		3VW9012-5AA00		1	1 unit	1CB
	ETU360	LSING with rotary coding switches	No		3VW9012-7AA00		1	1 unit	1CB
	ETU650	LSIN with display	Yes		3VW9017-5AA00		1	1 unit	1CB
	ETU660	LSING with display	Yes		3VW9017-7AA00		1	1 unit	1CB
Metering function for ETU650 or ETU660									
	Description	Protection function / version							
	Metering function	MF Basic			3VW9011-0AT01		1	1 unit	1CB
		MF Advanced			3VW9011-0AT04		1	1 unit	1CB
	Set of cables for voltage tap for MF	For 4-pole circuit breakers with neutral right (positioned at top or bottom)			3VW9011-0AT08		1	1 unit	1CB
		For 3-pole circuit breakers; positioned at top			3VW9011-0AT72		1	1 unit	1CB
		For 3-pole circuit breakers; positioned at bottom			3VW9011-0AT73		1	1 unit	1CB
		For 4-pole circuit breakers; positioned at top; neutral left			3VW9011-0AT75		1	1 unit	1CB
	For 4-pole circuit breakers; positioned at bottom; neutral left			3VW9011-0AT76		1	1 unit	1CB	
Rogowski CT solo external neutral									
	Description	Can be used for ETU							
	For 3-pole circuit breakers only	ETU320, ETU350, ETU360 / ETU650, ETU660			3VW9011-0AA30		1	1 unit	1CB
CT external for grounded transformer star point									
	Description	Can be used for ETU							
	$G_{ret} =$ Ground return 100 A	ETU660			3VW9011-0GF30		1	1 unit	1CB
	$G_{ret} =$ Ground return 250 A	ETU660			3VW9011-0GF31		1	1 unit	1CB
Summation current transformer external Rc-CT for residual current measurement									
	Description	Can be used for ETU							
	For external residual current measurement	ETU660 Only with MF Advanced metering function and Rc rating plug			3VW9011-0RC30		1	1 unit	1CB

Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Accessories and spare parts

1

	SD	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Rating plugs



Only one module is possible per circuit breaker.

As standard, the Electronic Trip Units are equipped with a rating plug for setting the rated current I_n , 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 or equal to $I_{n,max}$. To downrate the circuit breaker, a rated current smaller than $I_{n,max}$ is selected for the rating plug by means of a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection).

Description	For ETU	Rated current I_n A				
Rating plugs for setting ($< I_{n,max}$) the rated current I_n .	All	400	3VW9011-0AA53	1	1 unit	1CB
		630	3VW9011-0AA55	1	1 unit	1CB
		800	3VW9011-0AA56	1	1 unit	1CB
		1000	3VW9011-0AA57	1	1 unit	1CB
		1250	3VW9011-0AA58	1	1 unit	1CB
Rating plug with overload protection L = OFF and for setting ($< I_{n,max}$) the rated current I_n .	Only for ETUs of the 6-series	400	3VW9011-0LF53	1	1 unit	1CB
		630	3VW9011-0LF55	1	1 unit	1CB
		800	3VW9011-0LF56	1	1 unit	1CB
		1000	3VW9011-0LF57	1	1 unit	1CB
		1250	3VW9011-0LF58	1	1 unit	1CB
Rating plug Rc for ETU660, for enabling the residual current protection function and setting ($< I_{n,max}$) the rated current I_n . The residual current function is only possible with the metering function MF Advanced.	For ETU660 only	400	3VW9011-0RC53	1	1 unit	1CB
		630	3VW9011-0RC55	1	1 unit	1CB
		800	3VW9011-0RC56	1	1 unit	1CB
		1250	3VW9011-0RC58	1	1 unit	1CB

Remote reset magnet for tripped signaling



Description	Can be used for ETU	Version				
Remote reset magnet (RR) for resetting the circuit breaker after tripping as a result of overcurrent conditions	All	24 V DC	3VW9011-0AK03	1	1 unit	1CB
	All	110 V AC/DC	3VW9011-0AK05	1	1 unit	1CB
	All	250 V AC/DC	3VW9011-0AK06	1	1 unit	1CB

Replacement battery for ETU



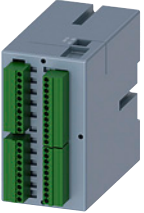



Description	Can be used for ETU					
Replacement battery for Electronic Trip Unit	All		3VW9011-0AT38	1	1 unit	1CB

CB bus modules - communication modules



Description	Communication module	Protocol				
These contain the communication module.	COM040 ¹⁾	PROFIBUS	3VW9011-0AT15	1	1 unit	1CB
	COM041 ¹⁾	PROFINET	3VW9011-0AT14	1	1 unit	1CB
Two different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only one communication module can be used.	COM043	Modbus TCP	3VW9011-0AT16	1	1 unit	1CB
	COM042	Modbus RTU	3VW9011-0AT17	1	1 unit	1CB
Can only be used with ETUs of the 6-series and require a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected.						

¹⁾ Start of delivery scheduled for 1st quarter 2019




	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	www.siemens.com/product?Article No.				
CB bus modules - I/O modules external IOM300						
	Description	Type	Version			
	External I/O module for snapping onto DIN rail with 11 inputs and 10 outputs for voltages ≤ 150 V DC and for 250 V AC. Maximum switching current per contact: - 2 A at ≤ 30 V DC - 0.8 A at 50 V DC - 0.2 A at 150 V DC - 4 A at 250 V AC Can only be used with ETUs of the 6-series	Digital I/O module IOM300	11 inputs and 10 outputs	3VW9011-0AT20	1	1 unit 1CB
CB bus modules - I/O modules internal IOM040						
	Description	Type	Version			
	I/O module with 2 inputs and 2 outputs for voltages ≤ 150 V DC and for 250 V AC. Maximum switching current per contact: - 2 A at ≤ 30 V DC - 0.8 A at 50 V DC - 0.2 A at 150 V DC - 4 A at 250 V AC When using a digital I/O module IOM040, only 1 communication module can be used. Can only be used with ETUs of the 6-series	Digital I/O module IOM040	2 inputs and 2 outputs	3VW9011-0AT30	1	1 unit 1CB
Actuator module COM ACT						
	Description					
	For switching the circuit breaker on/off remotely via communication. Actuation of the closing coil (CC) and the 1st shunt release (ST). Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt release. Can only be used with ETUs of the 6-series. Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration.			3VW9011-0AT10	1	1 unit 1CB
Breaker Connect module						
	Description	Type	Version			
	External power supply for the electronics components	Breaker Connect module	110 - 240 V AC/DC 24 - 48 V DC	3VW9011-0AT06 3VW9011-0AT07	1	1 unit 1CB





Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Accessories and spare parts

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	SD	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Auxiliary contact signals for communication							
	Description	Type	Version				
	<p>Auxiliary contacts for signaling the readiness to close or position signaling switches of the withdrawable positions.</p> <p>Can only be used in combination with communication module.</p> <p>Can be combined with standard position signaling switches or ready-to-close signaling contacts.</p>	<p>Ready-to-close signaling switch for communication COM RTC</p> <p>Position signaling switch for withdrawable breaker COM PSS only</p> <p>Note: Both signaling switches automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker (COM PSS only with withdrawable versions).</p>	<p>For communications interface</p> <p>For communications interface</p>	<p>3VW9011-0AT11</p> <p>3VW9011-0AT12</p>	1	1 unit	1CB
Test devices and Breaker Data Adapters							
	Description		Version				
	<p>Test device TD310 for the trip test via ETU and tripping solenoid including release.</p> <p>The ETU and the tripping solenoids are activated by means of a battery built into the test device. On activation in the ETU 6-series, the parameters can be configured on the display.</p> <p>Can be used for all ETU 3-series and 6-series.</p>		TD310	3VW9011-0AT32	1	1 unit	1CB
	<p>Breaker Data Adapter TD410 as gateway for the parameterization of the ETU with powerconfig and the generation of a report of the set parameters with powerservice.</p> <p>Can be used for all ETU 3-series and 6-series.</p>		TD410	3VW9011-0AT34	1	1 unit	1CB
	<p>Test device and Breaker Data Adapter TD420 as gateway for parameterization of the ETU with powerconfig:</p> <ul style="list-style-type: none"> - Testing a tripping operation using powerconfig <p>and the powerservice software:</p> <ul style="list-style-type: none"> - Testing of the basic protection functions LSING - Testing of the enhanced protection functions - Test data storage - Readout of ETU buffer - Generation of a report of the set parameters <p>Can be used for all ETU 3-series and 6-series.</p>		TD420	3VW9011-0AT33	1	1 unit	1CB
Auxiliary conductor terminals in push-in version							
	Description		Version				
	<p>10 auxiliary conductor terminals in push-in version for upgrading fixed-mounted breakers and guide frames</p> <p>The device is always equipped at the factory with the exact number of auxiliary conductor terminals required.</p>		Push-in	3VW9011-0AB11	1	10 units	1CB




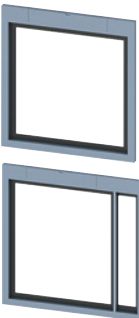
	SD	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG		
Auxiliary / signaling switches								
 <p>Auxiliary and signaling switches are each offered in two versions:</p> <p>a) Standard version for currents > 100 mA and up to 400 V AC,</p> <ul style="list-style-type: none"> - smallest load above 100 mA at 24 V DC and a - maximum breaking capacity of 5 A at 250 V AC. <p>b) Digital version for currents < 100 mA for PLC connections,</p> <ul style="list-style-type: none"> - smallest load above 1 mA at 5 V DC and a - maximum breaking capacity of 100 mA at 24 V DC. <p>For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed breakers a 3VW9011-0BB5x side-wall modification.</p>	Description	Type	Version					
	Auxiliary and signaling switches are each offered in two versions:	Ready-to-close signaling switch	1 CO standard	3VW9011-0AH01	1	1 unit	1CB	
		RTC always included in every device	1 CO digital	3VW9011-0AH02	1	1 unit	1CB	
	a) Standard version for currents > 100 mA and up to 400 V AC,	Auxiliary switch ON/OFF AUX always included in every device	4 CO standard	3VW9011-0AG01	1	1 unit	1CB	
	- smallest load above 100 mA at 24 V DC and a		4 CO digital	3VW9011-0AG02	1	1 unit	1CB	
			2 CO standard + 2 CO digital	3VW9011-0AG03	1	1 unit	1CB	
	- maximum breaking capacity of 5 A at 250 V AC.	External auxiliary switch ON/OFF AUX	15 CO standard	3VW9011-0AG05	1	1 unit	1CB	
			15 CO digital	3VW9011-0AG06	1	1 unit	1CB	
	b) Digital version for currents < 100 mA for PLC connections,	Tripped signaling switch S24 always included in every circuit breaker	1 CO standard	3VW9011-0AH14	1	1 unit	1CB	
	- smallest load above 1 mA at 5 V DC and a		1 CO digital	3VW9011-0AH15	1	1 unit	1CB	
	- maximum breaking capacity of 100 mA at 24 V DC.	Spring charged signaling switch S21	1 CO standard	3VW9011-0AH10	1	1 unit	1CB	
			1 CO digital	3VW9011-0AH08	1	1 unit	1CB	
	For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed breakers a 3VW9011-0BB5x side-wall modification.	Only in combination with a spring charging motor and always included in device configuration with MO.	Position signaling switches PSS only with withdrawable versions. Always included in every frame or withdrawable circuit breaker.	6 CO; 2x connected, 2x test and 2x disconnected; standard	3VW9011-0AH11	1	1 unit	1CB
			6 CO; 2x inserted, 2x test and 2x disconnected; digital.	3VW9011-0AH12	1	1 unit	1CB	
Fixation for external auxiliary switches AUX 15 CO								
 <p>Fixation for external auxiliary switches ON/OFF AUX 15 CO.</p> <p>External auxiliary switches ON/OFF AUX 15 CO are to be ordered separately.</p>	Description	Version						
	Fixation for external auxiliary switches ON/OFF AUX 15 CO.	Fixed breakers, rear wall or floor fixation (as a basis for this, the Z option S56 (3VW9011-0BB52) or S57 (3VW9011-0BB53) must additionally be used)		3VW9011-0AG15	1	1 unit	1CB	
External auxiliary switches ON/OFF AUX 15 CO are to be ordered separately.	For guide frame		3VW9011-0AG17	1	1 unit	1CB		
Spring charging motors (MO)								
 <p>Spring charging motor for automatic charging of the stored energy operating mechanism</p>	Description	Version						
		24 ... 30 V AC/DC	3VW9011-0AF01	1	1 unit	1CB		
		48 ... 60 V AC/DC	3VW9011-0AF02	1	1 unit	1CB		
		100 ... 130 V AC/DC	3VW9011-0AF03	1	1 unit	1CB		
	220 ... 250 V AC/DC	3VW9011-0AF04	1	1 unit	1CB			
Closing coil / shunt release CC / ST								
 <p>Closing coil / shunt release (CC / ST)</p>	Description	Version						
		24 V AC/DC	3VW9011-0AD01	1	1 unit	1CB		
		30 V AC/DC	3VW9011-0AD02	1	1 unit	1CB		
		48 V AC/DC	3VW9011-0AD03	1	1 unit	1CB		
		60 V AC/DC	3VW9011-0AD04	1	1 unit	1CB		
		110 ... 120 V AC/DC	3VW9011-0AD05	1	1 unit	1CB		
		120 ... 127 V AC/DC	3VW9011-0AD06	1	1 unit	1CB		
		220 ... 240 V AC/DC	3VW9011-0AD07	1	1 unit	1CB		
		240 ... 250 V AC/DC	3VW9011-0AD08	1	1 unit	1CB		
		380 ... 400 V AC	3VW9011-0AD17	1	1 unit	1CB		
	415 ... 440 V AC	3VW9011-0AD18	1	1 unit	1CB			


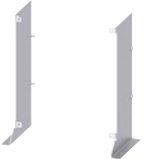
Air Circuit Breakers

NEW 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Accessories and spare parts

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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Function test unit TD320 for closing coil / shunt release							
 <p>The TD320 test unit allows the operational availability and functions of the closing coils and shunt releases with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested.</p> <p>The operational availability test is performed cyclically at intervals of 30 seconds. The unit has visual indicators in the form of LEDs on the front in order to display the following states:</p> <p>LED POWER ON LIT: Correct function of the YO/YC test unit</p> <p>LED DEACTIVATION LIT: Power supply failure, wire break</p> <p>LED SHORT-CIRCUIT LIT: Winding short-circuit</p> <p>LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply</p> <p>LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt release OK</p>	Description	Version					
		For all closing coils / shunt releases	3VW9011-0AT31		1	1 unit	1CB
Undervoltage releases UVR							
	Description	Version					
	Undervoltage release	24 V AC/DC	3VW9011-0AE01		1	1 unit	1CB
	UVR	30 V AC/DC	3VW9011-0AE02		1	1 unit	1CB
		48 V AC/DC	3VW9011-0AE03		1	1 unit	1CB
		60 V AC/DC	3VW9011-0AE04		1	1 unit	1CB
		110 ... 120 V AC/DC	3VW9011-0AE05		1	1 unit	1CB
		120 ... 127 V AC/DC	3VW9011-0AE06		1	1 unit	1CB
		220 ... 240 V AC/DC	3VW9011-0AE07		1	1 unit	1CB
		240 ... 250 V AC/DC	3VW9011-0AE08		1	1 unit	1CB
	380 ... 400 V AC	3VW9011-0AE17		1	1 unit	1CB	
	415 ... 440 V AC	3VW9011-0AE18		1	1 unit	1CB	
External time-delay device for undervoltage release							
	Description	Version					
	External time-delay device for undervoltage release UVR with adjustable delay time from 0.5 to 3 s.	24 ... 30 V AC/DC	3VW9011-0AE10		1	1 unit	1CB
		48 V AC/DC	3VW9011-0AE11		1	1 unit	1CB
		60 V AC/DC	3VW9011-0AE15		1	1 unit	1CB
		110 ... 127 V AC/DC	3VW9011-0AE12		1	1 unit	1CB
	Suitable for mounting onto standard rail.	220 ... 250 V AC/DC	3VW9011-0AE13		1	1 unit	1CB
Mechanical operating cycles counter							
	Description	Type	Version				
	Mechanical operating cycles counter only possible in combination with a spring charging motor.	Mechanical operating cycles counter	5 digits	3VW9011-0AH07	1	1 unit	1CB
Door sealing frame IP30							
	Description	Type	Version				
	For fixed-mounted and withdrawable breaker versions. Can only be used up to IP3x degree of protection.	For fixed breakers	IP3x	3VW9011-0AP01	1	1 unit	1CB
		For withdrawable breakers	IP3x	3VW9011-0AP02	1	1 unit	1CB
	For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.						
	Replacement part for Z option T30.						

	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Protective cover IP54							
	Description	Type	Version				
	Protective cover / hood IP54 lockable for fixed breakers and with-drawable breakers, for implementing degrees of protection IP4x and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame	Lock with unique key	IP54	3VW9011-0AP03	1	1 unit	1CB
		Lock with standard key	IP54	3VW9011-0AP13	1	1 unit	1CB
Support for floor fixation and modification of the side wall of the fixed breaker							
	Description	Type	Version				
	Mounting support standard (circuit breaker feet) for fixing the circuit breaker on the floor.	For fixed breakers only	Floor fixation	3VW9011-0BB51	1	1 unit	1CB
	Mounting support extended (circuit breaker feet); kit including mechanical transmission of switch position on circuit breaker side wall. ¹⁾ (= option S56)	For fixed breakers only	Floor fixation	3VW9011-0BB52	1	1 unit	1CB
Side wall extension kit; modification for mechanical transmission of switch position on circuit breaker side wall. ¹⁾ (= option S57)	For fixed breakers only	Rear fixation on mounting plate	3VW9011-0BB53	1	1 unit	1CB	

¹⁾ Required for:

- Fixation of external auxiliary switch AUX 15 CO (3VW9011-0AG15)
- Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10)
- Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16)
- Mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)

Air Circuit Breakers


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Locking devices (for fixed breakers and withdrawable breakers)

Description	Type	Version				
 <p>Locking devices in OFF position to prevent unauthorized activation, in the operator panel (safe OFF). The disconnecter unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.</p>	Cylinder lock (replacement for S08)	Ronis	3VW9011-0BA33	1	1 unit	1CB
	Padlock 4 mm (replacement for S22)	Plastic for no more than 3 locks	3VW9011-0BA41	1	1 unit	1CB
	Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock	3VW9011-0BA42	1	1 unit	1CB
	Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks	3VW9011-0BA44	1	1 unit	1CB
<p>Padlockable protective cover ON and/or OFF on the operator panel</p>	Padlock 4 mm (replacement for S42)	Plastic for no more than 3 locks	3VW9011-0BA22	1	1 unit	1CB
	Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock	3VW9011-0BA23	1	1 unit	1CB
	Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks	3VW9011-0BA24	1	1 unit	1CB
<p>Protective cover ON/OFF to protect against unintentional actuation on the operator panel. Not lockable.</p>	Protective cover (replacement for S41)		3VW9011-0BA21	1	1 unit	1CB


Locking devices on guide frame of withdrawable circuit breaker




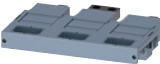







Description	Type	Version				
 <p>Locking device to prevent movement of the withdrawable circuit breaker.</p>	Cylinder lock (replacement for R78)	Ronis	3VW9011-0BA80	1	1 unit	1CB
	Padlock 8 mm (replacement for R65)	For no more than 3 locks	3VW9011-0BA87	1	1 unit	1CB
<p>Locking mechanism to prevent movement of the withdrawable circuit breaker in disconnected position only. Only possible as a supplement in conjunction with R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA87).</p>	Locking mechanism (replacement for R79)		3VW9011-0BA84	1	1 unit	1CB

Locking mechanism to prevent opening of the control cabinet door in ON position

Description	Type	Version				
 <p>Locking mechanism to prevent opening of the control cabinet door in ON position. It additionally prevents the circuit breaker from being closed when the control cabinet door is open.</p>	Fixed-mounted in side wall / or floor fixation ¹⁾	Direct fixed interlocking	3VW9011-0BB10	1	1 unit	1CB
	Withdrawable	Direct fixed interlocking	3VW9011-0BB14	1	1 unit	1CB
	Fixed-mounted in side wall / or floor fixation ¹⁾	Interlocking with Bowden cable	3VW9011-0BB16	1	1 unit	1CB
	Withdrawable	Interlocking with Bowden cable	3VW9011-0BB18	1	1 unit	1CB

Mechanical interlocking with Bowden cable

Description	Version	Number of poles / quantity				
 <p>Mechanical interlocking to 3WL / 3VA (interlocking module with Bowden cable 2 m)</p>	Fixed-mounted ¹⁾	Rear panel or floor mounting	3VW9011-0BB21	1	1 unit	
	Withdrawable	Fixation on guide frame	3VW9011-0BB22	1	1 unit	1CB

				SD	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Terminals for main circuit connection¹⁾ (to be ordered separately for top and bottom)									
	Description	Version	Number of poles / quantity	d					
Front connection methods, fixed breakers									
	Set of front terminals for main circuit connection	Fixed	3-pole / 3 units 4-pole / 4 units		3VW9011-0AL01 3VW9011-0AL02		1 1	1 unit 1 unit	1CB 1CB
Front-accessible, extended connection methods									
	Set of extended front terminals for main circuit connection for mounting on front terminals for main circuit connection (fixed-mounted) ²⁾	Fixed	3-pole / 3 units 4-pole / 4 units		3VW9011-0AL77 3VW9011-0AL78		1 1	1 unit 1 unit	1CB 1CB
	Set of front-accessible terminals for mounting on flange of guide frame (withdrawable)	Withdrawable	3-pole / 3 units 4-pole / 4 units		3VW9011-0AN01 3VW9011-0AN02		1 1	1 unit 1 unit	1CB 1CB
Rear connection methods									
	Set of rear terminals for main circuit connection ⁴⁾ ; rotatable for horizontal / vertical connection	Fixed	3-pole / 3 units 4-pole / 4 units		3VW9011-0AL32 3VW9011-0AL33		1 1	1 unit 1 unit	1CB 1CB
		Withdrawable	3-pole / 3 units 4-pole / 4 units		3VW9011-0AN32 3VW9011-0AN33		1 1	1 unit 1 unit	1CB 1CB
Connection method for Cu/Al cable connection									
	Set of circular conductor terminals 4 x 240 mm ² for front cable connection (fixed breakers); ⁵⁾⁶⁾ mounting on front terminals for main circuit connection	Fixed	3-pole / 3 units 4-pole / 4 units		3VW9011-0AL71 3VW9011-0AL72		1 1	1 unit 1 unit	1CB 1CB
	Set of circular conductor connection pieces 4 x 240 mm ² for cable lugs, rear cable connection (withdrawable breakers) ⁵⁾ (Mounting on rear vertical terminals for main circuit connection 3VW9011-0AN32/33)	Withdrawable	3-pole / 3 units 4-pole / 4 units		3VW9011-0AN71 3VW9011-0AN72		1 1	1 unit 1 unit	1CB 1CB
Front-accessible broadened connection methods									
	Set of front broadened terminals for main circuit connection (fixed) ³⁾ for mounting directly on front terminals for main circuit connection	Fixed breaker, top Fixed breaker, bottom	3-pole / 3 units 3-pole / 3 units		3VW9011-0AL73 3VW9011-0AL75		1 1	1 unit 1 unit	1CB 1CB
	Set of front-accessible broadened terminals for main circuit connection (withdrawable) Mounting on front-accessible terminals for main circuit connection (3VW9011-0AN01/02)	Fixed	4-pole / 4 units		3VW9011-0AL74		1	1 unit	1CB
		Withdrawable	3-pole / 3 units 4-pole / 4 units		3VW9011-0AN73 3VW9011-0AN74		1 1	1 unit 1 unit	1CB 1CB
Rear broadened connection methods, for withdrawable breakers									
	Mounting on rear horizontal terminals for main circuit connection	Withdrawable	3-pole / 3 units 4-pole / 4 units		3VW9011-0AN75 3VW9011-0AN76		1 1	1 unit 1 unit	1CB 1CB

1) Acc. to IEC 60947-2 for 3WL10 up to 1250 A, for 3VA27 up to 1600 A (depending on application conditions)

2) Including: Insulation plate and standard phase barriers (H = 100 mm) (3VW9723-OWA00 / 3VW9723-OWA10)

3) Including: Insulation plate and extended phase barriers (H = 200 mm) (3VW9723-OWA01 / 3VW9723-OWA11)

4) Including: Standard terminal cover for fixed circuit breakers (3VW9723-OWD30 / 3VW9723-OWD40)

5) Including: Insulation plate and high, extended terminal cover (3VW9723-OWF30 / 3VW9723-OWF40)


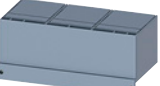

6) Currently only available in breaking capacity classes "M" and "H"; applies for 3VA27 molded case circuit breaker. No restriction with 3WL10.

Air Circuit Breakers**NEW** 3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

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				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Terminal covers for fixed-mounted circuit breakers¹⁾									
	Description	Version	Number of poles / quantity						
 3VW9723-0WD30	Finger-proof terminal cover for front terminals for main circuit connection for fixed breakers	For fixed-mounted version, standard	3-pole / 2 units		3VW9723-0WD30		1	1 unit	1CB
			4-pole / 2 units		3VW9724-0WD40		1	1 unit	1CB
 3VW9723-0WF30		For fixed breakers, extended	3-pole / 2 units		3VW9723-0WF30		1	1 unit	1CB
			4-pole / 2 units		3VW9724-0WF40		1	1 unit	1CB
Phase barriers for fixed-mounted breakers¹⁾									
	Description	Version	Number of poles / quantity						
	Set of phase barriers for fixed breakers For operating voltages > 440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.	H = 100 mm	3-pole / 4 units		3VW9723-0WA00		1	1 unit	1CB
		H = 200 mm	3-pole / 4 units		3VW9723-0WA01		1	1 unit	1CB
		H = 100 mm	4-pole / 6 units		3VW9724-0WA10		1	1 unit	1CB
		H = 200 mm	4-pole / 6 units		3VW9724-0WA11		1	1 unit	1CB

¹⁾ Necessary isolation measures are always supplied with the corresponding connections and do not need to be ordered separately.

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"¹⁾ 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"¹⁾ and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.
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"¹⁾, 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"¹⁾ (only available in English) and
- for services, the "International Terms & Conditions for Services"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾ and
- for the supply of other hardware and software the "International Terms & Conditions for Products"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾.

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

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.

¹⁾ 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

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.

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