

Air Circuit Breakers

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For further information on 3WL5,
see Catalog LV 16



NEW

Direct reference to the products in the Industry Mall from the selection and ordering data tables:

Article No.
[www.siemens.com/
product?Article No.](http://www.siemens.com/product?ArticleNo.)

3VA2025-5HL36-0AA0

Paper catalog:
To get more
product information
enter the Web
address plus
Article No.

PDF catalog:
Get more product information
with just a mouse click.

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For further technical product information:

Configuration Manual

[Air Circuit Breakers](#)

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

Siemens Industry Online Support:

www.siemens.com/lowvoltage/product-support

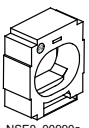
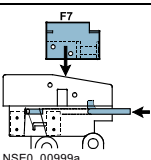
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Application example
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Characteristic
Download
FAQ
Manual
Product note
Software archive
Technical data

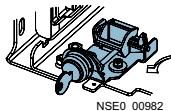
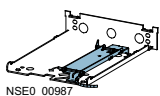
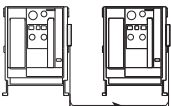
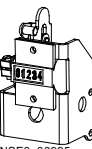
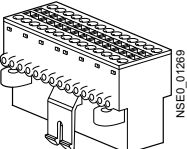
Air Circuit Breakers

Introduction

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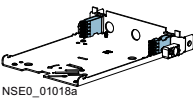
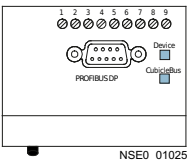
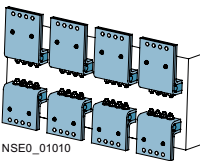
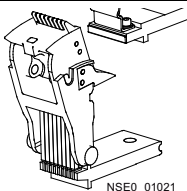
Overview

Devices		Page		Applications/ Individual components	Standards	Used in		
		3WL1	3WL5			Non-residential buildings	Residential buildings	Industry
	3WL1 air circuit breakers/ non-automatic air circuit breakers up to 6300 A (AC), IEC	1/16 ... 1/43	--	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	✓	--	✓
	3WL1 non-automatic air circuit breakers up to 4000 A (DC), IEC	1/76 ... 1/78	--	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	✓	--	✓
	3WL5 air circuit breakers up to 5000 A (AC), UL 489/IEC 60947-2	--	1/90 ... 1/93	As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations. For switching and protecting motors, capacitors, generators, transformers, busbars and cables.	UL 489, UL 489B, IEC 60947-2 IEC 60947-2 appendix F/CISPR 11/22 Class B DIN VDE 0660 Part 101 climate-proof acc. to IEC 60068-2-30 CCC	✓	--	✓
	3WL5 air circuit breakers up to 3200 A (DC), UL 489B/IEC 60947-2	--	1/94	As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations. For switching and protecting busbars and cables.	UL 489, UL 489B, IEC 60947-2 IEC 60947-2 appendix F/CISPR 11/22 Class B DIN VDE 0660 Part 101 climate-proof acc. to IEC 60068-2-30 CCC	✓	--	✓
	Protective device with device holder and optional measurement function (ETU)	1/58	1/104	Electronic Trip Unit with protection functions LI, LSI, LSING and LSIN(G), with or without measurement function <i>Plus</i>	As for circuit breakers	✓	--	✓
	Rating Plugs	1/58	1/104	For rated currents I_n from 250 A to 6300 A. The maximum rated current of the circuit breaker must not be exceeded.	As for circuit breakers	✓	--	✓
	Ground-fault modules	1/58	1/104	With alarm and tripping	As for circuit breakers	✓	--	✓
	Displays	1/58	1/104	4-line displays for ETU45B	As for circuit breakers	✓	--	✓
	Current transformers for N conductor protection	1/58	1/104	Internal transformers for N conductors, external transformers for N conductors	As for circuit breakers	✓	--	✓
	EMC filters	1/58	1/104	Common-mode interference suppressor filters	As for circuit breakers	✓	--	✓
	More accessories for Electronic Trip Units	1/59	1/105	Sealable and lockable covers, automatic reset of the reclosing lockout, remote reset solenoid, retrofitable internal CubicleBUS wiring, retrofitable internal wiring for connection of external N and G transformers	As for circuit breakers	✓	--	✓

Devices	Page		Applications/ Individual components	Standards	Used in		
	3WL1	3WL5			Non-residential buildings	Residential buildings	Industry
	Locking devices	1/59 1/105	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	✓	--	✓
	Locking mechanisms	1/60 1/106	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	✓	--	✓
	Interlocks	1/61 1/107	Mutual mechanical interlocking, couplings on the circuit breaker (with ring) for mutual interlocking, Bowden wire	As for circuit breakers	✓	--	✓
	3KC ATC5300 and NEW ATC3100 transfer control devices	Ch. 12 Ch. 12	The 3KC ATC5300 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	1/61 1/107	Manual tester Release 2 for Electronic Trip Units, function testers	As for circuit breakers	✓	--	✓
	Capacitor storage devices	1/61 1/107	For shunt releases	As for circuit breakers	✓	--	✓
	Indicators, control elements	1/62 1/108	Ready-to-close signaling switches, signaling switches, tripped signaling switches, operating cycles counters, stored energy status signaling switches, position signaling switches for guide frames, electric ON buttons, motor shutdown switches, EMERGENCY-STOP buttons	As for circuit breakers	✓	--	✓
	Auxiliary conductor connections	1/63 1/109	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 contacts for guide frames, blanking blocks for circuit breakers	As for circuit breakers	✓	--	✓
	Auxiliary release	1/64 1/110	Closing solenoids/shunt releases, undervoltage releases	As for circuit breakers	✓	--	✓
	Operating mechanisms	1/64 1/110	Motorized operating mechanism	As for circuit breakers	✓	--	✓
	Auxiliary contacts	1/64 1/110	Auxiliary switch blocks	As for circuit breakers	✓	--	✓
	Door sealing frames, hoods, shutters	1/65 1/111	Door sealing frames, IP55 protective covers, shutters	As for circuit breakers	✓	--	✓
	Arc chutes	1/65 --	Arc chutes, arc chute covers	As for circuit breakers	✓	--	✓

Air Circuit Breakers

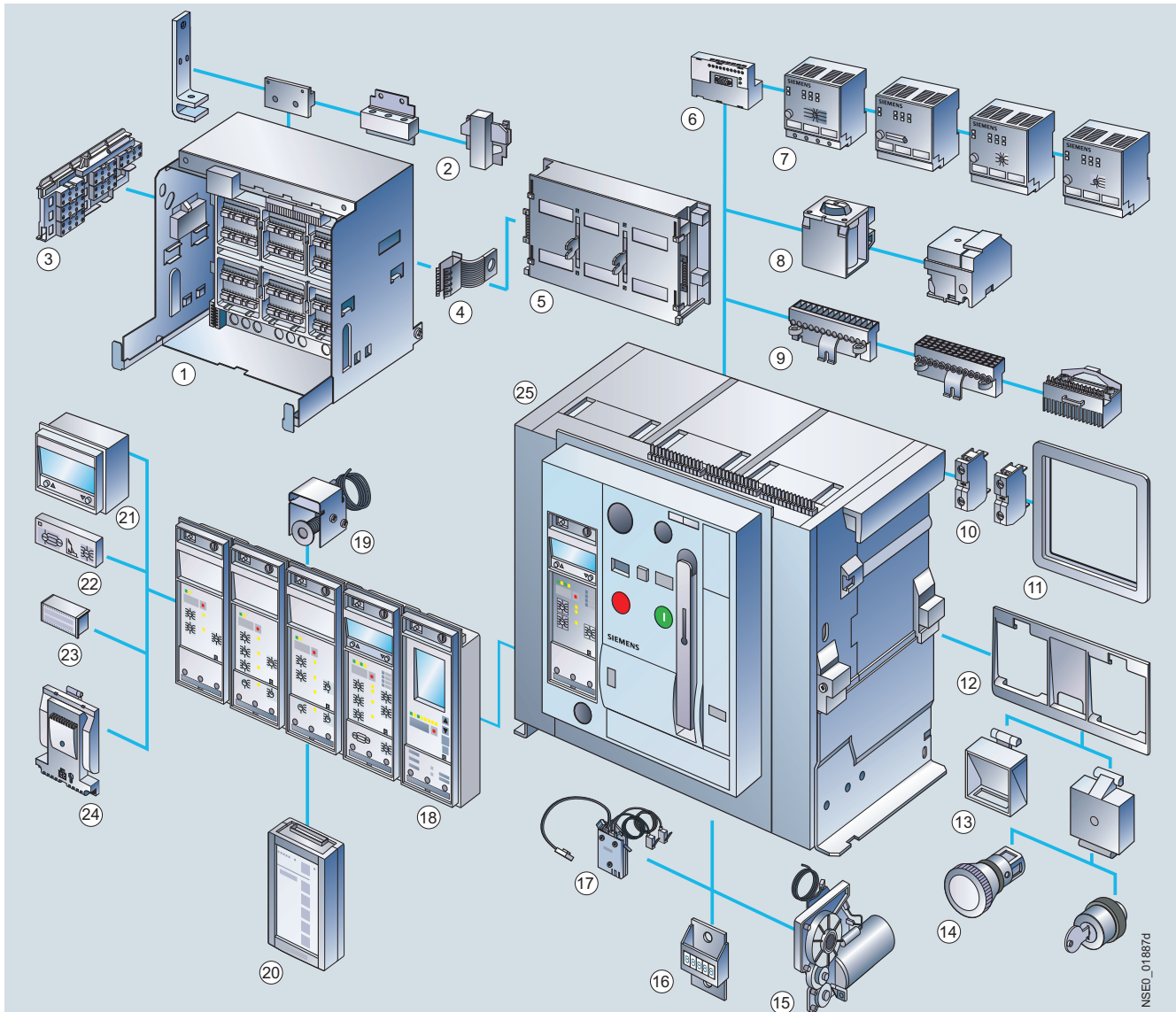
Introduction

Devices	Page	Applications/ Individual components	Standards	Used in				
				Non-residential buildings	Residential buildings	Industry		
	3WL1 3WL5							
Coding for withdrawable version	1/65	1/111	By customer, for 36 coding variants	As for circuit breakers	✓	--	✓	
 NSE0_01018a	Grounding connection	1/66	--	Grounding connection between the guide frame and the withdrawable circuit breaker, contacting modules for withdrawable circuit breakers	As for circuit breakers	✓	--	✓
	Support brackets	1/66	1/112	For mounting fixed-mounted circuit breakers on vertical plane	As for circuit breakers	✓	--	✓
	CubicleBUS modules	1/66	1/112	Digital and analog input and output modules, Zone Selective Interlocking modules	As for circuit breakers	✓	--	✓
	Parameterization systems	1/66	1/112	Breaker Data Adapter (BDA), BDA <i>Plus</i> , connection cables for BDA <i>Plus</i> , powerconfig parameterization software	As for circuit breakers	✓	--	✓
	Accessories for communications	1/67	1/113	Factory-fitted cables for CubicleBUS modules, SENTRON manuals for communication solutions, voltage transformers	As for circuit breakers	✓	--	✓
 NSE0_01025	Retrofitting and spare parts	1/67	1/113	PROFIBUS retrofit kits, COM15 PROFIBUS modules, COM16 MODBUS modules, MODBUS IEC retrofit kits, Breaker Status Sensor (BSS), measurement function <i>Plus</i>	As for circuit breakers	✓	--	✓
 NSE0_01010	Main conductor connections, fixed-mounted, main conductor connections, withdrawable	1/68, 1/69	1/114, 1/115	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	✓	--	✓
	Conversion sets	1/70	1/115	Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers	As for circuit breakers	✓	--	✓
 NSE0_01021	Main contact elements	1/70	--	For replacement of the main contacts during maintenance and thus to boost the useful life of the breaker.	As for circuit breakers	✓	--	✓
	Withdrawable short-circuiting, grounding and bridging units	1/71	--	For use during maintenance work on the system.	As for circuit breakers	✓	--	✓

Overview

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

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



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- | | |
|--|--|
| ① Guide frame (page 1/52 to page 1/57) | ⑩ Auxiliary switch block (page 1/44 and 1/64) |
| ② Main circuit connection front, flange, horizontal, vertical (page 1/49, 1/68 and 1/69) | ⑪ Door sealing frame (page 1/46 and 1/65) |
| ③ Position signaling switch (page 1/47 and 1/62) | ⑫ Interlocking set for mechanical ON/OFF (page 1/59) |
| ④ Grounding connection, leading (page 1/66) | ⑬ Transparent panel, function insert (page 1/59) |
| ⑤ Shutters (page 1/47 and 1/65) | ⑭ EMERGENCY-STOP pushbutton, key operated (page 1/62) |
| ⑥ COM15 PROFIBUS module or COM16 MODBUS module (page 1/47 and 1/67) | ⑮ Motorized operating mechanism (page 1/46 und 1/64) |
| ⑦ External CubicleBUS modules (page 1/66) | |
| ⑧ Closing coil, auxiliary release (page 1/44, 1/46 and 1/64) | ⑯ Operating cycles counter (page 1/46 and 1/62) |
| ⑨ Auxiliary conductor plug-in system (page 1/48 and 1/63) | ⑰ Breaker Status Sensor (BSS) (page 1/47 and 1/67) |
| | ⑱ Protective device with device holder, Electronic Trip Unit (ETU) (page 1/58) |
| | ⑲ Remote reset solenoid (page 1/46 and 1/59) |
| | ⑳ Breaker Data Adapter (BDA Plus) (page 1/66) |
| | ㉑ Four-line display (page 1/58) |
| | ㉒ Ground-fault protection module (page 1/58) |
| | ㉓ Rating plug (page 1/45 and 1/58) |
| | ㉔ Measurement function module (page 1/47 and 1/58) |
| | ㉕ Air circuit breaker (page 1/16 to 1/43) |

Air Circuit Breakers

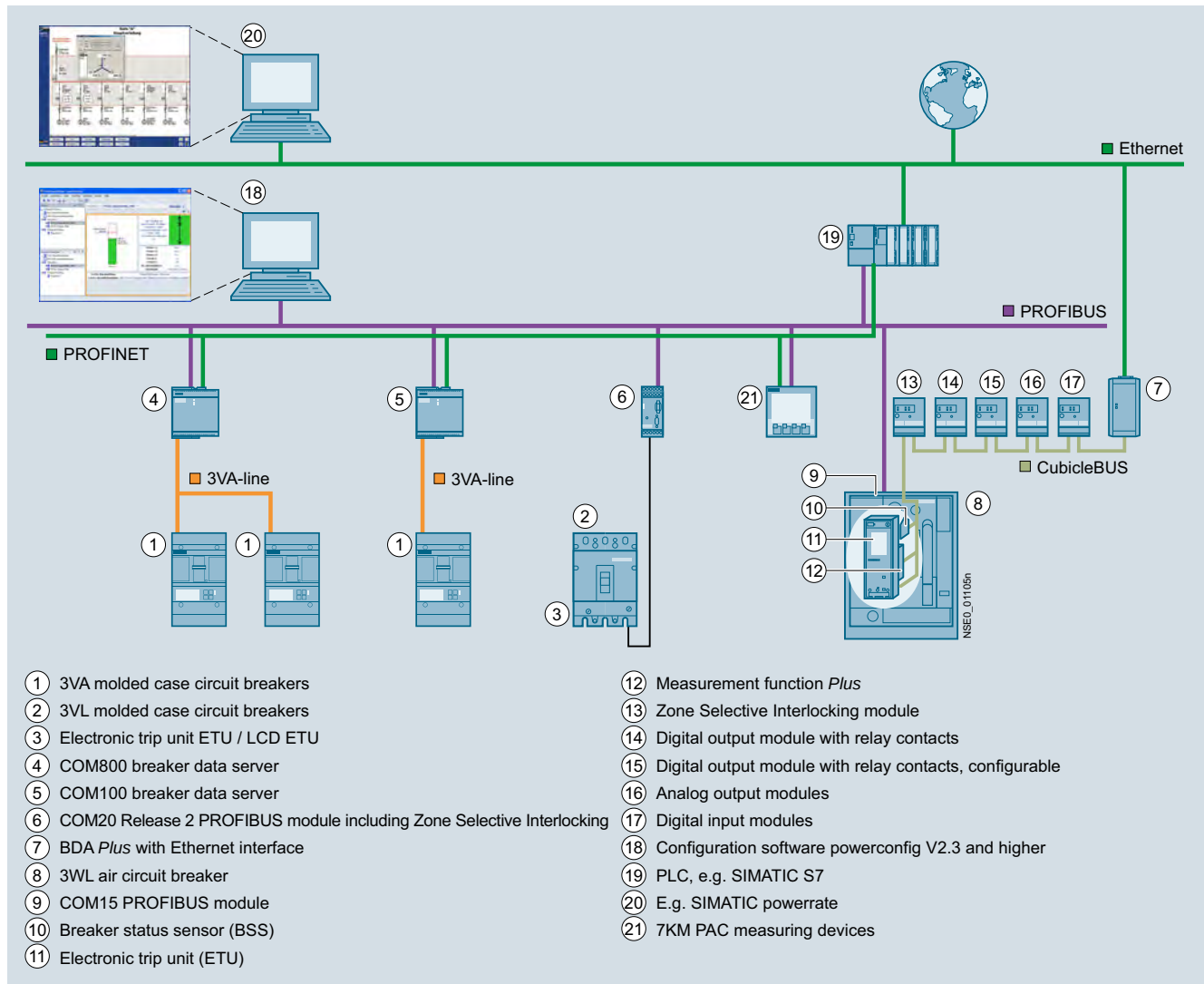
3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

1

Introduction

Overview

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

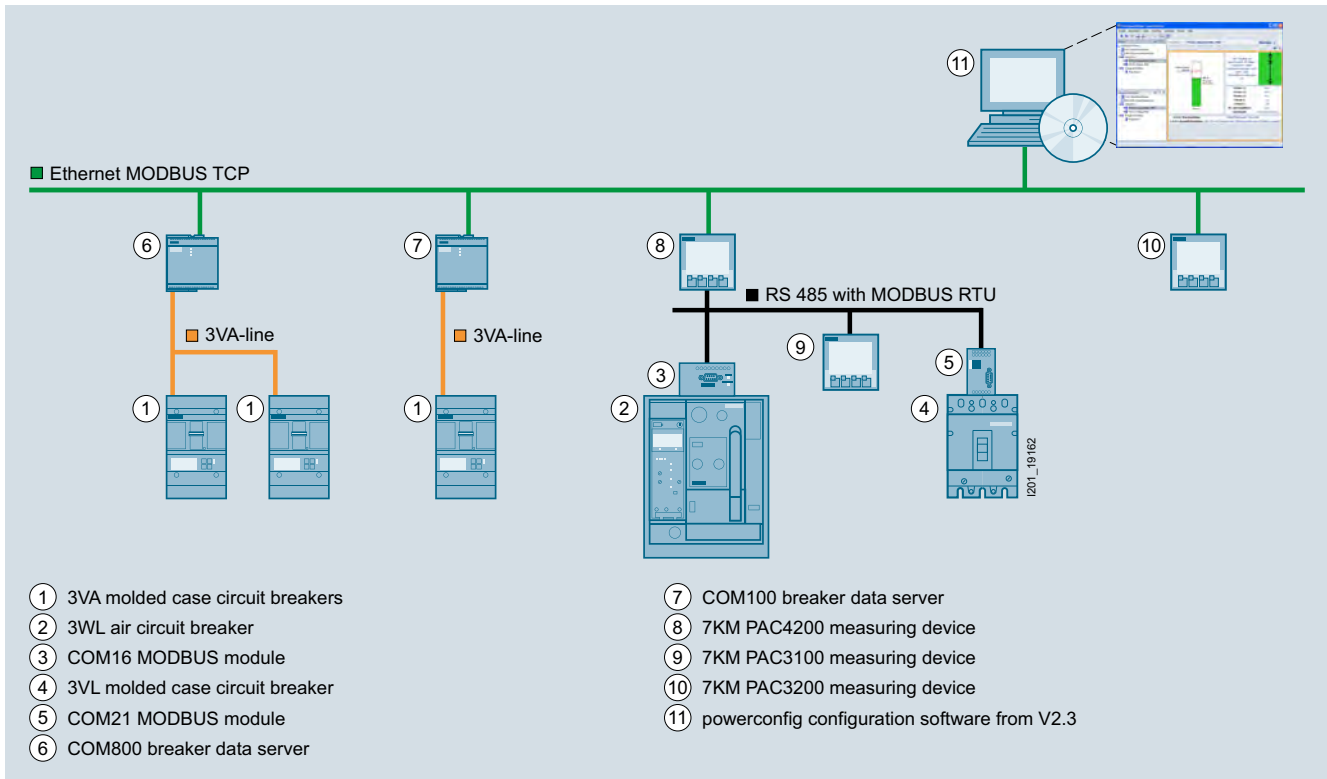


Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

Introduction

1



Characteristics

- Coordinated communication concept using the PROFIBUS DP or MODBUS, ranging from 16 A to 6300 A with 3VL 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 PROFIBUS DP, MODBUS or 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 1/16 to page 1/43](#).
- For accessories, [see page 1/66 and page 1/67](#).
- For more information, [see chapter "Measuring Devices and Power Monitoring"](#) and [see chapter "Monitoring Devices"](#).
- For configuring information, also see [Configuration Manual "Air Circuit Breakers"](#) at www.siemens.com/lowvoltage/manuals.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

1

Introduction

Benefits

Low space requirements

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

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 endurance 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/measuring 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
- Measurement 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 Appendix F / CISPR 11/22 Class B
- Climate-proof according to IEC 60068-2-30.

For further standards, see [chapter "Appendix"](#).

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

Technical specifications

Size	I				II			
Type	... 3WL1110 3WL1112 3WL1116 3WL1120				3WL1208	3WL1210	3WL1212	3WL1216
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_e at 50/60 Hz (1000 V version, see page 1/45 "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	1000
Rated impulse withstand voltage U_{imp}								
• Main conducting paths	kV 12	12	12	12	12	12	12	12
• Auxiliary circuits	kV 4	4	4	4	4	4	4	4
• Control circuits ⁹⁾	kV 2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Isolating function acc. to EN 60 947-2	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	-25/+70
• Storage	°C -40/+70	-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	1600
• Up to 60 °C (Cu bare) ²⁾	A 1000	1250	1600	1930	800	1000	1250	1600
at rear horizontal main connections	A 1000	1210	1490 ³⁾	1780	800	1000	1250	1600
• Up to 70 °C (Cu black painted) ²⁾								
Rated rotor operational voltage U_{er}	V 2000	2000	2000	2000	2000	2000	2000	2000
Power loss at I_n								
With 3-phase symmetrical load								
• Fixed-mounted circuit breakers	W 100	105	150	240	40	45	80	85
• Withdrawable circuit breakers	W 195	205	350	440	85	95	165	175
Switching times								
• Make time	ms 35	35	35	35	35	35	35	35
• Opening time	ms 38	38	38	38	34	34	34	34
• Electrical make time (through closing solenoid) ⁴⁾	ms 80	80	80	80	100	100	100	100
• Electrical opening time (through shunt release)	ms 73	73	73	73	73	73	73	73
• Electrical opening time (instantaneous undervoltage release)	ms 73	73	73	73	73	73	73	73
• Opening time due to ETU, instantaneous short-circuit release	ms 50	50	50	50	50	50	50	50
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	10 000
• Mechanical (with maintenance) ⁵⁾ Operating cycles	20 000	20 000	20 000	15 000	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	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	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	10 000
• Mechanical (with maintenance) ⁵⁾ Operating cycles	15 000	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	7 500
• 1000 V version, electrical (without maintenance) Oper. cycles	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
• 1150 V version, electrical (without maintenance) Oper. cycles	--	--	--	--	500	500	500	500
• Electrical (with maintenance) ⁵⁾⁶⁾ Operating cycles	15 000	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	10 000
• Mechanical (with maintenance) ⁵⁾ Operating cycles	15 000	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	7 500
• 1000 V version, electrical (without maintenance) Oper. cycles	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
• 1150 V version, electrical (without maintenance) Oper. cycles	--	--	--	--	500	500	500	500
• Electrical (with maintenance) ⁵⁾⁶⁾ Operating cycles	10 000	10 000	10 000	10 000	15 000	15 000	15 000	15 000
Service life: Breaking capacity C								
• Mechanical (without maintenance) Operating cycles	--	--	--	--	5 000	5 000	5 000	5 000
• Mechanical (with maintenance) ⁵⁾ Operating cycles	--	--	--	--	10 000	10 000	10 000	10 000
• Electrical (without maintenance) Operating cycles	--	--	--	--	5 000	5 000	5 000	5 000
• Electrical (with maintenance) ⁵⁾ Operating cycles	--	--	--	--	10 000	10 000	10 000	10 000
Switching frequency ⁷⁾								
• 690 V version	1/h 60 ⁸⁾	60 ⁸⁾	60 ⁸⁾	60	60 ⁸⁾	60 ⁸⁾	60 ⁸⁾	60 ⁸⁾
• 1000 V version	1/h --	--	--	20	20	20	20	20
• 1150 V version	1/h --	--	--	--	20	20	20	20
Minimum interval between tripping operation by electronic trip unit and next making operation of the circuit breaker (only with autom. mechanical resetting of the lockout device).	ms 80	80	80	80	80	80	80	80
Minimum interval between On-Off or Off-On switching operations.								

1) Use of trip units from -20 °C.

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

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

4) Make-time through closing solenoid 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.

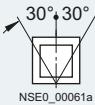
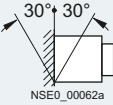
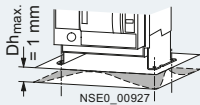
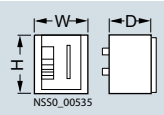
8) 3-pole switching with breaking capacity N and S: 45/h.

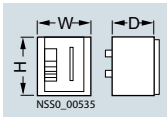
9) Motorized operating mechanism $U_{imp}=1.2$ kV

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

General data

Size			I				II				
Type			... 3WL1110		3WL1112	3WL1116	3WL1120	3WL1208	3WL1210	3WL1212	3WL1216
Mounting position							and/or				
Degree of protection			IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover								
Main conductor minimum cross-sections			Unit(s)	1 ×	2 ×	2 ×	3 ×	1 ×	1 ×	2 ×	2 ×
			60 × 10	40 × 10	50 × 10	50 × 10	50 × 10	60 × 10	40 × 10	50 × 10	
			Unit(s)	1 ×	2 ×	2 ×	3 ×	1 ×	1 ×	2 ×	2 ×
			60 × 10	40 × 10	50 × 10	50 × 10	50 × 10	60 × 10	40 × 10	50 × 10	
Auxiliary conductors (Cu)		Standard connection = strain-relief clamp									
Max. number											
Auxiliary conductors × cross-section (solid/stranded)			2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14)								
			1 × 0.5 mm ² (AWG 20) ... 1 × 1.5 mm ² (AWG 16)								
			2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)								
			2 × 0.5 mm ² (AWG 20) ... 2 × 2.5 mm ² (AWG 14)								
			2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)								
Position signaling switches		Tension spring terminals	1 × 0.5 mm ² (AWG 20) ... 1 × 2.5 mm ² (AWG 14)								
Weights	3-pole	Fixed-mounted circuit breakers	kg	43	43	43	43	56	56	56	56
		Withdrawable circuit breakers	kg	45	45	45	45	60	60	60	60
	4-pole	Guide frames	kg	25	25	25	25	31	31	31	31
		Fixed-mounted circuit breakers	kg	50	50	50	50	67	67	67	67
		Withdrawable circuit breakers	kg	54	54	54	54	72	72	72	72
		Guide frames	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				



Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

Size	II				III			
Type	3WL1220	3WL1225	3WL1232	3WL1240	3WL1340	3WL1350	3WL1363	
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 1/45 "Options")	V AC ... 690/1000	... 690/1000	... 690/1000	... 690	... 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 3-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 solenoid) 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 H ¹¹⁾								
• 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) up to 690 V ⁶⁾	Operating cycles 10000	10000	8000	--	--	--	--	
Switching frequency ⁸⁾								
• 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 autom. 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 solenoid 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.

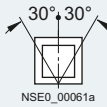
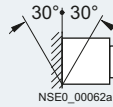
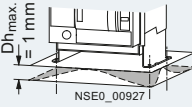
10) Motorized operating mechanism $U_{imp}=1.2$ kV

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

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

General data

Size	II						III			
Type	3WL1220	3WL1225	3WL1232	3WL1240	3WL1340	3WL1350	3WL1363			
Mounting position			and/ or							
Degree of protection	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover									
Main conductor minimum cross-sections	- Copper bars, bare - Copper bars, painted black	Unit(s) mm ²	3 × 50 × 10	2 × 100 × 10	3 × 100 × 10	4 × 120 × 10	4 × 100 × 10	6 × 100 × 10	6 × 120 × 10	
Auxiliary conductors (Cu)	Standard connection = strain-relief clamp - Without end sleeve - With end sleeve acc. to DIN 46228 Part 2 - With twin end sleeve Optional connection = tension spring - Without end sleeve - With end sleeve acc. to DIN 46228 Part 2	Unit(s) mm ²	3 × 50 × 10	2 × 100 × 10	3 × 100 × 10	4 × 100 × 10 ¹⁾	4 × 100 × 10	6 × 100 × 10	6 × 120 × 10	
Max. number of auxiliary conductors × cross-section (solid/stranded)	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14) 1 × 0.5 mm ² (AWG 20) ... 1 × 1.5 mm ² (AWG 16) 2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16) 2 × 0.5 mm ² (AWG 20) ... 2 × 2.5 mm ² (AWG 14) 2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)									
Position signaling switches	Tension spring terminals	1 × 0.5 mm ² (AWG 20) ... 1 × 2.5 mm ² (AWG 14)								
Weights	3-pole	- Fixed-mounted circuit breakers - Withdrawable circuit breakers - Guide frames	kg	56 60 31	59 63 39	64 68 45	85 121 52	82 88 60	82 88 60	90 96 70
	4-pole	- Fixed-mounted circuit breakers - Withdrawable circuit breakers - Guide frames	kg	67 72 37	71 76 47	77 82 54	103 146 62	99 106 84	99 106 84	108 108 119
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 × 120 × 10 mm.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

General data

1

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	C	H	H	C	C	C	C	C	C	C	C
Short-circuit breaking capacity																									
Rated operational voltage U_e up to 415 V AC																									
I_{cu}	kA	55		66		85		66		80		100		130		100		150		130					
I_{cs}	kA	55		66		85		66		80		100		130		100		150		130					
I_{cm}	kA	121		145		187		145		176		220		286		220		330		286					
Rated operational voltage U_e up to 500 V AC																									
I_{cu}	kA	55		66		85		66		80		100		130		100		150		130					
I_{cs}	kA	55		66		85		66		80		100		130		100		150		130					
I_{cm}	kA	121		145		187		145		176		220		286		220		330		286					
Rated operational voltage U_e up to 690 V AC																									
I_{cu}	kA	42		50		66		50		75		85		100		85		150		130					
I_{cs}	kA	42		50		66		50		75		85		100		85		150		130					
I_{cm}	kA	88		105		145		105		165		187		220		187		330		286					
Rated operational voltage U_e up to 1000 V/1150 V AC																									
I_{cu}	kA	--		--		50 ⁵⁾		--		--		50		--		50		70 ⁴⁾		70 ⁴⁾					
I_{cs}	kA	--		--		50 ⁵⁾		--		--		50		--		50		70 ⁴⁾		70 ⁴⁾					
I_{cm}	kA	--		--		105 ⁵⁾		--		--		105		--		105		154 ⁴⁾		154 ⁴⁾					
Rated short-time withstand current $I_{cw}^{3)}$																									
0.5 s	kA	55		66		75		66		80		100		100		100		100		100					
1 s	kA	42		50		66		55		66		85		100		100		100		100					
2 s	kA	29.5		35		46		39		46		65 ^{1)/70²⁾}		70		80		80		80					
3 s	kA	24		29		44		32		44		50 ^{1)/65²⁾}		65		65		65		65					
Conditional rated short-circuit breaking capacity I_{cc} of the non-automatic air circuit breakers																									
Up to 500 V AC	kA	55		66		75		66		80		100		130		100		100		100					
Up to 690 V AC	kA	42		50		66		50		75		85		100		85		100		100					
Up to 1000 V/1150 V AC	kA	--		--		50 ⁵⁾		--		--		50 ⁴⁾		--		50 ⁶⁾		70 ⁴⁾		70 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". Free download from:
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 of ≥ 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

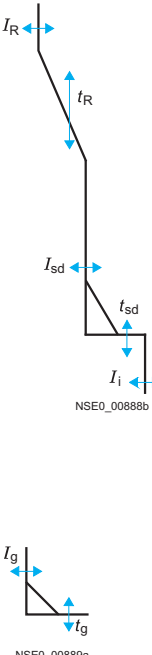
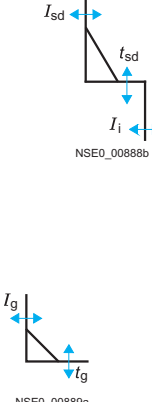
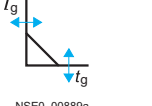
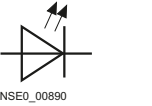
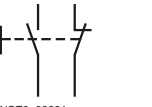
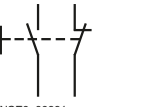
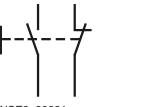
* Designations according to IEC 60947-2, Appendix K.

- 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

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

General data

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	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^2t -dependent function)	--	--	--
	Setting range for time-lag class t_R at I^2t	10 s fixed	10 s fixed	10 s fixed
	Setting range for time-lag class t_R at I^4t	--	--	--
	Thermal image can be switched on/off	--	--	--
	Phase failure sensitivity	--	At $t_{sd} = 20$ ms (M)	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 $I_{sd} = I_n \times \dots$	--	1.25-1.5-2-2.5-3-4-6-8-10-12	1.25-1.5-2-2.5-3-4-6-8-10-12
	Setting range for delay time t_{sd}	--	0-M-100-200-300-400 ms	0-M-100-200-300-400 ms
	Switchable short-time delayed short-circuit protection (I^2t -dependent function)	--	--	--
	Setting range for delay time t_{sd} at I^2t	--	--	--
	ZSI function	--	--	--
	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
	G Ground-fault protection	--	--	✓ Fixed mounted
	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	--	--	A-B-C-D-E
	Setting range of the operating current I_g for alarm	--	--	--
	Setting range of the delay time t_g	--	--	100-200-300-400-500 ms
	Switchable ground-fault protection characteristic curve (I^2t -dependent function)	--	--	--
	Setting range for delay time t_g at I^2t	--	--	--
	ZSI-G function	--	--	--
	Parameter set changeover	--	--	--
	Switchable between parameter set A and B	--	--	--
	LCD	--	--	--
	Alphanumeric LCD (4-line)	--	--	--
	Graphical LCD (24 V, external power supply required)	--	--	--
	Communication	--	--	--
	CubicleBUS integrated	--	--	--
	Communications capability via PROFIBUS DP	--	--	--
	Measuring function	--	--	--
	Metering capability with measuring 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 protection 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 coding 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 1/15.

Air Circuit Breakers

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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 image can be switched on/off	✓	✓
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 for 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 for 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	☐ Module can be retrofitted	☐ Module can be retrofitted
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	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 protection characteristic curve (I^2t -dependent function)	✓	✓
Setting range for 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)	☐	--
Graphical LCD (24 V, external power supply required)	--	✓
Communication		
CubicleBUS integrated	✓	✓
Communications capability via PROFIBUS DP	✓	✓
Measuring function		
Metering capability with measuring 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 1/14.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

3-pole, fixed-mounted versions

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N N	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?ArticleNo	Basic price per PU			kg
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	43.000 43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000
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	43.000 43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000 85.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LSING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000
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	43.000 43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LSING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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 1/13.

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
A	A	A	kA		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□□32-□□□□ 3WL1108-3□□32-□□□□ 3WL1110-3□□32-□□□□ 3WL1112-3□□32-□□□□ 3WL1116-3□□32-□□□□ 3WL1120-3□□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	43.000 43.000 43.000 43.000 43.000 43.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□32-□□□□ 3WL1210-3□□32-□□□□ 3WL1212-3□□32-□□□□ 3WL1216-3□□32-□□□□ 3WL1220-3□□32-□□□□ 3WL1225-3□□32-□□□□ 3WL1232-3□□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	56.000 56.000 56.000 56.000 56.000 59.000 64.000
Vertical main circuit connection										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□31-□□□□ 3WL1108-3□□31-□□□□ 3WL1110-3□□31-□□□□ 3WL1112-3□□31-□□□□ 3WL1116-3□□31-□□□□ 3WL1120-3□□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	43.000 43.000 43.000 43.000 43.000 43.000
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	80		3WL1208-3□□31-□□□□ 3WL1210-3□□31-□□□□ 3WL1212-3□□31-□□□□ 3WL1216-3□□31-□□□□ 3WL1220-3□□31-□□□□ 3WL1225-3□□31-□□□□ 3WL1232-3□□31-□□□□ 3WL1240-3□□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	56.000 56.000 56.000 56.000 56.000 59.000 64.000 85.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
A	A	A	kA		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	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	43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000
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	43.000 43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

³⁾ Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

⁴⁾ Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

⁵⁾ ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

1

3-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H 	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	43.000 43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000
III	4000 5000	4000 5000	100		3WL1340-4□□32-□□□□ 3WL1350-4□□32-□□□□	1 1	1 unit 1 unit	1CA 1CA	82.000 82.000
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	43.000 43.000 43.000 43.000 43.000 43.000
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	56.000 56.000 56.000 56.000 56.000 59.000 64.000 85.000
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	82.000 82.000 90.000

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 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 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 1/44		

✓ Additional price

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 1/45.

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

³⁾ Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

⁴⁾ Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

⁵⁾ ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
Front main circuit connection, single hole									
II	800	800	100		3WL1208-4□□33-□□□□	1	1 unit	1CA	56.000
	1000	1000			3WL1210-4□□33-□□□□	1	1 unit	1CA	56.000
	1250	1250			3WL1212-4□□33-□□□□	1	1 unit	1CA	56.000
	1600	1600			3WL1216-4□□33-□□□□	1	1 unit	1CA	56.000
	2000	2000			3WL1220-4□□33-□□□□	1	1 unit	1CA	56.000
	2500	2500			3WL1225-4□□33-□□□□	1	1 unit	1CA	59.000
	3200	3200			3WL1232-4□□33-□□□□	1	1 unit	1CA	64.000
III	4000	4000	100		3WL1340-4□□33-□□□□	1	1 unit	1CA	82.000
Front main circuit connection, double hole									
I	630	630	85		3WL1106-4□□34-□□□□	1	1 unit	1CA	43.000
	800	800			3WL1108-4□□34-□□□□	1	1 unit	1CA	43.000
	1000	1000			3WL1110-4□□34-□□□□	1	1 unit	1CA	43.000
	1250	1250			3WL1112-4□□34-□□□□	1	1 unit	1CA	43.000
	1600	1600			3WL1116-4□□34-□□□□	1	1 unit	1CA	43.000
	2000	2000			3WL1120-4□□34-□□□□	1	1 unit	1CA	43.000
II	800	800	100		3WL1208-4□□34-□□□□	1	1 unit	1CA	56.000
	1000	1000			3WL1210-4□□34-□□□□	1	1 unit	1CA	56.000
	1250	1250			3WL1212-4□□34-□□□□	1	1 unit	1CA	56.000
	1600	1600			3WL1216-4□□34-□□□□	1	1 unit	1CA	56.000
	2000	2000			3WL1220-4□□34-□□□□	1	1 unit	1CA	56.000
	2500	2500			3WL1225-4□□34-□□□□	1	1 unit	1CA	59.000
	3200	3200			3WL1232-4□□34-□□□□	1	1 unit	1CA	64.000
III	4000	4000	100		3WL1340-4□□34-□□□□	1	1 unit	1CA	82.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 130/150 kA at 500 V, very high breaking capacity C		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU				kg
Horizontal main circuit connection										
II	1600	1600	130		3WL1216-5□□32-□□□□ 3WL1220-5□□32-□□□□ 3WL1225-5□□32-□□□□ 3WL1232-5□□32-□□□□		1	1 unit	1CA	65.000
	2000	2000								
	2500	2500								
	3200	3200								
III	4000	4000	150		3WL1340-5□□32-□□□□ 3WL1350-5□□32-□□□□		1	1 unit	1CA	82.000
	5000	5000								
Vertical main circuit connection										
II	1600	1600	130		3WL1216-5□□31-□□□□ 3WL1220-5□□31-□□□□ 3WL1225-5□□31-□□□□ 3WL1232-5□□31-□□□□		1	1 unit	1CA	65.000
	2000	2000								
	2500	2500								
	3200	3200								
III	4000	4000	150		3WL1340-5□□31-□□□□ 3WL1350-5□□31-□□□□ 3WL1363-5□□31-□□□□		1	1 unit	1CA	82.000
	5000	5000								
	6300	6300								
Options										
Non-automatic air circuit breakers ²⁾	Without Electronic Trip Units				AA				Additional price	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 graphics display				NB					✓
	Versions with ground-fault protection									
	ETU27B: Protection functions LS-ING ⁵⁾				DG					✓
	ETU45B: Protection functions LS-ING ⁴⁾⁶⁾				EG					✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display				FG					✓
ETU76B: Protection functions LS-ING ⁴⁾⁶⁾ with 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 1/44									

✓ Additional price

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 1/45.

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

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

⁴⁾ Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

⁵⁾ Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

⁶⁾ ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N N	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
Without guide frames²⁾ (for guide frames, see pages 1/52 to 1/57)									
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	45.000 45.000 45.000 45.000 45.000 45.000
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	60.000 60.000 60.000 60.000 60.000 63.000 68.000 71.000
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	70.000 70.000 70.000 70.000 70.000 70.000
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	91.000 91.000 91.000 91.000 91.000 102.000 113.000

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 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 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 1/44		

✓ Additional price

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 1/45.

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 1/13.

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	70.000 70.000 70.000 70.000 70.000 70.000
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	91.000 91.000 91.000 91.000 91.000 102.000 113.000 121.000
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	70.000 70.000 70.000 70.000 70.000 70.000
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	91.000 91.000 91.000 91.000 91.000 102.000 113.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁵⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁴⁾⁶⁾	EG	✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁴⁾⁶⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
Without guide frames²⁾ (for guide frames, see pages 1/52 to 1/57)									
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 unit	1CA	45.000 45.000 45.000 45.000 45.000 45.000
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 unit	1CA	60.000 60.000 60.000 60.000 60.000 63.000 68.000 71.000
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 unit	1CA	70.000 70.000 70.000 70.000 70.000 70.000
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 unit	1CA	91.000 91.000 91.000 91.000 91.000 102.000 113.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁵⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁴⁾⁶⁾	EG	✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁴⁾⁶⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU				kg
With guide frames, vertical main circuit connection										
I	630	630	66		3WL1106-3□□37-□□□□		1	1 unit	1CA	70.000
	800	800			3WL1108-3□□37-□□□□		1	1 unit	1CA	70.000
	1000	1000			3WL1110-3□□37-□□□□		1	1 unit	1CA	70.000
	1250	1250			3WL1112-3□□37-□□□□		1	1 unit	1CA	70.000
	1600	1600			3WL1116-3□□37-□□□□		1	1 unit	1CA	70.000
	2000	2000			3WL1120-3□□37-□□□□		1	1 unit	1CA	70.000
II	800	800	80		3WL1208-3□□37-□□□□		1	1 unit	1CA	91.000
	1000	1000			3WL1210-3□□37-□□□□		1	1 unit	1CA	91.000
	1250	1250			3WL1212-3□□37-□□□□		1	1 unit	1CA	91.000
	1600	1600			3WL1216-3□□37-□□□□		1	1 unit	1CA	91.000
	2000	2000			3WL1220-3□□37-□□□□		1	1 unit	1CA	91.000
	2500	2500			3WL1225-3□□37-□□□□		1	1 unit	1CA	102.000
	3200	3200			3WL1232-3□□37-□□□□		1	1 unit	1CA	113.000
	4000	4000			3WL1240-3□□37-□□□□		1	1 unit	1CA	121.000
With guide frames, connecting flanges										
I	630	630	66		3WL1106-3□□38-□□□□		1	1 unit	1CA	70.000
	800	800			3WL1108-3□□38-□□□□		1	1 unit	1CA	70.000
	1000	1000			3WL1110-3□□38-□□□□		1	1 unit	1CA	70.000
	1250	1250			3WL1112-3□□38-□□□□		1	1 unit	1CA	70.000
	1600	1600			3WL1116-3□□38-□□□□		1	1 unit	1CA	70.000
	2000	2000			3WL1120-3□□38-□□□□		1	1 unit	1CA	70.000
II	800	800	80		3WL1208-3□□38-□□□□		1	1 unit	1CA	91.000
	1000	1000			3WL1210-3□□38-□□□□		1	1 unit	1CA	91.000
	1250	1250			3WL1212-3□□38-□□□□		1	1 unit	1CA	91.000
	1600	1600			3WL1216-3□□38-□□□□		1	1 unit	1CA	91.000
	2000	2000			3WL1220-3□□38-□□□□		1	1 unit	1CA	91.000
	2500	2500			3WL1225-3□□38-□□□□		1	1 unit	1CA	102.000
	3200	3200			3WL1232-3□□38-□□□□		1	1 unit	1CA	113.000

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 graphics display	NB		✓
	Versions with ground-fault protection			
	ETU27B: Protection functions LS-ING ⁵⁾	DG		✓
	ETU45B: Protection functions LS-ING ⁴⁾⁶⁾	EG		✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG		✓
	ETU76B: Protection functions LS-ING ⁴⁾⁶⁾ with 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 1/44			

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg

Without guide frames²⁾

(for guide frames, see pages 1/52 to 1/57)

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	45.000 45.000 45.000 45.000 45.000 45.000
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	60.000 60.000 60.000 60.000 60.000 63.000 68.000 71.000
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	88.000 88.000 96.000

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	70.000 70.000 70.000 70.000 70.000 70.000
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	91.000 91.000 91.000 91.000 91.000 102.000 113.000
III	4000 5000	4000 5000	100		3WL1340-4□□36-□□□□ 3WL1350-4□□36-□□□□	1 1	1 unit 1 unit	1CA 1CA	148.000 148.000

Options

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 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 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 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

* You can order this quantity or a multiple thereof.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	70.000 70.000 70.000 70.000 70.000 70.000
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	91.000 91.000 91.000 91.000 91.000 102.000 113.000 121.000
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	148.000 148.000 166.000
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	70.000 70.000 70.000 70.000 70.000 70.000
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	91.000 91.000 91.000 91.000 91.000 102.000 113.000
III	4000	4000	100		3WL1340-4□□38-□□□□	1	1 unit	1CA	148.000
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 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 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 1/44								

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 130/150 kA at 500 V, very high breaking capacity C	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
Without guide frames ²⁾ (for guide frames, see pages 1/52 to 1/57)									
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	69.000 69.000 69.000 69.000
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	88.000 88.000 96.000
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	123.000 123.000 123.000 123.000
III	4000 5000	4000 5000	150		3WL1340-5□□36-□□□□ 3WL1350-5□□36-□□□□	1 1	1 unit 1 unit	1CA 1CA	148.000 148.000
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	123.000 123.000 123.000 123.000
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	148.000 148.000 166.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁶⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁵⁾⁷⁾	EG	✓
	ETU45B: Protection functions LSING ⁵⁾⁷⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁵⁾⁷⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

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

5) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58.

6) Current transformers for protection of the N conductor are to be ordered separately, see page 1/58.

7) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{n \text{ max.}}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N N	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	50.000 50.000 50.000 50.000 50.000 50.000
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	67.000 67.000 67.000 67.000 67.000 71.000 77.000
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	50.000 50.000 50.000 50.000 50.000 50.000
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	75.000 75.000 75.000 75.000 67.000 71.000 77.000 103.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ³⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁴⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁴⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

³⁾ Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

⁴⁾ ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N N	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
Front main circuit connection, single hole									
I	630 800 1000 1250 1600	630 800 1000 1250 1600	55		3WL1106-2□□43-□□□□ 3WL1108-2□□43-□□□□ 3WL1110-2□□43-□□□□ 3WL1112-2□□43-□□□□ 3WL1116-2□□43-□□□□	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA	50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□43-□□□□ 3WL1210-2□□43-□□□□ 3WL1212-2□□43-□□□□ 3WL1216-2□□43-□□□□ 3WL1220-2□□43-□□□□ 3WL1225-2□□43-□□□□ 3WL1232-2□□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	67.000 67.000 67.000 67.000 67.000 71.000 77.000
Front main circuit connection, double hole									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□44-□□□□ 3WL1108-2□□44-□□□□ 3WL1110-2□□44-□□□□ 3WL1112-2□□44-□□□□ 3WL1116-2□□44-□□□□ 3WL1120-2□□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	50.000 50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□44-□□□□ 3WL1210-2□□44-□□□□ 3WL1212-2□□44-□□□□ 3WL1216-2□□44-□□□□ 3WL1220-2□□44-□□□□ 3WL1225-2□□44-□□□□ 3WL1232-2□□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	67.000 67.000 67.000 67.000 67.000 71.000 77.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ³⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁴⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁴⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

4) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU				kg
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	50.000 50.000 50.000 50.000 50.000 50.000
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	67.000 67.000 67.000 67.000 67.000 71.000 77.000
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	50.000 50.000 50.000 50.000 50.000 50.000
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	67.000 67.000 67.000 67.000 67.000 71.000 77.000 103.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ³⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁴⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁴⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

4) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU				kg
Front main circuit connection, single hole										
I	630 800 1000 1250 1600	630 800 1000 1250 1600	66		3WL1106-3□□43-□□□□ 3WL1108-3□□43-□□□□ 3WL1110-3□□43-□□□□ 3WL1112-3□□43-□□□□ 3WL1116-3□□43-□□□□		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA	50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□43-□□□□ 3WL1210-3□□43-□□□□ 3WL1212-3□□43-□□□□ 3WL1216-3□□43-□□□□ 3WL1220-3□□43-□□□□ 3WL1225-3□□43-□□□□ 3WL1232-3□□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	67.000 67.000 67.000 67.000 67.000 71.000 77.000
Front main circuit connection, double hole										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□44-□□□□ 3WL1108-3□□44-□□□□ 3WL1110-3□□44-□□□□ 3WL1112-3□□44-□□□□ 3WL1116-3□□44-□□□□ 3WL1120-3□□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	50.000 50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□44-□□□□ 3WL1210-3□□44-□□□□ 3WL1212-3□□44-□□□□ 3WL1216-3□□44-□□□□ 3WL1220-3□□44-□□□□ 3WL1225-3□□44-□□□□ 3WL1232-3□□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	67.000 67.000 67.000 67.000 67.000 71.000 77.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ³⁾	DG	✓
	ETU45B: Protection functions LS-ING ³⁾⁴⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ³⁾⁴⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

4) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H	H	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU				kg
Horizontal main circuit connection										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□42-□□□□ 3WL1108-4□□42-□□□□ 3WL1110-4□□42-□□□□ 3WL1112-4□□42-□□□□ 3WL1116-4□□42-□□□□ 3WL1120-4□□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	50.000 50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□42-□□□□ 3WL1210-4□□42-□□□□ 3WL1212-4□□42-□□□□ 3WL1216-4□□42-□□□□ 3WL1220-4□□42-□□□□ 3WL1225-4□□42-□□□□ 3WL1232-4□□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	67.000 67.000 67.000 67.000 67.000 71.000 77.000
III	4000 5000	4000 5000	100		3WL1340-4□□42-□□□□ 3WL1350-4□□42-□□□□		1 1	1 unit 1 unit	1CA 1CA	99.000 99.000
Vertical main circuit connection										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□41-□□□□ 3WL1108-4□□41-□□□□ 3WL1110-4□□41-□□□□ 3WL1112-4□□41-□□□□ 3WL1116-4□□41-□□□□ 3WL1120-4□□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	50.000 50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□41-□□□□ 3WL1210-4□□41-□□□□ 3WL1212-4□□41-□□□□ 3WL1216-4□□41-□□□□ 3WL1220-4□□41-□□□□ 3WL1225-4□□41-□□□□ 3WL1232-4□□41-□□□□ 3WL1240-4□□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	67.000 67.000 67.000 67.000 67.000 71.000 77.000 103.000
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□41-□□□□ 3WL1350-4□□41-□□□□ 3WL1363-4□□41-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	99.000 99.000 108.000

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 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 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 1/44	1AA2	None

✓ Additional price

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 1/45.

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

³⁾ Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

⁴⁾ ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	67.000 67.000 67.000 67.000 67.000 71.000 77.000
III	4000	4000	100		3WL1340-4□□43-□□□□	1	1 unit	1CA	99.000
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	50.000 50.000 50.000 50.000 50.000 50.000
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	67.000 67.000 67.000 67.000 67.000 71.000 77.000
III	4000	4000	100		3WL1340-4□□44-□□□□	1	1 unit	1CA	99.000
Options									
Non-automatic air circuit breakers²⁾		Without Electronic Trip Units			AA	Additional price 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 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 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 1/44							

✓ Additional price

- 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 1/45.
- 2) For permissible rated short-time current I_{oc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see page 1/13.
- 3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.
- 4) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.
- 5) ETU15B cannot be used with 3WL1 circuit breakers, size III.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 130/150 kA at 500 V, very high breaking capacity C	C	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU				kg
Horizontal main circuit connection										
II	1600	1600	130		3WL1216-5□□42-□□□□ 3WL1220-5□□42-□□□□ 3WL1225-5□□42-□□□□ 3WL1232-5□□42-□□□□		1	1 unit	1CA	78.000
	2000	2000								
	2500	2500								
	3200	3200								
III	4000	4000	130		3WL1340-5□□42-□□□□ 3WL1350-5□□42-□□□□		1	1 unit	1CA	99.000
	5000	5000								
Vertical main circuit connection										
II	1600	1600	130		3WL1216-5□□41-□□□□ 3WL1220-5□□41-□□□□ 3WL1225-5□□41-□□□□ 3WL1232-5□□41-□□□□		1	1 unit	1CA	78.000
	2000	2000								
	2500	2500								
	3200	3200								
III	4000	4000	130		3WL1340-5□□41-□□□□ 3WL1350-5□□41-□□□□ 3WL1363-5□□41-□□□□		1	1 unit	1CA	99.000
	5000	5000								
	6300	6300								
Options										
Non-automatic air circuit breakers ²⁾		Without Electronic Trip Units			AA				Additional price	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 graphics display			NB					✓
		Versions with ground-fault protection								
		ETU27B: Protection functions LSING ⁴⁾			DG					✓
		ETU45B: Protection functions LS-ING ⁴⁾⁵⁾			EG					✓
		ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display			FG					✓
		ETU76B: Protection functions LS-ING ⁴⁾⁵⁾ with 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 1/44								

✓ Additional price

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 1/45.

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

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

⁴⁾ Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

⁵⁾ ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx.
A	A	A	kA							kg
Without guide frames²⁾ (for guide frames, see pages 1/52 to 1/57)										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□45-□□□□ 3WL1108-2□□45-□□□□ 3WL1110-2□□45-□□□□ 3WL1112-2□□45-□□□□ 3WL1116-2□□45-□□□□ 3WL1120-2□□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	54.000 54.000 54.000 54.000 54.000 54.000
II	800 1000 1250 1600 2000 2500 3200 NEW 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□45-□□□□ 3WL1210-2□□45-□□□□ 3WL1212-2□□45-□□□□ 3WL1216-2□□45-□□□□ 3WL1220-2□□45-□□□□ 3WL1225-2□□45-□□□□ 3WL1232-2□□45-□□□□ 3WL1240-2□□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	75.000 75.000 75.000 75.000 72.000 76.000 82.000 84.000
With guide frames, horizontal main circuit connection										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□46-□□□□ 3WL1108-2□□46-□□□□ 3WL1110-2□□46-□□□□ 3WL1112-2□□46-□□□□ 3WL1116-2□□46-□□□□ 3WL1120-2□□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	84.000 84.000 84.000 84.000 84.000 84.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□46-□□□□ 3WL1210-2□□46-□□□□ 3WL1212-2□□46-□□□□ 3WL1216-2□□46-□□□□ 3WL1220-2□□46-□□□□ 3WL1225-2□□46-□□□□ 3WL1232-2□□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	109.000 109.000 109.000 109.000 109.000 123.000 136.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁴⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁴⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "Z" and the order code "F23", see page 1/47.

5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000 146.000
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁴⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁴⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S S	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU			kg
Without guide frames²⁾ (for guide frames, see pages 1/52 to 1/57)									
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	54.000 54.000 54.000 54.000 54.000 54.000
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	72.000 72.000 72.000 72.000 72.000 76.000 82.000 84.000
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁴⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁴⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	DT	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000 146.000
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁴⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁴⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁴⁾⁵⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx.
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
Without guide frames²⁾ (for guide frames, see pages 1/52 to 1/57)									
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	54.000 54.000 54.000 54.000 54.000 54.000
II	800 1000 1250 1600 2000 2500 3200 NEW 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	72.000 72.000 72.000 72.000 72.000 76.000 82.000 84.000
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	106.000 106.000 108.000
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000
III	4000 5000	4000 5000	100		3WL1340-4□□46-□□□□ 3WL1350-4□□46-□□□□	1 1	1 unit 1 unit	1CA 1CA	190.000 190.000

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 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 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 1/44		

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "Z" and the order code "F23", see page 1/47.

5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

* You can order this quantity or a multiple thereof.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	DT	I_{cu} 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000 146.000
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	190.000 190.000 227.000
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	84.000 84.000 84.000 84.000 84.000 84.000
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	109.000 109.000 109.000 109.000 109.000 123.000 136.000
III	4000	4000	100		3WL1340-4□□48-□□□□	1	1 unit	1CA	190.000
Options									
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 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 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 1/44								

✓ Additional price

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 1/45.

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

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

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

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

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	I_{cu} 130/150 kA at 500 V, very high breaking capacity C	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
	A	A	kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg	
Without guide frames ²⁾ (for guide frames, see pages 1/52 to 1/57)										
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	83.000 83.000 83.000 83.000
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	115.000 106.000 108.000
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	148.000 148.000 148.000 148.000
III	4000 5000	4000 5000	130		3WL1340-5□□46-□□□□ 3WL1350-5□□46-□□□□		1 1	1 unit 1 unit	1CA 1CA	190.000 190.000
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	148.000 148.000 148.000 148.000
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	190.000 190.000 227.000

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 graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LS-ING ⁵⁾	DG	✓
	ETU45B: Protection functions LS-ING ⁵⁾⁶⁾	EG	✓
	ETU45B: Protection functions LSING ⁵⁾⁶⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LS-ING ⁵⁾⁶⁾ with 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 1/44		

✓ Additional price

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 1/45.

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

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

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

5) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/58. The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/47.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/58.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Options

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 solenoid							
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 solenoid or closing coil for synchronization purposes: "1" at the 13th digit of the Article No. and order codes, see page 1/46 .									
1st auxiliary release									
Type	Condition	U_s 50/60 Hz V AC		U_s V DC					
Without 1st auxiliary release	--	--		--		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 release	--	--		--		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 ✓			
				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				✓	

✓ Additional price

Air Circuit Breakers

3WL1 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	Additional price 4-pole
Conditions	Size	Rated current I_n					
Only for circuit breakers with high breaking capacity H (8th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1150 V AC order code "A15".	I ¹⁾	Up to 2000 A	A 0 5			✓	✓
		II ¹⁾²⁾	Up to 2000 A	A 0 5			✓
	2500 A		A 0 5			✓	✓
	3200 A		A 0 5			✓	✓
	III ¹⁾³⁾	4000 A	A 0 5			✓	✓
		5000 A	A 0 5			✓	✓
		6300 A	A 0 5			✓	✓
Rated voltage 1150 V AC							
Conditions	Size	Rated current I_n					
Only for circuit breakers with high breaking capacity H (8th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1000 V AC order code "A05".	II 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 (8th digit of the Article No. is a "4").	I	Up to 2000 A	A 1 6			✓	✓
Tinned version of the customer's connections on the guide frame 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 current circuit breaker ($I_{n\max}$). 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

✓ Additional price

1) If 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

3WL1 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 lock CES			C 1 2	✓
Storage status signaling switches²⁾ (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 mechanisms and closing/opening coils					
Type	Conditions	Motor 50/60 Hz V AC	V DC		
Motorized operating mechanism	Only possible if the 13th 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 coils 50/60 Hz V AC	V DC		
Closing coil suitable for uninterrupted duty, 100 % OP	Only possible if the 13th 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 coils 50/60 Hz V AC	V DC		
Closing coil⁵⁾ not suitable for uninterrupted duty, 5 % OP, synchronizable	Only possible if the 13th 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 coils 50/60 Hz V AC	V DC		
Opening coils (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	✓

✓ Additional price

1) Only possible with motorized operating mechanism.

2) Not possible with communications interface option, order codes "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. operating time 50 ms (standard > 80 ms).

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

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

8) Only possible with option "K07".

Air Circuit Breakers

3WL1 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)								
Mutual mechanical interlockings (interlocking module with Bowden wire 2 m)		Fixed-mounted circuit breakers		S	5	5		✓
Interlocks, covers, position signaling switches (for withdrawable version)								
Mutual mechanical interlockings (interlocking module with Bowden wire 2 m)		Version						
		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 measurement functions								
Breaker status sensor (BSS)				F	0	1		✓
PROFIBUS-DP communications interface ²⁾		Including COM15 and breaker status sensor (BSS)		F	0	2		✓
MODBUS-RTU communications interface ²⁾		Including COM16 and breaker status sensor (BSS)		F	1	2		✓
Measurement function <i>Plus</i> (without PROFIBUS/MODBUS communications interface) ³⁾				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 • 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.				F	3	1		✓

✓ Additional price

¹⁾ Padlocks not included in scope of supply.²⁾ If ordering the withdrawable circuit breaker and guide frame separately, specify order code "F02" or "F12" for the withdrawable circuit breaker only.³⁾ Additional voltage transformers are required for connection of the *Plus* measurement function, see page 1/67.

Air Circuit Breakers

3WL1 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 panels The disconnecter unit fulfills the requirements for main circuit breakers according to EN 60204-1	Version				
	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".	Version				
	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	Version				
	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 devices 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 devices (for withdrawable version)					
Locking devices Not possible in combination with order codes "R81", "R85" or "R86".	Version				
	To prevent opening of the cabinet door in connected position	R	3	0	✓
	To prevent activation when the cabinet door is 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 wire and lock in the cabinet door Not possible in combination with order codes "R30", "R50", "R61", "R68" or "R60".	Version				
	Made by CES	R	8	1	✓
	Made by Ronis	R	8	5	✓
	Made by Profalux	R	8	6	✓
Connection methods for auxiliary conductors (for fixed-mounted and withdrawable versions)					
Connections for screwless terminals (tension spring)	Version				
	Fixed-mounted	N	6	1	✓
	Withdrawable	P	6	1	

✓ Additional price

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

3WL1 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			✓	✓
		Up to 5000 A	P 1 8			✓	✓
Connection methods for main connections	Size	Rated current I_n					
Top: ¹⁾ connection flange Bottom: horizontal	I	Up to 2000 A	P 1 9			✓	✓
	II	Up to 2000 A	P 1 9			✓	✓
		Up to 2500 A	P 1 9			✓	✓
		Up to 3200 A	P 1 9			✓	✓
III		Up to 4000 A	P 1 9			✓	✓
Connection methods for main connections	Size	Rated current I_n					
Top: horizontal Bottom: vertical	I	Up to 2000 A	P 2 3			✓	✓
	II	Up to 2000 A	P 2 3			✓	✓
		Up to 2500 A	P 2 3			✓	✓
		Up to 3200 A	P 2 3			✓	✓
III		Up to 4000 A	P 2 3			✓	✓
		Up to 5000 A	P 2 3			✓	✓
Connection methods for main connections	Size	Rated current I_n					
Top: 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			✓	✓

✓ Additional price

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

3WL1 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	
For fixed-mounted circuit breakers				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 "2".					
Connection methods for main connections	Size	Rated current I_n			
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	Size	Rated current I_n			
Top: vertical Bottom: horizontal	I	Up to 1600 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	✓	✓
Top: horizontal Bottom: vertical	I	Up to 2000 A	N 2 4	✓	✓
		Up to 2500 A	N 2 4	✓	✓
	II	Up to 2000 A	N 2 4	✓	✓
		Up to 2500 A	N 2 4	✓	✓
	III	Up to 4000 A	N 2 4	✓	✓

✓ Additional price

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

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

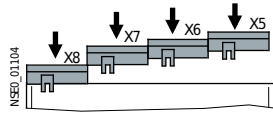
Accessories and spare parts

1

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 communication 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
	• Tripped signal switch S24		
	• Stored-energy status indication 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	Stored-energy status indicator 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	Switch on 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 1/52 to page 1/57 and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/63.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
A		kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg	
Front main circuit connection, single hole									
I	1000 1600	... 66 ... 66		3WL9211-1AA□□-□□A1 3WL9211-2AA□□-□□A1		1 1	1 unit 1 unit	1CA 1CA	25.000 25.000
II	2000 2500 3200	... 100 ... 100 ... 100		3WL9212-3AA□□-□□A1 3WL9212-4AA□□-□□A1 3WL9212-5AA□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	31.000 39.000 45.000
III	4000	... 100		3WL9213-6AA□□-□□A1		1	1 unit	1CA	60.000
Front main circuit connection, double hole									
I	1000 1600 2000 ¹⁾	... 66 ... 66 ... 85		3WL9211-1AB□□-□□A1 3WL9211-2AB□□-□□A1 3WL9211-3AB□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	25.000 25.000 25.000
II	2000 2500 3200	... 100 ... 100 ... 100		3WL9212-3AB□□-□□A1 3WL9212-4AB□□-□□A1 3WL9212-5AB□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	31.000 39.000 45.000
III	4000	... 100		3WL9213-6AB□□-□□A1		1	1 unit	1CA	60.000
Horizontal main circuit connection									
I	1000 1600 2000 ¹⁾	... 66 ... 66 ... 85		3WL9211-1AC□□-□□A1 3WL9211-2AC□□-□□A1 3WL9211-3AC□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	25.000 25.000 25.000
II	2000 2500 3200 3200	... 100 ... 100 ... 100 ... 130		3WL9212-3AC□□-□□A1 3WL9212-4AC□□-□□A1 3WL9212-5AC□□-□□A1 3WL9212-5AC□□-□□C1		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA	31.000 39.000 45.000 54.000
III	4000 5000 4000 5000	... 100 ... 100 ... 150 ... 150		3WL9213-6AC□□-□□A1 3WL9213-7AC□□-□□A1 3WL9213-6AC□□-□□C1 3WL9213-7AC□□-□□C1		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA	60.000 60.000 63.000 63.000
Options									
Number of auxiliary supply connectors		None 1 connector 2 connectors 3 connectors 4 connectors		0 1 2 3 4	Additional price			None ✓ ✓ ✓ ✓	
Note									
For required number of auxiliary supply connectors, see table on page 1/51.									
Type of auxiliary circuit connections		None With screw connection (SI- GUT, standard) With screwless connection method (tension spring)		0 1 2				None ✓ ✓	
Position signaling switches		None Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		0 1 2				None ✓ ✓	
Shutters		None With shutter, 2-part, lockable		A B B B				None ✓ ✓ ✓	

✓ Additional price

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.

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, except breaking capacity C and 4000 A (breaking capacity H)		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 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			
- For main circuit connection vertical and main circuit connecting flange, see the following page. - All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/45 to page 1/50.			

✓ Additional price

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

3WL1 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>I</i> _n max.	Breaking capacity <i>I</i> _{cu} = <i>I</i> _{cs}	DT	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		kA		Article No.: www.siemens.com/ product?Article No.	Basic price per PU			kg
Vertical main circuit connection								
I	1000 1600 2000 ¹⁾	... 66 ... 66 ... 85		3WL9211-1AD□□-□□A1 3WL9211-2AD□□-□□A1 3WL9211-3AD□□-□□A1	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	25.000 25.000 25.000
II	2000 2500 3200 3200 4000 NEW	... 100 ... 100 ... 100 ... 130 ... 100		3WL9212-3AD□□-□□A1 3WL9212-4AD□□-□□A1 3WL9212-5AD□□-□□A1 3WL9212-5AD□□-□□C1 3WL9212-6AD□□-□□A1	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA	31.000 39.000 45.000 54.000 52.000
III	4000 5000 6300 4000 5000 6300	... 100 ... 100 ... 100 ... 150 ... 150 ... 150		3WL9213-6AD□□-□□A1 3WL9213-7AD□□-□□A1 3WL9213-8AD□□-□□A1 3WL9213-6AD□□-□□C1 3WL9213-7AD□□-□□C1 3WL9213-8AD□□-□□C1	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA	60.000 60.000 70.000 63.000 63.000 74.000
Main circuit connection connecting flanges								
I	1000 1600 2000 ¹⁾	... 66 ... 66 ... 85		3WL9211-1AE□□-□□A1 3WL9211-2AE□□-□□A1 3WL9211-3AE□□-□□A1	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	25.000 25.000 25.000
II	2000 2500 3200	... 100 ... 100 ... 100		3WL9212-3AE□□-□□A1 3WL9212-4AE□□-□□A1 3WL9212-5AE□□-□□A1	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	31.000 39.000 45.000
III	4000	... 100		3WL9213-6AE□□-□□A1	1	1 unit	1CA	60.000
Options								Additional price
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 1/51.								
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, 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, except breaking capacity C and 4000 A (breaking capacity H)					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 guide frame ¹⁾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								
• For main circuit connection vertical and main circuit connecting flange, see the following page. • All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/45 to page 1/50.								

✓ Additional price

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.

Air Circuit Breakers

3WL1 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 $I_{cu} = I_{cs}$	DT	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		kA		Article No. www.siemens.com/ product?Article No.	Basic price per PU			kg
Front main circuit connection, single hole								
I	1000 1600	... 66 ... 66		3WL9211-1BA□□-□□A1 3WL9211-2BA□□-□□A1		1 1	1 unit 1 unit	1CA 30.000 1CA 30.000
II	2000 2500 3200	... 100 ... 100 ... 100		3WL9212-3BA□□-□□A1 3WL9212-4BA□□-□□A1 3WL9212-5BA□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000
III	4000	... 100		3WL9213-6BA□□-□□A1		1	1 unit	1CA 84.000
Front main circuit connection, double hole								
I	1000 1600 2000 ¹⁾	... 66 ... 66 ... 85		3WL9211-1BB□□-□□A1 3WL9211-2BB□□-□□A1 3WL9211-3BB□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 30.000 1CA 30.000 1CA 30.000
II	2000 2500 3200	... 100 ... 100 ... 100		3WL9212-3BB□□-□□A1 3WL9212-4BB□□-□□A1 3WL9212-5BB□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000
III	4000	... 100		3WL9213-6BB□□-□□A1		1	1 unit	1CA 84.000
Horizontal main circuit connection								
I	1000 1600 2000 ¹⁾	... 66 ... 66 ... 85		3WL9211-1BC□□-□□A1 3WL9211-2BC□□-□□A1 3WL9211-3BC□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 30.000 1CA 30.000 1CA 30.000
II	2000 2500 3200 3200	... 100 ... 100 ... 100 ... 130		3WL9212-3BC□□-□□A1 3WL9212-4BC□□-□□A1 3WL9212-5BC□□-□□A1 3WL9212-5BC□□-□□C1		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000 1CA 65.000
III	4000 5000 4000 5000	... 100 ... 100 ... 130 ... 130		3WL9213-6BC□□-□□A1 3WL9213-7BC□□-□□A1 3WL9213-6BC□□-□□C1 3WL9213-7BC□□-□□C1		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 84.000 1CA 84.000 1CA 87.000 1CA 87.000
Options								
Number of auxiliary supply connectors		None		0				Additional price 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 1/51.								
Type of auxiliary circuit connections		None		0				None
		With screw connection (SI- GUT, 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				✓

✓ Additional price

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.

Air Circuit Breakers

3WL1 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, except breaking capacity C and 4000 A (breaking capacity H)	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 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					
• For main circuit connection vertical and main circuit connecting flange, see the following page. • All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/45 to page 1/50.					

✓ Additional price

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

3WL1 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 $I_{n \text{ max.}}$	Breaking capacity $I_{cu} = I_{cs}$	DT	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		kA		Article No.: www.siemens.com/ product?Article No.	Basic price per PU			kg
Vertical main circuit connection								
I	1000	... 66		3WL9211-1BD□□-□□A1	1	1 unit	1CA	30.000
	1600	... 66		3WL9211-2BD□□-□□A1	1	1 unit	1CA	30.000
	2000 ¹⁾	... 85		3WL9211-3BD□□-□□A1	1	1 unit	1CA	30.000
II	2000	... 100		3WL9212-3BD□□-□□A1	1	1 unit	1CA	37.000
	2500	... 100		3WL9212-4BD□□-□□A1	1	1 unit	1CA	47.000
	3200	... 100		3WL9212-5BD□□-□□A1	1	1 unit	1CA	54.000
	3200	... 130		3WL9212-5BD□□-□□C1	1	1 unit	1CA	65.000
	NEW 4000	... 100		3WL9212-6BD□□-□□A1	1	1 unit	1CA	62.000
III	4000	... 100		3WL9213-6BD□□-□□A1	1	1 unit	1CA	84.000
	5000	... 100		3WL9213-7BD□□-□□A1	1	1 unit	1CA	84.000
	6300	... 100		3WL9213-8BD□□-□□A1	1	1 unit	1CA	119.000
	4000	... 130		3WL9213-6BD□□-□□C1	1	1 unit	1CA	88.000
	5000	... 130		3WL9213-7BD□□-□□C1	1	1 unit	1CA	88.000
	6300	... 130		3WL9213-8BD□□-□□C1	1	1 unit	1CA	124.000
Main circuit connection connecting flanges								
I	1000	... 66		3WL9211-1BE□□-□□A1	1	1 unit	1CA	30.000
	1600	... 66		3WL9211-2BE□□-□□A1	1	1 unit	1CA	30.000
	2000 ¹⁾	... 85		3WL9211-3BE□□-□□A1	1	1 unit	1CA	30.000
II	2000	... 100		3WL9212-3BE□□-□□A1	1	1 unit	1CA	37.000
	2500	... 100		3WL9212-4BE□□-□□A1	1	1 unit	1CA	47.000
	3200	... 100		3WL9212-5BE□□-□□A1	1	1 unit	1CA	54.000
III	4000	... 100		3WL9213-6BE□□-□□A1	1	1 unit	1CA	84.000
Options								
Number of auxiliary supply connectors				0 1 2 3 4	Additional price None ✓ ✓ ✓ ✓			
Note								
For required number of auxiliary supply connectors, see table on page 1/51.								
Type of auxiliary circuit connections				0 1 2	None ✓ ✓			
Position signaling switches				0 1 2	None ✓ ✓			
Shutters				A B B B	None ✓ ✓ ✓			
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, except breaking capacity C and 4000 A (breaking capacity H)				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 guide frame ¹⁾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								
• For main circuit connection vertical and main circuit connecting flange, see the following page. • All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/45 to page 1/50.								

✓ Additional price

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.

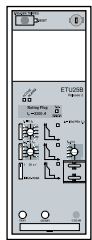
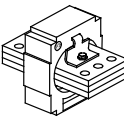
³⁾ The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

* You can order this quantity or a multiple thereof.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Accessories and spare parts

	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 NSE0_016100	Protective devices with device holder and optional measurement function¹⁾							
	Type	With protection function	Measuring function					
	ETU15B	LI	None	3WL9311-5AA00-0AA2	1	1 unit	1CA	0.720
	ETU25B	LSI	None	3WL9312-5AA00-0AA2	1	1 unit	1CA	0.720
	ETU27B	LSING	None	3WL9312-7AA00-0AA2	1	1 unit	1CA	0.720
	ETU45B (without display)	LSIN(G)	None With measurement function <i>Plus</i>	3WL9314-5AA00-0AA2 3WL9314-5AA20-0AA2	1 1	1 unit 1 unit	1CA 1CA	0.720 0.720
	ETU76B	LSIN(G)	None With measurement function <i>Plus</i>	3WL9317-6AA00-0AA2 3WL9317-6AA20-0AA2	1 1	1 unit 1 unit	1CA 1CA	0.720 0.720
3WL931.-.AA.0-0AA1								
 NSE0_00992b	Rating plugs²⁾							
	Size	Rated current I_n (A)						
	I, II	250	3WL9111-0AA51-0AA0	1	1 unit	1CA	0.010	
		315	3WL9111-0AA52-0AA0	1	1 unit	1CA	0.010	
		400	3WL9111-0AA53-0AA0	1	1 unit	1CA	0.010	
		500	3WL9111-0AA54-0AA0	1	1 unit	1CA	0.010	
		630	3WL9111-0AA55-0AA0	1	1 unit	1CA	0.010	
		800	3WL9111-0AA56-0AA0	1	1 unit	1CA	0.010	
	I, II, III	1000	3WL9111-0AA57-0AA0	1	1 unit	1CA	0.010	
		1250	3WL9111-0AA58-0AA0	1	1 unit	1CA	0.010	
		1600	3WL9111-0AA61-0AA0	1	1 unit	1CA	0.010	
	II, III	2000	3WL9111-0AA62-0AA0	1	1 unit	1CA	0.010	
		2500	3WL9111-0AA63-0AA0	1	1 unit	1CA	0.010	
		3200	3WL9111-0AA64-0AA0	1	1 unit	1CA	0.010	
	III	4000	3WL9111-0AA65-0AA0	1	1 unit	1CA	0.010	
		5000	3WL9111-0AA66-0AA0	1	1 unit	1CA	0.010	
6300	3WL9111-0AA67-0AA0	1	1 unit	1CA	0.010			
 NSE0_01027a	Ground-fault modules³⁾							
	Versions							
	• GFM AT 45B (only for ETU45B) alarm and tripping • GFM AT 55B–76B (only for ETU76B) alarm and tripping			3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0	1 1	1 unit 1 unit	1CA 1CA	0.030 0.030
	 NSE0_01609	Displays						
• For ETU45B • 4-line			3WL9111-0AT81-0AA0	1	1 unit	1CA	0.060	
3WL9111-0AT81-0AA0								
 NSE0_00990a	Internal current transformers for N conductor							
	Including wiring kit							
	ETU Release 2	Size						
	--	I	3WL9111-0AA11-0AA0	1	1 unit	1CA	0.200	
		II	3WL9111-0AA12-0AA0	1	1 unit	1CA	0.280	
		III	3WL9111-0AA13-0AA0	1	1 unit	1CA	0.500	
	✓	I	3WL9111-0AA14-0AA0	1	1 unit	1CA	0.200	
		II	3WL9111-0AA15-0AA0	1	1 unit	1CA	0.280	
		III	3WL9111-0AA16-0AA0	1	1 unit	1CA	0.500	
	 NSE0_00991a	External current transformers for N conductor						
For T5, "Measurement Method" function, see Technical Information at www.siemens.com/lowvoltage/product-support .								
Copper connection pieces		Size						
--		I	3WL9111-0AA21-0AA0	1	1 unit	1CA	0.300	
		II	3WL9111-0AA22-0AA0	1	1 unit	1CA	0.380	
		III	3WL9111-0AA23-0AA0	1	1 unit	1CA	0.680	
✓		I	3WL9111-0AA31-0AA0	1	1 unit	1CA	1.600	
		II	3WL9111-0AA32-0AA0	1	1 unit	1CA	4.260	
		III	3WL9111-0AA33-0AA0	1	1 unit	1CA	8.500	
		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 • Only for ETU Release 2			3WL9111-0AK32-0AA0 3WL9111-0AK34-0AA0	1 1	1 unit 1 unit	1CA 1CA	0.280 0.280

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 $I_n \leq I_{n \max}$.

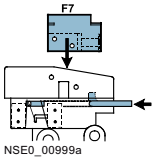
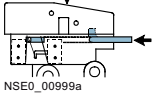
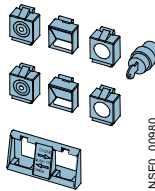
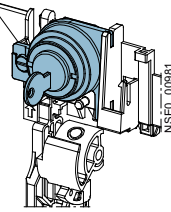
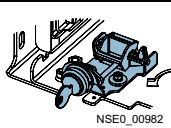
³⁾ For direct measurement of the ground-fault current, e.g. in the neutral point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL circuit breaker is 0.11 Ω . If the ground-fault current is to be determined using the vectorial sum of the phases,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

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

Accessories and spare parts

1

	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
More accessories for Electronic Trip Units								
 3WL9111-0AT45-0AA0	Sealable and lockable covers							
	Versions							
	• For ETU15B to ETU45B		3WL9111-0AT45-0AA0		1	1 unit	1CA	0.050
	• For ETU76		3WL9111-0AT46-0AA0		1	1 unit	1CA	0.050
	Automatic reset of the reclosing lockout Spare part for option K01 , for "-Z" + order code, see page 1/46.		3WL9111-0AK21-0AA0		1	1 unit	1CA	0.050
 3WL9111-0AK0-0AA0	Remote reset coils¹⁾ • For mechanical tripped indicator • Spare part for options K10 to K13 , for "-Z" + order code, see page 1/46.							
	Note							
	Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 also needed.							
	Versions							
	• 24 V DC		3WL9111-0AK03-0AA0		1	1 unit	1CA	0.200
 3WL9111-0AK0-0AA0	• 48 V DC		3WL9111-0AK04-0AA0		1	1 unit	1CA	0.200
	• 120 V AC/125 V DC		3WL9111-0AK05-0AA0		1	1 unit	1CA	0.200
	• 208-250 V AC/208-250 V DC		3WL9111-0AK06-0AA0		1	1 unit	1CA	0.200
	Retrofittable internal CubicleBUS wiring for connection to terminal X8 • For ETU45B and ETU76B • Without male connector ²⁾		3WL9111-0AK30-0AA0		1	1 unit	1CA	0.150
	Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8 • Not for ETU Release 2 • Without male connector		3WL9111-0AK31-0AA0		1	1 unit	1CA	0.020
 3WL9111-0AK33-0AA0	Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8 • For ETU Release 2 • Without male connector		3WL9111-0AK33-0AA0		1	1 unit	1CA	0.020
Locking devices								
 3WL9111-0BA22-0AA0	Interlocking set for mechanical ON/OFF • Consisting of 2 transparent covers each for sealing or for attaching padlocks ⁴⁾ , • Cover with 6.35 mm hole (for tool actuation) • Lock mount for safety lock for key operation							
	Versions							
	• Without safety lock		3WL9111-0BA21-0AA0		1	1 unit	1CA	0.100
	• Made by CES		3WL9111-0BA22-0AA0		1	1 unit	1CA	0.300
	• Made by IKON		3WL9111-0BA24-0AA0		1	1 unit	1CA	0.300
 3WL9111-0BA31-0AA0	Locking devices against unauthorized closing, in the operator panels • The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 • Spare part for options S01 to S09 , for "-Z" + order code, see page 1/48.							
	Versions							
	• Assembly kit FORTRESS or CASTELL ³⁾		3WL9111-0BA31-0AA0		1	1 unit	1CA	0.200
	• Made by Ronis		3WL9111-0BA33-0AA0		1	1 unit	1CA	0.400
	• Made by KIRK-Key ³⁾		3WL9111-0BA34-0AA0		1	1 unit	1CA	0.270
 3WL9111-0BA53-0AA0	• Made by Profalux		3WL9111-0BA35-0AA0		1	1 unit	1CA	0.250
	• Made by CES		3WL9111-0BA36-0AA0		1	1 unit	1CA	0.200
	• Made by IKON		3WL9111-0BA38-0AA0		1	1 unit	1CA	0.200
	• Assembly kit for padlocks ⁴⁾		3WL9111-0BA41-0AA0		1	1 unit	1CA	0.360
	Locking devices against unauthorized closing, for withdrawable circuit breakers • The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 • Consisting of lock in the cabinet door, active in connected position; function is retained when circuit breaker is replaced • Spare part for options R60 , R61 , R68 , for "-Z" + order code, see page 1/48.							
 3WL9111-0BA53-0AA0	Versions							
	• Made by CES		3WL9111-0BA51-0AA0		1	1 unit	1CA	0.300
	• Made by IKON		3WL9111-0BA53-0AA0		1	1 unit	1CA	0.300
	• Made by KIRK-Key ³⁾		3WL9111-0BA57-0AA0		1	1 unit	1CA	0.300
	• Made by Ronis		3WL9111-0BA58-0AA0		1	1 unit	1CA	0.300
	• Made by Profalux		3WL9111-0BA50-0AA0		1	1 unit	1CA	0.227

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.

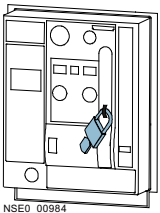
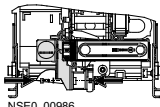
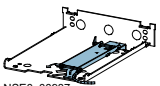
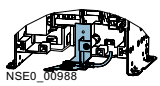
³⁾ Locks, cylinders and keys must be ordered from the manufacturer.

⁴⁾ Padlock not included in the scope of supply.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Accessories and spare parts

	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 NSE0_00984 3WL9111-0BA71-0AA0	Locking devices for operating mechanism handle with padlock¹⁾ Spare part for option S33 , for "-Z" + order code, see page 1/48 .		3WL9111-0BA71-0AA0		1	1 unit	1CA	0.080
 NSE0_00986 3WL9111-0BA76-0AA0	Locking devices to prevent movement of the withdrawable circuit breakers • Safety lock for mounting on the circuit breaker • Spare part for options S71, S75, S76 , for "-Z" + order code, see page 1/48 .							
	Versions							
	• Made by CES		3WL9111-0BA73-0AA0		1	1 unit	1CA	0.300
	• Made by IKON		3WL9111-0BA75-0AA0		1	1 unit	1CA	0.200
	• Made by Profalux		3WL9111-0BA76-0AA0		1	1 unit	1CA	0.300
	• Made by Ronis		3WL9111-0BA77-0AA0		1	1 unit	1CA	0.300
	• Made by KIRK-Key ²⁾		3WL9111-0BA80-0AA0		1	1 unit	1CA	0.400
	Interlocking systems • 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	0.360
Locking mechanisms								
 NSE0_00987 3WL9111-0BA83-0AA0	Locking devices to prevent movement of the withdrawable circuit breakers in disconnected position • Consisting of Bowden wire and lock in the cabinet door on the circuit breaker • Spare part for options R81, R85, R86 , for "-Z" + order code, see page 1/48 .							
	Versions							
	• Made by CES		3WL9111-0BA81-0AA0		1	1 unit	1CA	0.800
	• Made by IKON		3WL9111-0BA83-0AA0		1	1 unit	1CA	0.800
	• Made by Profalux		3WL9111-0BA85-0AA0		1	1 unit	1CA	0.800
	• Made by Ronis		3WL9111-0BA86-0AA0		1	1 unit	1CA	0.800
	Note Not possible in combination with "Locking device to prevent opening of the cabinet door" (order code "R30") or "Locking device to prevent movement with the cabinet door open" (order code "R50").							
 NSE0_00988 3WL9111-0BB12-0AA0	Locking devices to prevent opening of the cabinet door in ON position • Fixed-mounted • Can be defeated • Spare part for option S30 , for "-Z" + order code, see page 1/48 .		3WL9111-0BB12-0AA0		1	1 unit	1CA	0.600
	Locking devices to prevent opening of the cabinet door • Guide frames • Can be defeated • Spare part for option R30 , for "-Z" + order code, see page 1/48 .		3WL9111-0BB13-0AA0		1	1 unit	1CA	0.150
	Note Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").							
	Locking devices to prevent movement with the cabinet door open • Guide frames • Spare part for option R50 , for "-Z" + order code, see page 1/48 .		3WL9111-0BB15-0AA0		1	1 unit	1CA	0.150
	Note Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").							

¹⁾ Padlock not included in the scope of supply.

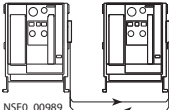
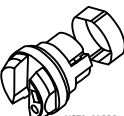
²⁾ Locks, cylinders and keys must be ordered from the manufacturer.

Air Circuit Breakers

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Accessories and spare parts

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Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
Interlocks								
 NSE0_00989		Mutual mechanical interlocking with 2000 mm Bowden wire (one required for each circuit breaker)						
Type	When ordered separately	Spare part for						
Fixed-mounted circuit breakers	--	Option S55 , for "-Z" + order code, see page 1/47 .	3WL9111-0BB21-0AA0	1	1 unit	1CA	2.700	
Module for withdrawable circuit breakers with guide frame	--	Option R55 , for "-Z" + order code, see page 1/47 .	3WL9111-0BB24-0AA0	1	1 unit	1CA	1.130	
Module for guide frame	✓	Option R56 , for "-Z" + order code, see page 1/47 .	3WL9111-0BB22-0AA0	1	1 unit	1CA	1.100	
Module for withdrawable circuit breaker	✓	Option R57 , for "-Z" + order code, see page 1/47 .	3WL9111-0BB23-0AA0	1	1 unit	1CA	0.150	
Adapter for size III withdrawable circuit breaker	✓	--	3WL9111-0BB30-0AA0	1	1 unit	1CA	0.100	
 NSE0_01886		Couplings on the circuit breaker (with ring) for mutual interlocking Can be used in all circuit breakers		3WL9112-8AH47-0AA0	1	1 unit	1CA	0.160
3WL9112-8HA47-0AA0								
Bowden wires								
Versions								
2000 mm		3WL9111-0BB45-0AA0	1	1 unit	1CA	0.150		
3000 mm		3WL9111-0BB46-0AA0	1	1 unit	1CA	0.220		
4500 mm		3WL9111-0BB47-0AA0	1	1 unit	1CA	0.360		
Transfer control devices								
 3KC9000-8TL30 3KC9000-8EL10		3KC ATC5300 and <i>NEW</i> ATC3100 transfer control devices For combination with two air circuit breakers/molded case circuit breakers for changeover according to IEC 60947-6-1. For further information, see Chapter "Monitoring Devices".						
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	1.100		
Function testers For testing the tripping characteristics for Electronic Trip Units ETU15B to ETU76B		3WL9111-0AT44-0AA0	1	1 unit	1CA	8.210		
Capacitor storage devices								
Capacitor storage devices • For shunt releases • Storage time 5 min		3WL9111-0BA14-0AA0	1	1 unit	1CA	0.520		
Rated control supply voltage/rated operational voltage								
50/60 Hz V AC	V DC							
220 ... 240	220 ... 250							
Note								
• Rated control supply voltage must match the rated control supply voltage of the shunt release • Suitable also for 3VL and 3WN circuit breakers								

Air Circuit Breakers

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Accessories and spare parts

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Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Indicators, control elements							
Ready-to-close signaling switches (S20) 1 NO contact - Spare part for option C22, for "-Z" + order code, see page 1/46. NSE0_00993a 3WL9111-0AH01-0AA0		3WL9111-0AH01-0AA0		1	1 unit	1CA	0.020
Signaling switches¹⁾²⁾ (S22 or S23) 1st or 2nd auxiliary release - Spare part for options C26 and C27, for "-Z" + order code, see page 1/46. NSE0_00994b 3WL9111-0AH02-0AA0		3WL9111-0AH02-0AA0		1	1 unit	1CA	0.020
1st tripped signaling switch¹⁾²⁾ (S24) 1 CO contact - Spare part for option K07, for "-Z" + order code, see page 1/46.		3WL9111-0AH14-0AA0		1	1 unit	1CA	0.080
2nd tripped signaling switch¹⁾²⁾³⁾ (S25) 1 NO contact - Spare part for option K06, for "-Z" + order code, see page 1/46.		3WL9111-0AH17-0AA0		1	1 unit	1CA	0.080
Operating cycles counter - Mechanical⁴⁾ - Spare part for option C01, for "-Z" + order code, see page 1/46. NSE0_00995a 3WL9111-0AH07-0AA0		3WL9111-0AH07-0AA0		1	1 unit	1CA	0.100
Stored energy status signaling switches¹⁾²⁾ 1 NO contact - Spare part for option C20, for "-Z" + order code, see page 1/46.		3WL9111-0AH08-0AA0		1	1 unit	1CA	0.030
Position signaling switches for guide frames Spare part for options R15 and R16, for "-Z" + order code, see page 1/47. NSE0_00996a 3WL9111-0AH12-0AA0							
Versions 1. block (3 CO contacts) 2. block (6 CO contacts)		3WL9111-0AH11-0AA0 3WL9111-0AH12-0AA0		1 1	1 unit 1 unit	1CA 1CA	0.200 0.400
Electrical ON buttons¹⁾⁵⁾ (S10) - Button + wiring²⁾ - For operator panel - Spare part for options C11 and C12, for "-Z" + order code, see page 1/46. NSE0_00997a 3WL9111-0AJ0-0AA0							
Versions - With sealing cap C11 - With CES C12 assembly kit - With IKON assembly kit		3WL9111-0AJ02-0AA0 3WL9111-0AJ03-0AA0 3WL9111-0AJ05-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	0.150 0.140 0.140
Note Possible only for circuit breakers with closing coil.							
Motor shutdown switches⁶⁾ (S12) - Mounting on operator panel - Spare part for option S25, for "-Z" + order code, see page 1/46.		3WL9111-0AJ06-0AA0		1	1 unit	1CA	0.100
EMERGENCY-STOP pushbuttons - Mushroom pushbutton instead of the mechanical OFF pushbutton - Spare part for option S24, for "-Z" + order code, see page 1/46. NSE0_00985 3WL9111-0BA72-0AA0		3WL9111-0BA72-0AA0		1	1 unit	1CA	0.080

¹⁾ Not possible with communications interface option, order codes "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 1/51](#) and [page 1/63](#)).

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.

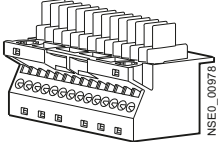
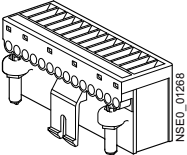
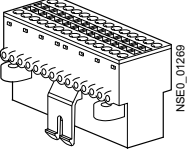
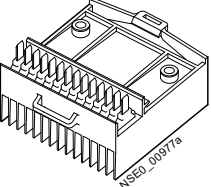
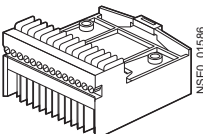
⁶⁾ Not possible with electrical ON button.

Air Circuit Breakers

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Accessories and spare parts

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Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary conductor connections							
 Male connectors for circuit breakers ① 3WL9111-0AB01-0AA0		3WL9111-0AB01-0AA0		1	1 unit	1CA	0.100
Extension for the 1000 V male connector versions Male connector must be ordered separately.		3WL9111-0AB02-0AA0		1	1 unit	1EA	0.150
Male connectors and extension for 1000 V		3WL9111-0AB10-0AA0		1	1 unit	1EA	1.000
Auxiliary supply connectors for circuit breakers or guide frames ②							
 3WL9111-0AB03-0AA0	Versions • Screw connection (SIGUT) • Screwless connection method (tension spring)	3WL9111-0AB03-0AA0		1	1 unit	1CA	0.070
 3WL9111-0AB04-0AA0		3WL9111-0AB04-0AA0		1	1 unit	1CA	0.070
  3WL9111-0AB07-0AA0	Coding kits For fixed-mounted versions (X5 to X8) ③	3WL9111-0AB07-0AA0		1	1 unit	1CA	0.020
 3WL9111-0AB08-0AA0	Sliding contact modules for guide frames ④	3WL9111-0AB08-0AA0		1	1 unit	1CA	0.100
 3WL9111-0AB18-0AA0	One-part sliding contact modules for guide frames Screw connection (SIGUT) ⑤	3WL9111-0AB18-0AA0		1	1 unit	1CA	0.120
Blanking blocks for circuit breakers		3WL9111-0AB12-0AA0		1	1 unit	1CA	0.030

For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

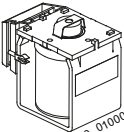
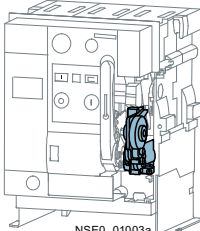
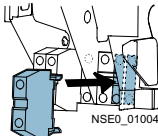
Withdrawable version: ① + ④ + ② or ① + ⑤

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Accessories and spare parts

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Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary releases							
 NSE0_01000 3WL9111-0AD06-0AA0	Closing coils/shunt releases						
	Versions	Voltage					
	100 % OP	24 V DC	3WL9111-0AD01-0AA0	1	1 unit	1CA	0.700
		30 V DC	3WL9111-0AD02-0AA0	1	1 unit	1CA	0.700
		48 V DC	3WL9111-0AD03-0AA0	1	1 unit	1CA	0.700
		60 V DC	3WL9111-0AD04-0AA0	1	1 unit	1CA	0.700
		110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AD05-0AA0	1	1 unit	1CA	0.700
		220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AD06-0AA0	1	1 unit	1CA	0.700
	5 % OP ¹⁾	24 V DC	3WL9111-0AD11-0AA0	1	1 unit	1CA	0.700
		48 V DC	3WL9111-0AD12-0AA0	1	1 unit	1CA	0.700
		110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AD13-0AA0	1	1 unit	1CA	0.700
		220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AD14-0AA0	1	1 unit	1CA	1.800
Undervoltage releases							
Versions	Voltage						
Instantaneous	24 V DC	3WL9111-0AE01-0AA0	1	1 unit	1CA	0.730	
	30 V DC	3WL9111-0AE02-0AA0	1	1 unit	1CA	0.730	
	48 V DC	3WL9111-0AE03-0AA0	1	1 unit	1CA	0.730	
	60 V DC	3WL9111-0AE07-0AA0	1	1 unit	1CA	0.730	
	110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AE04-0AA0	1	1 unit	1CA	0.730	
	220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AE05-0AA0	1	1 unit	1CA	0.730	
Delayed	380 ... 415 V AC	3WL9111-0AE06-0AA0	1	1 unit	1CA	0.730	
	48 V DC	3WL9111-0AE11-0AA0	1	1 unit	1CA	0.740	
	110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AE12-0AA0	1	1 unit	1CA	0.740	
	220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AE13-0AA0	1	1 unit	1CA	0.740	
380 ... 415 V AC	3WL9111-0AE14-0AA0	1	1 unit	1CA	0.740		
Operating mechanisms							
 NSE0_01003a 3WL9111-0AF0.-0AA0	Motorized operating mechanisms ²⁾						
	Versions						
	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	1	1 unit	1CA	1.510	
		3WL9111-0AF02-0AA0	1	1 unit	1CA	1.510	
		3WL9111-0AF03-0AA0	1	1 unit	1CA	1.510	
		3WL9111-0AF04-0AA0	1	1 unit	1CA	1.510	
Auxiliary contacts							
 NSE0_01004 3WL9111-0AG03-0AA0	Auxiliary switch blocks						
	Versions						
	2 NO contacts + 2 NC contacts 2 NO contacts 1 NO contact + 1 NC contact	3WL9111-0AG01-0AA0	1	1 unit	1CA	0.180	
		3WL9111-0AG02-0AA0	1	1 unit	1CA	0.080	
		3WL9111-0AG03-0AA0	1	1 unit	1CA	0.070	

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

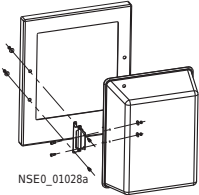
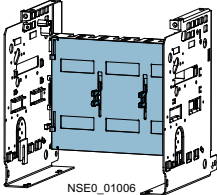
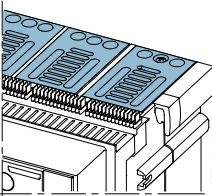
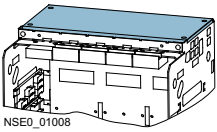
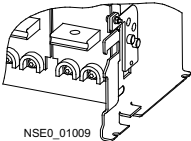
²⁾ X5 auxiliary supply connector required for circuit breakers or guide frames.
If this is not already available, please order additionally (see page 1/51 and page 1/54).

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

Accessories and spare parts

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	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Door sealing frames, hoods, shutters								
	Door sealing frames Spare part for option T40 , for "-Z" + order code, see page 1/46 .		3WL9111-0AP01-0AA0		1	1 unit	1CA	0.360
	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	1.600
3WL9111-0AP02-0AA0								
	Shutters Spare part for option R21 , for "-Z" + order code, see page 1/47 .							
	Number of poles	Size						
	3-pole	I	3WL9111-0AP04-0AA0		1	1 unit	1CA	0.500
		II ¹⁾	3WL9111-0AP06-0AA0		1	1 unit	1CA	0.630
		II C	3WL9111-0AP43-0AA0		1	1 unit	1CA	0.630
		III	3WL9111-0AP07-0AA0		1	1 unit	1CA	0.860
	4-pole	I	3WL9111-0AP08-0AA0		1	1 unit	1CA	0.600
		II ¹⁾	3WL9111-0AP11-0AA0		1	1 unit	1CA	0.770
		II C	3WL9111-0AP44-0AA0		1	1 unit	1CA	0.770
		III	3WL9111-0AP12-0AA0		1	1 unit	1CA	1.070
3WL9111-0AP0.-0AA0								
Arc chutes								
	Arc chutes	Size						
	Versions							
	690 V	I	3WL9111-0AS01-0AA0		1	1 unit	1CA	1.110
		II ¹⁾	3WL9111-0AS02-0AA0		1	1 unit	1CA	1.680
		II C	3WL9111-0AS10-0AA0		1	1 unit	1CA	3.520
		III	3WL9111-0AS03-0AA0		1	1 unit	1CA	2.980
	1000 V/1150 V	II	3WL9111-0AS05-0AA0		1	1 unit	1CA	3.140
		III	3WL9111-0AS06-0AA0		1	1 unit	1CA	5.620
3WL9111-0AS0.-0AA0								
	Arc chute covers²⁾ • Parts kit for guide frame • Spare part for option R10 , for "-Z" + order code, see page 1/47 .	Size						
	Number of poles							
	3-pole	I	3WL9111-0AS32-0AA0		1	1 unit	1CA	1.850
		II	3WL9111-0AS36-0AA0		1	1 unit	1CA	2.600
		III	3WL9111-0AS38-0AA0		1	1 unit	1CA	4.050
	4-pole	I	3WL9111-0AS42-0AA0		1	1 unit	1CA	2.340
		II	3WL9111-0AS44-0AA0		1	1 unit	1CA	3.300
		III	3WL9111-0AS46-0AA0		1	1 unit	1CA	5.210
3WL9111-0AS3.-0AA0								
Coding for withdrawable version								
	Coding for withdrawable version By customer, for 36 coding variants							
	Versions							
	• Sizes I and II • Size III		3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0		1 1	1 unit 1 unit	1CA 1CA	0.400 0.310
3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0								

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

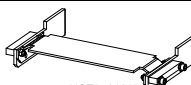
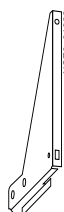
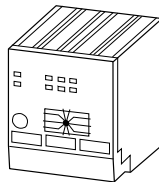
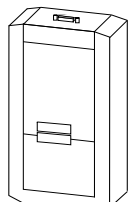
²⁾ Not available for
 - 1000 V version (order code "A05")
 - 1150 V version (order code "A15")
 - DC version
 - 4000 A size II
 - circuit breaker with very high breaking capacity C

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Accessories and spare parts

1

	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Grounding connection								
 NSE0_01018a 3WL9111-0BA02-0AA0	Grounding connection between the guide frame and the withdrawable circuit breaker - For 30 kA ground short-circuit current¹⁾ - Contacting modules for guide frame							
	Versions - Size I and II²⁾ - Size III		3WL9111-0BA01-0AA0 3WL9111-0BA02-0AA0		1 1	1 unit 1 unit	1CA 1CA	0.330 0.350
 NSE0_01019 3WL9111-0BA07-0AA0	Contacting modules for withdrawable circuit breakers							
	Number of poles	Size						
	3-pole	I	3WL9111-0BA05-0AA0		1	1 unit	1CA	1.250
		II ²⁾	3WL9111-0BA06-0AA0		1	1 unit	1CA	1.530
		III	3WL9111-0BA07-0AA0		1	1 unit	1CA	2.270
4-pole	I	3WL9111-0BA08-0AA0		1	1 unit	1CA	1.500	
	II ²⁾	3WL9111-0BA04-0AA0		1	1 unit	1CA	1.850	
	III	3WL9111-0BA10-0AA0		1	1 unit	1CA	2.950	
Support brackets								
 NSE0_01022 3WL9111-0BB50-0AA0	Support brackets - 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	7.000
	CubicleBUS modules ³⁾⁶⁾							
 NSE0_01023a 3WL9111-0AT23-0AA0	Digital output modules with rotary coding switch, relay outputs		3WL9111-0AT26-0AA0		1	1 unit	1CA	0.240
	Digital output modules, configurable, relay outputs		3WL9111-0AT20-0AA0		1	1 unit	1CA	0.310
	Digital input modules		3WL9111-0AT27-0AA0		1	1 unit	1CA	0.240
	Analog output modules		3WL9111-0AT23-0AA0		1	1 unit	1CA	0.240
	Zone Selective Interlocking modules		3WL9111-0AT21-0AA0		1	1 unit	1CA	0.240
Parameterization systems ⁶⁾								
 NSE0_01024a 3WL9111-0AT28-0AA0	BDA Plus⁴⁾⁵⁾ - Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using the local interface - Breaker Data Adapter, connection cable to the 3WL air circuit breaker and to the programming device (e.g. notebook) - Can be run with Internet Explorer with JAVA2 VM 1.4.0-01 and higher - With Ethernet interface for connection to Ethernet/Intranet/Internet		3WL9111-0AT33-0AA0		1	1 unit	1CA	1.200
	Connection cables for BDA Plus - Connection cable for connection of BDA Plus to terminal X8 of the 3WL air circuit breaker - Required if neither COM15 nor COM16 nor other external CubicleBUS modules are available - Length 2 m		3WL9111-0BC21-0AA0		1	1 unit	1CA	0.350
powerconfig parameterization software - 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 factory-fitted cable to connect the modules with each other. A longer factory-fitted cable is required for connection to the circuit breaker.

⁴⁾ A 24 V DC power supply unit is required.

⁵⁾ Operation under Windows Vista and Windows 7 possible with restrictions.

⁶⁾ All communication components, CubicleBUS modules and measurement functions are available for the ETU45B and ETU76B Electronic Trip Units.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

Accessories and spare parts

1

Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg
Accessories for communications³⁾							
Preassembled cables for CubicleBUS modules							
Versions							
• 0.5 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC04-0AA0		1	1 unit	1CA	0.020
• 1 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC02-0AA0		1	1 unit	1CA	0.050
• 2 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC03-0AA0		1	1 unit	1CA	0.060
• 2 m long, for connection to 3WL without COM15/COM16		3WL9111-0BC05-0AA0		1	1 unit	1CA	0.070
SENTRON manual for communication solutions							
- 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 measurement function <i>Plus</i>¹⁾ 380 ... 690 V/100 V, class 0.5							
		3WL9111-0BB68-0AA0		1	1 unit	1CA	2.600
Retrofitting and spare parts³⁾							
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	0.260
COM15 PROFIBUS module							
For ETU45B and ETU76B Electronic Trip Units							
		3WL9111-0AT15-0AA0		1	1 unit	1CA	0.140
COM16 MODBUS modules							
For ETU45B and ETU76B Electronic Trip Units							
		3WL9111-0AT17-0AA0		1	1 unit	1CA	0.140
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	1EA	0.260
Breaker status sensor (BSS)							
For ETU45B and ETU76B Electronic Trip Units							
		3WL9111-0AT16-0AA0		1	1 unit	1CA	0.120
Measurement function <i>Plus</i>²⁾							
- For ETUs Release 2 - Voltage transformer required							
		3WL9111-0AT04-0AA0		1	1 unit	1CA	0.250

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

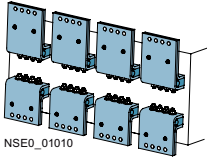
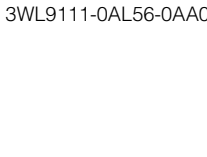
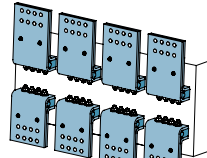
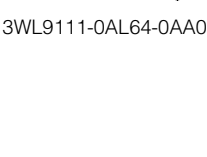
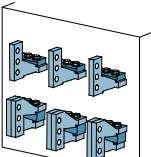
²⁾ A measuring accuracy of 3 % is reached if retrofitted.

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

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Accessories and spare parts

Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Main conductor connections, fixed-mounted versions (essential accessory)							
Specified for each connection							
 NSE0_01010	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	1.100 1.600
	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	2.000 3.600 3.500
	III	Up to 4000 A	3WL9111-0AL06-0AA0	1	1 unit	1CA	6.100
 NSE0_01010	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	1.000 1.300
	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	1.800 3.100 3.000
	III	Up to 4000 A	3WL9111-0AL56-0AA0	1	1 unit	1CA	5.200
 NSE0_01011	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	1.400 2.000
	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	2.400 4.500 4.400
	III	Up to 4000 A	3WL9111-0AL14-0AA0	1	1 unit	1CA	7.800
 NSE0_01011	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	1.300 1.700
	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	2.000 3.700 3.600
	III	Up to 4000 A	3WL9111-0AL64-0AA0	1	1 unit	1CA	6.400
 NSE0_01012	Rear vertical main connections						
	Size	Rated current I_n					
	I ²⁾	Up to 2000 A	3WL9111-0AM01-0AA0	1	1 unit	1CA	0.500
	II ³⁾	Up to 3200 A	3WL9111-0AM02-0AA0	1	1 unit	1CA	2.200
	III	Up to 6300 A	3WL9111-0AM03-0AA0	1	1 unit	1CA	5.000

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.

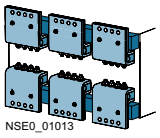
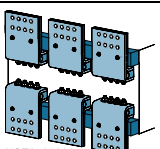
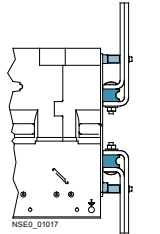
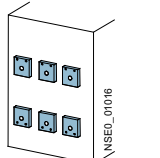
⁴⁾ Not for circuit breakers with very high breaking capacity C.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

Accessories and spare parts

1

Designation	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Main conductor connections, withdrawable versions (essential accessory)							
Specified for each connection							
 NSE0_01013 3WL9111-0AN06-0AA0	Front-accessible main connections, single hole at top or at bottom^{1) 2)}						
	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	1.000 1.300
	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	1.800 3.100 3.000
	III	Up to 4000 A	3WL9111-0AN06-0AA0	1	1 unit	1CA	5.200
 NSE0_01014 3WL9111-0AN14-0AA0	Front-accessible main connections according to DIN 43673, double hole at top or at bottom¹⁾						
	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	1.300 1.700
	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	2.000 3.700 3.600
	III	Up to 4000 A	3WL9111-0AN14-0AA0	1	1 unit	1CA	6.400
 NSE0_01017 3WL9111-0AN41-0AA0	Supports for front and DIN connecting bars						
	Number of poles	Size					
	3-pole for 3 bars	I	3WL9111-0AN41-0AA0	1	1 unit	1CA	0.700
		II	3WL9111-0AN42-0AA0	1	1 unit	1CA	1.350
		III	3WL9111-0AN43-0AA0	1	1 unit	1CA	2.420
	4-pole for 4 bars	I	3WL9111-0AN44-0AA0	1	1 unit	1CA	1.200
		II	3WL9111-0AN45-0AA0	1	1 unit	1CA	2.200
		III	3WL9111-0AN46-0AA0	1	1 unit	1CA	3.200
 NSE0_01011 3WL9111-0AN23-0AA0	Rear vertical main connections						
	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	0.660 0.870
	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	1.150 1.490 2.580 2.600
	III	Up to 5000 A Up to 6300 A, 3 busbar connection pieces for 3-pole circuit breakers Up to 6300 A, at top, 4 busbar connection pieces for 4-pole circuit breakers Up to 6300 A, at bottom, 4 busbar connection pieces for 4-pole circuit breakers	3WL9111-0AN22-0AA0 3WL9111-0AN23-0AA0 3WL9111-0AN20-0AA0 3WL9111-0AN10-0AA0	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA	6.380 19.170 18.410 18.300
	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	0.630 0.770
	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	1.020 1.240 2.170 2.150
	III	Up to 5000 A	3WL9111-0AN37-0AA0	1	1 unit	1CA	3.860
 NSE0_01016 3WL9111-0AN24-0AA0	Connecting flange						
	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	0.610 0.640
	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	0.980 1.020 1.310
	III	Up to 4000 A	3WL9111-0AN31-0AA0	1	1 unit	1CA	2.370

¹⁾ When using front-accessible mains 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.

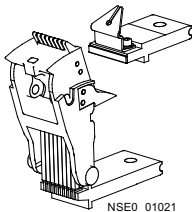
⁴⁾ Only for circuit breakers with very high breaking capacity C.

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Accessories and spare parts

1

Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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	5.100
	II	3WL9111-0BC12-0AA0		1	1 unit	1CA	5.900
	III	3WL9111-0BC13-0AA0		1	1 unit	1CA	8.100
4-pole	I	3WL9111-0BC14-0AA0		1	1 unit	1CA	6.400
	II	3WL9111-0BC15-0AA0		1	1 unit	1CA	6.450
	III	3WL9111-0BC16-0AA0		1	1 unit	1CA	10.700
Main contact elements							
 Main contact elements²⁾⁴⁾							
Size	I_n max						
I	Up to 1600 A	3WL9111-0AM90 L1Y ³⁾		1	1 unit	1CA	2.800
II	Up to 2500 A	3WL9111-0AM91 L1Y ³⁾		1	1 unit	1CA	5.870
II	Up to 4000 A	3WL9111-0AM92 L1Y ³⁾		1	1 unit	1CA	7.700
III	Up to 6300 A	3WL9111-0AM93 L1Y ³⁾		1	1 unit	1CA	13.740
Notes - 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.

Version	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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Withdrawable short-circuiting, grounding and bridging units**Withdrawable short-circuiting, grounding and bridging units**

Top and bottom system components are short-circuited and grounded.

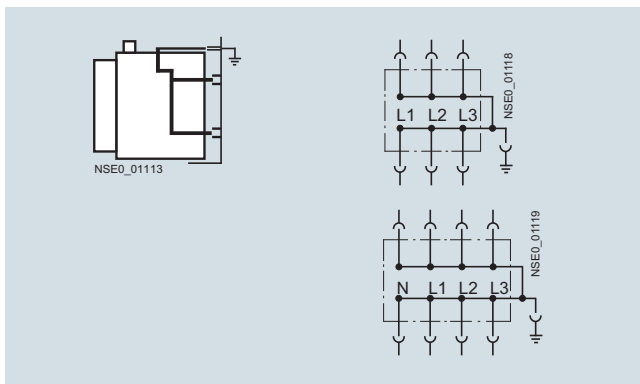
Number of poles	Rated current I_n	Size
3-pole	Up to 1600 A	I
	Up to 3200 A	II
	Up to 6300 A	III
4-pole	Up to 1600 A	I
	Up to 3200 A	II
	Up to 6300 A	III

3WL9111-0BD01-0AA0
3WL9111-0BD03-0AA0
3WL9111-0BD05-0AA0

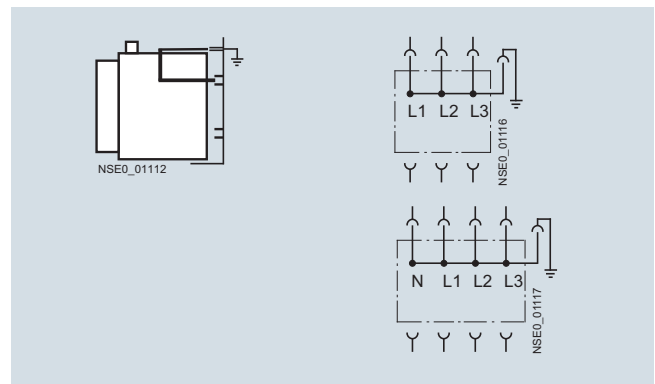
1	1 unit	1CA	30.000
1	1 unit	1CA	40.500
1	1 unit	1CA	65.000

3WL9111-0BD02-0AA0
3WL9111-0BD04-0AA0
3WL9111-0BD06-0AA0

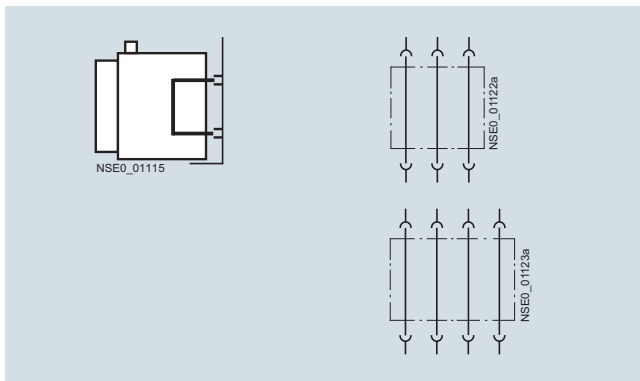
1	1 unit	1CA	35.000
1	1 unit	1CA	46.000
1	1 unit	1CA	70.000

Conversion for the following applications is possible

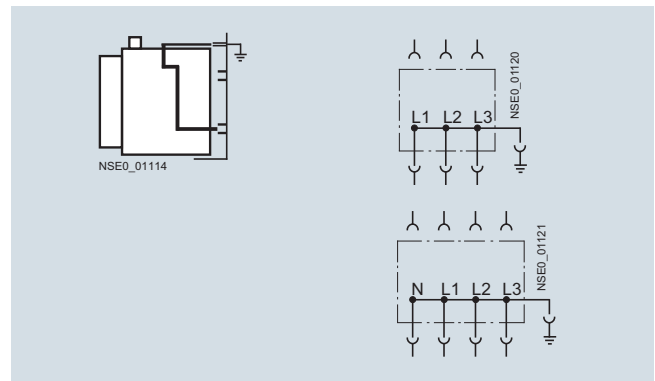
Top and bottom system components are short-circuited and grounded (as-supplied state)



Top system component is short-circuited and grounded, infed from bottom



Withdrawable bridging unit, infed and outgoing sides are permanently connected to each other



Bottom system component is short-circuited and grounded, infed from top

Air Circuit Breakers

3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Accessories and spare parts

1

Options

Structure of the Article No.

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

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) + communication module COM15 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 No. is sufficient.

Accessories: For retrofitting (components for subsequent fitting)

Example		
3WL9 111-0BA21-0AA0		
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 No. stem 3WL9.

Documentation

Operating manual Complete set	German/English	Article No.	3ZX18 12-0WL00-0AN2
	French/Italian	Article No.	3ZX18 12-0WL00-0AJ2
	Spanish/Portuguese	Article No.	3ZX18 12-0WL00-0AL2
PROFIBUS manual Communication	German	Article No.	A5E0151347
	English	Article No.	A5E0151353
MODBUS manual Communication	German	Article No.	3ZX1012-0WL10-1AB1
	English	Article No.	3ZX1012-0WL10-1AC1

Delivery time class C
On request
On request

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

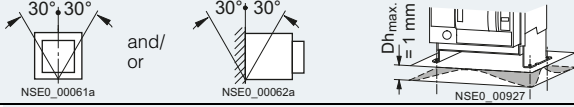
3WL1 Non-Automatic Air Circuit Breakers

up to 4000 A (DC), IEC

General data

1

Technical specifications

Size		I		II	
Type		3WL1120		3WL1210	
Rated current I_n at 40 °C		3WL1220		3WL1240	
Main conductor	A	2000	...	1000	2000
Rated operational voltage U_e (1000 V version, order code "A05")	V DC	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					
Up to 40 °C	A	2000	1000	2000	4000
At rear horizontal main connections	A	1910	1000	2000	3640
Up to 60 °C	A	1850	1000	2000	3500
(Cu painted black)	A	1710	1000	1950	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
Endurance ³⁾					
• 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)					
Max. number	Standard connection = strain-relief clamp				
Auxiliary conductors x cross-section (solid/stranded)	- 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				
	- 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)			
Weights					
3-pole	- Fixed-mounted circuit breakers - Withdrawable circuit breakers - Guide frames	kg	43	56	56
		kg	--	60	60
		kg	--	31	31
4-pole	- Fixed-mounted circuit breakers - Withdrawable circuit breakers - Guide frames	kg	50	67	67
		kg	--	72	72
		kg	--	37	37

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.

Air Circuit Breakers

3WL1 Non-Automatic Air Circuit Breakers
up to 4000 A (DC), IEC

General data

Breaking capacity

Size	I	II
	DC	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". Free download from:
www.siemens.com/lowvoltage/manuals

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

* Designations according to IEC 60947-2, Appendix K.

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.

Air Circuit Breakers

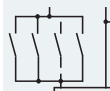
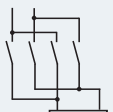
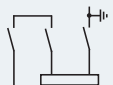
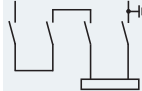
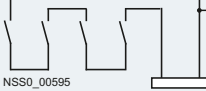
3WL1 Non-Automatic Air Circuit Breakers

up to 4000 A (DC), IEC

General data

1

Application examples

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

Air Circuit Breakers

3WL1 Non-Automatic Air Circuit Breakers
up to 4000 A (DC), IEC

3- and 4-pole, fixed-mounted versions

Selection and ordering data

For general data, see page 1/8.

Size	Max. rated circuit breaker current <i>I</i> _{n max}	DT	3-pole non-automatic air circuit breakers		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A			Article No.: www.siemens.com/ product?Article No.	Price per PU				kg
Horizontal main circuit connection								
II	1000 2000 4000 ¹⁾		3WL1210-8□□32-□□□□ 3WL1220-8□□32-□□□□ 3WL1240-8□□32-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	56.000 56.000 64.000
Vertical main circuit connection								
II	1000 2000 4000 ¹⁾		3WL1210-8□□31-□□□□ 3WL1220-8□□31-□□□□ 3WL1240-8□□31-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	56.000 56.000 85.000
Front main circuit connection, single hole								
II	1000 2000		3WL1210-8□□33-□□□□ 3WL1220-8□□33-□□□□		1 1	1 unit 1 unit	1CA 1CA	56.000 56.000
Front main circuit connection, double hole								
II	1000 2000		3WL1210-8□□34-□□□□ 3WL1220-8□□34-□□□□		1 1	1 unit 1 unit	1CA 1CA	56.000 56.000
Options				Add. price				
Non-automatic air circuit breakers ²⁾	Without Electronic Trip Units		AA		None			
Operating mechanisms	Manual operating mechanism with mechanical closing		1AA2		None			
	For further Article No. supplements, see page 1/44							

Size	Max. rated circuit breaker current <i>I</i> _{n max}	DT	4-pole non-automatic air circuit breakers		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A			Article No.: www.siemens.com/ product?Article No.	Price per PU				kg
Horizontal main circuit connection								
³⁾	2000		3WL1120-8□□42-□□□□		1	1 unit	1CA	50.000
II	1000 2000 4000 ¹⁾		3WL1210-8□□42-□□□□ 3WL1220-8□□42-□□□□ 3WL1240-8□□42-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	67.000 67.000 77.000
Vertical main circuit connection								
³⁾	2000		3WL1120-8□□41-□□□□		1	1 unit	1CA	50.000
II	1000 2000 4000 ¹⁾		3WL1210-8□□41-□□□□ 3WL1220-8□□41-□□□□ 3WL1240-8□□41-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	75.000 75.000 103.000
Front main circuit connection, single hole								
II	1000 2000		3WL1210-8□□43-□□□□ 3WL1220-8□□43-□□□□		1 1	1 unit 1 unit	1CA 1CA	67.000 67.000
Front main circuit connection, double hole								
II	1000 2000		3WL1210-8□□44-□□□□ 3WL1220-8□□44-□□□□		1 1	1 unit 1 unit	1CA 1CA	67.000 67.000
Options				Add. price				
Non-automatic air circuit breakers ²⁾	Without Electronic Trip Units		AA		None			
Operating mechanisms	Manual operating mechanism with mechanical closing		1AA2		None			
	For further Article No. supplements see page 1/44							

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>I</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 corresponding order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/45. 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 1/78).

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

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

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

✓ Additional price

Air Circuit Breakers

3WL1 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	DT	3-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
	A		Article No. www.siemens.com/ product?Article No.	Price per PU				kg
Without guide frames (for guide frames, see page 1/79)								
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	60.000 60.000 68.000
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	91.000 91.000 113.000
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	91.000 91.000 121.000
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	91.000 91.000 113.000
Options								
Non-automatic air circuit breakers²⁾		Without Electronic Trip Units	AA		Add. price			
Operating mechanisms		Manual operating mechanism with mechanical closing		1AA2	None			
		For further Article No. supplements, see page 1/44						

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 corresponding order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/45.

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 1/78).

✓ Additional price

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

Air Circuit Breakers

3WL1 Non-Automatic Air Circuit Breakers
up to 4000 A (DC), IEC

3- and 4-pole, withdrawable versions

Selection and ordering data

Size	Max. rated circuit breaker current I_n max	DT	4-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
	A		Article No. www.siemens.com/product?Article No.	Price per PU				kg

Without guide frames (for guide frames, see page 1/79)

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	75.000 75.000 82.000
----	------------------------------------	--	--	--	-------------	----------------------------	-------------------	----------------------------

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	109.000 109.000 136.000
----	------------------------------------	--	--	--	-------------	----------------------------	-------------------	-------------------------------

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	109.000 109.000 146.000
----	------------------------------------	--	--	--	-------------	----------------------------	-------------------	-------------------------------

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	109.000 109.000 136.000
----	------------------------------------	--	--	--	-------------	----------------------------	-------------------	-------------------------------

Options

Options		AA	1AA2	Add. price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units			None
Operating mechanisms	Manual operating mechanism with mechanical closing			None
	For further Article No. supplements, see page 1/44			

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 corresponding order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/45.

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Available only directly from the company "mat" – Maschinen- und Anlagentechnik⁵⁾.

✓ Additional price

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

⁵⁾ mat – Maschinen- und Anlagentechnik

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Air Circuit Breakers

3WL1 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 $I_{n \max}$	DT	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*/ P. unit	PG	Weight per PU approx. kg
A								
Front main circuit connection, single hole								
II	2000		3WL9212-3DA□□-□□A1		1	1 unit	1CA	31.000
Front main circuit connection, double hole								
II	2000		3WL9212-3DB□□-□□A1		1	1 unit	1CA	31.000
Horizontal main circuit connection								
II	2000		3WL9212-3DC□□-□□A1		1	1 unit	1CA	31.000
	4000		3WL9212-6DC□□-□□A1		1	1 unit	1CA	60.000
Vertical main circuit connection								
II	2000		3WL9212-3DD□□-□□A1		1	1 unit	1CA	31.000
	4000		3WL9212-6DD□□-□□A1		1	1 unit	1CA	60.000
Main circuit connection connecting flanges								
II	2000		3WL9212-3DE□□-□□A1		1	1 unit	1CA	31.000
	4000		3WL9212-6DE□□-□□A1		1	1 unit	1CA	60.000
Options								
Number of auxiliary supply connectors								Add. price 3-pole
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 1/51.								
Type of auxiliary circuit connections								
None			0					None
With screw connection (SI-GUT, 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		
- 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 corresponding order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", page 1/45 onwards.		

✓ Additional price

¹⁾ 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

3WL1 Non-Automatic Air Circuit Breakers
up to 4000 A (DC), IEC

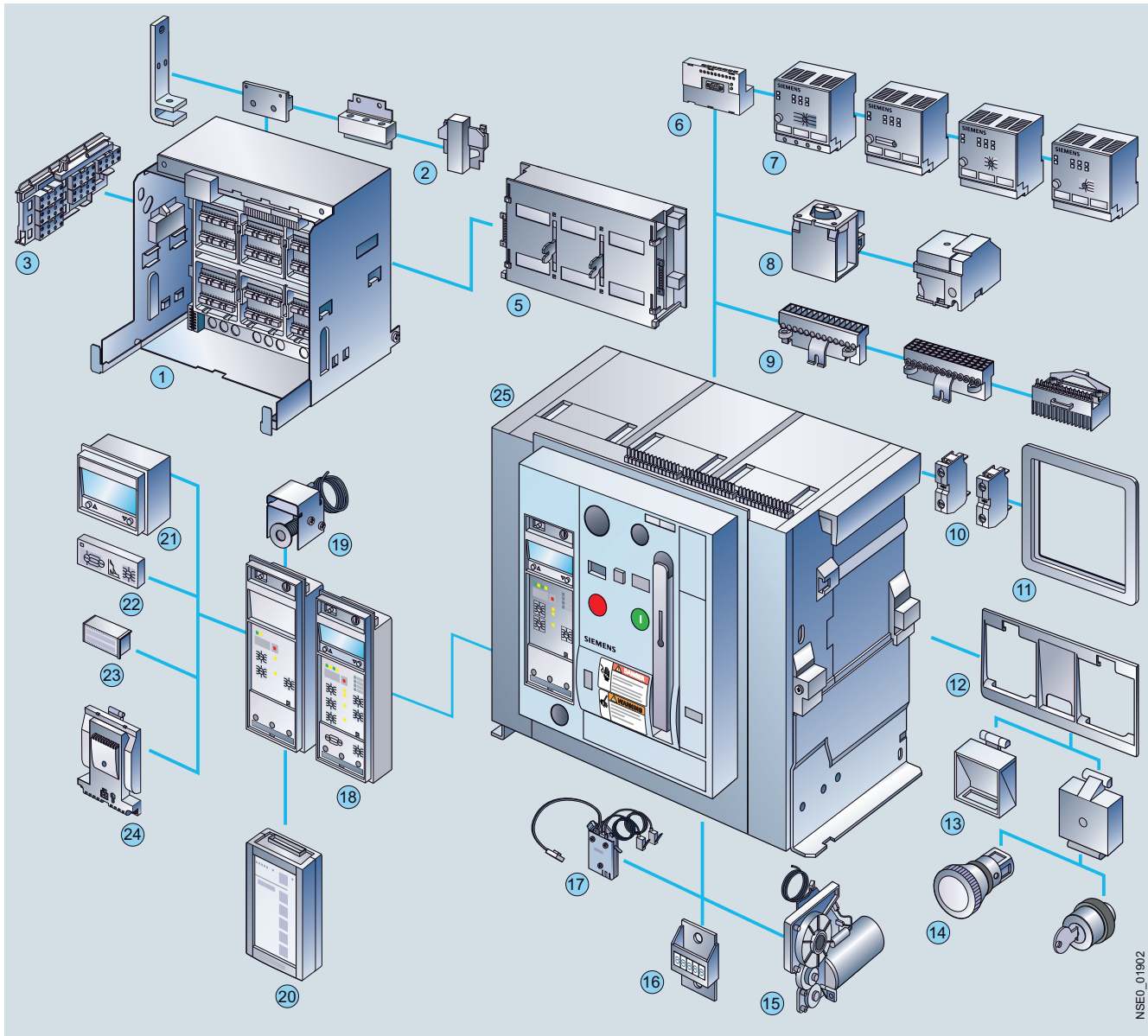
Accessories and spare parts

Size	Max. rated circuit breaker current $I_{n \max}$	DT	Guide frames for 4-pole non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A		Article No. www.siemens.com/ product?Article No.	Price per PU			kg
Front main circuit connection, single hole							
II	2000		3WL9212-3EA□□-□□A1	1	1 unit	1CA	37.000
Front main circuit connection, double hole							
II	2000		3WL9212-3EB□□-□□A1	1	1 unit	1CA	37.000
Horizontal main circuit connection							
II	2000		3WL9212-3EC□□-□□A1	1	1 unit	1CA	37.000
II	4000		3WL9212-6EC□□-□□A1	1	1 unit	1CA	84.000
Vertical main circuit connection							
II	2000		3WL9212-3ED□□-□□A1	1	1 unit	1CA	37.000
II	4000		3WL9212-6ED□□-□□A1	1	1 unit	1CA	84.000
Main circuit connection connecting flanges							
II	2000		3WL9212-3EE□□-□□A1	1	1 unit	1CA	37.000
II	4000		3WL9212-6EE□□-□□A1	1	1 unit	1CA	84.000
Options							
Number of auxiliary supply connectors				0		None	None
None				1			
1 connector				2		✓	
2 connectors				3		✓	
3 connectors				4		✓	
4 connectors							
Note							
For table for required number of auxiliary supply connectors, see page 1/51.							
Type of auxiliary circuit connections				0		None	None
None				1		✓	
With screw connection (SI-GUT, standard)				2		✓	
With screwless connection method (tension spring)							
Position signaling switches				0		None	None
None				1		✓	
Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO				2		✓	
Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO							
Shutters				A		None	None
None				B		✓	
With shutter, 2-part, lockable							
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).				3WL9212-.....A1-Z		Additional price	
				□ □ □			
Rated voltage 1000 V DC				A 0 5			
Size II						✓	
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							
- 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 corresponding order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", page 1/45 onwards.							

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

Overview

3WL5:
Superior individual products integrated into uniform power distribution systems – up to and including industry-specific industrial and infrastructure solutions



- ① Guide frame, [see page 1/102](#)
- ② Main circuit connection front, flange, horizontal, vertical
[see page 1/98 and page 1/114](#)
- ③ Position signaling switch, [see page 1/97 and page 1/108](#)
- ⑤ Shutters, [see page 1/97](#)
- ⑥ COM15 PROFIBUS module or COM16 MODBUS module, [see page 1/113](#)
- ⑦ External **CubicleBUS** modules, [see page 1/112](#)
- ⑧ Closing coil, auxiliary release, [see page 1/95](#)
- ⑨ Auxiliary conductor plug-in system, [see page 1/98](#)
- ⑩ Auxiliary switch block, [see page 1/95](#)
- ⑪ Door sealing frame, [see page 1/96](#)
- ⑫ Interlocking set for mechanical ON/OFF, [see page 1/105](#)
- ⑬ Transparent panel, function insert, [see page 1/105](#)
- ⑭ EMERGENCY-STOP pushbutton, key operated, [see page 1/108](#)
- ⑮ Motorized operating mechanism, [see page 1/97](#)
- ⑯ Operating cycles counter, [see page 1/96](#)
- ⑰ Breaker Status Sensor (BSS), [see page 1/98](#)
- ⑱ Protective devices with device holder, Electronic Trip Unit (ETU)
[see page 1/104](#)
- ⑲ Remote reset solenoid, [see page 1/96](#)
- ⑳ Breaker Data Adapter (BDA Plus), [see page 1/112](#)
- ㉑ Four-line display, [see page 1/104](#)
- ㉒ Ground-fault protection module, [see page 1/104](#)
- ㉓ Rating plug, [see page 1/96](#)
- ㉔ Metering function module, [see page 1/98](#)
- ㉕ Air circuit breaker, [see page 1/89 to page 1/94](#)

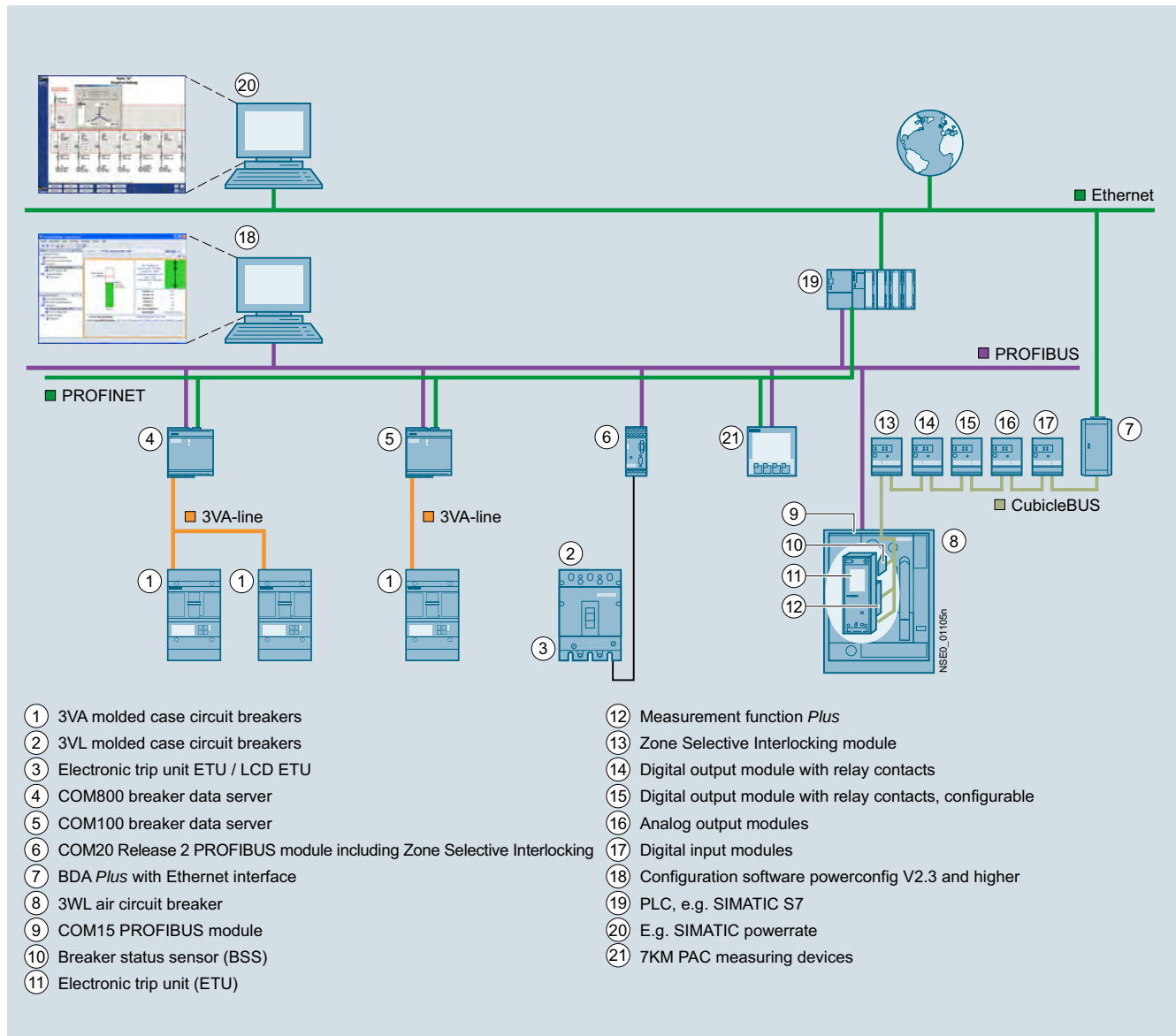
Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

1

Introduction

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



Characteristics

- Coordinated communication concept using the PROFIBUS DP or MODBUS, ranging from 16 A to 5000 A with 3VL molded case circuit breakers and 3WL5 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 switchgear due to the possibility of linking up external input and output modules to the circuit breaker-internal **CubicleBUS** of the 3WL5 air circuit breaker
- Innovative software products for parameterization, operation, monitoring, and diagnostics of circuit breakers, both locally or via PROFIBUS DP, MODBUS or 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 Electronic Trip Units) [see page 1/104](#).
- For accessories, [see page 1/101 to page 1/116](#).
- For more information, [See chapter "Measuring Devices and Power Monitoring"](#).

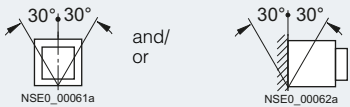
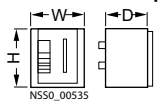
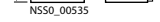
Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

1

Technical specifications

Size		I		II
Type		3WL5110	3WL5116	3WL5120
Number of poles		3-pole, 4-pole		
Rated current I_n at 50/60 Hz Main conductor	At 40 °C	A	Up to 1000	1600
	At 55 °C	A	1000	1600
	At 60 °C	A	1000	1600
				2000
Rated voltage U_e at 50/60 Hz		V AC	600 Y/347	600
Rated ultimate short-circuit breaking capacity at 500 V AC		kA	65 (480 V)	100 (480 V)
Ambient temperature of the system		°C	-25/+40	-25/+40
Power loss at rated current				
With 3-phase symmetrical load				
• Fixed-mounted circuit breakers		W	100	180
• Withdrawable circuit breakers		W	195	320
Switching times				
• Make time		ms	35	35
• Opening time		ms	38	34
• Electrical make time (through activation solenoid) ¹⁾		ms	80	100
• Electrical opening time (through shunt release)		ms	73	73
• Electrical opening time (instantaneous undervoltage release)		ms	73	73
• Opening time due to ETU, instantaneous short-circuit release		ms	50	50
Endurance				
• Mechanical (without maintenance)		Operating cycles	10000	10000
• Electrical (without maintenance)		Operating cycles	4000	4000
Switching frequency		1/h	60	60
Minimum interval		ms	80	80
between tripping operation by electronic trip unit and next making operation of the circuit breaker (only with autom. mechanical resetting of the lockout device)				
Minimum dimension of circuit breaker compartment				
Width × Height × Depth	3-pole	mm	400 × 460 × 380	500 × 460 × 380
	4-pole	mm	500 × 460 × 380	600 × 460 × 380
Degree of protection				
• With cover			IP55	
• Without cover			IP41	
(with door sealing frame)				
Mounting position				
				
Main conductor minimum cross-sections		Unit(s)	2	2
		mm ²	6.4 × 76.2	6.4 × 102
		inches	1/4 × 3	1/4 × 4
Auxiliary conductors (Cu)				
Max. number				
Auxiliary conductors × cross-section (solid/stranded)				
Standard connection = strain-relief clamp				
• Without end sleeve			2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14)	
• With end sleeve acc. to DIN 46228 Part 2 ²⁾			1 × 0.5 mm ² (AWG 20) to 1 × 1.5 mm ² (AWG 16)	
• With twin end sleeve			2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16)	
Optional connection = tension spring				
• Without end sleeve			2 × 0.5 mm ² (AWG 20) to 2 × 2.5 mm ² (AWG 14)	
• With end sleeve acc. to DIN 46228 Part 2			2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16)	
Weights				
3-pole	• Fixed-mounted circuit breakers	kg	43	56
	• Withdrawable circuit breakers	kg	45	60
	• Guide frames	kg	25	31
4-pole	• Fixed-mounted circuit breakers	kg	50	67
	• Withdrawable circuit breakers	kg	54	72
	• Guide frames	kg	30	37
Dimensions 3-/4-pole				
	Fixed-mounted	W mm	320/410	460/590
		H mm	434	434
		D mm	291	291
	Withdrawable	H mm	465.5	465.5
		D mm	471	471

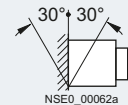
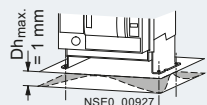
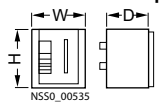
¹⁾ Make-time through activation solenoid for synchronization purposes (short-time excited): 50 ms.

²⁾ Notice: Approval of end sleeves.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

Size			II			III		
Type			3WL5225	3WL5230	3WL5232	3WL5340	3WL5350	
Number of poles			3-pole, 4-pole					
Rated current I_n at 50/60 Hz								
Main conductor	At 40 °C	A	2500	3000	3200	4000	5000	
	At 55 °C	A	2500	3000	3200	4000	5000	
	At 60 °C	A	2500	3000	3200	4000	5000	
Rated voltage U_e at 50/60 Hz	V AC		600	600	600	Up to 600 Y/347	Up to 600 Y/347	
Rated limit short-circuit breaking capacity at 500 V AC	kA		100 (480 V)			100 (480 V)		
Ambient temperature of the system	°C		–25/+40	–25/+40	–25/+40	–25/+40	–25/+40	
Power loss at rated current								
With 3-phase symmetrical load								
• Fixed-mounted circuit breakers	W		270	410	410	520	630	
• Withdrawable circuit breakers	W		520	710	710	810	1050	
Switching times								
• Make time	ms		35	35	35	35	35	
• Opening time	ms		34	34	34	34	34	
• Electrical make time (through activation solenoid) ¹⁾	ms		100	100	100	100	100	
• Electrical opening time (through shunt release)	ms		73	73	73	73	73	
• Electrical opening time (instantaneous undervoltage release)	ms		73	73	73	73	73	
• Opening time due to ETU, instantaneous short-circuit release	ms		50	50	50	50	50	
Endurance								
• Mechanical (without maintenance)	Operating cycles		10000	10000	10000	10000	10000	
• Electrical (without maintenance)	Operating cycles		4000	4000	4000	1000	1000	
Switching frequency	1/h		60	60	60	60	60	
Minimum interval	ms		80	80	80	80	80	
between tripping operation by electronic trip unit and next making operation of the circuit breaker (only with autom. mechanical resetting of the lockout device)								
Minimum dimension								
Circuit breaker compartment	3-pole without A17	mm	500 × 460 × 380	500 × 460 × 380	500 × 460 × 380	800 × 460 × 380	800 × 460 × 380	
Width × Height × Depth	3-pole with A17	mm	560 × 570 × 500	--	560 × 570 × 500	810 × 570 × 500	--	
	4-pole	mm	600 × 460 × 380	--	560 × 570 × 500	1000 × 460 × 380	1000 × 460 × 380	
Degree of protection								
• With cover			IP55					
• Without cover (with door sealing frame)			IP41					
Mounting position								
				and/ or				
			NSE0_00061a		NSE0_00062a	NSE0_00927 I		
Main conductor minimum cross-sections	Unit(s)		2 mm ² inches	4 6.4 × 127 1/4 × 5	4 6.4 × 102 1/4 × 4	4 6.4 × 102 1/4 × 4	4 10 × 120 1/4 × 5 ²⁾	
Auxiliary conductors (Cu)	Standard connection = strain-relief clamp							
Max. number of auxiliary conductors × cross-section (solid/stranded)	• Without end sleeve		2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14)					
	• With end sleeve acc. to DIN 46228 Part 2		1 × 0.5 mm ² (AWG 20) to 1 × 1.5 mm ² (AWG 16)					
	• With twin end sleeve		2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16)					
	Optional connection = tension spring							
	• Without end sleeve		2 × 0.5 mm ² (AWG 20) to 2 × 2.5 mm ² (AWG 14)					
	• With end sleeve acc. to DIN 46228 Part 2		2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16)					
Weights								
3-pole	• Fixed-mounted circuit breakers	kg	59	64	64	82	82	
	• Withdrawable circuit breakers	kg	63	68	--	88	88	
	• Guide frames	kg	39	45	--	60	60	
4-pole	• Fixed-mounted circuit breakers	kg	71	77	77	99	99	
	• Withdrawable circuit breakers	kg	76	82	--	106	106	
	• Guide frames	kg	47	54	--	84	84	
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⁾ Make-time through activation solenoid for synchronization purposes (short-time excited) 50 ms.

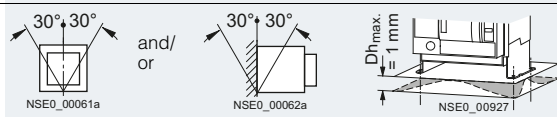
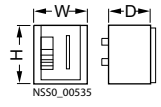
²⁾ 1/4 × 5 for fixed-mounted circuit breakers on request.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

1

Size			I	II
Type			3WL5120-8AA...	3WL5232-8AA...
No. of poles			4-pole	3-pole
Rated current I_n at DC according to IEC 60947-2 Main conductor	At 40 °C	A	2000	3200
	At 55 °C	A	2000	3200
	At 60 °C	A	2000	3200
Rated current I_n at DC according to UL 489B Main conductor	At 40 °C	A	1600	3200
	At 55 °C	A	1600	3200
	At 60 °C	A	1600	3200
Rated voltage U_e at 50/60 Hz	V AC		1000	690
Ambient temperature of the system	°C		–25/+40	–25/+40
Power loss at rated current				
With 3-phase symmetrical load				
• Fixed-mounted circuit breakers	W	100	410	
• Withdrawable circuit breakers	W	–	–	
Switching times				
• Make time	ms	35	35	
• Opening time	ms	38	34	
• Electrical make time (through activation solenoid) ¹⁾	ms	80	100	
• Electrical opening time (through shunt release)	ms	73	73	
• Electrical opening time (instantaneous undervoltage release)	ms	73	73	
• Opening time due to ETU, instantaneous short-circuit release	ms	50	50	
Endurance				
• Mechanical (without maintenance)	Operating cycles	10000	10000	
• Electrical (without maintenance)	Operating cycles	1000	1000	
Switching frequency	1/h	60	60	
Minimum interval between tripping operation by electronic trip unit and next making operation of the circuit breaker (only with autom. mechanical resetting of the lockout device)	ms	80	80	
Minimum dimension				
Circuit breaker compartment				
Width × Height × Depth	mm	560 × 570 × 500	560 × 570 × 500	
Degree of protection				
• With cover			IP55	
• Without cover (with door sealing frame)			IP41	
Mounting position				
Main conductor minimum cross-sections			Unit(s) mm ² inches	2 6.4 × 76.2 1/4 × 3
Auxiliary conductors (Cu) Max. number of auxiliary conductors × cross-section (solid/stranded)			Standard connection = strain-relief clamp • Without end sleeve • With end sleeve acc. to DIN 46228 Part 2 • With twin end sleeve Optional connection = tension spring • Without end sleeve • With end sleeve acc. to DIN 46228 Part 2	
			2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14) 1 × 0.5 mm ² (AWG 20) to 1 × 1.5 mm ² (AWG 16) 2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16) 2 × 0.5 mm ² (AWG 20) to 2 × 2.5 mm ² (AWG 14) 2 × 0.5 mm ² (AWG 20) to 2 × 1.5 mm ² (AWG 16)	
Weights				
3-pole	• Fixed-mounted circuit breakers	kg	50	64
Dimensions 3-/4-pole				
	Fixed-mounted	W mm	320/410	460/590
		H mm	434	434
		D mm	291	291
	Withdrawable	H mm	465.5	465.5
		D mm	471	471

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

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

Size		I	II	III
Type		3WL51	3WL52	3WL53
Breaking capacity class		S	H	H
				
Short-circuit breaking capacity $I_{cu} = I_{cs}$ according to UL 489				
Up to 480 V AC	kA	65	100	100
Up to 600 V Δ /347 V AC	kA	50	85 ¹⁾	85
Up to 600 V AC	kA	--	85	--
Rated short-time withstand current according to UL 489				
At max. delay time $t_{sd} = 0.4$ s	kA	65	85	85
Short-circuit breaking capacity $I_{cu} = I_{cs}$ according to IEC 60947-2				
Up to 500 V AC	kA	65	100	100
I_{cm} at 500 V AC	kA	143	220	220
Up to 690 V AC	kA	50	85	85
I_{cm} at 690 V AC	kA	105	187	187
Rated short-time withstand current I_{cw} according to IEC 60947-2				
0.5 s	kA	65	85	85
1 s	kA	50	80	80

¹⁾ 600 V AC (delta) covered by test.

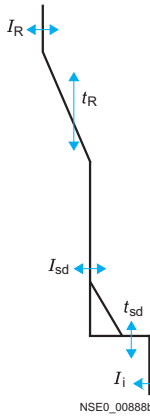
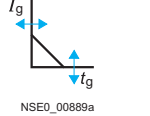
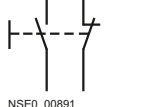
	Circuit breakers with standard breaking capacity S ($I_{cu} = I_{cs}$ up to 65 kA at 480 V)
	Circuit breakers with high breaking capacity H ($I_{cu} = I_{cs}$ up to 100 kA at 480 V)
	These circuit breakers are shown in the technical specifications on orange backgrounds.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

1

Protection functions Parameterization by		ETU25B D	ETU45B D & S	
Function overview of the electronic trip system				
	L	Overload protection	✓	
		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	
		Switchable overload protection (I^2t - or I^4t -dependent function)	--	
		Setting range for time-lag class t_R at I^2t	10 s fixed	
		Setting range for time-lag class t_R at I^4t	--	
		Thermal image can be switched on/off	--	
		Phase failure sensitivity	At $t_{sd} = 20$ ms (M)	
	N	N-conductor protection	--	
		Function can be switched on/off	--	
		N conductor setting range $I_N = I_n \times \dots$	--	
S	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		
	Setting range for delay time t_{sd}	0-M-100-200-300-400 ms		
	Switchable short-time delayed short-circuit protection (I^2t -dependent function)	--		
	Setting range for delay time t_{sd} at I^2t	--		
	ZSI function	--		
I	Instantaneous short-circuit protection	✓		
	Function can be switched on/off	--		
	Setting range $I_i = I_n \times \dots$	Fixed for $I_i \geq 20 \times I_n$, max. 50 kA		
	G	Ground-fault protection	--	
		Tripping and alarm functions	--	
		Tripping function can be switched on/off	--	
		Recording of the ground-fault current via summation current formation with internal or external N-conductor transformer	--	
		Recording of the ground-fault current via external 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 protection characteristic curve (I^2t -dependent function)	--	
		Setting range for delay time t_g at I^2t	--	
ZSI-G function	--			
LCD		Alphanumeric LCD (4-line)	--	
Communication		CubicleBUS integrated	--	
		Communications capability via PROFIBUS DP	--	
		Communications capability via MODBUS	--	
Measuring function		Measurement 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 protection function		--	
	Communication		--	
	Signals from signaling switches with external CubicleBUS module (relay)		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)	
	Ground-fault alarm		✓ (Only with ground-fault protection module)	
			Auxiliary relay	✓
		ETU fault	✓	

Delay time figures given in ms.

M = Motor protection, corresponds to 20 ms.

D = Rotary coding switch

D & S = Rotary coding and slide switch

✓ Available.

-- Not available.

□ Optional.

Setting range of the operating current I_g

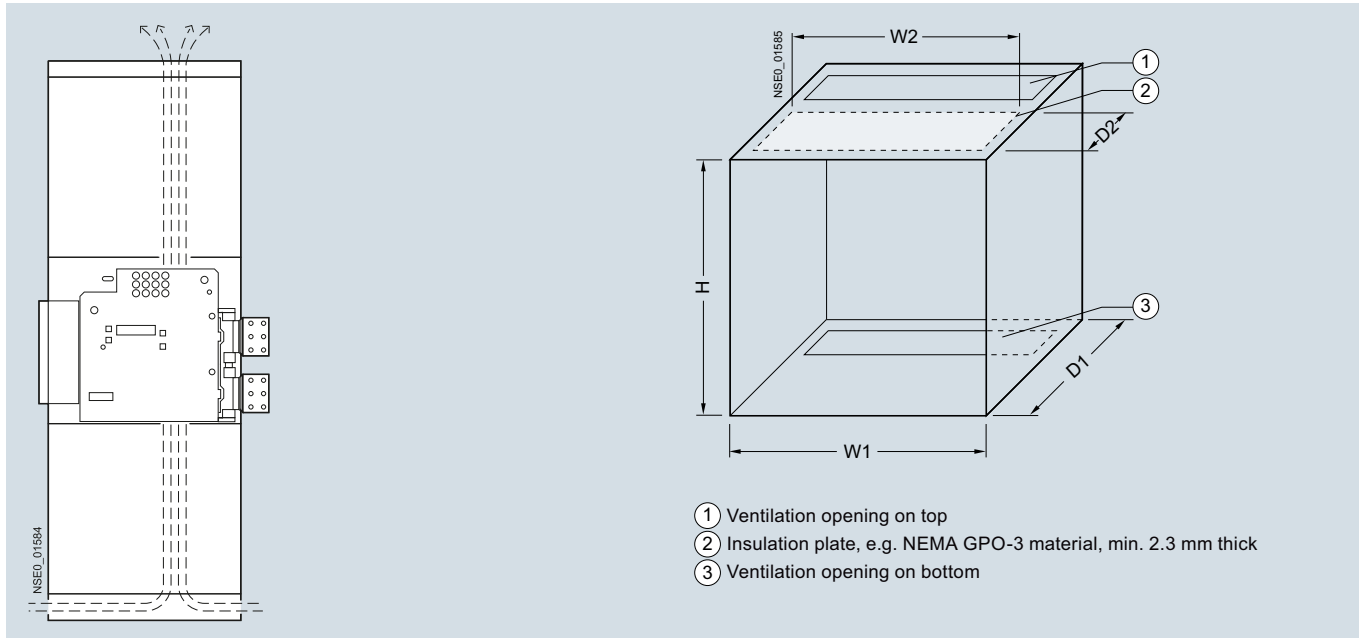
	Size I and size II	Size III
A	100 A	400 A
B	300 A	600 A
C	600 A	800 A
D	900 A	1000 A
E	1200 A	1200 A

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

Installation conditions for UL circuit breakers



Size	I_n max A	Minimum dimensions of the installation space			Dimensions of the insulation plate		Ventilation
		Width W1 3/4-pole	Height H	Depth D1	Width W2 3/4-pole	Depth D2	
I	800, 1000	400/500	460 ¹⁾	380	350/450	300	Not required
I	1250, 1600	400/500	460 ¹⁾	380	350/450	300	
II	800, 1600, 2000	500/600	460 ¹⁾	380	450/550	300	Not required
II	2000	500/600	460 ¹⁾	380	450/550	300	
II	3000/3200	500/600	460 ¹⁾	380	450/550	300	
III	4000	800/1000	460 ¹⁾	380	750/900	300	Not required
III	5000	800/1000	460 ¹⁾	380	750/900	300	

¹⁾ Height of installation compartment applies in case of roof insulation or for guide frame with arcing space cover.

UL certificate

3WL5 circuit breakers are not listed by Underwriters Laboratories (UL) under the Article No. but as individual components with their corresponding article numbers.

The UL designation of the basic circuit breaker (without electronic trip unit, auxiliary release, auxiliary switch, ...) is visible on the operator panel.

Designation of basic circuit breaker:

3WL5106-3 F 3 2

① ② ③ ④

Digit	Meaning		
①	Article No.	1st to 8th digit	
②	Version	F: Fixed-mounted	D: Withdrawable versions
③	Number of poles		
④	12th digit	1, 2, 3, 4: Fixed-mounted connection types	5, 6, 7, 8: Withdrawable version connection types

The file numbers are:

E231263 for circuit breakers
E236088 for accessories
E236299 for guide frames

The file number can be called up at the following Internet site:

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/gfilenbr.html>

Benefits**Low space requirements**

The 3WL5 air circuit breakers require very little space. Size I devices (up to 1600 A) fit into a 400 mm wide switchboard panel. Size III devices (up to 5000 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.

Retrofittable modules for Electronic Trip Units

Modularity is one of the main features of the new 3WL5 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

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.

- 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

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 3WL5 air circuit breakers offer a wide range of options for monitoring network events.

The extensive, coordinated SENTRON range of devices covers applications between 16 A and 5000 A with molded case and air circuit breakers.

Standards

3WL5 circuit breakers comply with:

- UL 489, UL 489B
- IEC 60947-2
- IEC 60947-2 Appendix F/CISPR 11/22 Class B
- DIN VDE 0660 Part 101
- Climate-proof according to IEC 60068-2-30
- CCC requirements

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 5000 A (AC), according to UL 489/IEC 60947-2

3-pole, fixed-mounted versions

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current ¹⁾ I_n	Breaking capacity 480 V	DT	Article No. www.siemens.com/ product?Article No. Article No. supplements see page 1/95	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA							kg
Horizontal main circuit connection										
I	1000	1000	65		3WL5110-3□□32-□□□□		1	1 unit	1CA	43.000
I	1600	1600	65		3WL5116-3□□32-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□32-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□32-□□□□		1	1 unit	1CA	59.000
II	3000	3000	100		3WL5230-4□□32-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□32-□□□□		1	1 unit	1CA	82.000
III	5000	5000	100		3WL5350-4□□32-□□□□		1	1 unit	1CA	82.000
Vertical main circuit connection										
I	1000	1000	65		3WL5110-3□□31-□□□□		1	1 unit	1CA	43.000
I	1600	1600	65		3WL5116-3□□31-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□31-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□31-□□□□		1	1 unit	1CA	59.000
II	3000	3000	100		3WL5230-4□□31-□□□□		1	1 unit	1CA	64.000
II ²⁾	3200	3200	100		3WL5232-4□□31-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□31-□□□□		1	1 unit	1CA	82.000
III	5000	5000	100		3WL5350-4□□31-□□□□		1	1 unit	1CA	82.000
Front main circuit connection, single hole										
I	1000	1000	65		3WL5110-3□□33-□□□□		1	1 unit	1CA	43.000
I	1600	1600	65		3WL5116-3□□33-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□33-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□33-□□□□		1	1 unit	1CA	59.000
II	3000	3000	100		3WL5230-4□□33-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□33-□□□□		1	1 unit	1CA	82.000
Front main circuit connection, double hole										
I	1000	1000	65		3WL5110-3□□34-□□□□		1	1 unit	1CA	43.000
I	1600	1600	65		3WL5116-3□□34-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□34-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□34-□□□□		1	1 unit	1CA	59.000
II	3000	3000	100		3WL5230-4□□34-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□34-□□□□		1	1 unit	1CA	82.000
Options										
Non-automatic air circuit breakers³⁾		Without Electronic Trip Units		AA						Additional price None
Electronic Trip Units		Versions without ground-fault protection								
		ETU25B: Protection functions LSI		CB						✓
		ETU45B: Protection functions LSIN ⁴⁾		EB						✓
		ETU45B: Protection functions LSIN ⁴⁾ with 4-line display		FB						✓
		ETU45B: Protection functions LS-ING ⁴⁾⁵⁾		EG						✓
		ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display		FG						✓
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 1/95								

Note: Max. voltage for auxiliary circuits 240 V.

✓ Additional price

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the rated current. If a lower rated current is required, see adaptation by rating plug on page 1/96.

2) Z-Option A17 must usually be ordered in addition.

3) For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see Technical Specifications, page 1/83.

4) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/104.

5) For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see page 1/104.

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 5000 A (AC), according to UL 489/IEC 60947-2

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 480 V	DT	Article No. www.siemens.com/ product?Article No. Article No. supplements see page 1/95	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	A	A	kA							
Without guide frames (for guide frames, see page 1/102)										
I	1000	1000	65		3WL5110-3□□35-□□□□		1	1 unit	1CA	45.000
I	1600	1600	65		3WL5116-3□□35-□□□□		1	1 unit	1CA	45.000
II	2000	2000	100		3WL5220-4□□35-□□□□		1	1 unit	1CA	60.000
II	2500	2500	100		3WL5225-4□□35-□□□□		1	1 unit	1CA	63.000
II	3000	3000	100		3WL5230-4□□35-□□□□		1	1 unit	1CA	68.000
III	4000	4000	100		3WL5340-4□□35-□□□□		1	1 unit	1CA	88.000
III	5000	5000	100		3WL5350-4□□35-□□□□		1	1 unit	1CA	88.000
With guide frames, horizontal main circuit connection										
I	1000	1000	65		3WL5110-3□□36-□□□□		1	1 unit	1CA	70.000
I	1600	1600	65		3WL5116-3□□36-□□□□		1	1 unit	1CA	70.000
II	2000	2000	100		3WL5220-4□□36-□□□□		1	1 unit	1CA	91.000
II	2500	2500	100		3WL5225-4□□36-□□□□		1	1 unit	1CA	102.000
II	3000	3000	100		3WL5230-4□□36-□□□□		1	1 unit	1CA	113.000
III	4000	4000	100		3WL5340-4□□36-□□□□		1	1 unit	1CA	148.000
III	5000	5000	100		3WL5350-4□□36-□□□□		1	1 unit	1CA	148.000
With guide frames, vertical main circuit connection										
I	1000	1000	65		3WL5110-3□□37-□□□□		1	1 unit	1CA	70.000
I	1600	1600	65		3WL5116-3□□37-□□□□		1	1 unit	1CA	70.000
II	2000	2000	100		3WL5220-4□□37-□□□□		1	1 unit	1CA	91.000
II	2500	2500	100		3WL5225-4□□37-□□□□		1	1 unit	1CA	102.000
II	3000	3000	100		3WL5230-4□□37-□□□□		1	1 unit	1CA	113.000
III	4000	4000	100		3WL5340-4□□37-□□□□		1	1 unit	1CA	148.000
III	5000	5000	100		3WL5350-4□□37-□□□□		1	1 unit	1CA	148.000
With guide frames, connecting flanges										
I	1000	1000	65		3WL5110-3□□38-□□□□		1	1 unit	1CA	70.000
I	1600	1600	65		3WL5116-3□□38-□□□□		1	1 unit	1CA	70.000
II	2000	2000	100		3WL5220-4□□38-□□□□		1	1 unit	1CA	91.000
II	2500	2500	100		3WL5225-4□□38-□□□□		1	1 unit	1CA	102.000
II	3000	3000	100		3WL5230-4□□38-□□□□		1	1 unit	1CA	113.000
III	4000	4000	100		3WL5340-4□□38-□□□□		1	1 unit	1CA	148.000

Options			Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA	None
Electronic Trip Units	Versions without ground-fault protection		
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN ³⁾	EB	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG	✓
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 1/95		

Note: Max. voltage for auxiliary circuits 240 V.

✓ Additional price

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, see [adaptation by rating plug on page 1/95](#).

2) For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see [Technical Specifications, page 1/83](#).

3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see [page 1/104](#).

4) For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see [page 1/104](#).

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 5000 A (AC), according to UL 489/IEC 60947-2

4-pole, fixed-mounted versions

1

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current ¹⁾ I_n	Breaking capacity 480 V			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
	A	A	kA	DT	Article No. www.siemens.com/ product?Article No. Article No. supplements see page 1/95	Price per PU			kg	
Horizontal main circuit connection										
I	1000	1000	65		3WL5110-3□□42-□□□□		1	1 unit	1CA	43.000
	1600	1600	65		3WL5116-3□□42-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□42-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□42-□□□□		1	1 unit	1CA	59.000
	3000	3000	100		3WL5230-4□□42-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□42-□□□□		1	1 unit	1CA	82.000
	5000	5000	100		3WL5350-4□□42-□□□□		1	1 unit	1CA	82.000
Vertical main circuit connection										
I	1000	1000	65		3WL5110-3□□41-□□□□		1	1 unit	1CA	43.000
	1600	1600	65		3WL5116-3□□41-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□41-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□41-□□□□		1	1 unit	1CA	59.000
	3000	3000	100		3WL5230-4□□41-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□41-□□□□		1	1 unit	1CA	82.000
	5000	5000	100		3WL5350-4□□41-□□□□		1	1 unit	1CA	82.000
Front main circuit connection, single hole										
I	1000	1000	65		3WL5110-3□□43-□□□□		1	1 unit	1CA	43.000
	1600	1600	65		3WL5116-3□□43-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□43-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□43-□□□□		1	1 unit	1CA	59.000
	3000	3000	100		3WL5230-4□□43-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□43-□□□□		1	1 unit	1CA	82.000
Front main circuit connection, double hole										
I	1000	1000	65		3WL5110-3□□44-□□□□		1	1 unit	1CA	43.000
	1600	1600	65		3WL5116-3□□44-□□□□		1	1 unit	1CA	43.000
II	2000	2000	100		3WL5220-4□□44-□□□□		1	1 unit	1CA	56.000
II	2500	2500	100		3WL5225-4□□44-□□□□		1	1 unit	1CA	59.000
	3000	3000	100		3WL5230-4□□44-□□□□		1	1 unit	1CA	64.000
III	4000	4000	100		3WL5340-4□□44-□□□□		1	1 unit	1CA	82.000

Options			Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA	None
Electronic Trip Units	Versions without ground-fault protection		
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN ³⁾	EB	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG	✓
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 1/95		

Note: Max. voltage for auxiliary circuits 240 V.

✓ Additional price

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the rated current. If a lower rated current is required, see adaptation by rating plug on page 1/96.

²⁾ For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see Technical Specifications, page 1/83.

³⁾ Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 1/104. The internal current transformers for N-conductors can be ordered by adding the supplement "Z" and the order code "F23", see page 1/98.

⁴⁾ For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see page 1/104.

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 5000 A (AC), according to UL 489/IEC 60947-2

4-pole, withdrawable versions

1

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current ¹⁾ I_n	Breaking capacity 480 V		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			DT	Article No. www.siemens.com/ product?Article No. Article No. supplements see page 1/95	Price per PU			kg
	A	A	kA					
Without guide frames (for guide frames, see page 1/102)								
I	1000	1000	65	3WL5110-3□□45-□□□□		1	1 unit	1CA 45.000
I	1600	1600	65	3WL5116-3□□45-□□□□		1	1 unit	1CA 45.000
II	2000	2000	100	3WL5220-4□□45-□□□□		1	1 unit	1CA 60.000
II	2500	2500	100	3WL5225-4□□45-□□□□		1	1 unit	1CA 63.000
II	3000	3000	100	3WL5230-4□□45-□□□□		1	1 unit	1CA 68.000
III	4000	4000	100	3WL5340-4□□45-□□□□		1	1 unit	1CA 88.000
III	5000	5000	100	3WL5350-4□□45-□□□□		1	1 unit	1CA 88.000
With guide frames, horizontal main circuit connection								
I	1000	1000	65	3WL5110-3□□46-□□□□		1	1 unit	1CA 70.000
I	1600	1600	65	3WL5116-3□□46-□□□□		1	1 unit	1CA 70.000
II	2000	2000	100	3WL5220-4□□46-□□□□		1	1 unit	1CA 91.000
II	2500	2500	100	3WL5225-4□□46-□□□□		1	1 unit	1CA 102.000
II	3000	3000	100	3WL5230-4□□46-□□□□		1	1 unit	1CA 113.000
III	4000	4000	100	3WL5340-4□□46-□□□□		1	1 unit	1CA 148.000
III	5000	5000	100	3WL5350-4□□46-□□□□		1	1 unit	1CA 148.000
With guide frames, vertical main circuit connection								
I	1000	1000	65	3WL5110-3□□47-□□□□		1	1 unit	1CA 70.000
I	1600	1600	65	3WL5116-3□□47-□□□□		1	1 unit	1CA 70.000
II	2000	2000	100	3WL5220-4□□47-□□□□		1	1 unit	1CA 91.000
II	2500	2500	100	3WL5225-4□□47-□□□□		1	1 unit	1CA 102.000
II	3000	3000	100	3WL5230-4□□47-□□□□		1	1 unit	1CA 113.000
III	4000	4000	100	3WL5340-4□□47-□□□□		1	1 unit	1CA 148.000
III	5000	5000	100	3WL5350-4□□47-□□□□		1	1 unit	1CA 148.000
With guide frames, connecting flanges								
I	1000	1000	65	3WL5110-3□□48-□□□□		1	1 unit	1CA 70.000
I	1600	1600	65	3WL5116-3□□48-□□□□		1	1 unit	1CA 70.000
II	2000	2000	100	3WL5220-4□□48-□□□□		1	1 unit	1CA 91.000
II	2500	2500	100	3WL5225-4□□48-□□□□		1	1 unit	1CA 102.000
II	3000	3000	100	3WL5230-4□□48-□□□□		1	1 unit	1CA 113.000
III	4000	4000	100	3WL5340-4□□48-□□□□		1	1 unit	1CA 148.000

Options

Options		Additional price	
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA	None
Electronic Trip Units	Versions without ground-fault protection		
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN ³⁾	EB	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG	✓
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 1/95		

Note: Max. voltage for auxiliary circuits 240 V.

✓ Additional price

- 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, see [adaptation by rating plug on page 1/96](#).
- 2) For permissible rated short-time current I_{cs} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see [Technical Specifications, page 1/83](#).

- 3) Current transformers for protection of the N-conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer are to be ordered separately, see [page 1/104](#). The internal current transformers for N-conductors can be ordered by adding the supplement "-Z" and the order code "F23", see [page 1/98](#).
- 4) For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see [page 1/104](#).

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 3200 A (DC), acc. to UL 489B/IEC 60947-2

Fixed-mounted versions

Selection and ordering data¹⁾

Size	Max. rated circuit breaker current $I_{n \max}$	No. of poles	Rated current I_n	Breaking capacity 690 V		PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
				DT	Article No. www.siemens.com/ product?Article No. Article No. supplements see page 1/95				
A	A		A	kA					kg
Horizontal main circuit connection									
I	1600 ²⁾	4p	1600 ²⁾	20 ³⁾	3WL5120-8AA42-□□□□	1	1 unit	1CA	50.000
II ⁴⁾⁵⁾	3200	3p	3200	22	3WL5232-8AA32-□□□□	1	1 unit	1CA	64.000
Vertical main circuit connection									
I	1600 ²⁾	4p	1600 ²⁾	20 ³⁾	3WL5120-8AA41-□□□□	1	1 unit	1CA	50.000
II ⁴⁾⁵⁾	3200	3p	3200	25	3WL5232-8AA31-□□□□	1	1 unit	1CA	85.000

For further Article No. supplements [see page 1/95](#).

¹⁾ For permissible rated breaking capacity for non-automatic air circuit breakers, see [Technical Specifications, page 1/83](#).

²⁾ According to IEC 60947-2 the rated current is 2000 A.

³⁾ $I_{cc} = 20 \text{ kA}$ up to $U_e = 1000 \text{ V DC} + 10\%$.

⁴⁾ Can also be used at variable frequencies of 0 ... 30 Hz.

⁵⁾ Z-Option A17 must usually be ordered in addition.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Options

1

Selection and ordering data

				Article No. supplement		Additional price	
				3WL5...-.....- □□□□			
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		✓	
240		220		3		✓	
Manual/motorized operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100 % OP							
Motor		Closing solenoid					
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 solenoid or closing coil for synchronization purposes: "1" at the 13th digit of the Article No. and order codes, see page 1/97 .							
1st auxiliary release							
Type	Condition	U _s 50/60 Hz V AC	U _s V DC				
Without 1st auxiliary release	--	--	--	A		None	
Shunt release suitable for uninterrupted duty, 100 % OP	Operating range 0.85 ... 1.1 × 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 release	--	--	--	A		None	
Shunt release suitable for uninterrupted duty, 100 % OP	Operating range 0.85 ... 1.1 × 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 ... 1.1 × 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 ... 1.1 × 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	✓	

✓ Additional price

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Options

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z □ □ □ +...+...	Additional price
IT network capability at 690 V AC + 10 % according to IEC 60947-2 Appendix H				
Conditions	Size	Rated voltage V		
3WL5225-4□□31-...	II	AC	A 1 7	✓
3WL5225-4□□32-...			A 1 7	✓
3WL5232-4□□31-...			A 1 7	✓
3WL5232-8AA31-...		DC	A 1 7	✓
3WL5232-8AA32-...			A 1 7	✓
3WL5340-4□□31-...	III	AC	A 1 7	✓
3WL5340-4□□32-...		A 1 7	✓	
3WL5350-4□□31-... ⁶⁾	III	AC	A 1 7	On request
3WL5350-4□□32-... ⁶⁾		A 1 7	On request	
Special packaging (moisture protection)				
Special packaging for extended technical requirements				
Cardboard packaging with water-repellent coating on corrugated cardboard (moisture protection)			A 6 1	✓
Rating plugs				
Conditions	Size	Rated current I _n A		
Only one module is possible per circuit breaker. As standard the electronic trip units are equipped with a rating plug which is equal to the maximum rated current circuit breaker (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
	II, III	2000	B 2 0	None
		2500	B 2 5	None
		3000	B 3 0	None
		3200	B 3 2	None
	III	4000	B 4 0	None
		5000	B 5 0	None
Indication/operator control elements, door sealing frames				
5-digit mechanical operating cycles counter ¹⁾			C 0 1	✓
Electrical ON button S10 in the operator panel ²⁾ Possible only for circuit breakers with closing coil.	Button with sealing cap		C 1 1	✓
	Key operation with lock CES		C 1 2	✓
Storage status signaling switches ²⁾ (S21)	1 NO contact		C 2 0	✓
Ready-to-close signaling switches (S20)	1 NO contact		C 2 2	✓
Signaling switches ²⁾	For the first auxiliary release (S22)		C 2 6	✓
	For the second auxiliary release (S23)		C 2 7	✓
Motor shutdown switch in the operator panel ³⁾ (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 switch ²⁾⁴⁾ (S24)	1 CO contact		K 0 7	✓
2nd tripped signaling switch ²⁾⁴⁾⁵⁾ (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	

✓ Additional price

¹⁾ Only possible with motorized operating mechanism.²⁾ Not possible with communications interface option, order codes "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⁾ Only possible with option "K07".⁶⁾ 3WL5350-... available with A17 as from 01/2016.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Options

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).				3WL.....-....Z □□□+...+...		Additional price	
Motorized operating mechanisms and closing/opening coils							
Type	Conditions	Motor					
		50/60 Hz V AC	V DC				
Motorized operating mechanism	Only possible if the 13th 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 coils					
		50/60 Hz V AC	V DC				
Closing coil suitable for uninterrupted duty, 100 % OP	Only possible if the 13th 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 coils					
		50/60 Hz V AC	V DC				
Closing coil ¹⁾ not suitable for uninterrupted duty, 5 % OP, synchronizable	Only possible if the 13th 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 coils					
		50/60 Hz V AC	V DC				
Opening coils (shunt release) ²⁾³⁾	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			✓
Interlocks, covers, position signaling switches (for fixed-mounted version)							
Mutual mechanical interlockings (interlocking module with Bowden wire 2 m)	Fixed-mounted circuit breakers			S 5 5			✓
Interlocks, covers, position signaling switches (for withdrawable version)							
Mutual mechanical interlockings (interlocking module with Bowden wire 2 m)	Version						
	For withdrawable circuit breakers with guide frame			R 5 5			✓
	For guide frames			R 5 6			✓
	For withdrawable circuit breakers			R 5 7			✓
Shutters 2-part lockable with padlocks ⁴⁾	3-pole	Number of poles	Size				
		I		R 2 1			✓
		II		R 2 1			✓
	4-pole	III		R 2 1			✓
		I		R 2 1			✓
		II		R 2 1			✓
Position signaling switches for guide frames	Connected position	Test position	Disconnected position				
		1 CO	1 CO	R 1 5			✓
		3 CO	2 CO	1 CO	R 1 6		

✓ Additional price

¹⁾ Overexcited, i.e. operating time 50 ms (standard > 80 ms).²⁾ Only possible if the 14th position of the Article No. for the circuit breaker is "A", i.e. "without 1st auxiliary release".³⁾ Overexcited, i.e. operating time 50 ms (standard > 80 ms).⁴⁾ Padlocks not included in scope of supply.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Options

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).		3WL.....-.....-Z □ □ □ +...+...	Additional price
Communication and measurement functions			
Breaker status sensor (BSS)		F 0 1	✓
PROFIBUS-DP communications interface¹⁾	Including COM15 and breaker status sensor (BSS)	F 0 2	✓
MODBUS-RTU communications interface¹⁾	Including COM16 and breaker status sensor (BSS)	F 1 2	✓
Measurement function <i>Plus</i> (without PROFIBUS/ MODBUS communications interface)²⁾		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 ETU45B	I	F 2 3	✓
	II	F 2 3	✓
	III	F 2 3	✓
EMC filters			
EMC filters		F 3 1	✓
- 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.			
Locking devices (for fixed-mounted versions and withdrawable versions)			
Locking devices against unauthorized closing, in the operator panels	Version		
The disconnecter unit fulfills the requirements for main circuit breakers according to EN 60204-1	Made by CES	S 0 1	✓
	Made by IKON	S 0 3	✓
	Assembly kit FORTRESS or Castell ³⁾	S 0 5	✓
	Assembly kit for padlocks ⁴⁾	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 padlock⁴⁾		S 3 3	✓
Locking devices (for withdrawable version)			
Locking devices against unauthorized closing, for withdrawable circuit breakers	Version		
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.	Made by CES	R 6 1	✓
Not possible in combination with order codes "R81", "R85" or "R86".	Made by Ronis	R 6 8	✓
	Made by Profalux	R 6 0	✓
Locking devices to prevent movement of the withdrawable circuit breakers	Version		
Safety lock for mounting on the circuit breaker	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 devices	To prevent opening of the cabinet door in ON position	S 3 0	✓
Not possible in combination with order codes "R81", "R85" or "R86".			
Locking devices (for withdrawable version)			
Locking devices	Version		
Not possible in combination with order codes "R81", "R85" or "R86".	To prevent opening of the cabinet door in connected position	R 3 0	✓
	To prevent movement with the cabinet door open	R 5 0	✓
Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position, consisting of Bowden wire and lock in the cabinet door	Version		
Not possible in combination with order codes "R30", "R50", "R61", "R68" or "R60".	Made by CES	R 8 1	✓
	Made by Ronis	R 8 5	✓
	Made by Profalux	R 8 6	✓
Connection methods for auxiliary conductors (for fixed-mounted and withdrawable versions)			
Connections for screwless terminals (tension spring)	Version		
	Fixed-mounted	N 6 1	✓
	Withdrawable	P 6 1	✓

✓ Additional price

¹⁾ If ordering the withdrawable circuit breaker and guide frame separately, specify order code "F02" or "F12" for the withdrawable circuit breaker only.

²⁾ Additional voltage transformers are required for connection of the *Plus* measurement function, see 1/113.

³⁾ Locks must be ordered from the manufacturer.

⁴⁾ Padlock not included in the scope of supply.

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"

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				Additional price 3-pole	Additional price 4-pole
Top and bottom: 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: accessible from front, double hole	I	Up to 1600 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: 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 1600 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			✓	✓
Connection methods for main connections	Size	Rated current I_n					
Top: connecting flange Bottom: horizontal	I	Up to 1600 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 1600 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			✓	✓
Connection methods for main connections	Size	Rated current I_n					
Top: horizontal Bottom: connecting flange	I	Up to 1600 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			✓	✓

✓ Additional price

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Options

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z □ □ □ +...+...	Additional price	
For fixed-mounted circuit breakers				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 "2".					
Connection methods for main connections ¹⁾	Size	Rated current I_n			
Top: 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	Up to 4000 A	N 1 1	✓	✓
Connection methods for main connections	Size	Rated current I_n			
Top: vertical Bottom: horizontal	I	Up to 1600 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	✓	✓
Top: horizontal Bottom: vertical	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	✓	✓
	III	Up to 4000 A	N 2 4	✓	✓
Top: horizontal Bottom: vertical	I	Up to 1600 A	N 2 4	✓	✓
		Up to 2000 A	N 2 4	✓	✓
Top: horizontal Bottom: vertical	II	Up to 2000 A	N 2 4	✓	✓
		Up to 2500 A	N 2 4	✓	✓
Top: horizontal Bottom: vertical	III	Up to 4000 A	N 2 4	✓	✓
		Up to 5000 A	N 2 4	✓	✓

✓ Additional price

¹⁾ A17 cannot be used for DC non-automatic air circuit breakers and circuit breakers with the Z option.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

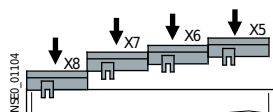
Accessories and spare parts

1

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 communication 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, ETU25B,	0	
c2	Electronic Trip Units ETU45B, (internal CubicleBUS)	+1	X8
c3	Connections for external current transformers for overload protection in the N-conductor and ground-fault protection	+1	X8
c4	Current transformer installed in the N-conductor (required with 3-pole circuit breakers if c2 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
	• 1st tripped signal switch S24 • 2nd tripped signal switch S25 • Stored-energy status indication 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	Stored-energy status indicator 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	Switch on 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 1/102 onwards and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/109.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

1

Selection and ordering data

Guide frames for AC circuit breakers/non-automatic air circuit breakers approved according to UL 489

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Breaking capacity $I_{cu} = I_{cs}$	DT	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		kA		Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU			kg
Front main circuit connection, single hole								
I	1000	... 66		3WL9251-1AA□□-□□A1		1	1 unit	1CA 25,000
	1600	... 66		3WL9251-2AA□□-□□A1		1	1 unit	1CA 25,000
II	2000	... 100		3WL9252-3AA□□-□□A1		1	1 unit	1CA 31,000
	2500	... 100		3WL9252-4AA□□-□□A1		1	1 unit	1CA 39,000
	3000	... 100		3WL9252-5AA□□-□□A1		1	1 unit	1CA 45,000
III	4000	... 100		3WL9253-6AA□□-□□A1		1	1 unit	1CA 60,000
Front main circuit connection, double hole								
I	1000	... 66		3WL9251-1AB□□-□□A1		1	1 unit	1CA 25,000
	1600	... 66		3WL9251-2AB□□-□□A1		1	1 unit	1CA 25,000
II	2000	... 100		3WL9252-3AB□□-□□A1		1	1 unit	1CA 31,000
	2500	... 100		3WL9252-4AB□□-□□A1		1	1 unit	1CA 39,000
	3000	... 100		3WL9252-5AB□□-□□A1		1	1 unit	1CA 45,000
III	4000	... 100		3WL9253-6AB□□-□□A1		1	1 unit	1CA 60,000
Horizontal main circuit connection								
I	1000	... 66		3WL9251-1AC□□-□□A1		1	1 unit	1CA 25,000
	1600	... 66		3WL9251-2AC□□-□□A1		1	1 unit	1CA 25,000
II	2000	... 100		3WL9252-3AC□□-□□A1		1	1 unit	1CA 31,000
	2500	... 100		3WL9252-4AC□□-□□A1		1	1 unit	1CA 39,000
	3000	... 100		3WL9252-5AC□□-□□A1		1	1 unit	1CA 45,000
III	4000	... 100		3WL9253-6AC□□-□□A1		1	1 unit	1CA 60,000
	5000	... 100		3WL9253-7AC□□-□□A1		1	1 unit	1CA 60,000
Vertical main circuit connection								
I	1000	... 66		3WL9251-1AD□□-□□A1		1	1 unit	1CA 25,000
	1600	... 66		3WL9251-2AD□□-□□A1		1	1 unit	1CA 25,000
II	2000	... 100		3WL9252-3AD□□-□□A1		1	1 unit	1CA 31,000
	2500	... 100		3WL9252-4AD□□-□□A1		1	1 unit	1CA 39,000
	3000	... 100		3WL9252-5AD□□-□□A1		1	1 unit	1CA 45,000
III	4000	... 100		3WL9253-6AD□□-□□A1		1	1 unit	1CA 60,000
	5000	... 100		3WL9253-7AD□□-□□A1		1	1 unit	1CA 60,000
Main circuit connection connecting flanges								
I	1000	... 66		3WL9251-1AE□□-□□A1		1	1 unit	1CA 25,000
	1600	... 66		3WL9251-2AE□□-□□A1		1	1 unit	1CA 25,000
II	2000	... 100		3WL9252-3AE□□-□□A1		1	1 unit	1CA 31,000
	2500	... 100		3WL9252-4AE□□-□□A1		1	1 unit	1CA 39,000
	3000	... 100		3WL9252-5AE□□-□□A1		1	1 unit	1CA 45,000
III	4000	... 100		3WL9253-6AE□□-□□A1		1	1 unit	1CA 60,000
Options								
								Additional price
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 1/101.								
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	Size I		B				✓
		Size II		B				✓
		Size III		B				✓

✓ Additional price

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

1

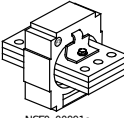
Size	Max. rated circuit breaker current I_n max.	Breaking capacity $I_{cu} = I_{cs}$	DT	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		kA		Article No. www.siemens.com/ product?ArticleNo	Basic price per PU			kg
Front main circuit connection, single hole								
I	1000 1600	... 66 ... 66		3WL9251-1BA□□-□□A1 3WL9251-2BA□□-□□A1		1 1	1 unit 1 unit	1CA 30.000 1CA 30.000
II	2000 2500 3000	... 100 ... 100 ... 100		3WL9252-3BA□□-□□A1 3WL9252-4BA□□-□□A1 3WL9252-5BA□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000
III	4000	... 100		3WL9253-6BA□□-□□A1		1	1 unit	1CA 84.000
Front main circuit connection, double hole								
I	1000 1600	... 66 ... 66		3WL9251-1BB□□-□□A1 3WL9251-2BB□□-□□A1		1 1	1 unit 1 unit	1CA 30.000 1CA 30.000
II	2000 2500 3000	... 100 ... 100 ... 100		3WL9252-3BB□□-□□A1 3WL9252-4BB□□-□□A1 3WL9252-5BB□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000
III	4000	... 100		3WL9253-6BB□□-□□A1		1	1 unit	1CA 84.000
Horizontal main circuit connection								
I	1000 1600	... 66 ... 66		3WL9251-1BC□□-□□A1 3WL9251-2BC□□-□□A1		1 1	1 unit 1 unit	1CA 30.000 1CA 30.000
II	2000 2500 3000	... 100 ... 100 ... 100		3WL9252-3BC□□-□□A1 3WL9252-4BC□□-□□A1 3WL9252-5BC□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000
III	4000 5000	... 100 ... 100		3WL9253-6BC□□-□□A1 3WL9253-7BC□□-□□A1		1 1	1 unit 1 unit	1CA 84.000 1CA 84.000
Vertical main circuit connection								
I	1000 1600	... 66 ... 66		3WL9251-1BD□□-□□A1 3WL9251-2BD□□-□□A1		1 1	1 unit 1 unit	1CA 30.000 1CA 30.000
II	2000 2500 3000	... 100 ... 100 ... 100		3WL9252-3BD□□-□□A1 3WL9252-4BD□□-□□A1 3WL9252-5BD□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000
III	4000 5000	... 100 ... 100		3WL9253-6BD□□-□□A1 3WL9253-7BD□□-□□A1		1 1	1 unit 1 unit	1CA 84.000 1CA 84.000
Main circuit connection connecting flanges								
I	1000 1600	... 66 ... 66		3WL9251-1BE□□-□□A1 3WL9251-2BE□□-□□A1		1 1	1 unit 1 unit	1CA 30.000 1CA 30.000
II	2000 2500 3000	... 100 ... 100 ... 100		3WL9252-3BE□□-□□A1 3WL9252-4BE□□-□□A1 3WL9252-5BE□□-□□A1		1 1 1	1 unit 1 unit 1 unit	1CA 37.000 1CA 47.000 1CA 54.000
III	4000	... 100		3WL9253-6BE□□-□□A1		1	1 unit	1CA 84.000
Options								
Number of auxiliary supply connectors		None		0				Additional price 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 1/101.								
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	Size I	B				✓
			Size II	B				✓
			Size III	B				✓

✓ Additional price

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

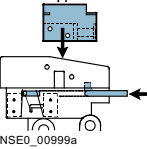
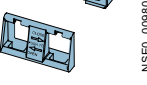
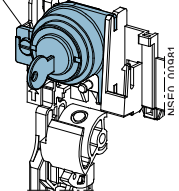
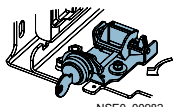
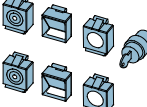
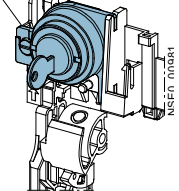
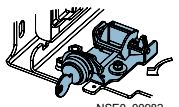
Accessories and spare parts

	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
								kg
 NSE0_01610D	Protective devices with device holder and optional measurement function¹⁾							
	Type	With protection function	Measuring function					
	ETU25B	LSI	None	3WL9352-5AA00-0AA1	1	1 unit	1CA	0.720
	ETU45B (without display)	LSIN(G)	None With measurement function <i>Plus</i>	3WL9354-5AA00-0AA1 3WL9354-5AA20-0AA1	1 1	1 unit 1 unit	1CA 1CA	0.720 0.720
3WL931-.-AA.0-0AA1								
 NSE0_00992b 3WL9111-0AA64-0AA0	Rating plugs²⁾							
	Size	Rated current I_n (A)						
	I, II	250	3WL9111-2AA51-0AA0	1	1 unit	1CA	0.010	
		315	3WL9111-2AA52-0AA0	1	1 unit	1CA	0.010	
		400	3WL9111-2AA53-0AA0	1	1 unit	1CA	0.010	
		500	3WL9111-2AA54-0AA0	1	1 unit	1CA	0.010	
		630	3WL9111-2AA55-0AA0	1	1 unit	1CA	0.010	
		800	3WL9111-2AA56-0AA0	1	1 unit	1CA	0.010	
	I, II, III	1000	3WL9111-2AA57-0AA0	1	1 unit	1CA	0.010	
		1250	3WL9111-2AA58-0AA0	1	1 unit	1CA	0.010	
	II, III	1600	3WL9111-2AA61-0AA0	1	1 unit	1CA	0.010	
		2000	3WL9111-2AA62-0AA0	1	1 unit	1CA	0.010	
2500		3WL9111-2AA63-0AA0	1	1 unit	1CA	0.010		
3000		3WL9111-2AA77-0AA0	1	1 unit	1CA	0.010		
III	3200	3WL9111-2AA64-0AA0	1	1 unit	1CA	0.010		
	4000	3WL9111-2AA65-0AA0	1	1 unit	1CA	0.010		
	5000	3WL9111-2AA66-0AA0	1	1 unit	1CA	0.010		
 NSE0_01027a 3WL9111-0AT53-0AA0	Ground-fault modules³⁾							
	Versions							
 NSE0_01609 3WL9111-0AT81-0AA0	• GFM AT 45B (only for ETU45B) alarm and tripping			3WL9111-2AT53-0AA0	1	1 unit	1CA	0.200
	Displays • For ETU45B • 4-line			3WL9111-1AT81-0AA0	1	1 unit	1EA	0.061
 NSE0_00991a 3WL9111-0AA3-0AA0	External current transformers for N conductor For T5, "Measurement Method" function, see Technical Information at www.siemens.com/lowvoltage/product-support .							
	Copper connection pieces	Size						
	--	I	3WL9111-0AA21-0AA0	1	1 unit	1CA	0.300	
		II	3WL9111-0AA22-0AA0	1	1 unit	1CA	0.380	
		III	3WL9111-0AA23-0AA0	1	1 unit	1CA	0.680	
	✓	I	3WL9111-0AA31-0AA0	1	1 unit	1CA	1.600	
		II	3WL9111-0AA32-0AA0	1	1 unit	1CA	4.260	
III		3WL9111-0AA33-0AA0	1	1 unit	1CA	8.500		
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.			3WL9111-0AK32-0AA0	1	1 unit	1CA	0.280	

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	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
More accessories for Electronic Trip Units								
    	Sealable and lockable covers							
	Version							
	• For ETU25B and ETU45B		3WL9111-0AT45-0AA0		1	1 unit	1CA	0.050
	Automatic reset of the reclosing lockout		3WL9111-0AK21-0AA0		1	1 unit	1CA	0.050
	Spare part for option K01 , for "-Z" + order code, see page 1/96.							
	Remote reset coils¹⁾							
	• For mechanical tripped indicator							
	• Spare part for options K10 to K13 , for "-Z" + order code, see page 1/96.							
	Note							
	Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 also needed.							
3WL9111-0AT45-0AA0	Version							
	• 24 V DC		3WL9111-0AK03-0AA0		1	1 unit	1CA	0.200
	• 48 V DC		3WL9111-0AK04-0AA0		1	1 unit	1CA	0.200
	• 120 V AC/125 V DC		3WL9111-0AK05-0AA0		1	1 unit	1CA	0.200
	• 208-250 V AC/208-250 V DC		3WL9111-0AK06-0AA0		1	1 unit	1CA	0.200
	Retrofittable internal CubicleBUS wiring for connection to terminal X8		3WL9111-0AK30-0AA0		1	1 unit	1CA	0.150
	• For ETU45B							
	• Without male connector ²⁾							
	Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8		3WL9111-0AK31-0AA0		1	1 unit	1CA	0.020
	• Not for ETU Release 2							
	• Without male connector							
Locking devices								
  	Interlocking set for mechanical ON/OFF							
	• Consisting of 2 transparent covers each for sealing or for attaching padlocks ⁴⁾							
	• Cover with 6.35 mm hole (for tool actuation)							
	• Lock mount for safety lock for key operation							
	Version							
	• Without safety lock		3WL9111-0BA21-0AA0		1	1 unit	1CA	0.100
	• Made by CES		3WL9111-0BA22-0AA0		1	1 unit	1CA	0.300
	• Made by IKON		3WL9111-0BA24-0AA0		1	1 unit	1CA	0.300
	Locking devices against unauthorized closing, in the operator panels							
	• The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1							
3WL9111-0BA22-0AA0	• Spare part for options S01 to S09 , for "-Z" + order code, see page 1/98.							
	Version							
	• Assembly kit FORTRESS or CASTELL ³⁾		3WL9111-0BA31-0AA0		1	1 unit	1CA	0.200
	• Made by Ronis		3WL9111-0BA33-0AA0		1	1 unit	1CA	0.400
	• Made by KIRK-Key ³⁾		3WL9111-0BA34-0AA0		1	1 unit	1CA	0.270
	• Made by Profalux		3WL9111-0BA35-0AA0		1	1 unit	1CA	0.250
	• Made by CES		3WL9111-0BA36-0AA0		1	1 unit	1CA	0.200
	• Made by IKON		3WL9111-0BA38-0AA0		1	1 unit	1CA	0.200
	• Assembly kit for padlocks ⁴⁾		3WL9111-0BA41-0AA0		1	1 unit	1CA	0.360
	Locking devices against unauthorized closing, for withdrawable circuit breakers							
3WL9111-0BA31-0AA0	• The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1							
	• Consisting of lock in the cabinet door, active in connected position; function is retained when circuit breaker is replaced							
	• Spare part for options R60 , R61 , R68 , for "-Z" + order code, see page 1/98.							
	Version							
	• Made by CES		3WL9111-0BA51-0AA0		1	1 unit	1CA	0.300
	• Made by IKON		3WL9111-0BA53-0AA0		1	1 unit	1CA	0.300
	• Made by KIRK-Key ³⁾		3WL9111-0BA57-0AA0		1	1 unit	1CA	0.300
	• Made by Ronis		3WL9111-0BA58-0AA0		1	1 unit	1CA	0.300
	• Made by Profalux		3WL9111-0BA50-0AA0		1	1 unit	1CA	0.227

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.

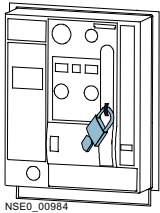
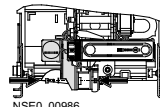
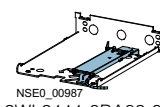
⁴⁾ Padlock not included in the scope of supply.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

1

	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 NSE0_00984	Locking devices for operating mechanism handle with padlock¹⁾ Spare part for option S33 , for "-Z" + order code, see page 1/98.		3WL9111-0BA71-0AA0		1	1 unit	1CA	0.080
 NSE0_00986	Locking devices to prevent movement of the withdrawable circuit breakers • Safety lock for mounting on the circuit breaker • Spare part for options S71, S75, S76 , for "-Z" + order code, see page 1/98.							
Versions								
3WL9111-0BA76-0AA0	• Made by CES		3WL9111-0BA73-0AA0		1	1 unit	1CA	0.300
	• Made by IKON		3WL9111-0BA75-0AA0		1	1 unit	1CA	0.200
	• Made by Profalux		3WL9111-0BA76-0AA0		1	1 unit	1CA	0.300
	• Made by Ronis		3WL9111-0BA77-0AA0		1	1 unit	1CA	0.300
	• Made by KIRK-Key ²⁾		3WL9111-0BA80-0AA0		1	1 unit	1CA	0.400
	Interlocking systems • 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	0.360
Locking mechanisms								
 NSE0_00987	Locking devices to prevent movement of the withdrawable circuit breakers in disconnected position • Consisting of Bowden wire and lock in the cabinet door on the circuit breaker • Spare part for options R81, R85, R86 , for "-Z" + order code, see page 1/98.							
Versions								
3WL9111-0BA83-0AA0	• Made by CES		3WL9111-0BA81-0AA0		1	1 unit	1CA	0.800
	• Made by IKON		3WL9111-0BA83-0AA0		1	1 unit	1CA	0.800
	• Made by Profalux		3WL9111-0BA85-0AA0		1	1 unit	1CA	0.800
	• Made by Ronis		3WL9111-0BA86-0AA0		1	1 unit	1CA	0.800
Note								
Not possible in combination with "Locking device to prevent opening of the cabinet door" (order code "R30") or "Locking device to prevent movement with the cabinet door open" (order code "R50").								
 NSE0_00988	Locking devices to prevent opening of the cabinet door in ON position • Fixed-mounted • Can be defeated • Spare part for option S30 , for "-Z" + order code, see page 1/98.		3WL9111-0BB12-0AA0		1	1 unit	1CA	0.600
Locking devices to prevent opening of the cabinet door								
3WL9111-0BB12-0AA0	• Guide frames • Can be defeated • Spare part for option R30 , for "-Z" + order code, see page 1/98.		3WL9111-0BB13-0AA0		1	1 unit	1CA	0.150
	Note Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").							
	Locking devices to prevent movement with the cabinet door open • Guide frames • Spare part for option R50 , for "-Z" + order code, see page 1/98.		3WL9111-0BB15-0AA0		1	1 unit	1CA	0.150
Note Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").								

¹⁾ Padlock not included in the scope of supply.

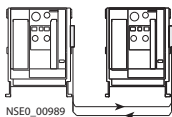
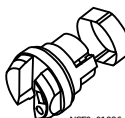
²⁾ Locks, cylinders and keys must be ordered from the manufacturer.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

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Designation		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Interlocks								
 NSE0_00989	Mutual mechanical interlocking with 2000 mm Bowden wire (one required for each circuit breaker)							
	Type	When ordered separately	Spare part for					
	Fixed-mounted circuit breakers	--	Option S55 , for "-Z" + order code, see page 1/97	3WL9111-0BB21-0AA0	1	1 unit	1CA	2.700
	Module for withdrawable circuit breakers with guide frame	--	Option R55 , for "-Z" + order code, see page 1/97	3WL9111-0BB24-0AA0	1	1 unit	1CA	1.130
	Module for guide frame	✓	Option R56 , for "-Z" + order code, see page 1/97	3WL9111-0BB22-0AA0	1	1 unit	1CA	1.100
	Module for withdrawable circuit breaker	✓	Option R57 , for "-Z" + order code, see page 1/97	3WL9111-0BB23-0AA0	1	1 unit	1CA	0.150
 NSE0_01886	Adapter for size III withdrawable circuit breaker	✓	--	3WL9111-0BB30-0AA0	1	1 unit	1CA	0.100
	Couplings on the circuit breaker (with ring) for mutual interlocking Can be used in all circuit breakers			3WL9112-8AH47-0AA0	1	1 unit	1CA	0.160
Bowden wires								
Versions								
2000 mm			3WL9111-0BB45-0AA0	1	1 unit	1CA	0.150	
3000 mm			3WL9111-0BB46-0AA0	1	1 unit	1CA	0.220	
4500 mm			3WL9111-0BB47-0AA0	1	1 unit	1CA	0.360	
Transfer control devices								
 3KC9000-8TL30 3KC9000-8EL10	3KC ATC5300 and NEW ATC3100 transfer control devices For combination with two air circuit breakers/molded case circuit breakers for changeover according to IEC 60947-6-1. For further information, see chapter "Monitoring Devices"							
Test devices								
Manual test device for Electronic Trip Units ETU25B and ETU45B For testing the Electronic Trip Units functions of all 3WL ETUs			3WL9111-0AT32-0AA0	1	1 unit	1CA	1.100	
Function testers For testing the tripping characteristics of Electronic Trip Units ETU25B and ETU45B			3WL9111-0AT44-0AA0	1	1 unit	1CA	8.210	
Capacitor storage devices								
Capacitor storage devices - For shunt releases - Storage time 5 min			3WL9111-0BA14-0AA0	1	1 unit	1CA	0.520	
Rated control supply voltage/rated operational voltage								
50/60 Hz V AC		V DC						
220 ... 240		220 ... 250						
Note - Rated control supply voltage must match the rated control supply voltage of the shunt release - Suitable also for 3VL circuit breakers.								

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Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Indicators, control elements							
Ready-to-close signaling switches (S20) 1 NO contact - Spare part for option C22, for "-Z" + order code, see page 1/96. NSE0_00993a 3WL9111-0AH01-0AA0		3WL9111-0AH01-0AA0		1	1 unit	1CA	0.020
Signaling switches¹⁾²⁾ (S22 or S23) 1st or 2nd auxiliary release - Spare part for option C26 and C27, for "-Z" + order code, see page 1/96. NSE0_00994b 3WL9111-0AH02-0AA0		3WL9111-0AH02-0AA0		1	1 unit	1CA	0.020
1st tripped signaling switch¹⁾²⁾⁷⁾ (S24) 1 CO contact - Spare part for option K07, for "-Z" + order code, see page 1/96.		3WL9111-0AH14-0AA0		1	1 unit	1CA	0.080
2nd tripped signaling switch¹⁾²⁾³⁾⁷⁾ (S25) 1 NO contact - Spare part for option K06, for "-Z" + order code, see page 1/96.		3WL9111-0AH17-0AA0		1	1 unit	1CA	0.080
Operating cycles counter - Mechanical⁴⁾ - Spare part for option C01, for "-Z" + order code, see page 1/96. NSE0_00995a 3WL9111-0AH07-0AA0		3WL9111-0AH07-0AA0		1	1 unit	1CA	0.100
Stored energy status signaling switches¹⁾²⁾ 1 NO contact - Spare part for option C20, for "-Z" + order code, see page 1/96.		3WL9111-0AH08-0AA0		1	1 unit	1CA	0.030
Position signaling switches for guide frames Spare part for options R15 and R16, for "-Z" + order code, see page 1/97. NSE0_00996a 3WL9111-0AH12-0AA0							
Versions 1st block (3 CO contacts) 2nd block (6 CO contacts)		3WL9111-0AH11-0AA0 3WL9111-0AH12-0AA0		1 1	1 unit 1 unit	1CA 1CA	0.200 0.400
Electrical ON buttons¹⁾⁵⁾ (S10) - Button + wiring²⁾ - For operator panel - Spare part for options C11 and C12, for "-Z" + order code, see page 1/96. NSE0_00997a 3WL9111-0AJ0.-0AA0							
Versions - With sealing cap C11 - With CES C12 assembly kit - With IKON assembly kit		3WL9111-0AJ02-0AA0 3WL9111-0AJ03-0AA0 3WL9111-0AJ05-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	0.150 0.140 0.140
Note Possible only for circuit breakers with closing coil.							
Motor shutdown switches⁶⁾ (S12) - Mounting on operator panel - Spare part for option S25, for "-Z" + order code, see page 1/96.		3WL9111-0AJ06-0AA0		1	1 unit	1CA	0.100
EMERGENCY-STOP pushbut- tons - Mushroom pushbutton instead of the mechanical OFF pushbutton - Spare part for option S24, for "-Z" + order code, see page 1/96. NSE0_00985 3WL9111-0BA72-0AA0		3WL9111-0BA72-0AA0		1	1 unit	1CA	0.080

¹⁾ Not possible with communications interface option, order codes "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 1/101 and page 1/109).

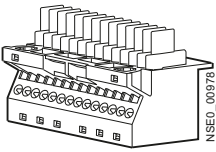
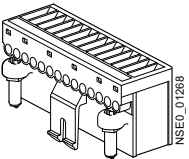
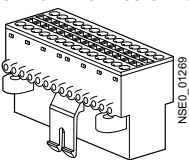
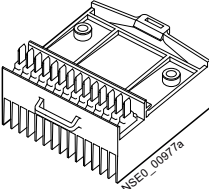
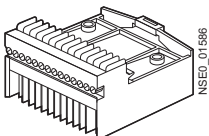
³⁾ Can only be used in combination with 1st tripped signaling switch.

⁴⁾ Only in conjunction with motorized operating mechanism.

⁵⁾ Not possible with motor shutdown switch.

⁶⁾ Not possible with electrical ON button.

⁷⁾ Not available for non-automatic air circuit breakers.

Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary conductor connections							
 3WL9111-0AB01-0AA0	Male connectors for circuit breakers ①	3WL9111-0AB01-0AA0		1	1 unit	1CA	0.100
	Extension for the 1000 V male connector versions Male connector must be ordered separately.	3WL9111-0AB02-0AA0		1	1 unit	1EA	0.150
	Male connectors and extension for 1000 V	3WL9111-0AB10-0AA0		1	1 unit	1EA	1.000
 3WL9111-0AB03-0AA0	Auxiliary supply connectors for circuit breakers or guide frames ②						
	Versions						
	• Screw connection (SIGUT)	3WL9111-0AB03-0AA0		1	1 unit	1CA	0.070
	• Screwless connection method (tension spring)	3WL9111-0AB04-0AA0		1	1 unit	1CA	0.070
 3WL9111-0AB04-0AA0							
  3WL9111-0AB07-0AA0	Coding kits For fixed-mounted versions (X5 to X8) ③	3WL9111-0AB07-0AA0		1	1 unit	1CA	0.020
 3WL9111-0AB08-0AA0	Sliding contact modules for guide frames ④	3WL9111-0AB08-0AA0		1	1 unit	1CA	0.100
 3WL9111-0AB18-0AA0	One-part sliding contact modules for guide frames Screw connection (SIGUT) ⑤	3WL9111-0AB18-0AA0		1	1 unit	1CA	0.120
	Blanking blocks for circuit breakers	3WL9111-0AB12-0AA0		1	1 unit	1CA	0.030

For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

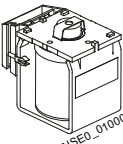
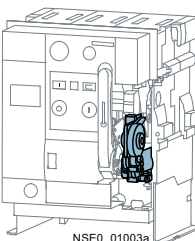
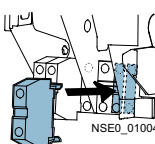
Withdrawable version: ① + ④ + ② or ① + ⑤

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

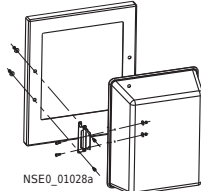
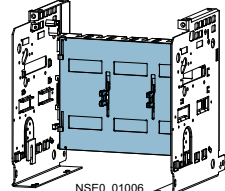
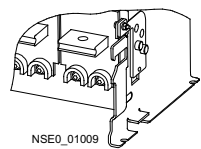
Accessories and spare parts

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Designation		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
Auxiliary releases									
 NSE0_01000		Closing coils/shunt releases							
Versions		Voltage							
100 % OP		24 V DC		3WL9111-0AD01-0AA0		1	1 unit	1CA	0.700
		30 V DC		3WL9111-0AD02-0AA0		1	1 unit	1CA	0.700
		48 V DC		3WL9111-0AD03-0AA0		1	1 unit	1CA	0.700
		60 V DC		3WL9111-0AD04-0AA0		1	1 unit	1CA	0.700
		110 ... 125 V DC/110 ... 127 V AC		3WL9111-0AD05-0AA0		1	1 unit	1CA	0.700
		220 ... 250 V DC/208 ... 240 V AC		3WL9111-0AD06-0AA0		1	1 unit	1CA	0.700
5 % OP ¹⁾		24 V DC		3WL9111-0AD11-0AA0		1	1 unit	1CA	0.700
		48 V DC		3WL9111-0AD12-0AA0		1	1 unit	1CA	0.700
		110 ... 125 V DC/110 ... 127 V AC		3WL9111-0AD13-0AA0		1	1 unit	1CA	0.700
		220 ... 250 V DC/208 ... 240 V AC		3WL9111-0AD14-0AA0		1	1 unit	1CA	1.800
Undervoltage releases									
Versions		Voltage							
Instantaneous		24 V DC		3WL9111-0AE01-0AA0		1	1 unit	1CA	0.730
		30 V DC		3WL9111-0AE02-0AA0		1	1 unit	1CA	0.730
		48 V DC		3WL9111-0AE03-0AA0		1	1 unit	1CA	0.730
		60 V DC		3WL9111-0AE07-0AA0		1	1 unit	1CA	0.730
		110 ... 125 V DC/110 ... 127 V AC		3WL9111-0AE04-0AA0		1	1 unit	1CA	0.730
		220 ... 250 V DC/208 ... 240 V AC		3WL9111-0AE05-0AA0		1	1 unit	1CA	0.730
Delayed		48 V DC		3WL9111-0AE11-0AA0		1	1 unit	1CA	0.740
		110 ... 125 V DC/110 ... 127 V AC		3WL9111-0AE12-0AA0		1	1 unit	1CA	0.740
		220 ... 250 V DC/208 ... 240 V AC		3WL9111-0AE13-0AA0		1	1 unit	1CA	0.740
Operating mechanisms									
 NSE0_01003a		Motorized operating mechanisms ²⁾							
Versions									
• 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		1	1 unit	1CA	1.510
				3WL9111-0AF02-0AA0		1	1 unit	1CA	1.510
				3WL9111-0AF03-0AA0		1	1 unit	1CA	1.510
				3WL9111-0AF04-0AA0		1	1 unit	1CA	1.510
Auxiliary contacts									
 NSE0_01004		Auxiliary switch blocks							
Versions									
• 2 NO contacts + 2 NC contacts • 2 NO contacts • 1 NO contact + 1 NC contact				3WL9111-0AG01-0AA0		1	1 unit	1CA	0.180
				3WL9111-0AG02-0AA0		1	1 unit	1CA	0.080
				3WL9111-0AG03-0AA0		1	1 unit	1CA	0.070
3WL9111-0AG03-0AA0									

¹⁾ Overexcited, i.e. operating 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 1/101 and page 1/109).

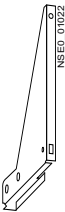
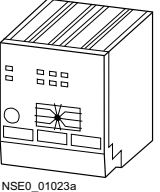
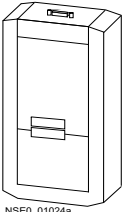
	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Door sealing frames, hoods, shutters								
 NSE0_01028a	Door sealing frames Spare part for option T40 , for "-Z" + order code, see page 1/96 .		3WL9111-0AP01-0AA0		1	1 unit	1CA	0.360
	Protective covers IP55 Notes • Cannot be used in conjunction with door sealing frames • Hood removable and can be opened on both sides		3WL9111-0AP03-0AA0		1	1 unit	1CA	1.690
	3WL9111-0AP02-0AA0							
 NSE0_01006	Shutters Spare part for option R21 , for "-Z" + order code, see page 1/97 .							
	Number of poles	Size						
	3-pole	I	3WL9111-0AP04-0AA0		1	1 unit	1CA	0.500
		II	3WL9111-0AP06-0AA0		1	1 unit	1CA	0.630
		III	3WL9111-0AP07-0AA0		1	1 unit	1CA	0.860
	4-pole	I	3WL9111-0AP08-0AA0		1	1 unit	1CA	0.600
		II	3WL9111-0AP11-0AA0		1	1 unit	1CA	0.770
III		3WL9111-0AP12-0AA0		1	1 unit	1CA	1.070	
3WL9111-0AP..-0AA0								
Coding for withdrawable version								
 NSE0_01009	Coding for withdrawable version By customer, for 36 coding variants							
	Versions • Sizes I and II • Size III		3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0		1	1 unit	1CA	0.400
	3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0					1	1 unit	1CA

Air Circuit Breakers

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Accessories and spare parts

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Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Support brackets							
 Support brackets - For mounting fixed-mounted circuit breakers on vertical plane - Only for sizes I and II (1 set = 2 units) 3WL9111-0BB50-0AA0		3WL9111-0BB50-0AA0		1	1 unit	1CA	7.000
CubicleBUS modules¹⁾⁴⁾							
 Digital output modules with rotary coding switch, relay outputs 3WL9111-0AT23-0AA0		3WL9111-1AT26-0AA0		1	1 unit	1EA	0.350
Digital output modules, configurable, relay outputs		3WL9111-1AT20-0AA0		1	1 unit	1EA	0.400
Digital input modules		3WL9111-1AT27-0AA0		1	1 unit	1EA	0.300
Analog output modules		3WL9111-1AT23-0AA0		1	1 unit	1EA	0.300
Zone Selective Interlocking modules		3WL9111-1AT21-0AA0		1	1 unit	1EA	0.240
Parameterization systems²⁾							
 BDA Plus²⁾³⁾ - Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using the local interface - Breaker Data Adapter, connection cable to the 3WL air circuit breaker and to the programming device (e.g. notebook) - Can be run with Internet Explorer with JAVA2 VM 1.4.0-01 and higher - With Ethernet interface for connection to Ethernet/Intranet/Internet 3WL9111-0AT28-0AA0		3WL9111-2AT33-0AA0		1	1 unit	1CA	1.000
Connection cables for BDA Plus - Connection cable for connection of BDA Plus to terminal X8 of the 3WL air circuit breaker - Required if neither COM15 nor COM16 nor other external CubicleBUS modules are available - Length 2 m		3WL9111-0BC21-0AA0		1	1 unit	1CA	0.350
powerconfig parameterization software - Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using the powerconfig software, see chapter "Measuring Devices and Power Monitoring". - powerconfig is available free of charge at http://support.automation.siemens.com/WWW/view/en/22951684/133100							

¹⁾ Each CubicleBUS module is supplied with a 0.2 m factory-fitted cable to connect the modules with each other. A longer factory-fitted cable is required for connection to the circuit breaker.

²⁾ A 24 V DC power supply unit is required.

³⁾ Operation under Windows Vista and Windows 7 possible with restrictions.

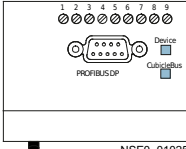
⁴⁾ All communication components, CubicleBUS modules and measurement functions are available for the releases ETU45B.

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3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

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Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg				
Accessories for communications ³⁾											
Preassembled cables for CubicleBUS modules											
Versions											
• 0.2 m long, for connection to 3WL with COM15/COM16 • 1 m long, for connection to 3WL with COM15/COM16 • 2 m long, for connection to 3WL with COM15/COM16 • 2 m long, for connection to 3WL without COM15/COM16		3WL9111-0BC04-0AA0 3WL9111-0BC02-0AA0 3WL9111-0BC03-0AA0 3WL9111-0BC05-0AA0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA	0.020 0.050 0.060 0.070				
SENTRON manual for communication solutions											
• 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 measurement function <i>Plus</i>¹⁾ • 380 ... 690 V/100 V, class 0.5		3WL9111-0BB68-0AA0		1	1 unit	1CA	2.600				
Retrofitting and spare parts ³⁾											
 PROFIBUS DP Device CubicleBUS NSE0_01025	COM15 PROFIBUS module For ETU45B Electronic Trip Unit				1	1 unit	1EA	0.560			
3WL9111-0AT15-0AA0											
COM16 MODBUS modules For ETU45B Electronic Trip Unit											
3WL9111-1AT15-0AA0								1	1 unit	1CA	0.180
Breaker status sensor (BSS) For ETU45B Electronic Trip Unit											
3WL9111-1AT16-0AA0								1	1 unit	1EA	0.137
Measurement function <i>Plus</i> ²⁾ Voltage transformer required											
3WL9111-1AT03-0AA0								1	1 unit	1EA	0.310

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

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

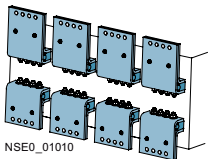
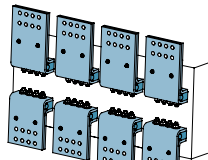
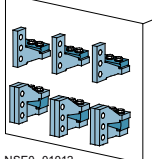
³⁾ All communication components, **CubicleBUS** modules and measurement functions are available for the ETU45B Electronic Trip Unit.

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

1

Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Main conductor connections, fixed-mounted versions (required accessory)							
Specified for each connection							
 NSE0_01010 3WL9111-0AL06-0AA0 + 3WL9111-0AL56-0AA0	Front-accessible main connections, single hole at top						
	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	1.100 1.600
	II	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	2.000 3.600 3.500
	III	Up to 4000 A	3WL9111-0AL06-0AA0	1	1 unit	1CA	6.100
	Front-accessible main connections, single hole at bottom						
	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	1.000 1.300
	II	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	1.800 3.100 3.000
	III	Up to 4000 A	3WL9111-0AL56-0AA0	1	1 unit	1CA	5.200
 NSE0_01011 3WL9111-0AL14-0AA0 + 3WL9111-0AL64-0AA0	Front-accessible main connections according to DIN 43673, double hole at top						
	Size	Rated current I_n					
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AL07-0AA0 3WL9111-0AL08-0AA0	1 1	1 unit 1 unit	1CA 1CA	1.400 2.000
	II	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	2.400 4.500 4.400
	III	Up to 4000 A	3WL9111-0AL14-0AA0	1	1 unit	1CA	7.800
	Front-accessible main connections according to DIN 43673, double hole at bottom						
	Size	Rated current I_n					
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AL57-0AA0 3WL9111-0AL58-0AA0	1 1	1 unit 1 unit	1CA 1CA	1.300 1.700
	II	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	2.000 3.700 3.600
	III	Up to 4000 A	3WL9111-0AL64-0AA0	1	1 unit	1CA	6.400
 NSE0_01012 3WL9111-0AM03-0AA0	Rear vertical main connections						
	Size	Rated current I_n					
	I ¹⁾	Up to 1600 A	3WL9111-0AM01-0AA0	1	1 unit	1CA	0.500
	II ²⁾	Up to 3200 A	3WL9111-0AM02-0AA0	1	1 unit	1CA	2.200
	III	Up to 6300 A	3WL9111-0AM03-0AA0	1	1 unit	1CA	5.000

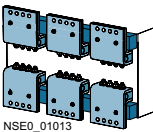
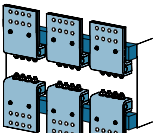
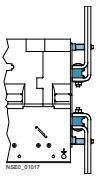
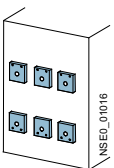
¹⁾ In the case of vertical connection size I with breaking capacity N and S, up to 1000 A one 3WL9111-0AM01-0AA0 vertical connection is required, up to 1600 A two 3WL9111-0AM01-0AA0 vertical connections are required.

²⁾ 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.

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

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	Designation	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Main conductor connections, withdrawable versions (required accessory)								
Specified for each connection								
 NSE0_01013 3WL9111-0AN06-OAA0	Front-accessible main connections, single hole at top or at bottom¹⁾							
	Size	Rated current I_n						
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN01-OAA0 3WL9111-0AN02-OAA0		1 1	1 unit 1 unit	1CA 1CA	1.000 1.300
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN03-OAA0 3WL9111-0AN04-OAA0 3WL9111-0AN05-OAA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	1.800 3.100 3.000
	III	Up to 4000 A	3WL9111-0AN06-OAA0		1	1 unit	1CA	5.200
 NSE0_01014 3WL9111-0AN14-OAA0	Front-accessible main connections according to DIN 43673, double hole at top or at bottom¹⁾							
	Size	Rated current I_n						
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN07-OAA0 3WL9111-0AN08-OAA0		1 1	1 unit 1 unit	1CA 1CA	1.300 1.700
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN11-OAA0 3WL9111-0AN12-OAA0 3WL9111-0AN13-OAA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	2.000 3.700 3.600
	III	Up to 4000 A	3WL9111-0AN14-OAA0		1	1 unit	1CA	6.400
 NSE0_01017 3WL9111-0AN41-OAA0	Supports for front and DIN connecting bars							
	Number of poles	Size						
	3-pole for 3 bars	I II III	3WL9111-0AN41-OAA0 3WL9111-0AN42-OAA0 3WL9111-0AN43-OAA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	0.700 1.350 2.420
	4-pole for 4 bars	I II III	3WL9111-0AN44-OAA0 3WL9111-0AN45-OAA0 3WL9111-0AN46-OAA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	1.200 2.200 3.200
	 NSE0_01015 3WL9111-0AN23-OAA0	Rear vertical main connections						
Size		Rated current I_n						
I		Up to 1000 A 1250 A to 1600 A	3WL9111-0AN15-OAA0 3WL9111-0AN16-OAA0		1 1	1 unit 1 unit	1CA 1CA	0.660 0.870
II		Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN17-OAA0 3WL9111-0AN18-OAA0 3WL9111-0AN21-OAA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	1.150 1.490 2.580
III		Up to 5000 A	3WL9111-0AN22-OAA0		1	1 unit	1CA	6.380
	Rear horizontal main connections							
	Size	Rated current I_n						
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN32-OAA0 3WL9111-0AN33-OAA0		1 1	1 unit 1 unit	1CA 1CA	0.630 0.770
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN34-OAA0 3WL9111-0AN35-OAA0 3WL9111-0AN36-OAA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	1.020 1.240 2.170
	III	Up to 5000 A	3WL9111-0AN37-OAA0		1	1 unit	1CA	3.860
 NSE0_01016 3WL9111-0AN24-OAA0	Connecting flange							
	Size	Rated current I_n						
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN24-OAA0 3WL9111-0AN25-OAA0		1 1	1 unit 1 unit	1CA 1CA	0.610 0.640
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN26-OAA0 3WL9111-0AN27-OAA0 3WL9111-0AN28-OAA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA	0.980 1.020 1.310
	III	Up to 4000 A	3WL9111-0AN31-OAA0		1	1 unit	1CA	2.370
Conversion sets								
Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers • Only for AC circuit breakers/non-automatic air circuit breakers • Guide frames and sliding contact modules must be ordered separately								
Number of poles		Size						
3-pole	I	3WL9111-0BC11-OAA0		1	1 unit	1CA	5.100	
	II	3WL9111-0BC12-OAA0		1	1 unit	1CA	5.900	
	III	3WL9111-0BC13-OAA0		1	1 unit	1CA	8.100	
4-pole	I	3WL9111-0BC14-OAA0		1	1 unit	1CA	6.400	
	II	3WL9111-0BC15-OAA0		1	1 unit	1CA	6.450	
	III	3WL9111-0BC16-OAA0		1	1 unit	1CA	10.700	

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

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Accessories and spare parts

1

Options

Structure of the Article No.

Example			3WL5 2 2 0 - 4 N G 3 1 - 1 F A 2											
5th position:	Size	Size II	2	2	0	-	4	N	G	3	1	-	1	F
6th and 7th positions:	Max. rated circuit breaker current $I_{n \max}$	$I_{n \max} = 2000 \text{ A}$	2	0										
8th position:	Breaking capacity class	High breaking capacity "H": 100 kA					4							
9th position:	Electronic Trip Units	ETU45B with 4-line display ...							F					
10th position:	Electronic Trip Unit supplement	... with ground-fault protection							G					
11th position:	Number of poles	Three-pole								3				
12th position:	Installation type	Fixed-mounted, main connections on rear, vertical									1			
13th position:	Operating mechanisms	Manual operating mechanism with mechanical closing										1		
14th position:	1st auxiliary release	Shunt release 50/60 Hz 110 V AC											F	
15th position:	2nd auxiliary release	Without 2nd auxiliary release												A
16th position:	Auxiliary switches	2 NO contacts + 2 NC contacts												2

An important prerequisite for computer-based 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 No. 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 No.

Accessories: With first order (components are already mounted)

Example			3WL5 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) + communication module COM15 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 No. 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 No. stem 3WL9.

Documentation

PROFIBUS manual Communication	German	Article No.	A5E0151347
	English	Article No.	A5E0151353
MODBUS 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

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