



For further information on
3WL5

see [Catalog LV 16](#)



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**For further technical
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[Miniature Circuit Breakers](#)

Article No.: 3ZW1012-5SL61-0AC1

Siemens Industry Online Support:

[www.siemens.com/lowvoltage/
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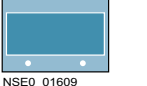

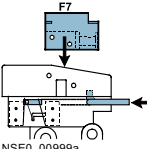
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Product note
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Technical data

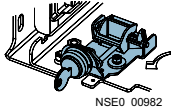
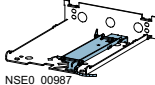
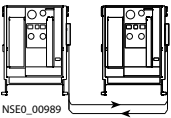

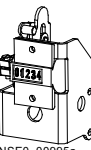
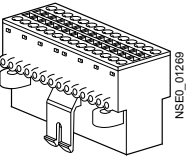
Air Circuit Breakers

Introduction

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Overview

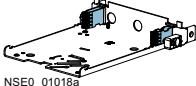
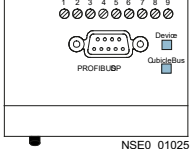
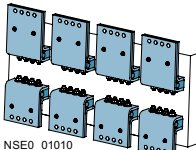
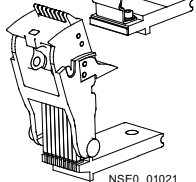
Devices	Page		Application/individual components	Standards	Used in			
	3WL1	3WL5			Non-residential buildings	Residential buildings	Industry	
	3WL1 air circuit breakers/ non-automatic air circuit breakers up to 6300 A (AC), IEC	1/19 ... 1/46	--	As incoming-feeder, distribution, tie, and outgoing-feeder 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	1/78 ... 1/80	--	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	--	1/92 ... 1/95	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	--	1/96	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 metering function (ETU)	1/61	1/107	Electronic Trip Units with current limiters with protection functions LI, LSI, LSING, LSIN(G) with or without metering function <i>Plus</i>	As for circuit breakers	✓	--	✓
	Rating plugs	1/61	1/107	For rated current I_n from 250 A to 6300 A. The maximum rated current of the circuit breaker must not be exceeded.	As for circuit breakers	✓	--	✓
	Ground-fault modules	1/61	1/107	With alarm and tripping	As for circuit breakers	✓	--	✓
	Displays	1/61	1/107	4-line displays for ETU45B	As for circuit breakers	✓	--	✓
	Current transformers for N conductor protection	1/61	1/107	Internal transformers for N conductors, external transformers for N conductors	As for circuit breakers	✓	--	✓
	EMC filters	1/61	1/107	Common-mode interference suppressor filters	As for circuit breakers	✓	--	✓
	More accessories for Electronic Trip Units	1/62	1/108	Sealable and lockable covers, automatic reset of the reclosing lockout, remote reset solenoid, retrofitable internal CubicleBUS wiring, retrofitable internal wiring for connec- tion of the external N and G transformers	As for circuit breakers	✓	--	✓

Devices	Page		Application/individual components	Standards	Used in			
	3WL1	3WL5			Non-residential buildings	Residential buildings	Industry	
 NSE0_00982	Locking devices	1/62	1/108	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	✓	--	✓
 NSE0_00987	Locking mechanisms	1/63	1/109	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	✓	--	✓
 NSE0_00989	Interlocks	1/64	1/110	Mutual mechanical interlocking, couplings on the circuit breaker (with ring) for mutual interlocking, Bowden wire	As for circuit breakers	✓	--	✓
	3KC ATC5300 and ATC3100 transfer control devices	Ch. 8	Ch. 8	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	1/64	1/110	Manual testers Release 2 for Electronic Trip Units, function testers	As for circuit breakers	✓	--	✓
	Capacitor storage devices	1/64	1/110	For shunt releases	As for circuit breakers	✓	--	✓
 NSE0_00955a	Indicators, control elements	1/65	1/111	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	✓	--	✓
 NSE0_01269	Auxiliary conductor terminals	1/66	1/112	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 releases	1/67	1/113	Closing coils/shunt releases, undervoltage releases	As for circuit breakers	✓	--	✓
	Operating mechanisms	1/67	1/113	Motorized operating mechanism	As for circuit breakers	✓	--	✓
	Auxiliary contacts	1/67	1/113	Auxiliary switch blocks	As for circuit breakers	✓	--	✓
	Door sealing frames, hoods, shutters	1/68	1/114	Door sealing frames, IP55 protective covers, shutters	As for circuit breakers	✓	--	✓
	Arc chutes	1/68	--	Arc chutes, arc chute covers	As for circuit breakers	✓	--	✓
	Coding for withdrawable version	1/68	1/114	By customer, for 36 coding variants	As for circuit breakers	✓	--	✓

Air Circuit Breakers

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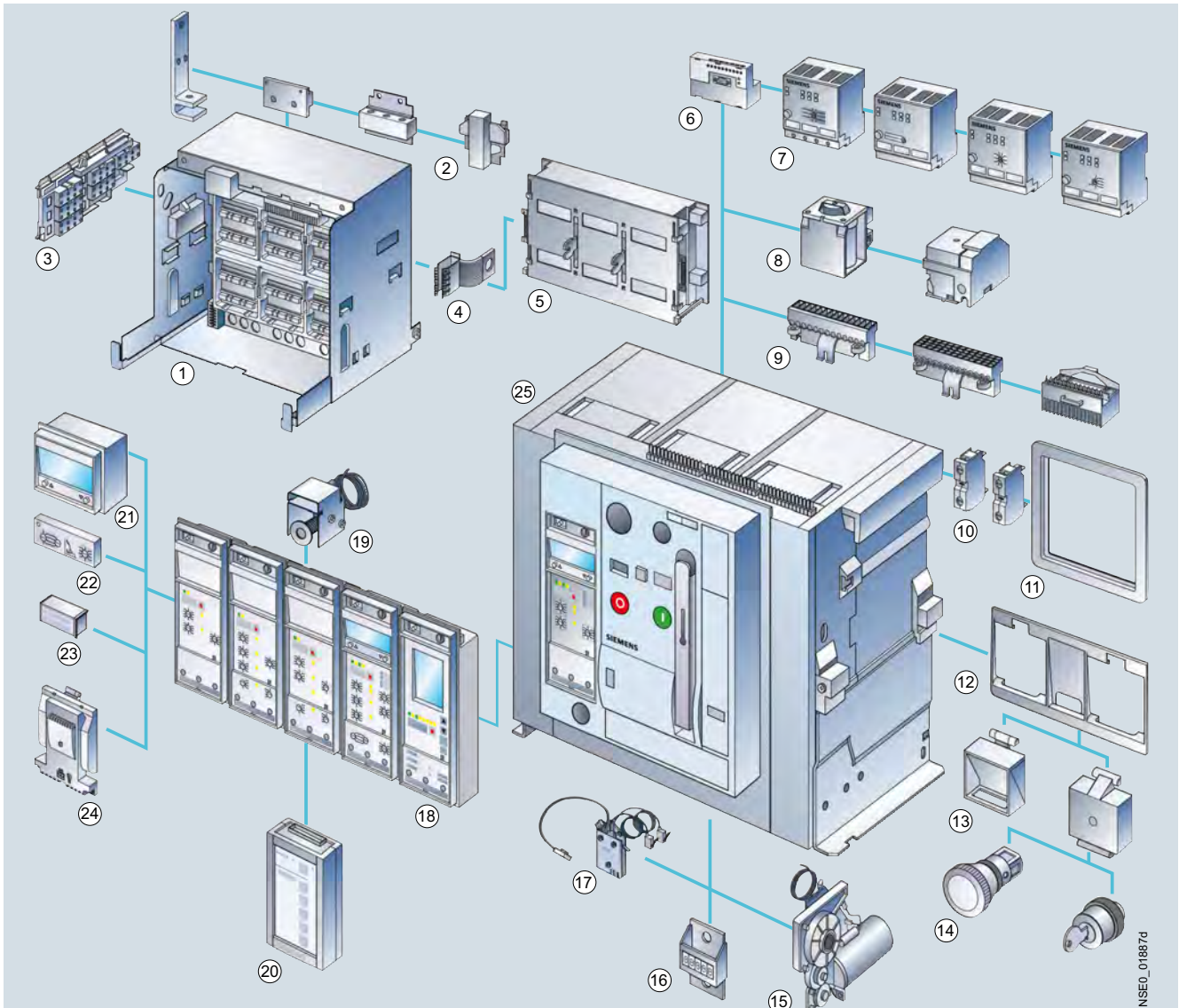
Introduction

Devices	Page		Application/individual components	Standards	Used in			
	3WL1	3WL5			Non-residential buildings	Residential buildings	Industry	
 NSE0_01018a	Grounding connection	1/69	--	Grounding connection between the guide frame and the withdrawable circuit breaker, contacting modules for withdrawable circuit breakers	As for circuit breakers	✓	--	✓
	Support brackets	1/69	1/115	For mounting fixed-mounted circuit breakers on vertical plane	As for circuit breakers	✓	--	✓
	CubicleBUS modules	1/69	1/115	Digital and analog input and output modules, Zone Selective Interlocking modules	As for circuit breakers	✓	--	✓
	Parameterization systems	1/69	1/115	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	1/70	1/116	Pre-assembled cables for CubicleBUS modules, SENTRON manuals for communication solutions, voltage transformers	As for circuit breakers	✓	--	✓
 NSE0_01025	Retrofitting and spare parts	1/70	1/116	PROFIBUS retrofit kits, COM15 PROFIBUS modules, COM16 MODBUS modules, MODBUS IEC retrofit kits, Breaker Status Sensor (BSS), metering function <i>Plus</i>	As for circuit breakers	✓	--	✓
 NSE0_01010	Main conductor connections, fixed-mounted, main conductor connections, withdrawable	1/71, 1/72	1/117, 1/118	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	1/73	1/118	Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers	As for circuit breakers	✓	--	✓
 NSE0_01021	Main contact elements	1/73	--	For replacement of the main contacts during maintenance and thus to boost the useful life of the breaker.	As for circuit breakers	✓	--	✓

Overview

3WL1 air circuit breakers offer highly flexible application and consistent communication capability. With the 3WL1 circuit breakers, just three sizes cover a performance range of 630 A to 6300 A. All models are characterized by the same design,

the same operation and the same comprehensive accessories.



NSE01_01887d

- | | |
|--|---|
| ① Guide frame (page 1/55 to page 1/60) | ⑬ Transparent panel, function insert (page 1/62) |
| ② Main circuit connection front, flange, horizontal, vertical (page 1/52, 1/71 and 1/72) | ⑭ EMERGENCY-STOP pushbutton, key operated (page 1/65) |
| ③ Position signaling switch (page 1/50 and 1/65) | ⑮ Motorized operating mechanism (page 1/49 and 1/67) |
| ④ Grounding connection, leading (page 1/69) | |
| ⑤ Shutters (page 1/50 and 1/68) | |
| ⑥ COM15 PROFIBUS module or COM16 MODBUS module (page 1/50 and 1/70) | |
| ⑦ External CubicleBUS modules (page 1/69) | |
| ⑧ Closing coil, auxiliary release (page 1/47, 1/49 and 1/67) | |
| ⑨ Auxiliary conductor plug-in system (page 1/51 and 1/66) | |
| ⑩ Auxiliary switch block (page 1/47 and 1/67) | |
| ⑪ Door sealing frame (page 1/49 and 1/68) | |
| ⑫ Interlocking set for mechanical ON/OFF (page 1/62) | |
| ⑬ Transparent panel, function insert (page 1/62) | |
| ⑭ EMERGENCY-STOP pushbutton, key operated (page 1/65) | |
| ⑮ Motorized operating mechanism (page 1/49 and 1/67) | |
| ⑯ Remote reset solenoid (page 1/49 and 1/62) | |
| ⑰ Breaker Status Sensor (BSS) (page 1/50 and 1/70) | |
| ⑱ Remote reset solenoid (page 1/49 and 1/62) | |
| ⑲ Remote reset solenoid (page 1/49 and 1/62) | |
| ⑳ Breaker Data Adapter (BDA Plus) (page 1/69) | |
| ㉑ Four-line display (page 1/61) | |
| ㉒ Ground-fault protection module (page 1/61) | |
| ㉓ Rating plug (page 1/48 and 1/61) | |
| ㉔ Metering function module (page 1/50 and 1/61) | |
| ㉕ Air circuit breaker (page 1/19 to 1/46) | |

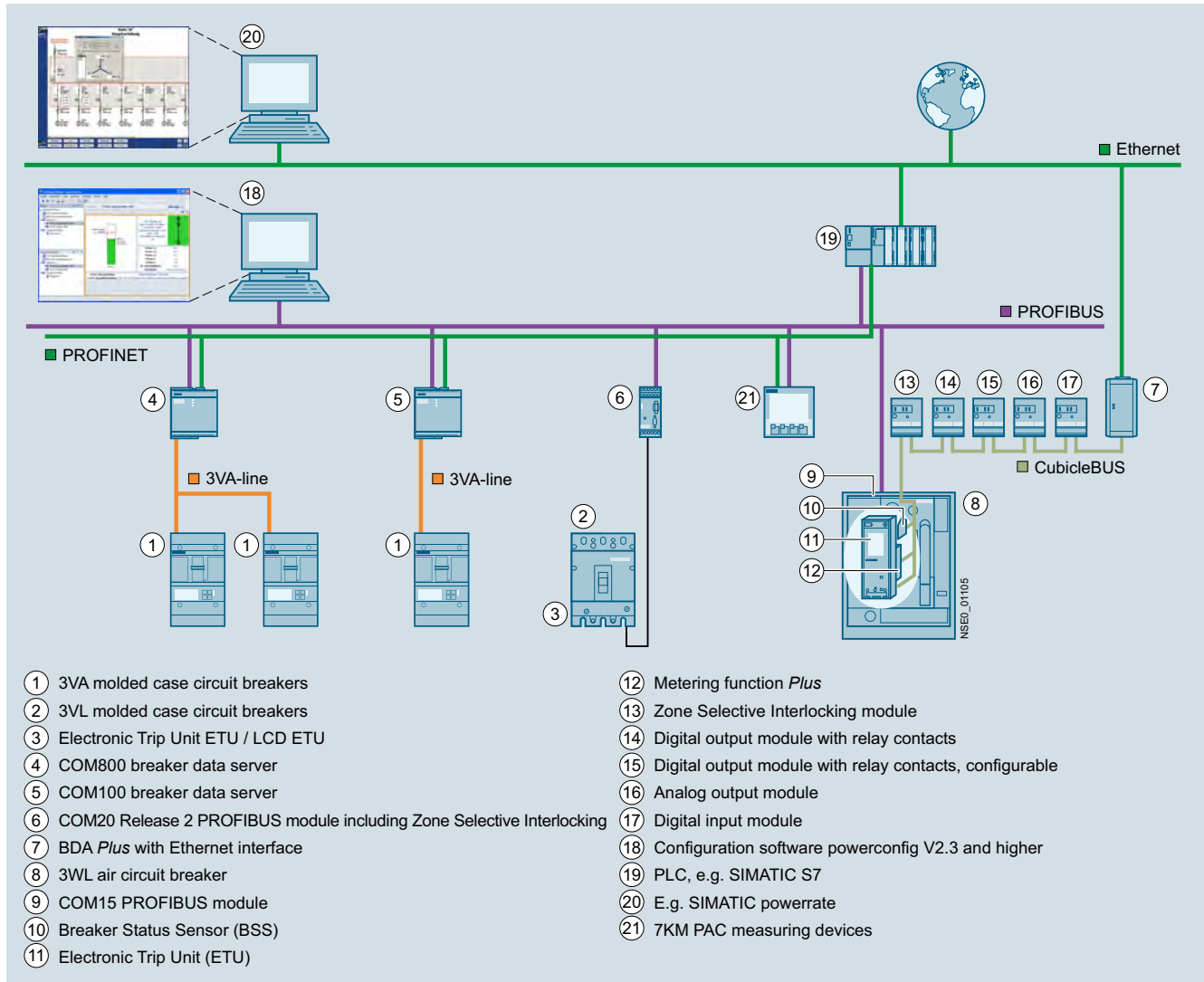
Air Circuit Breakers

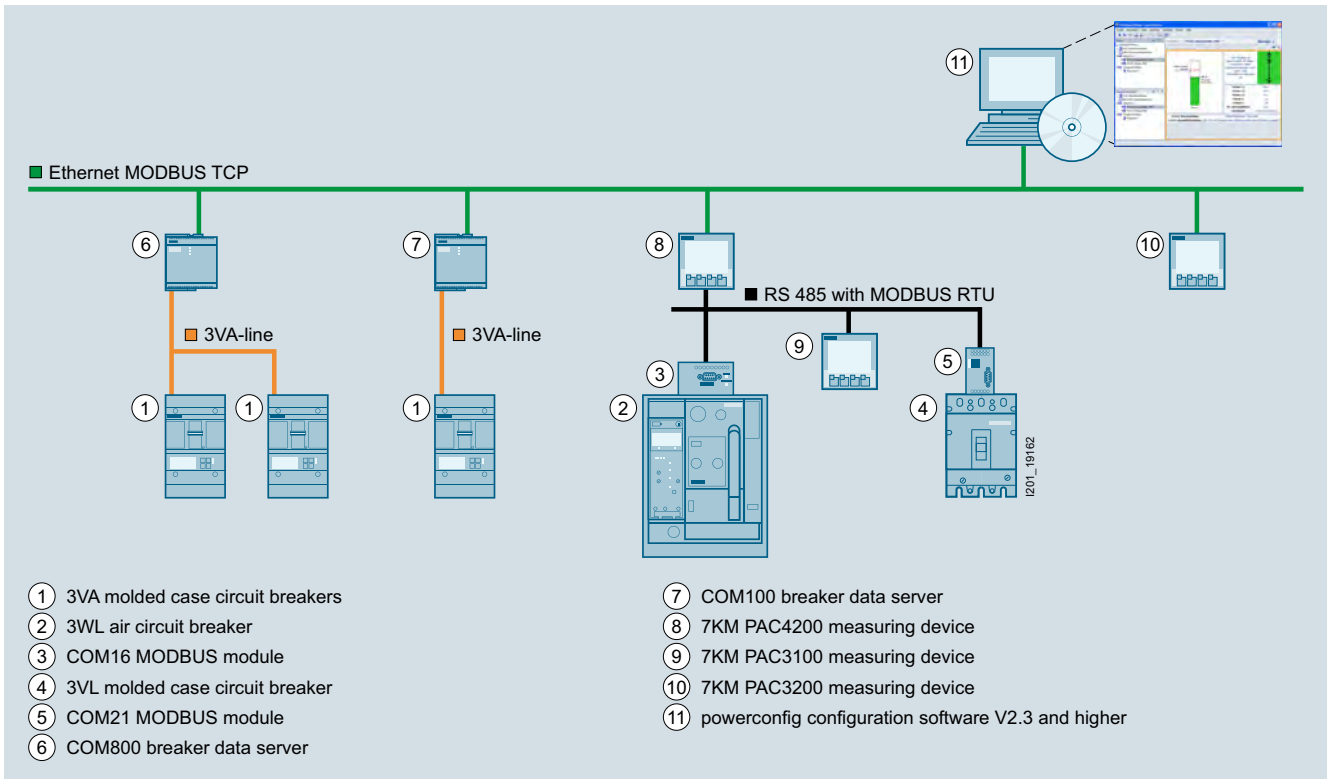
3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 6300 A (AC), IEC

Introduction

Overview

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





Characteristics

- Coordinated communication concept 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 1/19 to page 1/46](#).
- For accessories, [see page 1/69 and page 1/70](#).
- For more information, [see chapter "Measuring Devices and Power Monitoring"](#) and [see chapter "Monitoring Devices"](#).
- For configuring information, [see also configuration manual "Air Circuit Breakers"](#) 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/metering functions

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

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

Application

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

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

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

The AC devices are available as circuit breakers and non-automatic air circuit breakers. DC devices are only available as non-automatic air circuit breakers.

Standards

3WL1 air circuit breakers comply with:

- IEC 60947-2
- IEC 60947-2 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	...	3WL11 10	3WL11 12	3WL11 16	3WL11 20	3WL12 08	3WL12 10	3WL12 12	3WL12 16
Number of poles	3-pole, 4-pole								
Rated current I_n at 40 °C, at 50/60 Hz									
Main conductor	A	... 1000	1250	1600	2000	800	1000	1250	1600
N conductor (only on 4-pole versions)	A	... 1000	1250	1600	2000	800	1000	1250	1600
Rated operational voltage U_o at 50/60 Hz (1000 V version, see page 1/48 *Options*)	V AC	...	...	...	...	...	...	...	...
		690/1000	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 60947-2	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 (Cu black, painted) ²⁾	A	1000	1210	1490 ³⁾	1780	800	1000	1250	1600
Rated rotor operational voltage U_{er}	V	2000	2000	2000	2000	2000	2000	2000	2000
Power loss at I_n									
With three-phase symmetrical load									
• Fixed-mounted circuit breakers	W	100	105	150	240	40	45	80	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 coil) 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)	Operating cycles	--	--	--	--	--	--	--	--
• 1150 V version, electrical (without maintenance)	Operating 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)	Operating cycles	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
• 1150 V version, electrical (without maintenance)	Operating 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)	Operating cycles	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
• 1150 V version, electrical (without maintenance)	Operating 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 frequency⁷⁾									
• 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 automatic mechanical resetting of the lockout device).	ms	80	80	80	80	80	80	80	80
Minimum interval between On-Off or Off-On switching operations.									

1) Use of trip units from -20 °C.

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

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

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

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

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

7) Minimum interval time between 2 tripping operations.

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

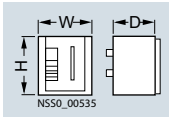
9) Motorized operating mechanism $U_{imp}=1.2$ kV

Air Circuit Breakers

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

General data

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



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	3WL12 20	3WL12 25	3WL12 32	3WL12 40	3WL13 40	3WL13 50	3WL13 63	
Number of poles	3-pole, 4-pole							
Rated current I_n at 40 °C, at 50/60 Hz								
Main conductor	A 2000	2500	3200	4000	4000	5000	6300	
N conductor (only on 4-pole versions)	A 2000	2500	3200	4000	4000	5000	6300	
Rated operational voltage U_e at 50/60 Hz (1000 V version, see page 1/48 "Options")	V AC ...	...	...	...	...	...	...
	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	690/1000	
Rated insulation voltage U_i	V AC 1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage U_{imp}								
• Main conducting paths	kV 12	12	12	12	12	12	12	
• Auxiliary circuits	kV 4	4	4	4	4	4	4	
• Control circuits ¹⁰⁾	kV 2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Isolating function acc. to EN 60947-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Utilization category	B							
Permissible ambient temperature								
• During operation (in operation with LCD max. 55 °C) ¹⁾	°C -25/+70	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70	-25/+70	
• Storage	°C -40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	-40/+70	
Permissible load for withdrawable versions^{2) 4)}								
• Up to 55 °C (Cu, bare)	A 2000	2500	3200	3950	4000	5000	5920	
• Up to 60 °C (Cu, bare)	A 2000	2500	3020	3810	4000	5000	5810	
• Up to 70 °C (Cu black, painted)	A 2000	2280	2870	3600	4000	5000	5500	
Rated rotor operational voltage U_{er}	V 2000	2000	2000	2000	2000	2000	2000	
Power loss at I_n								
With three-phase symmetrical load								
• Fixed-mounted circuit breakers	W 180	270	410	750	520	630	900	
• Withdrawable circuit breakers	W 320	520	710	925	810	1050	1600	
Switching times								
• Make time	ms 35	35	35	35	35	35	35	
• Opening time	ms 34	34	34	34	34	34	34	
• Electrical make time (through closing coil) ⁵⁾	ms 100	100	100	100	100	100	100	
• Electrical opening time (through shunt release)	ms 73	73	73	73	73	73	73	
• Electrical opening time (instantaneous undervoltage release)	ms 73	73	73	73	73	73	73	
• Opening time due to ETU, instantaneous short-circuit release	ms 50	50	50	50	50	50	50	
Service life: Breaking capacity N, S and H¹¹⁾								
• Mechanical (without maintenance)	Operating cycles 10000	10000	10000	10000	5000	5000	5000	
• Mechanical (with maintenance) ⁶⁾	Operating cycles 15000	15000	15000	15000	10000	10000	10000	
• Electrical (without maintenance) up to 690 V	Operating cycles 7500	7500	4000	2000	2000	2000	2000	
• 1000 V version, electrical (without maintenance)	Operating cycles 1000	1000	1000	1000	1000	1000	1000	
• 1150 V version, electrical ⁷⁾ (without maintenance)	Operating cycles 500	500	500	500	500	500	500	
• Electrical (with maintenance) ⁶⁾	Operating cycles 15000	15000	15000	15000	10000	10000	10000	
Service life: Breaking capacity C								
• Mechanical (without maintenance)	Operating cycles 5000	5000	5000	--	5000	5000	5000	
• Mechanical (with maintenance) ⁶⁾	Operating cycles 10000	10000	10000	--	10000	10000	10000	
• Electrical (without maintenance) up to 690 V	Operating cycles 5000	5000	4000	--	1000	1000	1000	
• Electrical (without maintenance) up to 1150 V	Operating cycles --	--	--	--	500	500	500	
• Electrical (with maintenance) up to 690 V ⁶⁾	Operating cycles 10000	10000	8000	--	--	--	--	
Switching frequency⁸⁾								
• 690 V version	1/h 60 ⁹⁾	60 ⁹⁾	60 ⁹⁾	60 ⁹⁾	60	60	60	
• 1000 V version	1/h 20	20	20	20	20	20	20	
• 1150 V version ⁷⁾	1/h 20	20	20	20	20	20	20	
Minimum interval between tripping operation by Electronic Trip Unit and next making operation of the circuit breaker (only with automatic mechanical resetting of the lockout device).	ms 80	80	80	80	80	80	80	
Minimum interval between On-Off or Off-On switching operations.								

1) Use of trip units from -20 °C.

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

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

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

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

7) Size II with order code "A15" and size III: data for very high breaking capacity.

8) Minimum interval time between 2 tripping operations.

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

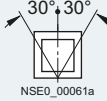
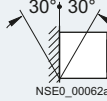
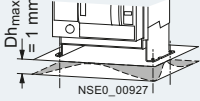
10) Motorized operating mechanism $U_{imp} = 1.2$ kV

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

Air Circuit Breakers

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

General data

Size	II				III				
Type	3WL12 20	3WL12 25	3WL12 32	3WL12 40	3WL13 40	3WL13 50	3WL13 63		
Mounting position	 NSE0_00061a		and/or	 NSE0_00062a		 NSE0_009271			
Degree of protection	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover								
Main conductor minimum cross-sections	<ul style="list-style-type: none"> Copper bars, bare 	<ul style="list-style-type: none"> Copper bars, painted black 							
	Unit(s)	3 ×	2 ×	3 ×	4 ×	4 ×	6 ×	6 ×	
	mm ²	50 × 10	100 × 10	100 × 10	120 × 10	100 × 10	100 × 10	120 × 10	
	Unit(s)	3 ×	2 ×	3 ×	4 ×	4 ×	6 ×	6 ×	
	mm ²	50 × 10	100 × 10	100 × 10	100 × 10 ¹⁾	100 × 10	100 × 10	120 × 10	
Auxiliary conductors (Cu)	Standard connection = strain-relief clamp								
Max. number of auxiliary conductors × cross-section (solid/stranded)	<ul style="list-style-type: none"> Without end sleeve With end sleeve acc. to DIN 46228 Part 2 With twin end sleeve 								
	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14)								
	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)								
	Optional connection = tension spring								
	<ul style="list-style-type: none"> Without end sleeve With end sleeve acc. to DIN 46228 Part 2 								
	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	<ul style="list-style-type: none"> Fixed-mounted circuit breakers Withdrawable circuit breakers Guide frames 	kg	56	59	64	85	82	82	90
4-pole	<ul style="list-style-type: none"> Fixed-mounted circuit breakers Withdrawable circuit breakers Guide frames 	kg	67	71	77	103	99	99	108
		kg	72	76	82	146	106	106	108
		kg	37	47	54	62	84	84	119
Dimensions 3-/4-pole		W mm	460/590				704/914		
	Fixed-mounted	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 ⁷⁾	C	H	H	C	C	C	C
Rated short-circuit breaking capacity																				
Rated operational voltage U_e up to 415 V AC																				
I_{cu}	kA	55	66	85	85	66	80	100	130	100	150	130	100	150	130	150	130	286	330	286
I_{cs}	kA	55	66	85	85	66	80	100	130	100	150	130	100	150	130	150	130	286	330	286
I_{cm}	kA	121	145	187	187	145	176	220	286	220	330	286	220	330	286	330	286	330	330	286
Rated operational voltage U_e up to 500 V AC																				
I_{cu}	kA	55	66	85	85	66	80	100	130	100	150	130	100	150	130	150	130	286	330	286
I_{cs}	kA	55	66	85	85	66	80	100	130	100	150	130	100	150	130	150	130	286	330	286
I_{cm}	kA	121	145	187	187	145	176	220	286	220	330	286	220	330	286	330	286	330	330	286
Rated operational voltage U_e up to 690 V AC																				
I_{cu}	kA	42	50	66	66	50	75	85	100	85	150	130	85	150	130	150	130	286	330	286
I_{cs}	kA	42	50	66	66	50	75	85	100	85	150	130	85	150	130	150	130	286	330	286
I_{cm}	kA	88	105	145	145	105	165	187	220	187	330	286	187	330	286	330	286	330	330	286
Rated operational voltage U_e up to 1000/1150 V AC																				
I_{cu}	kA	--	--	50 ⁵⁾	50 ⁵⁾	--	--	50	--	50	70 ⁴⁾	70 ⁴⁾	50	70 ⁴⁾	70 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾
I_{cs}	kA	--	--	50 ⁵⁾	50 ⁵⁾	--	--	50	--	50	70 ⁴⁾	70 ⁴⁾	50	70 ⁴⁾	70 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾
I_{cm}	kA	--	--	105 ⁵⁾	105 ⁵⁾	--	--	105	--	105	154 ⁴⁾	154 ⁴⁾	105	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾
Rated short-time withstand current																				
I_{cw} ³⁾																				
0.5 s	kA	55	66	75	75	66	80	100	100	100	100	100	100	100	100	100	100	100	100	100
1 s	kA	42	50	66	66	55	66	85	100	100	100	100	100	100	100	100	100	100	100	100
2 s	kA	29.5	35	46	46	39	46	65 ^{1)/70²⁾}	70	80	80	80	80	80	80	80	80	80	80	80
3 s	kA	24	29	44	44	32	44	50 ^{1)/65²⁾}	65	65	65	65	65	65	65	65	65	65	65	65
Rated conditional short-circuit current I_{cc} of the non-automatic air circuit breakers																				
Up to 500 V AC	kA	55	66	75	75	66	80	100	130	100	100	100	100	100	100	100	100	100	100	100
Up to 690 V AC	kA	42	50	66	66	50	75	85	100	85	100	100	85	100	100	100	100	100	100	100
Up to 1000 V/1150 V AC	kA	--	--	50 ⁵⁾	50 ⁵⁾	--	--	50 ⁴⁾	--	50 ⁶⁾	70 ⁴⁾	70 ⁴⁾	50 ⁶⁾	70 ⁴⁾	70 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾	154 ⁴⁾

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

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

Note:

For further technical specifications, see the configuration manual "Air Circuit Breakers". 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, Annex K.

- 4) Rated operational voltage $U_e = 1150$ V.
- 5) Values also apply to 690 V + 20% version with Z option "A16".
- 6) Rated operational voltage $U_e = 1000$ V.
- 7) Up to 3200 A rated current.

Air Circuit Breakers

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

General data

Size	I to III		
Type	3WL1		
Manual operating mechanism with mechanical closing			
Switching on/ Charging the energy store	Max. force required to operate the hand lever Required number of strokes on the hand lever	N	≤ 230 9
Manual operating mechanism with mechanical and electrical closing			
Charging the energy store			
Closing coil (CC)	• Primary operating range		0.85 ... 1.1 × U_s
	• Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 ... 1.26 × U_s
	• Rated control supply voltage U_s	50/60 Hz AC DC	V 110 ... 127; 208 ... 240 V 24; 30; 48; 60; 110 ... 125; 220 ... 250
	• Power consumption	AC/DC	VA/ W 15/15
	• Min. command duration at U_s for the closing coil		ms 60
	• Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		1 A TDz (slow)/1 A
Manual/motorized operating mechanism with mechanical and electrical closing			
Manual operating mechanism			
For data, see above.			
Motor	• Primary operating range		0.85 ... 1.1 × U_s
	• Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 ... 1.26 × U_s
	• Power consumption of motor	AC/DC	VA/ W 135/135
	• Time required to charge the spring energy store at 1 × U_s		s ≤ 10
Closing coil For motor and closing coil	For data, see above.		
	• Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; Motor and closing coil for same rated control supply voltages		6 A TDz (slow)/2 A
	• Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages)	At $U_s = 24 ... 30$ V At $U_s = 48 ... 60$ V At $U_s = 110 ... 125$ V DC/ 110 ... 127 V AC At $U_s = 220 ... 250$ V DC/ 208 ... 240 V AC	6 A 6 A 2 A 2 A
Signals of the Electronic Trip Unit			
Measuring accuracy of the Electronic Trip Unit			
Protection functions acc. to EN 60947; Current indication ≤ 10%; Metering function for base quantities ≤ 1%; Metering function for derived quantities ≤ 4%			
Auxiliary releases			
Undervoltage releases UVR (F3) and UVR-t_d (F4)	• Response values	Pickup Dropout	≥ 0.85 × U_s (circuit breaker can be closed) 0.35 ... 0.7 × U_s (circuit breaker is opened)
	• Primary operating range		0.85 ... 1.1
	• Extended operating range for battery operation	At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC	0.85 ... 1.26
	• Rated control supply voltage U_s	Instantaneous 50/60 Hz AC DC	V 110 ... 127/208 ... 240/380 ... 415 V 24/30/48/60/110 ... 125/220 ... 250 ¹⁾
		Delayed 50/60 Hz AC DC	V 110 ... 127; 208 ... 240; 380 ... 415 V 48; 110 ... 125; 220 ... 250
	• Power consumption (pickup/uninterrupted duty)	AC DC	VA 20/5 W 20/5
	• Opening time of the circuit breaker at $U_s = 0$		ms 200
	- Version UVR (F3)		
	Without delay		ms 80
	With delay		ms 200
	- Version UVR- t_d (F4)		
	With delay, $t_d = 0.2$ to 3.2 s		s 0.2 ... 3.2
	Reset through additional NC contact – direct tripping		ms ≤ 100
	• Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		1 A TDz (slow)/1 A

¹⁾ 24 V and 30 V only with undervoltage release UVR (F3).

Air Circuit Breakers

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

General data

1

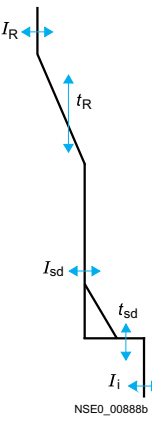
Size					I to III		
Type					3WL1		
Auxiliary releases							
Shunt releases (ST) (F1, F2)	<ul style="list-style-type: none"> For continuous command (100% OP), locks out on momentary-contact commands 	- Response value	Pickup		$> 0.7 \times U_s$ (circuit breaker is tripped)		
		- Primary operating range			$0.7 \dots 1.1 \times U_s$		
		- Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC			$0.7 \dots 1.26 \times U_s$	
		- Rated control supply voltage U_s	50/60 Hz AC DC	V	110 ... 127; 208 ... 240 24; 30; 48; 60; 110 ... 125; 220 ... 250		
		- Power consumption	AC/DC	VA/W	15/15		
		- Min. command duration at U_s		ms	60		
		- Opening time of the circuit breaker at $U_s = 100\%$	At AC/DC	ms	80		
		- Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic				1 A TDz (slow)/1 A	
		5% ON period	- Response value	Pickup		$> 0.7 \times U_s$ (circuit breaker is tripped)	
			- Primary operating range			$0.7 \dots 1.1 \times U_s$	
			- Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC		$0.7 \dots 1.26 \times U_s$	
			- Rated control supply voltage U_s	50/60 Hz AC DC	V	110 ... 127; 208 ... 240 24; 48; 110 ... 125; 220 ... 250	
		<ul style="list-style-type: none"> With spring energy store consisting of shunt release and capacitor storage device 	- Rated control supply voltage U_s	50/60 Hz AC DC	V	110; 230 110; 220	
- Primary operating range				$0.85 \dots 1.1 \times U_s$			
- Power consumption	AC/DC		VA/W	1/1			
- Storage time at U_s / Recharging time at U_s					max. 5 min/min. 5 s		
- Opening time of the circuit breaker, short-circuit protection					As with "for continuous command"		
Remote reset solenoid for mechanical tripped indicator (F7)							
Remote reset solenoid for mechanical tripped indicator (F7)	- Primary operating range					$0.85 \dots 1.1 \times U_s$	
	- Extended operating range for battery operation		At 24 V DC, 48 V DC 110 V DC 220 V DC			$0.7 \dots 1.26 \times U_s$	
	- Power consumption		AC/DC	VA/W	50/50		
	- Min. command duration at U_s for the remote reset solenoid			ms	60		
	- Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic					2 A TDz (slow)/1 A at 24 V DC and 48 V DC, 1 A TDz (slow)/1 A at 110 V and 208 ... 250 V	
Contact position-driven auxiliary switches (S1, S2, S3, S4, S7, S8)							
Rated insulation voltage U_i				V	500		
			AC/DC				
Rated operational voltage U_e			V	500			
			AC/DC				
Rated impulse withstand voltage U_{imp}			kV	4			
Breaking capacity	<ul style="list-style-type: none"> Alternating current 50/60 Hz 	- Rated operational voltage U_e	V	24 ... 230	380/400	500	
		- Rated operational current $I_e/AC-12$ $I_e/AC-15$	A	10	10	10	
			A	4	3	2	
	<ul style="list-style-type: none"> Direct current 	- Rated operational voltage U_e	V	24	48	110	220
		- Rated operational current $I_e/DC-12$ $I_e/DC-13$	A	10	8	3.5	1
			A	8	4	1.2	0.4
Short-circuit protection	<ul style="list-style-type: none"> Largest permissible DIAZED fuse (operational class gL) Largest permissible miniature circuit breaker with C characteristic 				10 A TDz, 10 A Dz 10 A		

Air Circuit Breakers

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

General data

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

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

Delay time figures given in ms.
 M = Motor protection, corresponds to 20 ms
 D = Rotary protection switch
 D & S = Rotary coding and slide switch
 K = Communication
 M/K = Menu/Communication

✓ Available.
 -- Not available.
 □ optional.

For setting range of the operating current I_g , see page 1/18.

Air Circuit Breakers

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

General data

1

Protection functions Parameterization by	ETU45B D & S	ETU76B M/K
Function overview of the electronic trip system		
Overload protection	✓	✓
Function can be switched on/off	--	✓
Setting range $I_R = I_n \times \dots$	0.4-0.45-0.5-0.55-0.6- 0.65-0.7-0.8-0.9-1	0.4 ... 1
Switchable overload protection (I^2t - or I^At -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^At	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 $I_R = I_n \times \dots$	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	<input type="checkbox"/> Module can be retrofitted	<input type="checkbox"/> Module can be retrofitted
Tripping and alarm functions	✓	✓
Tripping function can be switched on/off	✓	✓
Alarm function can be switched on/off	--	✓
Detection of ground-fault current through summation current formation with internal or external N-conductor transformer	✓	✓
Detection of ground-fault current through external current transformer	✓	✓
Setting range of the operating current I_g for tripping	A-B-C-D-E	A ... E
Setting range of the operating current I_g for alarm	A-B-C-D-E	A ... E
Setting range of the delay time t_g	100-200-300-400-500 ms	100 ... 500 ms
Switchable ground-fault characteristic (I^2t -dependent function)	✓	✓
Setting range 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)	<input type="checkbox"/>	--
Graphical LCD (24 V, external power supply required)	--	✓
Self-monitoring / communication		
Watchdog-monitored	✓	✓
Communication-capable	✓	✓
Metering function		
Metering capability with metering function <i>Plus</i>	✓	✓
LED display		
Electronic Trip Unit active	✓	✓
Alarm	✓	✓
ETU fault	✓	✓
L tripping operation	✓	✓
S tripping operation	✓	✓
I tripping operation	✓	✓
N tripping operation	✓	✓
G tripping operation	✓ (only with ground-fault protection module)	✓ (only with ground-fault protection module)
G alarm	✓ (only with ground-fault protection module)	✓ (only with ground-fault protection module)
Tripping operation as a result of extended protection functions	✓	✓
Communication	✓	✓
Signals from signaling switches with external CubicleBUS modules (relays)		
Overload warning	✓	✓
Load shedding, load absorbing	✓	✓
Leading signal overload trip 200 ms	✓	✓
Temperature alarm	✓	✓
Phase unbalance	✓	✓
Instantaneous short-circuit trip	✓	✓
Short-time delayed short-circuit trip	✓	✓
Overload trip	✓	✓
Neutral conductor trip	✓	✓
Ground-fault protection trip	✓ (only with ground-fault protection module)	✓ (only with ground-fault protection module)
Ground-fault alarm	✓ (only with ground-fault protection module)	✓ (only with ground-fault protection module)
Auxiliary relay	✓	✓
ETU fault	✓	✓

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

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

Legend, see page 1/17.

Air Circuit Breakers

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

3-pole, fixed-mounted versions

1

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N N	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□32-□□□□ 3WL1108-2□□32-□□□□ 3WL1110-2□□32-□□□□ 3WL1112-2□□32-□□□□ 3WL1116-2□□32-□□□□ 3WL1120-2□□32-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□32-□□□□ 3WL1210-2□□32-□□□□ 3WL1212-2□□32-□□□□ 3WL1216-2□□32-□□□□ 3WL1220-2□□32-□□□□ 3WL1225-2□□32-□□□□ 3WL1232-2□□32-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
Vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□31-□□□□ 3WL1108-2□□31-□□□□ 3WL1110-2□□31-□□□□ 3WL1112-2□□31-□□□□ 3WL1116-2□□31-□□□□ 3WL1120-2□□31-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□31-□□□□ 3WL1210-2□□31-□□□□ 3WL1212-2□□31-□□□□ 3WL1216-2□□31-□□□□ 3WL1220-2□□31-□□□□ 3WL1225-2□□31-□□□□ 3WL1232-2□□31-□□□□ 3WL1240-2□□31-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/61.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N N	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.				
Front main circuit connection, single hole									
I	630 800 1000 1250 1600	630 800 1000 1250 1600	55		3WL1106-2□□33-□□□□ 3WL1108-2□□33-□□□□ 3WL1110-2□□33-□□□□ 3WL1112-2□□33-□□□□ 3WL1116-2□□33-□□□□		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□33-□□□□ 3WL1210-2□□33-□□□□ 3WL1212-2□□33-□□□□ 3WL1216-2□□33-□□□□ 3WL1220-2□□33-□□□□ 3WL1225-2□□33-□□□□ 3WL1232-2□□33-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
Front main circuit connection, double hole									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□34-□□□□ 3WL1108-2□□34-□□□□ 3WL1110-2□□34-□□□□ 3WL1112-2□□34-□□□□ 3WL1116-2□□34-□□□□ 3WL1120-2□□34-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□34-□□□□ 3WL1210-2□□34-□□□□ 3WL1212-2□□34-□□□□ 3WL1216-2□□34-□□□□ 3WL1220-2□□34-□□□□ 3WL1225-2□□34-□□□□ 3WL1232-2□□34-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/61.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Horizontal main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□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
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
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
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

Options			Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA	None
Electronic Trip Units	Versions without ground-fault protection		
	ETU15B: Protection functions LI ⁶⁾	BB	✓
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN ³⁾	EB	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB	✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LSING ⁴⁾	DG	✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2	None
	For further Article No. supplements, see page 1/47		

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61.

4) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Front main circuit connection, single hole									
I	630 800 1000 1250 1600	630 800 1000 1250 1600	66		3WL1106-3□□33-□□□□ 3WL1108-3□□33-□□□□ 3WL1110-3□□33-□□□□ 3WL1112-3□□33-□□□□ 3WL1116-3□□33-□□□□		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□33-□□□□ 3WL1210-3□□33-□□□□ 3WL1212-3□□33-□□□□ 3WL1216-3□□33-□□□□ 3WL1220-3□□33-□□□□ 3WL1225-3□□33-□□□□ 3WL1232-3□□33-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
Front main circuit connection, double hole									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□34-□□□□ 3WL1108-3□□34-□□□□ 3WL1110-3□□34-□□□□ 3WL1112-3□□34-□□□□ 3WL1116-3□□34-□□□□ 3WL1120-3□□34-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□34-□□□□ 3WL1210-3□□34-□□□□ 3WL1212-3□□34-□□□□ 3WL1216-3□□34-□□□□ 3WL1220-3□□34-□□□□ 3WL1225-3□□34-□□□□ 3WL1232-3□□34-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁶⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO For further Article No. supplements, see page 1/47	1AA2 None

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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 1/61.

4) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H	H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Horizontal main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□32-□□□□ 3WL1108-4□□32-□□□□ 3WL1110-4□□32-□□□□ 3WL1112-4□□32-□□□□ 3WL1116-4□□32-□□□□ 3WL1120-4□□32-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□32-□□□□ 3WL1210-4□□32-□□□□ 3WL1212-4□□32-□□□□ 3WL1216-4□□32-□□□□ 3WL1220-4□□32-□□□□ 3WL1225-4□□32-□□□□ 3WL1232-4□□32-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	100		3WL1340-4□□32-□□□□ 3WL1350-4□□32-□□□□		1 1	1 unit 1 unit	1CA 1CA
Vertical main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□31-□□□□ 3WL1108-4□□31-□□□□ 3WL1110-4□□31-□□□□ 3WL1112-4□□31-□□□□ 3WL1116-4□□31-□□□□ 3WL1120-4□□31-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□31-□□□□ 3WL1210-4□□31-□□□□ 3WL1212-4□□31-□□□□ 3WL1216-4□□31-□□□□ 3WL1220-4□□31-□□□□ 3WL1225-4□□31-□□□□ 3WL1232-4□□31-□□□□ 3WL1240-4□□31-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□31-□□□□ 3WL1350-4□□31-□□□□ 3WL1363-4□□31-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Options									
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units				AA		None		
Electronic Trip Units	Versions without ground-fault protection								
	ETU15B: Protection functions LI ⁶⁾				BB		✓		
	ETU25B: Protection functions LSI				CB		✓		
	ETU45B: Protection functions LSIN ³⁾				EB		✓		
	ETU45B: Protection functions LSIN ³⁾ with 4-line display				FB		✓		
	ETU76B: Protection functions LSIN ³⁾ with full graphics display				NB		✓		
	Versions with ground-fault protection								
	ETU27B: Protection functions LSING ⁴⁾				DG		✓		
	ETU45B: Protection functions LSING ³⁾⁵⁾				EG		✓		
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display				FG		✓		
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display				NG		✓		
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					1AA2		None	
	For further Article No. supplements, see page 1/47								

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61.

4) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?ArticleNo.				
Front main circuit connection, single hole									
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□33-□□□□ 3WL1210-4□□33-□□□□ 3WL1212-4□□33-□□□□ 3WL1216-4□□33-□□□□ 3WL1220-4□□33-□□□□ 3WL1225-4□□33-□□□□ 3WL1232-4□□33-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□33-□□□□		1	1 unit	1CA
Front main circuit connection, double hole									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□34-□□□□ 3WL1108-4□□34-□□□□ 3WL1110-4□□34-□□□□ 3WL1112-4□□34-□□□□ 3WL1116-4□□34-□□□□ 3WL1120-4□□34-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□34-□□□□ 3WL1210-4□□34-□□□□ 3WL1212-4□□34-□□□□ 3WL1216-4□□34-□□□□ 3WL1220-4□□34-□□□□ 3WL1225-4□□34-□□□□ 3WL1232-4□□34-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□34-□□□□		1	1 unit	1CA
Options									
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units				AA			None	
Electronic Trip Units	Versions without ground-fault protection								
	ETU15B: Protection functions LI ⁶⁾				BB				✓
	ETU25B: Protection functions LSI				CB				✓
	ETU45B: Protection functions LSIN ³⁾				EB				✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display				FB				✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display				NB				✓
	Versions with ground-fault protection								
	ETU27B: Protection functions LSING ⁴⁾				DG				✓
	ETU45B: Protection functions LSING ³⁾⁵⁾				EG				✓
	ETU45B: Protection functions LSING ³⁾⁵⁾ with 4-line display				FG				✓
	ETU76B: Protection functions LSING ³⁾⁵⁾ with full graphics display				NG				✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					1AA2		None	
	For further Article No. supplements, see page 1/47								

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61.

4) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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_{Nmax}	Rated current ¹⁾ I_N	Breaking capacity $I_{cu} = I_{cs}$	SD	<div style="background-color: #f4a460; padding: 2px;">I_{cu} 130/150 kA at 500 V, very high breaking capacity C</div> <div style="padding: 2px;">Article No. www.siemens.com/product?Article No.</div>	<div style="border: 1px solid black; border-radius: 50%; width: 15px; height: 15px; display: flex; align-items: center; justify-content: center;">C</div>	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d		Basic price per PU			
Horizontal main circuit connection									
II	1600	1600	130		3WL1216-5□□32-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-5□□32-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-5□□32-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-5□□32-□□□□		1	1 unit	1CA
III	4000	4000	150		3WL1340-5□□32-□□□□		1	1 unit	1CA
	5000	5000			3WL1350-5□□32-□□□□		1	1 unit	1CA
Vertical main circuit connection									
II	1600	1600	130		3WL1216-5□□31-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-5□□31-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-5□□31-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-5□□31-□□□□		1	1 unit	1CA
III	4000	4000	150		3WL1340-5□□31-□□□□		1	1 unit	1CA
	5000	5000			3WL1350-5□□31-□□□□		1	1 unit	1CA
	6300	6300			3WL1363-5□□31-□□□□		1	1 unit	1CA
Options									
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units				AA			None	
Electronic Trip Units	Versions without ground-fault protection								
	ETU15B: Protection functions LI ³⁾				BB			✓	
	ETU25B: Protection functions LSI				CB			✓	
	ETU45B: Protection functions LSIN ⁴⁾				EB			✓	
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display				FB			✓	
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display				NB			✓	
	Versions with ground-fault protection								
	ETU27B: Protection functions LSING ⁵⁾				DG			✓	
	ETU45B: Protection functions LSING ⁴⁾⁶⁾				EG			✓	
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display				FG			✓	
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display				NG			✓	
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				1AA2			None	
	For further Article No. supplements, see page 1/47								

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

²⁾ 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 1/61.

⁵⁾ Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

⁶⁾ ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

Air Circuit Breakers

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

3-pole, withdrawable versions

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS	PG
A	A	kA	d		Article No. www.siemens.com/product?Article.No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□35-□□□□ 3WL1108-2□□35-□□□□ 3WL1110-2□□35-□□□□ 3WL1112-2□□35-□□□□ 3WL1116-2□□35-□□□□ 3WL1120-2□□35-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□35-□□□□ 3WL1210-2□□35-□□□□ 3WL1212-2□□35-□□□□ 3WL1216-2□□35-□□□□ 3WL1220-2□□35-□□□□ 3WL1225-2□□35-□□□□ 3WL1232-2□□35-□□□□ 3WL1240-2□□35-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
With guide frames, horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□36-□□□□ 3WL1108-2□□36-□□□□ 3WL1110-2□□36-□□□□ 3WL1112-2□□36-□□□□ 3WL1116-2□□36-□□□□ 3WL1120-2□□36-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□36-□□□□ 3WL1210-2□□36-□□□□ 3WL1212-2□□36-□□□□ 3WL1216-2□□36-□□□□ 3WL1220-2□□36-□□□□ 3WL1225-2□□36-□□□□ 3WL1232-2□□36-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61.

5) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

6) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
With guide frames, vertical main circuit connection									
I	630	630	55		3WL1106-2□□37-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□37-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□37-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□37-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□37-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-2□□37-□□□□		1	1 unit	1CA
II	800	800	66		3WL1208-2□□37-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□37-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□37-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□37-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□37-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□37-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□37-□□□□		1	1 unit	1CA
	4000	4000			3WL1240-2□□37-□□□□		1	1 unit	1CA
	With guide frames, connecting flanges								
I	630	630	55		3WL1106-2□□38-□□□□		1	1 unit	1CA
	800	800			3WL1108-2□□38-□□□□		1	1 unit	1CA
	1000	1000			3WL1110-2□□38-□□□□		1	1 unit	1CA
	1250	1250			3WL1112-2□□38-□□□□		1	1 unit	1CA
	1600	1600			3WL1116-2□□38-□□□□		1	1 unit	1CA
	2000	2000			3WL1120-2□□38-□□□□		1	1 unit	1CA
II	800	800	66		3WL1208-2□□38-□□□□		1	1 unit	1CA
	1000	1000			3WL1210-2□□38-□□□□		1	1 unit	1CA
	1250	1250			3WL1212-2□□38-□□□□		1	1 unit	1CA
	1600	1600			3WL1216-2□□38-□□□□		1	1 unit	1CA
	2000	2000			3WL1220-2□□38-□□□□		1	1 unit	1CA
	2500	2500			3WL1225-2□□38-□□□□		1	1 unit	1CA
	3200	3200			3WL1232-2□□38-□□□□		1	1 unit	1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61.

5) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

6) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□35-□□□□ 3WL1108-3□□35-□□□□ 3WL1110-3□□35-□□□□ 3WL1112-3□□35-□□□□ 3WL1116-3□□35-□□□□ 3WL1120-3□□35-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	80		3WL1208-3□□35-□□□□ 3WL1210-3□□35-□□□□ 3WL1212-3□□35-□□□□ 3WL1216-3□□35-□□□□ 3WL1220-3□□35-□□□□ 3WL1225-3□□35-□□□□ 3WL1232-3□□35-□□□□ 3WL1240-3□□35-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
With guide frames, horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□36-□□□□ 3WL1108-3□□36-□□□□ 3WL1110-3□□36-□□□□ 3WL1112-3□□36-□□□□ 3WL1116-3□□36-□□□□ 3WL1120-3□□36-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□36-□□□□ 3WL1210-3□□36-□□□□ 3WL1212-3□□36-□□□□ 3WL1216-3□□36-□□□□ 3WL1220-3□□36-□□□□ 3WL1225-3□□36-□□□□ 3WL1232-3□□36-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61.

⁵⁾ Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.


⁶⁾ For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61.

5) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

6) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.				
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)									
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 unit	1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□35-□□□□ 3WL1210-4□□35-□□□□ 3WL1212-4□□35-□□□□ 3WL1216-4□□35-□□□□ 3WL1220-4□□35-□□□□ 3WL1225-4□□35-□□□□ 3WL1232-4□□35-□□□□ 3WL1240-4□□35-□□□□		1	1 unit	1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□35-□□□□ 3WL1350-4□□35-□□□□ 3WL1363-4□□35-□□□□		1	1 unit	1CA
With guide frames, horizontal main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□36-□□□□ 3WL1108-4□□36-□□□□ 3WL1110-4□□36-□□□□ 3WL1112-4□□36-□□□□ 3WL1116-4□□36-□□□□ 3WL1120-4□□36-□□□□		1	1 unit	1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□36-□□□□ 3WL1210-4□□36-□□□□ 3WL1212-4□□36-□□□□ 3WL1216-4□□36-□□□□ 3WL1220-4□□36-□□□□ 3WL1225-4□□36-□□□□ 3WL1232-4□□36-□□□□		1	1 unit	1CA
III	4000 5000	4000 5000	100		3WL1340-4□□36-□□□□ 3WL1350-4□□36-□□□□		1	1 unit	1CA
Options									
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units				AA		None		
Electronic Trip Units	Versions without ground-fault protection								
	ETU15B: Protection functions LI ⁷⁾				BB		✓		
	ETU25B: Protection functions LSI				CB		✓		
	ETU45B: Protection functions LSIN ⁴⁾				EB		✓		
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display				FB		✓		
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display				NB		✓		
	Versions with ground-fault protection								
	ETU27B: Protection functions LSING ⁵⁾				DG		✓		
	ETU45B: Protection functions LSING ⁴⁾⁶⁾				EG		✓		
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display				FG		✓		
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display				NG		✓		
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					1AA2		None	
	For further Article No. supplements, see page 1/47								

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61.

⁵⁾ Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

⁶⁾ For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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_{Nmax}	Rated current ¹⁾ I_N	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
With guide frames, vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□37-□□□□ 3WL1108-4□□37-□□□□ 3WL1110-4□□37-□□□□ 3WL1112-4□□37-□□□□ 3WL1116-4□□37-□□□□ 3WL1120-4□□37-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□37-□□□□ 3WL1210-4□□37-□□□□ 3WL1212-4□□37-□□□□ 3WL1216-4□□37-□□□□ 3WL1220-4□□37-□□□□ 3WL1225-4□□37-□□□□ 3WL1232-4□□37-□□□□ 3WL1240-4□□37-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□37-□□□□ 3WL1350-4□□37-□□□□ 3WL1363-4□□37-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□38-□□□□ 3WL1108-4□□38-□□□□ 3WL1110-4□□38-□□□□ 3WL1112-4□□38-□□□□ 3WL1116-4□□38-□□□□ 3WL1120-4□□38-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□38-□□□□ 3WL1210-4□□38-□□□□ 3WL1212-4□□38-□□□□ 3WL1216-4□□38-□□□□ 3WL1220-4□□38-□□□□ 3WL1225-4□□38-□□□□ 3WL1232-4□□38-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□38-□□□□	1	1 unit	1CA
Options								
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units				AA	None		
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI ⁷⁾				BB			✓
	ETU25B: Protection functions LSI				CB			✓
	ETU45B: Protection functions LSIN ⁴⁾				EB			✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display				FB			✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display				NB			✓
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ⁵⁾				DG			✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾				EG			✓
	ETU45B: Protection functions LSING ⁴⁾⁶⁾ with 4-line display				FG			✓
	ETU76B: Protection functions LSING ⁴⁾⁶⁾ with full graphics display				NG			✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				1AA2	None		
	For further Article No. supplements, see page 1/47							

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61.

5) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

6) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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

Size	Max. rated circuit breaker current $I_{n\max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 130/150 kA at 500 V, very high breaking capacity C	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.				
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)									
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	unit unit unit unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		3WL1340-5□□35-□□□□ 3WL1350-5□□35-□□□□ 3WL1363-5□□35-□□□□		1 1 1	unit unit unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection									
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□36-□□□□ 3WL1220-5□□36-□□□□ 3WL1225-5□□36-□□□□ 3WL1232-5□□36-□□□□		1 1 1 1	unit unit unit unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	150		3WL1340-5□□36-□□□□ 3WL1350-5□□36-□□□□		1 1	unit unit	1CA 1CA
With guide frames, vertical main circuit connection									
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□37-□□□□ 3WL1220-5□□37-□□□□ 3WL1225-5□□37-□□□□ 3WL1232-5□□37-□□□□		1 1 1 1	unit unit unit unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	150		3WL1340-5□□37-□□□□ 3WL1350-5□□37-□□□□ 3WL1363-5□□37-□□□□		1 1 1	unit unit unit	1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁴⁾	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁵⁾	EB ✓
	ETU45B: Protection functions LSIN ⁵⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁵⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁶⁾	DG ✓
	ETU45B: Protection functions LSING ⁵⁾⁷⁾	EG ✓
	ETU45B: Protection functions LSING ⁵⁾⁷⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁵⁾⁷⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61.

6) Current transformers for protection of the N-conductor are to be ordered separately, see page 1/61.

7) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

Air Circuit Breakers

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

4-pole, fixed-mounted versions

1

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□42-□□□□ 3WL1108-2□□42-□□□□ 3WL1110-2□□42-□□□□ 3WL1112-2□□42-□□□□ 3WL1116-2□□42-□□□□ 3WL1120-2□□42-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL1208-2□□42-□□□□ 3WL1210-2□□42-□□□□ 3WL1212-2□□42-□□□□ 3WL1216-2□□42-□□□□ 3WL1220-2□□42-□□□□ 3WL1225-2□□42-□□□□ 3WL1232-2□□42-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
Vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL1106-2□□41-□□□□ 3WL1108-2□□41-□□□□ 3WL1110-2□□41-□□□□ 3WL1112-2□□41-□□□□ 3WL1116-2□□41-□□□□ 3WL1120-2□□41-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL1208-2□□41-□□□□ 3WL1210-2□□41-□□□□ 3WL1212-2□□41-□□□□ 3WL1216-2□□41-□□□□ 3WL1220-2□□41-□□□□ 3WL1225-2□□41-□□□□ 3WL1232-2□□41-□□□□ 3WL1240-2□□41-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ³⁾	EB ✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	DG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	EG ✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

²⁾ 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

⁴⁾ For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	✓
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ³⁾	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

4) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Horizontal main circuit connection								
I	630	630	66		3WL1106-3□□42-□□□□		1	1 unit 1CA
	800	800			3WL1108-3□□42-□□□□		1	1 unit 1CA
	1000	1000			3WL1110-3□□42-□□□□		1	1 unit 1CA
	1250	1250			3WL1112-3□□42-□□□□		1	1 unit 1CA
	1600	1600			3WL1116-3□□42-□□□□		1	1 unit 1CA
	2000	2000			3WL1120-3□□42-□□□□		1	1 unit 1CA
II	800	800	80		3WL1208-3□□42-□□□□		1	1 unit 1CA
	1000	1000			3WL1210-3□□42-□□□□		1	1 unit 1CA
	1250	1250			3WL1212-3□□42-□□□□		1	1 unit 1CA
	1600	1600			3WL1216-3□□42-□□□□		1	1 unit 1CA
	2000	2000			3WL1220-3□□42-□□□□		1	1 unit 1CA
	2500	2500			3WL1225-3□□42-□□□□		1	1 unit 1CA
	3200	3200			3WL1232-3□□42-□□□□		1	1 unit 1CA
							3WL1240-3□□42-□□□□	1	1 unit 1CA
Vertical main circuit connection								
I	630	630	66		3WL1106-3□□41-□□□□		1	1 unit 1CA
	800	800			3WL1108-3□□41-□□□□		1	1 unit 1CA
	1000	1000			3WL1110-3□□41-□□□□		1	1 unit 1CA
	1250	1250			3WL1112-3□□41-□□□□		1	1 unit 1CA
	1600	1600			3WL1116-3□□41-□□□□		1	1 unit 1CA
	2000	2000			3WL1120-3□□41-□□□□		1	1 unit 1CA
II	800	800	80		3WL1208-3□□41-□□□□		1	1 unit 1CA
	1000	1000			3WL1210-3□□41-□□□□		1	1 unit 1CA
	1250	1250			3WL1212-3□□41-□□□□		1	1 unit 1CA
	1600	1600			3WL1216-3□□41-□□□□		1	1 unit 1CA
	2000	2000			3WL1220-3□□41-□□□□		1	1 unit 1CA
	2500	2500			3WL1225-3□□41-□□□□		1	1 unit 1CA
	3200	3200			3WL1232-3□□41-□□□□		1	1 unit 1CA
	4000	4000			3WL1240-3□□41-□□□□		1	1 unit 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	✓
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ³⁾	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/47	

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

²⁾ 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

⁴⁾ For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	✓
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ³⁾	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

4) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?ArticleNo.	Basic price per PU		
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 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□42-□□□□ 3WL1210-4□□42-□□□□ 3WL1212-4□□42-□□□□ 3WL1216-4□□42-□□□□ 3WL1220-4□□42-□□□□ 3WL1225-4□□42-□□□□ 3WL1232-4□□42-□□□□	1	1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	100		3WL1340-4□□42-□□□□ 3WL1350-4□□42-□□□□	1	1 unit	1CA 1CA
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 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□41-□□□□ 3WL1210-4□□41-□□□□ 3WL1212-4□□41-□□□□ 3WL1216-4□□41-□□□□ 3WL1220-4□□41-□□□□ 3WL1225-4□□41-□□□□ 3WL1232-4□□41-□□□□ 3WL1240-4□□41-□□□□	1	1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□41-□□□□ 3WL1350-4□□41-□□□□ 3WL1363-4□□41-□□□□	1	1 unit	1CA 1CA 1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁵⁾	✓
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ³⁾	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	✓
	ETU76B: Protection functions LSIN ³⁾ with full graphics display	✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ³⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	✓
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/47	

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

²⁾ 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

⁴⁾ For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
Front main circuit connection, single hole								
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□43-□□□□ 3WL1210-4□□43-□□□□ 3WL1212-4□□43-□□□□ 3WL1216-4□□43-□□□□ 3WL1220-4□□43-□□□□ 3WL1225-4□□43-□□□□ 3WL1232-4□□43-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□43-□□□□	1	1 unit	1CA
Front main circuit connection, double hole								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□44-□□□□ 3WL1108-4□□44-□□□□ 3WL1110-4□□44-□□□□ 3WL1112-4□□44-□□□□ 3WL1116-4□□44-□□□□ 3WL1120-4□□44-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□44-□□□□ 3WL1210-4□□44-□□□□ 3WL1212-4□□44-□□□□ 3WL1216-4□□44-□□□□ 3WL1220-4□□44-□□□□ 3WL1225-4□□44-□□□□ 3WL1232-4□□44-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□44-□□□□	1	1 unit	1CA
Options								
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units				AA	None		
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI ⁵⁾				BB		✓	
	ETU25B: Protection functions LSI				CB		✓	
	ETU45B: Protection functions LSIN ³⁾				EB		✓	
	ETU45B: Protection functions LSIN ³⁾ with 4-line display				FB		✓	
	ETU76B: Protection functions LSIN ³⁾ with full graphics display				NB		✓	
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ³⁾				DG		✓	
	ETU45B: Protection functions LSING ³⁾⁴⁾				EG		✓	
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display				FG		✓	
	ETU76B: Protection functions LSING ³⁾⁴⁾ with full graphics display				NG		✓	
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				1AA2	None		
	For further Article No. supplements, see page 1/47							

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

2) 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

4) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 130/150 kA at 500 V, very high breaking capacity C	C	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Horizontal main circuit connection									
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□42-□□□□ 3WL1220-5□□42-□□□□ 3WL1225-5□□42-□□□□ 3WL1232-5□□42-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000	4000 5000	130		3WL1340-5□□42-□□□□ 3WL1350-5□□42-□□□□		1 1	1 unit 1 unit	1CA 1CA
Vertical main circuit connection									
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□41-□□□□ 3WL1220-5□□41-□□□□ 3WL1225-5□□41-□□□□ 3WL1232-5□□41-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	130		3WL1340-5□□41-□□□□ 3WL1350-5□□41-□□□□ 3WL1363-5□□41-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA

Options				Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	AA		None
Electronic Trip Units	Versions without ground-fault protection			
	ETU15B: Protection functions LI ³⁾	BB		✓
	ETU25B: Protection functions LSI	CB		✓
	ETU45B: Protection functions LSIN ⁴⁾	EB		✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB		✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB		✓
	Versions with ground-fault protection			
	ETU27B: Protection functions LSING ⁴⁾	DG		✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG		✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG		✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG		✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO		1AA2	None
	For further Article No. supplements, see page 1/47			

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

²⁾ 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

⁵⁾ For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

Air Circuit Breakers

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

4-pole, withdrawable versions

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU			
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)									
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
II	800 1000 1250 1600 2000 2500 3200 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
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
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

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	✓
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ⁴⁾	✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

5) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 55/66 kA at 500 V, ECO breaking capacity N N	Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d						
With guide frames, vertical main circuit connection										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55			3WL1106-2□□47-□□□□ 3WL1108-2□□47-□□□□ 3WL1110-2□□47-□□□□ 3WL1112-2□□47-□□□□ 3WL1116-2□□47-□□□□ 3WL1120-2□□47-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66			3WL1208-2□□47-□□□□ 3WL1210-2□□47-□□□□ 3WL1212-2□□47-□□□□ 3WL1216-2□□47-□□□□ 3WL1220-2□□47-□□□□ 3WL1225-2□□47-□□□□ 3WL1232-2□□47-□□□□ 3WL1240-2□□47-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
With guide frames, connecting flanges										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55			3WL1106-2□□48-□□□□ 3WL1108-2□□48-□□□□ 3WL1110-2□□48-□□□□ 3WL1112-2□□48-□□□□ 3WL1116-2□□48-□□□□ 3WL1120-2□□48-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66			3WL1208-2□□48-□□□□ 3WL1210-2□□48-□□□□ 3WL1212-2□□48-□□□□ 3WL1216-2□□48-□□□□ 3WL1220-2□□48-□□□□ 3WL1225-2□□48-□□□□ 3WL1232-2□□48-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA

Options			Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA	None
Electronic Trip Units	Versions without ground-fault protection		
	ETU15B: Protection functions LI	BB	✓
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN ⁴⁾	EB	✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB	✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB	✓
	Versions with ground-fault protection		
	ETU27B: Protection functions LSING ⁴⁾	DG	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG	✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG	✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2	None
	For further Article No. supplements, see page 1/47		

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

³⁾ For permissible rated short-time current I_{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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

⁵⁾ For ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S S	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)								
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 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	80		3WL1208-3□□45-□□□□ 3WL1210-3□□45-□□□□ 3WL1212-3□□45-□□□□ 3WL1216-3□□45-□□□□ 3WL1220-3□□45-□□□□ 3WL1225-3□□45-□□□□ 3WL1232-3□□45-□□□□ 3WL1240-3□□45-□□□□			1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA
With guide frames, horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□46-□□□□ 3WL1108-3□□46-□□□□ 3WL1110-3□□46-□□□□ 3WL1112-3□□46-□□□□ 3WL1116-3□□46-□□□□ 3WL1120-3□□46-□□□□			1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□46-□□□□ 3WL1210-3□□46-□□□□ 3WL1212-3□□46-□□□□ 3WL1216-3□□46-□□□□ 3WL1220-3□□46-□□□□ 3WL1225-3□□46-□□□□ 3WL1232-3□□46-□□□□			1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA 1 1 unit 1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	AA None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI	BB ✓
	ETU25B: Protection functions LSI	CB ✓
	ETU45B: Protection functions LSIN ⁴⁾	EB ✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB ✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB ✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁴⁾	DG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG ✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG ✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG ✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2 None
	For further Article No. supplements, see page 1/47	

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.


5) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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_{Nmax}	Rated current ¹⁾ I_N	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU			
With guide frames, vertical main circuit connection									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□47-□□□□ 3WL1108-3□□47-□□□□ 3WL1110-3□□47-□□□□ 3WL1112-3□□47-□□□□ 3WL1116-3□□47-□□□□ 3WL1120-3□□47-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	80		3WL1208-3□□47-□□□□ 3WL1210-3□□47-□□□□ 3WL1212-3□□47-□□□□ 3WL1216-3□□47-□□□□ 3WL1220-3□□47-□□□□ 3WL1225-3□□47-□□□□ 3WL1232-3□□47-□□□□ 3WL1240-3□□47-□□□□		1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
With guide frames, connecting flanges									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL1106-3□□48-□□□□ 3WL1108-3□□48-□□□□ 3WL1110-3□□48-□□□□ 3WL1112-3□□48-□□□□ 3WL1116-3□□48-□□□□ 3WL1120-3□□48-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL1208-3□□48-□□□□ 3WL1210-3□□48-□□□□ 3WL1212-3□□48-□□□□ 3WL1216-3□□48-□□□□ 3WL1220-3□□48-□□□□ 3WL1225-3□□48-□□□□ 3WL1232-3□□48-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
Options									
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units				AA		Additional price None		
Electronic Trip Units	Versions without ground-fault protection								
	ETU15B: Protection functions LI				BB				✓
	ETU25B: Protection functions LSI				CB				✓
	ETU45B: Protection functions LSIN ⁴⁾				EB				✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display				FB				✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display				NB				✓
	Versions with ground-fault protection								
	ETU27B: Protection functions LSING ⁴⁾				DG				✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾				EG				✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display				FG				✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display				NG				✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					1AA2			None
	For further Article No. supplements, see page 1/47								

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

5) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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 $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)								
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 unit	1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□45-□□□□ 3WL1210-4□□45-□□□□ 3WL1212-4□□45-□□□□ 3WL1216-4□□45-□□□□ 3WL1220-4□□45-□□□□ 3WL1225-4□□45-□□□□ 3WL1232-4□□45-□□□□ 3WL1240-4□□45-□□□□	1	1 unit	1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□45-□□□□ 3WL1350-4□□45-□□□□ 3WL1363-4□□45-□□□□	1	1 unit	1CA
With guide frames, horizontal main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□46-□□□□ 3WL1108-4□□46-□□□□ 3WL1110-4□□46-□□□□ 3WL1112-4□□46-□□□□ 3WL1116-4□□46-□□□□ 3WL1120-4□□46-□□□□	1	1 unit	1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□46-□□□□ 3WL1210-4□□46-□□□□ 3WL1212-4□□46-□□□□ 3WL1216-4□□46-□□□□ 3WL1220-4□□46-□□□□ 3WL1225-4□□46-□□□□ 3WL1232-4□□46-□□□□	1	1 unit	1CA
III	4000 5000	4000 5000	100		3WL1340-4□□46-□□□□ 3WL1350-4□□46-□□□□	1	1 unit	1CA

Options		AA	1AA2	Add. price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units			None
Electronic Trip Units	Versions without ground-fault protection			
	ETU15B: Protection functions LI ⁶⁾	BB		✓
	ETU25B: Protection functions LSI	CB		✓
	ETU45B: Protection functions LSIN ⁴⁾	EB		✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display	FB		✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display	NB		✓
	Versions with ground-fault protection			
	ETU27B: Protection functions LSING ⁴⁾	DG		✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾	EG		✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display	FG		✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display	NG		✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO		1AA2	None
	For further Article No. supplements, see page 1/47			

¹⁾ The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

³⁾ For permissible rated short-time current I_{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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

⁵⁾ For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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_{Nmax}	Rated current ¹⁾ I_N	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 85/100 kA at 500 V, high breaking capacity H H	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
With guide frames, vertical main circuit connection								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□47-□□□□ 3WL1108-4□□47-□□□□ 3WL1110-4□□47-□□□□ 3WL1112-4□□47-□□□□ 3WL1116-4□□47-□□□□ 3WL1120-4□□47-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	100		3WL1208-4□□47-□□□□ 3WL1210-4□□47-□□□□ 3WL1212-4□□47-□□□□ 3WL1216-4□□47-□□□□ 3WL1220-4□□47-□□□□ 3WL1225-4□□47-□□□□ 3WL1232-4□□47-□□□□ 3WL1240-4□□47-□□□□	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000 5000 6300	4000 5000 6300	100		3WL1340-4□□47-□□□□ 3WL1350-4□□47-□□□□ 3WL1363-4□□47-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges								
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL1106-4□□48-□□□□ 3WL1108-4□□48-□□□□ 3WL1110-4□□48-□□□□ 3WL1112-4□□48-□□□□ 3WL1116-4□□48-□□□□ 3WL1120-4□□48-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL1208-4□□48-□□□□ 3WL1210-4□□48-□□□□ 3WL1212-4□□48-□□□□ 3WL1216-4□□48-□□□□ 3WL1220-4□□48-□□□□ 3WL1225-4□□48-□□□□ 3WL1232-4□□48-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA 1CA 1CA 1CA
III	4000	4000	100		3WL1340-4□□48-□□□□	1	1 unit	1CA
Options								
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units				AA	None		
Electronic Trip Units	Versions without ground-fault protection							
	ETU15B: Protection functions LI ⁶⁾				BB			✓
	ETU25B: Protection functions LSI				CB			✓
	ETU45B: Protection functions LSIN ⁴⁾				EB			✓
	ETU45B: Protection functions LSIN ⁴⁾ with 4-line display				FB			✓
	ETU76B: Protection functions LSIN ⁴⁾ with full graphics display				NB			✓
	Versions with ground-fault protection							
	ETU27B: Protection functions LSING ⁴⁾				DG			✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾				EG			✓
	ETU45B: Protection functions LSING ⁴⁾⁵⁾ with 4-line display				FG			✓
	ETU76B: Protection functions LSING ⁴⁾⁵⁾ with full graphics display				NG			✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				1AA2	None		
	For further Article No. supplements, see page 1/47							

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.

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

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

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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.

5) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

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

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity $I_{cu} = I_{cs}$	SD	I_{cu} 130/150 kA at 500 V, very high breaking capacity C	PU (UNIT, SET, M)	PS	PG
	A	A	kA	d	Article No. www.siemens.com/product?Article No.	Basic price per PU		
Without guide frames²⁾ (for guide frames, see pages 1/55 to 1/60)								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□45-□□□□ 3WL1220-5□□45-□□□□ 3WL1225-5□□45-□□□□ 3WL1232-5□□45-□□□□		1 unit	1CA
III	4000 5000 6300	4000 5000 6300	130		3WL1340-5□□45-□□□□ 3WL1350-5□□45-□□□□ 3WL1363-5□□45-□□□□		1 unit	1CA
With guide frames, horizontal main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□46-□□□□ 3WL1220-5□□46-□□□□ 3WL1225-5□□46-□□□□ 3WL1232-5□□46-□□□□		1 unit	1CA
III	4000 5000	4000 5000	130		3WL1340-5□□46-□□□□ 3WL1350-5□□46-□□□□		1 unit	1CA
With guide frames, vertical main circuit connection								
II	1600 2000 2500 3200	1600 2000 2500 3200	130		3WL1216-5□□47-□□□□ 3WL1220-5□□47-□□□□ 3WL1225-5□□47-□□□□ 3WL1232-5□□47-□□□□		1 unit	1CA
III	4000 5000 6300	4000 5000 6300	130		3WL1340-5□□47-□□□□ 3WL1350-5□□47-□□□□ 3WL1363-5□□47-□□□□		1 unit	1CA

Options		Additional price
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU15B: Protection functions LI ⁴⁾	✓
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ⁵⁾	✓
	ETU45B: Protection functions LSIN ⁵⁾ with 4-line display	✓
	ETU76B: Protection functions LSIN ⁵⁾ with full graphics display	✓
	Versions with ground-fault protection	
	ETU27B: Protection functions LSING ⁵⁾	✓
	ETU45B: Protection functions LSING ⁵⁾⁶⁾	✓
	ETU45B: Protection functions LSING ⁵⁾⁶⁾ with 4-line display	✓
	ETU76B: Protection functions LSING ⁵⁾⁶⁾ with full graphics display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/47	

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, see page 1/48.
- 2) Z options which are installed on the guide frame are not available.
- 3) For permissible rated short-time current I_{cc} and rated short-circuit making capacity I_{cm} for non-automatic air circuit breakers, see page 1/13.

- 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 1/61. The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 1/50.
- 6) For ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/61.

Selection and ordering data

				Article No. supplement	Additional price
				3WL1...-.....- □□□□	
Operating mechanisms					
Manual operating mechanism with mechanical closing				1	None
Manual operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% OP					
50/60 Hz V AC	V DC				
110	110 ... 125			2	✓
230	220			3	✓
Manual/motorized operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% OP					
Motor	Closing coil				
50/60 Hz V AC	V DC	50/60 Hz V AC	V DC		
208 ... 240	220 ... 250	230	220	4	✓
110 ... 127	110 ... 125	110	110 ... 125	5	✓
--	24	--	24	6	✓
Note					
To order different voltages for motorized operating mechanism and closing coil or closing coil for synchronization purposes: "1" at the 13th digit of the Article No. and order codes, see page 1/49 .					
1st auxiliary release					
Type	Condition	U_s 50/60 Hz V AC	U_s V DC		
Without 1st auxiliary releases	--	--	--	A	None
Shunt release suitable for uninterrupted duty, 100% OP	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
2nd auxiliary release					
Type	Condition	U_s 50/60 Hz V AC	U_s V DC		
Without 2nd auxiliary releases	--	--	--	A	None
Shunt release suitable for uninterrupted duty, 100% OP	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
Undervoltage release, instantaneous (≤ 80 ms), short-delay (≤ 200 ms)	Operating range $0.85 \dots 1.1 \times U_s$	--	24	J	✓
		--	30	K	✓
		--	48	L	✓
		--	60	U	✓
		110 ... 127	110 ... 125	M	✓
		208 ... 240	220 ... 250	N	✓
Undervoltage release, can be delayed between 0.2 s and 3.2 s	Operating range $0.85 \dots 1.1 \times U_s$	380 ... 415	--	P	✓
		--	48	Q	✓
		110 ... 127	110 ... 125	R	✓
		208 ... 240	220 ... 250	S	✓
380 ... 415	--	T	✓		
Auxiliary switches					
1st auxiliary switch block					
2 NO + 2 NC				2	None
1st + 2nd auxiliary switch block					
4 NO + 4 NC				4	✓
6 NO + 2 NC				7	✓
5 NO + 3 NC				8	✓

Air Circuit Breakers

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

+...+...

Operating manuals						
Printed version	French/Italian		A 1 1		✓	
	Spanish/Portuguese		A 1 2		✓	
Rated voltage 1000 V AC and 690 V IT networks						
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		✓	
		Up to 2000 A	A 0 5		✓	
		2500 A	A 0 5		✓	
	II ¹⁾²⁾	3200 A / 4000 A	A 0 5		✓	✓
		4000 A	A 0 5		✓	✓
		5000 A	A 0 5		✓	✓
III ¹⁾³⁾	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)						
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 (not in conjunction with Electronic Trip Unit ETU15B). As standard the Electronic Trip Units are equipped with a rating plug which is equal to the maximum rated circuit breaker current ($I_{n,max}$). The rated current of the selected rating plug must be smaller than $I_{n,max}$.	I, II	250	B 0 2		None	
		315	B 0 3		None	
		400	B 0 4		None	
		500	B 0 5		None	
		630	B 0 6		None	
		800	B 0 8		None	
		1000	B 1 0		None	
	I, II, III	1250	B 1 2		None	
		1600	B 1 6		None	
		2000	B 2 0		None	
	II, III	2500	B 2 5		None	
		3200	B 3 2		None	
		4000	B 4 0		None	
	III	5000	B 5 0		None	
6300		B 6 3		None		

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

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

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

4) Front connections are tinned as standard.

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

Air Circuit Breakers

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

Options

1

		3WL.....-.....-Z	Additional price		
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).		<input type="checkbox"/> <input type="checkbox"/> +...+...			
Indication/operator control elements, door sealing frames					
5-digit mechanical operating cycles counter¹⁾		C 0 1	✓		
Electrical ON button S10 in the operator panel²⁾ Possible only for circuit breakers with closing coil.	Button with sealing cap	C 1 1	✓		
	Key operation with CES lock	C 1 2	✓		
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 mechanism 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 solenoids 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 solenoids 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 solenoids 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	✓

¹⁾ Only possible with motorized operating mechanism.

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

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

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

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

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

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

⁸⁾ Only possible with option "K07".

Air Circuit Breakers

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
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 metering functions					
Breaker Status Sensor (BSS)				F 0 1	✓
PROFIBUS DP communications interface²⁾	Including COM15 and breaker status sensor (BSS)			F 0 2	✓
MODBUS RTU communications interface²⁾	Including COM16 and breaker status sensor (BSS)			F 1 2	✓
Metering function <i>Plus</i> (without PROFIBUS/MODBUS communications interface³⁾				F 0 5	✓
Overload and short-circuit protection for neutral conductors					
Internal current transformer for N-conductor Only possible with 4-pole circuit breakers with ETU27B to ETU76B	Size				
	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	✓
Transformer (without iron core), Rogowski coil only NEW					
Transformer Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B • External 24 V DC supply required • Undervoltage release required Comprises: • 3 (3-pole) or 4 (4-pole) transformers • Warning signs • Manual	Number of poles	Size			
	3-pole	I		K 6 0	✓
		II		K 6 0	✓
		III		K 6 0	✓
	4-pole	I		K 6 0	✓
		II		K 6 0	✓
		III		K 6 0	✓

1) Padlocks not included in scope of supply.

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

3) Additional voltage transformers are required for connection of the metering function *Plus*, see page 1/70.

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
Locking devices (for fixed-mounted versions and withdrawable versions)			
Locking devices against unauthorized closing, in the operator panel The disconnecter unit fulfills the requirements for main circuit breakers according to EN 60204-1.	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 mechanism Not possible in combination with order codes "R81", "R85" or "R86".	To prevent opening of the cabinet door in ON position	S 3 0	✓
Locking mechanisms (for withdrawable versions)			
Locking mechanism 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 closing of circuit breaker with the cabinet door open ³⁾⁵⁾	R 4 0	✓
	To prevent movement with the cabinet door open ⁴⁾	R 5 0	✓
Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position , consisting of Bowden 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 Profalux	R 8 5	✓
	Made by Ronis	R 8 6	✓
Connection methods for auxiliary conductors (for fixed-mounted and withdrawable versions)			
Connections for screwless terminals (tension spring)	Version		
	Fixed-mounted	N 6 1	✓
	Withdrawable	P 6 1	✓

- 1) Locks must be ordered from the manufacturer
 2) Padlock not included in the scope of supply
 3) Not available in combination with R50
 4) Not available in combination with R40
 5) Combination with R81, R85 and R86 on request

Air Circuit Breakers

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 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	✓	✓	

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

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> +...+...	Additional price	
For 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	I	Up to 1600 A	N 1 1	✓	✓
Bottom: accessible from front, single hole	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	I	Up to 1600 A	N 2 0	✓	✓
Bottom: horizontal		Up to 2000 A	N 2 0	✓	✓
	II	Up to 2000 A	N 2 0	✓	✓
		Up to 2500 A	N 2 0	✓	✓
		Up to 3200 A	N 2 0	✓	✓
	III	Up to 4000 A	N 2 0	✓	✓
		Up to 5000 A	N 2 0		
Connection methods for main connections	Size	Rated current I_n			
Top: horizontal	I	Up to 1600 A	N 2 4	✓	✓
Bottom: vertical		Up to 2000 A	N 2 4	✓	✓
	II	Up to 2000 A	N 2 4	✓	✓
		Up to 2500 A	N 2 4	✓	✓
		Up to 3200 A	N 2 4	✓	✓
	III	Up to 4000 A	N 2 4	✓	✓
		Up to 5000 A	N 2 4	✓	✓

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

²⁾ Not for size III with very high breaking capacity C

Air Circuit Breakers

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

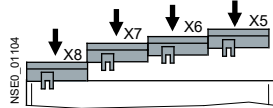
1

Accessories and spare parts

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
<ul style="list-style-type: none"> • Tripped signaling 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 1/55 to page 1/60 and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/66.

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 $I_{cu} = I_{cs}$	SD	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers Article No. www.siemens.com/ product?Article.No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	kA	d					
Front main circuit connection, single hole								
I	1000	... 66		3WL9211-1AA□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AA□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AA□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AA□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AA□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole								
I	1000	... 66		3WL9211-1AB□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AB□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AB□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AB□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AB□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AB□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection								
I	1000	... 66		3WL9211-1AC□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AC□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AC□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AC□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AC□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AC□□-□□A1		1	1 unit	1CA
	3200	... 130		3WL9212-5AC□□-□□C1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AC□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9213-7AC□□-□□A1		1	1 unit	1CA
	4000	... 150		3WL9213-6AC□□-□□C1		1	1 unit	1CA
	5000	... 150		3WL9213-7AC□□-□□C1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors	None		0					None
	1 connector		1					✓
	2 connectors		2					✓
	3 connectors		3					✓
	4 connectors		4					✓
Note								
For required number of auxiliary supply connectors, see table on page 1/54.								
Type of auxiliary circuit connections	None ²⁾		0					None
	With screw connection (SIGUT, standard)		1					✓
	With screwless connection method (tension spring)		2					✓
Position signaling switches	None		0					None
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO		1					✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		2					✓
Shutters	None		A					None
	With shutter, 2-part, lockable	Size I	B					✓
		Size II	B					✓
		Size III	B					✓

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

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

Air Circuit Breakers

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

1

Accessories and spare parts

	Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	3WL921-.....-Z □ □ □	Additional price
Rated voltage 1000 V AC and 690 V IT networks			
Size I (breaking capacity H)		A 0 5	✓
Size II (breaking capacity H), not for breaking capacities N, S and C		A 0 5	✓
Size III, not necessary with circuit breakers with very high breaking capacity		A 0 5	✓
Rated voltage 1150 V AC			
Size II, except breaking capacity C and 4000 A (breaking capacity H)		A 1 5	✓
Rated voltage 690 V AC (+ 20%)			
Size I (breaking capacity H)		A 1 6	✓
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection			
Size I		A 0 8	✓
Size II		A 0 8	✓
Size III		A 0 8	✓
Notes			
<ul style="list-style-type: none"> • For vertical main circuit connection and main circuit connection connecting flange, see the following page. • All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/48 to page 1/53. 			

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 $I_{cu} = I_{cs}$	SD	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	kA	d	Article No.: www.siemens.com/ product?Article No.				
Vertical main circuit connection								
I	1000	... 66		3WL9211-1AD□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AD□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AD□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AD□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AD□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AD□□-□□A1		1	1 unit	1CA
	3200	... 130		3WL9212-5AD□□-□□C1		1	1 unit	1CA
	4000	... 100		3WL9212-6AD□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AD□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9213-7AD□□-□□A1		1	1 unit	1CA
	6300	... 100		3WL9213-8AD□□-□□A1		1	1 unit	1CA
	4000	... 150		3WL9213-6AD□□-□□C1		1	1 unit	1CA
	5000	... 150		3WL9213-7AD□□-□□C1		1	1 unit	1CA
	6300	... 150		3WL9213-8AD□□-□□C1		1	1 unit	1CA
Main circuit connection connecting flanges								
I	1000	... 66		3WL9211-1AE□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2AE□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3AE□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3AE□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4AE□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5AE□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6AE□□-□□A1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors				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 1/54.								
Type of auxiliary circuit connections				None ⁴⁾	0			None
With screw connection (SIGUT, standard)					1			✓
With screwless connection method (tension spring)					2			✓
Position signaling switches				None	0			None
Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO					1			✓
Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO					2			✓
Shutters				None	A			None
With shutter, Size I					B			✓
2-part, Size II					B			✓
lockable, Size III					B			✓
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).					3WL921-.....-Z			Additional price
					□ □ □			
Rated voltage 1000 V AC and 690 V IT networks								
Size I (breaking capacity H)					A 0 5			✓
Size II (breaking capacity H), not for breaking capacities N, S and C					A 0 5			✓
Size III, not necessary with circuit breakers with very high breaking capacity					A 0 5			✓
Rated voltage 1150 V AC								
Size II, except breaking capacity C and 4000 A (breaking capacity H)					A 1 5			✓
Rated voltage 690 V AC (+ 20%)								
Size I (breaking capacity H)					A 1 6			✓
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection								
Size I					A 0 8			✓
Size II					A 0 8			✓
Size III					A 0 8			✓
Notes								
<ul style="list-style-type: none"> For vertical main circuit connection and main circuit connection connecting flange, see the following page. All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/48 to page 1/53. 								

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

2) Front connections are tinned as standard.

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

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

Air Circuit Breakers

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 $I_{n \max}$ A	Breaking capacity $I_{cu} = I_{cs}$ kA	SD d	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Front main circuit connection, single hole								
I	1000	... 66		3WL9211-1BA□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BA□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BA□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BA□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BA□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole								
I	1000	... 66		3WL9211-1BB□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BB□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BB□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BB□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BB□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BB□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection								
I	1000	... 66		3WL9211-1BC□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9211-2BC□□-□□A1		1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BC□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9212-3BC□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9212-4BC□□-□□A1		1	1 unit	1CA
	3200	... 100		3WL9212-5BC□□-□□A1		1	1 unit	1CA
	3200	... 130		3WL9212-5BC□□-□□C1		1	1 unit	1CA
III	4000	... 100		3WL9213-6BC□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9213-7BC□□-□□A1		1	1 unit	1CA
	4000	... 130		3WL9213-6BC□□-□□C1		1	1 unit	1CA
	5000	... 130		3WL9213-7BC□□-□□C1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors	None			0				None
	1 connector			1				✓
	2 connectors			2				✓
	3 connectors			3				✓
	4 connectors			4				✓
Note	For required number of auxiliary supply connectors, see table on page 1/54.							
Type of auxiliary circuit connections	None ²⁾			0				None
	With screw connection (SIGUT, standard)			1				✓
	With screwless connection method (tension spring)			2				✓
Position signaling switches	None			0				None
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO			1				✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO			2				✓
Shutters	None			A				None
	With shutter, 2-part, lockable	Size I		B				✓
		Size II		B				✓
		Size III		B				✓

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

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

Air Circuit Breakers

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

Accessories and spare parts

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	3WL921-.....-Z □ □ □	Additional price
Rated voltage 1000 V AC and 690 V IT networks		
Size I (breaking capacity H)	A 0 5	✓
Size II (breaking capacity H), not for breaking capacities N, S and C	A 0 5	✓
Size III, not necessary with circuit breakers with very high breaking capacity	A 0 5	✓
Rated voltage 1150 V AC		
Size II, except breaking capacity C and 4000 A (breaking capacity H)	A 1 5	✓
Rated voltage 690 V AC (+ 20%)		
Size I (breaking capacity H)	A 1 6	✓
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection		
Size I	A 0 8	✓
Size II	A 0 8	✓
Size III	A 0 8	✓
Notes		
<ul style="list-style-type: none"> • For vertical main circuit connection and main circuit connection connecting flange, see the following page. • All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/48 to page 1/53. 		

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 $I_{n\ max}$	Breaking capacity $I_{cu} = I_{cs}$	SD	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS	PG
	A	kA	d	Article No.: www.siemens.com/ product?Article No.	Basic price per PU		
Vertical main circuit connection							
I	1000	... 66		3WL9211-1BD□□-□□A1	1	1 unit	1CA
	1600	... 66		3WL9211-2BD□□-□□A1	1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BD□□-□□A1	1	1 unit	1CA
II	2000	... 100		3WL9212-3BD□□-□□A1	1	1 unit	1CA
	2500	... 100		3WL9212-4BD□□-□□A1	1	1 unit	1CA
	3200	... 100		3WL9212-5BD□□-□□A1	1	1 unit	1CA
	3200	... 130		3WL9212-5BD□□-□□C1	1	1 unit	1CA
	4000	... 100		3WL9212-6BD□□-□□A1	1	1 unit	1CA
III	4000	... 100		3WL9213-6BD□□-□□A1	1	1 unit	1CA
	5000	... 100		3WL9213-7BD□□-□□A1	1	1 unit	1CA
	6300	... 100		3WL9213-8BD□□-□□A1	1	1 unit	1CA
	4000	... 130		3WL9213-6BD□□-□□C1	1	1 unit	1CA
	5000	... 130		3WL9213-7BD□□-□□C1	1	1 unit	1CA
	6300	... 130		3WL9213-8BD□□-□□C1	1	1 unit	1CA
Main circuit connection connecting flanges							
I	1000	... 66		3WL9211-1BE□□-□□A1	1	1 unit	1CA
	1600	... 66		3WL9211-2BE□□-□□A1	1	1 unit	1CA
	2000 ¹⁾	... 85		3WL9211-3BE□□-□□A1	1	1 unit	1CA
II	2000	... 100		3WL9212-3BE□□-□□A1	1	1 unit	1CA
	2500	... 100		3WL9212-4BE□□-□□A1	1	1 unit	1CA
	3200	... 100		3WL9212-5BE□□-□□A1	1	1 unit	1CA
III	4000	... 100		3WL9213-6BE□□-□□A1	1	1 unit	1CA
Options							
Number of auxiliary supply connectors	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 1/54.						
Type of auxiliary circuit connections	None ⁴⁾		0		None		
	With screw connection (SIGUT, standard)		1		✓		
	With screwless connection method (tension spring)		2		✓		
Position signaling switches	None		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		✓		
				Add "-Z" to the complete Article No. and indicate the appropriate order code(s).	3WL921-.....-.....-Z	Additional price	
Rated voltage 1000 V AC and 690 V IT networks					□ □ □		
Size I (breaking capacity H)					A 0 5	✓	
Size II (breaking capacity H), not for breaking capacities N, S and C					A 0 5	✓	
Size III, not necessary with circuit breakers with very high breaking capacity					A 0 5	✓	
Rated voltage 1150 V AC							
Size II, except breaking capacity C and 4000 A (breaking capacity H)					A 1 5	✓	
Rated voltage 690 V AC (+ 20%)							
Size I (breaking capacity H)					A 1 6	✓	
Tinned version of the customer's connections on the guide frame¹⁾²⁾ Only for guide frames with horizontal connection or flange connection							
Size I					A 0 8	✓	
Size II					A 0 8	✓	
Size III					A 0 8	✓	
Notes							
<ul style="list-style-type: none"> For vertical main circuit connection and main circuit connection connecting flange, see the following page. All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/48 to page 1/53. 							

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

²⁾ Front connections are tinned as standard.

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

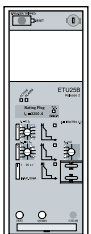
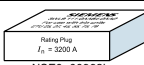


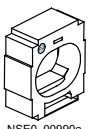
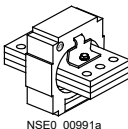
⁴⁾ Can only be selected if the number of auxiliary supply connectors = 0.

Air Circuit Breakers

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

Accessories and spare parts

1

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Protective device with device holder and optional metering function¹⁾						
 NSE0_01610b						
Type	With protection function	Metering function				
ETU15B	LI	None		1	1 unit	1CA
ETU25B	LSI	None		1	1 unit	1CA
ETU27B	LSING	None		1	1 unit	1CA
ETU45B (without display)	LSIN(G)	None		1	1 unit	1CA
		With metering function <i>Plus</i>		1	1 unit	1CA
ETU76B	LSIN(G)	None		1	1 unit	1CA
		With metering function <i>Plus</i>		1	1 unit	1CA
3WL931.-.AA.0-0AA1						
Rating plugs²⁾						
 NSE0_0092b						
Size		Rated current I_n A				
I, II		250		1	1 unit	1CA
		315		1	1 unit	1CA
		400		1	1 unit	1CA
		500		1	1 unit	1CA
		630		1	1 unit	1CA
		800		1	1 unit	1CA
		1000		1	1 unit	1CA
I, II, III		1250		1	1 unit	1CA
		1600		1	1 unit	1CA
		2000		1	1 unit	1CA
II, III		2500		1	1 unit	1CA
		3200		1	1 unit	1CA
		4000		1	1 unit	1CA
III		5000		1	1 unit	1CA
		6300		1	1 unit	1CA
3WL9111-0AA64-0AA0						
Ground-fault modules³⁾						
 NSE0_01027a						
Versions						
	• GFM AT 45B (only for ETU45B) alarm and tripping			1	1 unit	1CA
	• GFM AT 55B-76B (only for ETU76B) alarm and tripping			1	1 unit	1CA
3WL9111-0AT53-0AA0						
Displays						
 NSE0_01609						
	• For ETU45B			1	1 unit	1CA
	• 4-line					
3WL9111-0AT81-0AA0						
Internal current transformers for N-conductor						
Including wiring kit						
 NSE0_00990a						
ETU Release 2		Size				
--		I		1	1 unit	1CA
		II		1	1 unit	1CA
		III		1	1 unit	1CA
✓		I		1	1 unit	1CA
		II		1	1 unit	1CA
		III		1	1 unit	1CA
3WL9111-0AA2.-0AA0						
External current transformers for N-conductor						
For T5, "Measurement Method" function, see Technical Information at www.siemens.com/lowvoltage/product-support .						
 NSE0_00991a						
Copper connection pieces		Size				
--		I		1	1 unit	1CA
		II		1	1 unit	1CA
		III		1	1 unit	1CA
✓		I		1	1 unit	1CA
		II		1	1 unit	1CA
		III		1	1 unit	1CA
3WL9111-0AA3.-0AA0						
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			1	1 unit	1CA
	• Only for ETU Release 2			1	1 unit	1CA

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

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

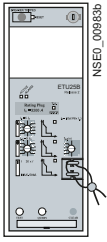
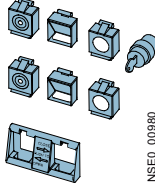
³⁾ For direct measurement of the ground-fault current, e.g. in the neutral point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL is 0.11 Ω . If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
More accessories for Electronic Trip Units						
 NSE0_00983	Sealable and lockable covers					
	Versions • For ETU15B to ETU45B • For ETU76					
		3WL9111-0AT45-0AA0 3WL9111-0AT46-0AA0		1 1 unit	1CA	1CA
		3WL9111-0AK21-0AA0		1 1 unit	1CA	1CA
		Automatic reset of the reclosing lockout Spare part for option K01 , see "-Z" + order code, see page 1/49 .				
		Remote reset coils¹⁾ • For mechanical tripped indicator • Spare part for options K10 to K13 , see "-Z" + order code, page 1/49 .				
		Note Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 also needed.				
		Versions • 24 V DC • 48 V DC • 120 V AC/125 V DC • 208-250 V AC/208-250 V DC				
		3WL9111-0AK03-0AA0 3WL9111-0AK04-0AA0 3WL9111-0AK05-0AA0 3WL9111-0AK06-0AA0		1 1 unit	1CA	1CA
		Retrofittable internal CubicleBUS wiring for connection to terminal X8 • For ETU45B and ETU76B • With male connector ²⁾			1 1 unit	1CA
		Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8 • Not for ETU Release 2 • Without male connector			1 1 unit	1CA
		Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8 • For ETU Release 2 • Without male connector			1 1 unit	1CA
Locking devices						
 NSE0_00980	Interlocking set for mechanical ON/OFF					
	• Each consisting of 2 transparent covers for sealing or for attaching padlocks ⁴⁾ • Cover with 6.35 mm hole (for tool actuation) • Lock mount for safety lock for key operation					
		3WL9111-0BA21-0AA0 3WL9111-0BA22-0AA0 3WL9111-0BA24-0AA0		1 1 unit	1CA	1CA
		Locking devices against unauthorized closing, in the operator panel • The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 • Spare part for options S01 to S09 , see "-Z" + order code, page 1/51 .				
		Versions • Assembly kit FORTRESS or Castell ³⁾ • Made by Ronis • Made by KIRK-Key ³⁾ • Made by Profalux • Made by CES • Made by IKON • Assembly kit for padlocks ⁴⁾				
		3WL9111-0BA31-0AA0 3WL9111-0BA33-0AA0 3WL9111-0BA34-0AA0 3WL9111-0BA35-0AA0 3WL9111-0BA36-0AA0 3WL9111-0BA38-0AA0 3WL9111-0BA41-0AA0		1 1 unit	1CA	1CA
		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 lock in the guide frame, active in connected position, function is retained when circuit breaker is replaced • Spare part for option R60 , R61 , R68 , see "-Z" + order code, page 1/51 .				
		Versions • Made by CES • Made by IKON • Made by KIRK-Key ³⁾ • Made by Ronis • Made by Profalux				
		3WL9111-0BA51-0AA0 3WL9111-0BA53-0AA0 3WL9111-0BA57-0AA0 3WL9111-0BA58-0AA0 3WL9111-0BA50-0AA0		1 1 unit	1CA	1CA

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

²⁾ Required if communication is retrofitted.

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

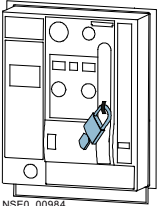
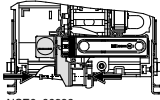
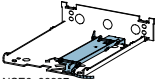
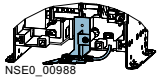
⁴⁾ Padlock not included in the scope of supply.

Air Circuit Breakers

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

Accessories and spare parts

1

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 <p>NSE0_00984 3WL9111-0BA71-0AA0</p> <p>Locking devices for operating mechanism handle with padlock¹⁾ Spare part for option S33, see "-Z" + order code, page 1/51.</p>	d	3WL9111-0BA71-0AA0		1	1 unit	1CA
 <p>NSE0_00986 3WL9111-0BA76-0AA0</p> <p>Locking devices to prevent movement of the withdrawable circuit breakers</p> <ul style="list-style-type: none"> • Safety lock for mounting on the circuit breaker • Spare part for option S71, S75, S76, see "-Z" + order code, page 1/51. <p>Versions</p> <ul style="list-style-type: none"> • Made by CES • Made by IKON • Made by Profalux • Made by Ronis • Made by KIRK-Key²⁾ 		3WL9111-0BA73-0AA0 3WL9111-0BA75-0AA0 3WL9111-0BA76-0AA0 3WL9111-0BA77-0AA0 3WL9111-0BA80-0AA0		1	1 unit	1CA 1CA 1CA 1CA 1CA
<p>Interlocking systems</p> <ul style="list-style-type: none"> • Made by CES • 2 of the same keys for 3 circuit breakers • Locking device in OFF position • Lock in the operator panel • A maximum of 2 circuit breakers can be switched on 		3WL9111-0BA43-0AA0		1	1 unit	1CA
Locking mechanisms						
 <p>NSE0_00987 3WL9111-0BA83-0AA0</p> <p>Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position</p> <ul style="list-style-type: none"> • Consisting of Bowden wire and lock in the cabinet door on the circuit breaker • Spare part for option R81, R85, R86, see "-Z" + order code, page 1/51. <p>Versions</p> <ul style="list-style-type: none"> • Made by CES • Made by IKON • Made by Profalux • Made by Ronis <p>Note</p> <p>Not possible in combination with "Locking mechanism to prevent opening of the cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the cabinet door open" (order code "R50").</p>		3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0 3WL9111-0BA86-0AA0		1	1 unit	1CA 1CA 1CA 1CA
 <p>NSE0_00988 3WL9111-0BB12-0AA0</p> <p>Locking mechanisms to prevent opening of the cabinet door in ON position</p> <ul style="list-style-type: none"> • Fixed-mounted • Can be defeated • Spare part for option S30, see "-Z" + order code, page 1/51. 		3WL9111-0BB12-0AA0		1	1 unit	1CA
<p>Locking mechanisms to prevent opening of the cabinet door</p> <ul style="list-style-type: none"> • Guide frames • Can be defeated • Spare part for option R30, see "-Z" + order code, page 1/51. <p>Note</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>		3WL9111-0BB13-0AA0		1	1 unit	1CA
<p>Locking mechanisms to prevent movement with the cabinet door open</p> <ul style="list-style-type: none"> • Guide frames • Spare part for option R50, see "-Z" + order code, page 1/51. <p>Note</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>		3WL9111-0BB15-0AA0		1	1 unit	1CA

¹⁾ Padlock not included in the scope of supply.

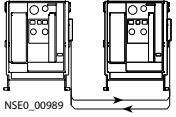
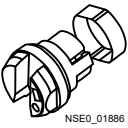

²⁾ Locks, cylinders and keys must be ordered from the manufacturer.

Air Circuit Breakers

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

Accessories and spare parts

1

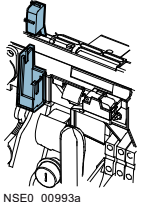
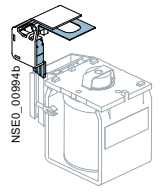
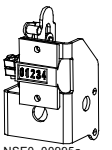
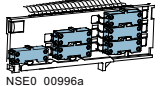
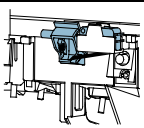
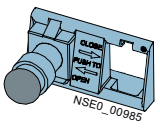
Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG																																										
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<p>Manual tester Release 2 for Electronic Trip Units ETU15B to ETU76B For testing the Electronic Trip Unit functions of all 3WL ETUs (release 1 and release 2)</p>																																																
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<p>Note</p> <ul style="list-style-type: none"> Rated control supply voltage must match the rated control supply voltage of the shunt release Suitable also for 3VL and 3WN circuit breakers 																																																

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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Indicators, control elements							
	Ready-to-close signaling switches (S20) <ul style="list-style-type: none"> • 1 NO contact • Spare part for option C22, see "-Z" + order code, page 1/49. 		3WL9111-0AH01-0AA0		1	1 unit	1CA
NSE0_00993a 3WL9111-0AH01-0AA0							
	Signaling switches¹⁾²⁾ (S22 or S23) <ul style="list-style-type: none"> • 1st or 2nd auxiliary release • Spare part for option C26 and C27, see "Z" + code, page 1/49. 		3WL9111-0AH02-0AA0		1	1 unit	1CA
NSE0_00994b 3WL9111-0AH02-0AA0							
	1st tripped signaling switch¹⁾²⁾ (S24) <ul style="list-style-type: none"> • 1 CO contact • Spare part for option K07, see "-Z" + order code, page 1/49. 		3WL9111-0AH14-0AA0		1	1 unit	1CA
	2nd tripped signaling switch¹⁾²⁾³⁾ (S25) <ul style="list-style-type: none"> • 1 NO contact • Spare part for option K06, see "-Z" + order code, page 1/49. 		3WL9111-0AH17-0AA0		1	1 unit	1CA
	Operating cycles counter <ul style="list-style-type: none"> • Mechanical⁴⁾ • Spare part for option C01, see "-Z" + order code, page 1/49. 		3WL9111-0AH07-0AA0		1	1 unit	1CA
NSE0_00995a 3WL9111-0AH07-0AA0							
	Stored-energy status signaling switches¹⁾²⁾ <ul style="list-style-type: none"> • 1 NO contact • Spare part for option C20, see "-Z" + order code, page 1/49. 		3WL9111-0AH08-0AA0		1	1 unit	1CA
	Position signaling switches for guide frames Spare part for option R15 and R16 , see "Z" + code, page 1/50 . Versions <ul style="list-style-type: none"> • 1st block (3 CO contacts) • 2nd block (6 CO contacts) 		3WL9111-0AH11-0AA0 3WL9111-0AH12-0AA0		1 1	1 unit 1 unit	1CA 1CA
NSE0_00996a 3WL9111-0AH12-0AA0							
	Electrical ON buttons¹⁾⁵⁾ (S10) <ul style="list-style-type: none"> • Button + wiring²⁾ • For operator panel • Spare part for options C11 and C12, see "Z" + order code, page 1/49. Versions <ul style="list-style-type: none"> • With sealing cap C11 • With CES assembly kit C12 • With IKON assembly kit Note Possible only for circuit breakers with closing coil.		3WL9111-0AJ02-0AA0 3WL9111-0AJ03-0AA0 3WL9111-0AJ05-0AA0		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
NSE0_00997a 3WL9111-0AJ0.-0AA0							
	Motor shutdown switches⁶⁾ (S12) <ul style="list-style-type: none"> • Mounting on operator panel • Spare part for option S25, see "-Z" + order code, page 1/49. 		3WL9111-0AJ06-0AA0		1	1 unit	1CA
	EMERGENCY-STOP pushbuttons <ul style="list-style-type: none"> • Mushroom pushbutton instead of the mechanical OFF pushbutton • Spare part for option S24, see "-Z" + order code, page 1/49. 		3WL9111-0BA72-0AA0		1	1 unit	1CA
NSE0_00998a 3WL9111-0BA72-0AA0							

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

2) X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see [page 1/54](#) and [page 1/66](#)).

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

4) Only in conjunction with motorized operating mechanism.

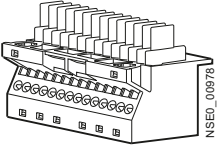
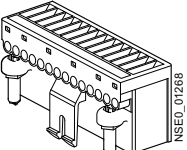
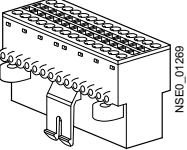

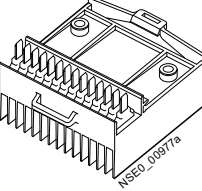
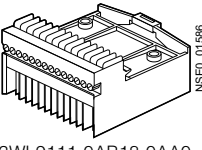
5) Not possible with motor shutdown switch.

6) Not possible with electrical ON button.

Air Circuit Breakers

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

Accessories and spare parts

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

For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

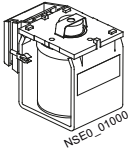
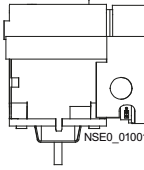
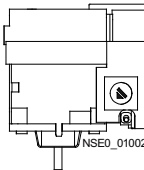
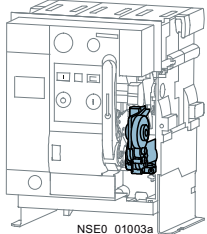
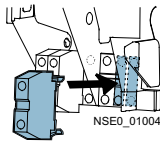
Withdrawable version: ① + ④ + ② or ① + ⑤

Air Circuit Breakers

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

Accessories and spare parts

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

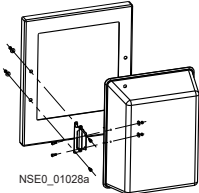
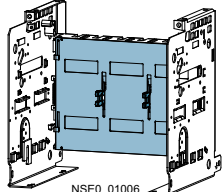
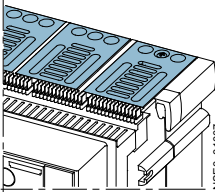
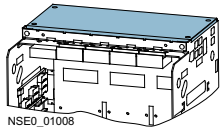
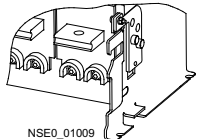
²⁾ X5 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see page 1/54 and page 1/57).

Air Circuit Breakers

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

Accessories and spare parts

1

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Door sealing frames, hoods, shutters						
Door sealing frames Spare part for option T40 , see "-Z" + order code, page 1/49 .		3WL9111-0AP01-0AA0		1	1 unit	1CA
Protective covers IP55 Notes • Cannot be used in conjunction with door sealing frames • Hood removable and can be opened on both sides		3WL9111-0AP02-0AA0		1	1 unit	1CA
 NSE0_01028a 3WL9111-0AP02-0AA0						
Shutters Spare part for option R21 , see "-Z" + order code, page 1/50 .						
Number of poles	Size					
3-pole	I	3WL9111-0AP04-0AA0		1	1 unit	1CA
	II ¹⁾	3WL9111-0AP06-0AA0		1	1 unit	1CA
	II C	3WL9111-0AP43-0AA0		1	1 unit	1CA
	III	3WL9111-0AP07-0AA0		1	1 unit	1CA
4-pole	I	3WL9111-0AP08-0AA0		1	1 unit	1CA
	II ¹⁾	3WL9111-0AP11-0AA0		1	1 unit	1CA
	II C	3WL9111-0AP44-0AA0		1	1 unit	1CA
	III	3WL9111-0AP12-0AA0		1	1 unit	1CA
 NSE0_01006 3WL9111-0AP0.-0AA0						
Arc chutes						
Arc chutes	Versions	Size				
 NSE0_01007 3WL9111-0AS0.-0AA0	690 V	I	3WL9111-0AS01-0AA0	1	1 unit	1CA
		II ¹⁾	3WL9111-0AS02-0AA0	1	1 unit	1CA
		II C	3WL9111-0AS10-0AA0	1	1 unit	1CA
		III	3WL9111-0AS03-0AA0	1	1 unit	1CA
1000 V/1150 V	II	3WL9111-0AS05-0AA0	1	1 unit	1CA	
	III	3WL9111-0AS06-0AA0	1	1 unit	1CA	
 NSE0_01008 3WL9111-0AS3.-0AA0						
Arc chute covers²⁾ • Parts kit for guide frame • Spare part for option R10 , see "-Z" + order code, page 1/50 .	Number of poles	Size				
3-pole	I	3WL9111-0AS32-0AA0		1	1 unit	1CA
	II	3WL9111-0AS36-0AA0		1	1 unit	1CA
	III	3WL9111-0AS38-0AA0		1	1 unit	1CA
4-pole	I	3WL9111-0AS42-0AA0		1	1 unit	1CA
	II	3WL9111-0AS44-0AA0		1	1 unit	1CA
	III	3WL9111-0AS46-0AA0		1	1 unit	1CA
 NSE0_01009 3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0						
Coding for withdrawable version By customer, for 36 coding variants	Versions					
• Sizes I and II • Size III		3WL9111-0AR12-0AA0		1	1 unit	1CA
		3WL9111-0AR13-0AA0		1	1 unit	1CA

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


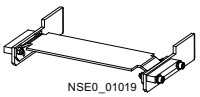
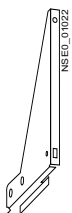
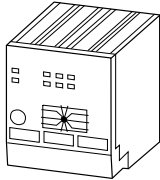
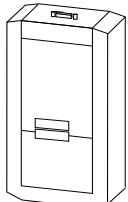
²⁾ Not available for:
- 1000 V version (order code "A05")
- 1150 V version (order code "A15")
- DC version
- 4000 A size II
- Circuit breakers with very high breaking capacity C

Air Circuit Breakers

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

Accessories and spare parts

1

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Grounding connection						
 <p>NSE0_01018a 3WL9111-0BA02-0AA0</p>	Grounding connection between the guide frame and the withdrawable circuit breaker <ul style="list-style-type: none"> For 30 kA ground short-circuit current¹⁾ Contacting modules for guide frame 					
	Versions <ul style="list-style-type: none"> Size I and II²⁾ Size III 		3WL9111-0BA01-0AA0 3WL9111-0BA02-0AA0	1	1 unit	1CA
Contact modules for withdrawable circuit breakers						
 <p>NSE0_01019 3WL9111-0BA07-0AA0</p>	Number of poles	Size				
	3-pole	I	3WL9111-0BA05-0AA0	1	1 unit	1CA
		II ²⁾	3WL9111-0BA06-0AA0	1	1 unit	1CA
		III	3WL9111-0BA07-0AA0	1	1 unit	1CA
	4-pole	I	3WL9111-0BA08-0AA0	1	1 unit	1CA
		II ²⁾	3WL9111-0BA04-0AA0	1	1 unit	1CA
III		3WL9111-0BA10-0AA0	1	1 unit	1CA	
Support brackets						
 <p>NSE0_01022 3WL9111-0BB50-0AA0</p>	Support brackets <ul style="list-style-type: none"> For mounting fixed-mounted circuit breakers on vertical plane Only for sizes I and II (1 set = 2 units) 		3WL9111-0BB50-0AA0	1	1 unit	1CA
CubicleBUS modules³⁾⁶⁾						
 <p>NSE0_01023a 3WL9111-0AT23-0AA0</p>	Digital output modules with rotary coding switch, relay outputs		3WL9111-0AT26-0AA0	1	1 unit	1CA
	Digital output modules, configurable, relay outputs		3WL9111-0AT20-0AA0	1	1 unit	1CA
	Digital input modules		3WL9111-0AT27-0AA0	1	1 unit	1CA
	Analog output modules		3WL9111-0AT23-0AA0	1	1 unit	1CA
	Zone Selective Interlocking modules		3WL9111-0AT21-0AA0	1	1 unit	1CA
Parameterization systems⁶⁾						
 <p>NSE0_01024a 3WL9111-0AT28-0AA0</p>	BDA Plus⁴⁾⁵⁾ <ul style="list-style-type: none"> 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
Connection cables for BDA Plus <ul style="list-style-type: none"> 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	
powerconfig parameterization software <ul style="list-style-type: none"> Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using powerconfig software, see chapter "Software", "Configuring, Visualizing and Controlling with SENTRON". powerconfig is available free of charge at http://support.automation.siemens.com/WW/view/en/63452759 						

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

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

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

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

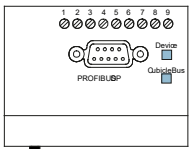
⁵⁾ Operation under Windows Vista and Windows 7 possible with restrictions.

⁶⁾ All communication components, **CubicleBUS** modules and metering 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Accessories for communications³⁾						
Pre-assembled cables for CubicleBUS modules						
Versions						
• 0.5 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC04-0AA0		1	1 unit	1CA
• 1 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC02-0AA0		1	1 unit	1CA
• 2 m long, for connection to 3WL with COM15/COM16		3WL9111-0BC03-0AA0		1	1 unit	1CA
• 2 m long, for connection to 3WL without COM15/COM16		3WL9111-0BC05-0AA0		1	1 unit	1CA
SENTRON manual for communication solutions						
<ul style="list-style-type: none"> Detailed description of the communication functions for circuit breakers. Installation, connection, commissioning, data transmission to the PLC. Free download from: www.siemens.com/lowvoltage/manuals 						
Voltage transformers						
• 3-pole, for 3WL circuit breakers with metering function <i>Plus</i> ¹⁾		3WL9111-0BB68-0AA0		1	1 unit	1CA
• 380 ... 690 V/100 V, class 0.5						
Retrofitting and spare parts^{3) 4)}						
PROFIBUS retrofit kits						
Retrofit kit for PROFIBUS communications including COM15, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT12-0AA0		1	1 unit	1CA
COM15 PROFIBUS modules						
For ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT15-0AA0		1	1 unit	1CA
3WL9111-0AT15-0AA0						
COM16 MODBUS modules						
For ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT17-0AA0		1	1 unit	1CA
MODBUS IEC retrofit kits						
Retrofit kit for MODBUS communications including COM16, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT18-0AA0		1	1 unit	1CA
Additional parts for retrofitting the COM15/COM16 communication modules NEW						
In withdrawable version 3WL circuit breakers with Z options:						
<ul style="list-style-type: none"> A05 (1000 V AC) or A15 (1150 V AC) or A16 (690 V + 20%) 						
Size						
I		3WL9111-0AT62-0AA0		1	1 unit	1CA
II/III		3WL9111-0AT63-0AA0		1	1 unit	1CA
Breaker Status Sensor (BSS)						
For ETU45B and ETU76B Electronic Trip Units						
		3WL9111-0AT16-0AA0		1	1 unit	1CA
Metering function <i>Plus</i>²⁾						
<ul style="list-style-type: none"> For ETUs Release 2 Voltage transformer required 						
Transformers (without iron core), Rogowski coil only NEW						
Used in converter applications with high harmonics; can only be used with ETU45B or ETU76B						
<ul style="list-style-type: none"> External 24 V DC supply required Undervoltage release required 						
Comprises:						
<ul style="list-style-type: none"> Transformer Warning signs Manual 						
Number of poles	Size					
3-pole	I	3WL9111-0AA42-0AA0		1	1 unit	1CA
	II	3WL9111-0AA43-0AA0		1	1 unit	1CA
	III	3WL9111-0AA44-0AA0		1	1 unit	1CA
4-pole	I	3WL9111-0AA45-0AA0		1	1 unit	1CA
	II	3WL9111-0AA46-0AA0		1	1 unit	1CA
	III	3WL9111-0AA47-0AA0		1	1 unit	1CA

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

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

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

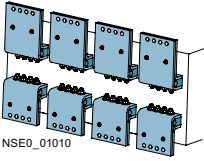
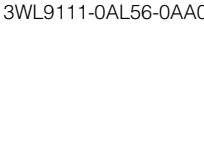
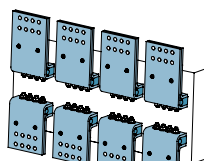
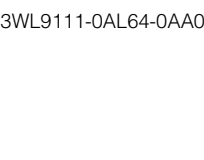
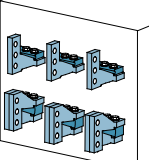
⁴⁾ For retrofitting the COM15 or COM16 communication modules in withdrawable 3WL circuit breakers with Z options A05 (1000 V AC), A15 (1150 V AC) or A16 (690 V + 20%), the following additional assembly kits are required: 3WL9111-0AT62-0AA0 for circuit breakers size I or 3WL9111-0AT63-0AA0 for circuit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

Air Circuit Breakers

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

Accessories and spare parts

1

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

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

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

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

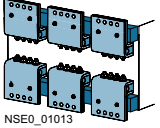
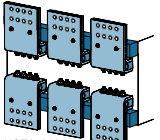
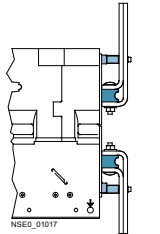

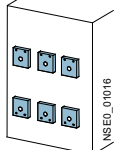
⁴⁾ Not for circuit breakers with very high breaking capacity C.

Air Circuit Breakers

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

Accessories and spare parts

1

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

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

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

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

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

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

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

Air Circuit Breakers

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 number

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

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

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

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

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

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

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

Accessories: With first order (components are already mounted)

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

Additional accessory components can be ordered ready-mounted.

These supplements are identified by "-Z".

Even with additional components, one article number is sufficient.

Accessories: For retrofitting (components for subsequent fitting)

Example
3WL9 1 1 1 - 0 B A 2 1 - 0 A A 0

Interlocking set for mechanical ON/OFF without lock

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

Accessories for retrofitting are identified by the Article 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 Communication manual	German	Article No.	A5E0151347
	English	Article No.	A5E0151353
MODBUS Communication manual	German	Article No.	3ZX10 12-0WL10-1AB1
	English	Article No.	3ZX10 12-0WL10-1AC1

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

Technical specifications

Size		I	II		
Type		3WL11 20	3WL12 10	3WL12 20	3WL12 40
Rated current I_n at 40 °C Main conductor		A 2000	... 1000	2000	4000
Rated operational voltage U_e (for 1000 V version, see "-Z" option and order code "A05", page 1/48)		V DC 1000	... 600/1000	... 600/1000	... 600/1000
Rated insulation voltage U_i		V DC 1000	1000	1000	1000
Rated impulse withstand voltage U_{imp}					
• Main conducting paths		kV 12	12	12	12
• Auxiliary circuits		kV 4	4	4	4
• Control circuits		kV 2.5	2.5	2.5	2.5
Isolating function acc. to EN 60947-2		Yes	Yes	Yes	Yes
Utilization category			B		
Permissible ambient temperature					
• Operation		°C -25/+70	-25/+70	-25/+70	-25/+70
• Storage		°C -40/+70	-40/+70	-40/+70	-40/+70
Permissible load					
At rear horizontal main con- nections		A 2000	1000	2000	4000
Up to 40 °C		A 1910	1000	2000	3640
Up to 55 °C		A 1850	1000	2000	3500
Up to 60 °C		A 1710	1000	1950	3250
Up to 70 °C					
Power loss at I_n for symmetrical loads					
Withdrawable circuit breakers		W 150	280	770	1640
Switching times					
• Make time		ms 35	35	35	35
• Opening time		ms 38	34	34	34
• Electrical make time (through activation solenoid) ¹⁾		ms 100	100	100	100
• Electrical opening time (through shunt release)		ms 73	73	73	73
• Electrical opening time (instantaneous undervoltage release)		ms 73	73	73	73
Service life³⁾					
• Mechanical (without maintenance)		Operating cycles 10 000	10 000	10 000	10 000
• Mechanical (with maintenance) ²⁾		Operating cycles 15 000	15 000	15 000	15 000
• Electrical (without maintenance)		Operating cycles 1 000	6 000	6 000	4 000
• 1000 V version		Operating cycles 1 000	1 000	1 000	1 000
• Electrical (with maintenance) ²⁾		Operating cycles 2 000	15 000	15 000	15 000
Switching frequency					
• 600 V version		1/h --	60	60	60
• 1000 V version		1/h 20	20	20	20
Mounting position					
Degree of protection		IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover			
Auxiliary conductors (Cu)		Standard connection = strain-relief clamp			
Max. number		• Without end sleeve			
Auxiliary conductors × cross-section		• With end sleeve acc. to DIN 46228 Part 2			
(solid/stranded)		• With twin end sleeve			
		Optional connection = tension spring			
		• Without end sleeve			
		• With end sleeve acc. to DIN 46228 Part 2			
Weights 3-pole					
• Fixed-mounted circuit breakers		kg 43	56	56	64
• Withdrawable circuit breakers		kg --	60	60	68
• Guide frames		kg --	31	31	45
4-pole					
• Fixed-mounted circuit breakers		kg 50	67	67	77
• Withdrawable circuit breakers		kg --	72	72	82
• Guide frames		kg --	37	37	54

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

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

³⁾ Further technical specifications on request.

Air Circuit Breakers

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

General data

Breaking capacity

Size	I	DC	II	DC
Type	3WL11		3WL12	
Breaking capacity	DC		DC	
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:


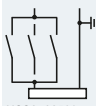

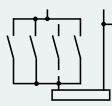

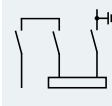
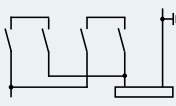
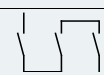
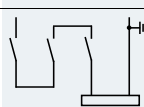
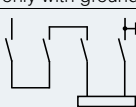
For further technical specifications, see the configuration manual "Air Circuit Breakers". Free download from: www.siemens.com/lowvoltage/manuals

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

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

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

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

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

Connection to the circuit breakers is independent of the direction and polarity; the circuit diagrams can be converted analogously.

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

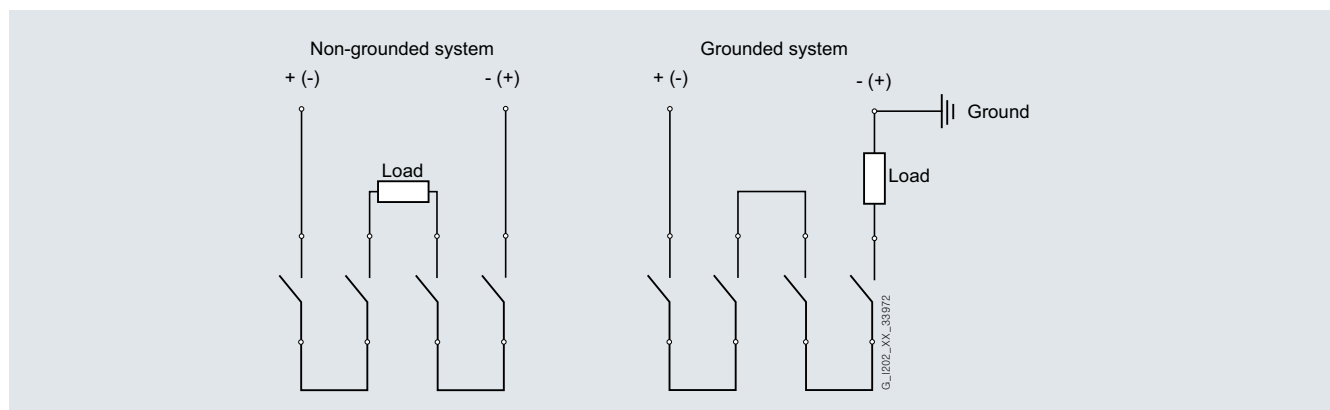
- |— grounded system
- load

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

Permissible interconnections

Circuit diagrams for size I

1000 V DC non-automatic air circuit breakers



More information

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

Air Circuit Breakers



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

3- and 4-pole, fixed-mounted versions

1

Selection and ordering data

For general data, see page 1/8.

Size	Max. rated circuit breaker current $I_{n \max}$	SD	3-pole non-automatic air circuit breakers 	PU (UNIT, SET, M)	PS	PG
A	d		Article No.: www.siemens.com/product?Article No. Price per PU			
Horizontal main circuit connection						
II	1000 2000 4000 ¹⁾		3WL1210-8□□32-□□□□ 3WL1220-8□□32-□□□□ 3WL1240-8□□32-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
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
Front main circuit connection, single hole						
II	1000 2000		3WL1210-8□□33-□□□□ 3WL1220-8□□33-□□□□	1 1	1 unit 1 unit	1CA 1CA
Front main circuit connection, double hole						
II	1000 2000		3WL1210-8□□34-□□□□ 3WL1220-8□□34-□□□□	1 1	1 unit 1 unit	1CA 1CA
Options						
Non-automatic air circuit breakers²⁾ Without Electronic Trip Units			AA			Additional price None
Operating mechanisms Manual operating mechanism with mechanical closing For further Article No. supplements, see page 1/47			1AA2			None
Size	Max. rated circuit breaker current $I_{n \max}$	SD	4-pole non-automatic air circuit breakers 	PU (UNIT, SET, M)	PS	PG
A	d		Article No.: www.siemens.com/product?Article No. Price per PU			
Horizontal main circuit connection						
I ³⁾	2000		3WL1120-8□□42-□□□□	1	1 unit	1CA
II	1000 2000 4000 ¹⁾		3WL1210-8□□42-□□□□ 3WL1220-8□□42-□□□□ 3WL1240-8□□42-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Vertical main circuit connection						
I ³⁾	2000		3WL1120-8□□41-□□□□	1	1 unit	1CA
II	1000 2000 4000 ¹⁾		3WL1210-8□□41-□□□□ 3WL1220-8□□41-□□□□ 3WL1240-8□□41-□□□□	1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Front main circuit connection, single hole						
II	1000 2000		3WL1210-8□□43-□□□□ 3WL1220-8□□43-□□□□	1 1	1 unit 1 unit	1CA 1CA
Front main circuit connection, double hole						
II	1000 2000		3WL1210-8□□44-□□□□ 3WL1220-8□□44-□□□□	1 1	1 unit 1 unit	1CA 1CA
Options						
Non-automatic air circuit breakers²⁾ Without Electronic Trip Units			AA			Additional price None
Operating mechanisms Manual operating mechanism with mechanical closing For further Article No. supplements, see page 1/47			1AA2			None
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL12.0-8.....-Z □ □ □			Additional price 3-pole 4-pole
Condition	Size	Rated current I_n				
Rated voltage 1000 V DC	II	Up to 2000 A	A 0 5			✓ ✓
		Up to 4000 A	A 0 5			✓ ✓

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 1/48.

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 1/80).

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.

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	SD	3-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS	PG
A		d	Article No. www.siemens.com/ product?Article No.	Price per PU			
Without guide frames (for guide frames, see page 1/81)							
II	1000 2000 4000 ¹⁾		3WL1210-8□□35-□□□□ 3WL1220-8□□35-□□□□ 3WL1240-8□□35-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□36-□□□□ 3WL1220-8□□36-□□□□ 3WL1240-8□□36-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, vertical main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□37-□□□□ 3WL1220-8□□37-□□□□ 3WL1240-8□□37-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges							
II	1000 2000 4000 ¹⁾		3WL1210-8□□38-□□□□ 3WL1220-8□□38-□□□□ 3WL1240-8□□38-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Options							
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units		AA				Additional price None
Operating mechanisms	Manual operating mechanism with mechanical closing		1AA2				None
	For further Article No. supplements, see page 1/47						
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 1/48.

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 1/80).

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

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 $I_{n \max}$	SD	4-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS	PG
A		d	Article No. www.siemens.com/ product?Article No.	Price per PU			
Without guide frames (for guide frames, see page 1/81)							
II	1000 2000 4000 ¹⁾		3WL1210-8□□45-□□□□ 3WL1220-8□□45-□□□□ 3WL1240-8□□45-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, horizontal main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□46-□□□□ 3WL1220-8□□46-□□□□ 3WL1240-8□□46-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, vertical main circuit connection							
II	1000 2000 4000 ¹⁾		3WL1210-8□□47-□□□□ 3WL1220-8□□47-□□□□ 3WL1240-8□□47-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
With guide frames, connecting flanges							
II	1000 2000 4000 ¹⁾		3WL1210-8□□48-□□□□ 3WL1220-8□□48-□□□□ 3WL1240-8□□48-□□□□		1 1 1	1 unit 1 unit 1 unit	1CA 1CA 1CA
Options							
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units		AA				Additional price None
Operating mechanisms	Manual operating mechanism with mechanical closing For further Article No. supplements, see page 1/47		1AA2				None
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 1/48.

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

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

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

- mat – Maschinen- und Anlagentechnik**
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Email: info@m-a-t.de
Internet: www.m-a-t.de

Selection and ordering data

Guide frames for DC non-automatic air circuit breakers

Size	Max. rated circuit breaker current $I_{n \max}$	SD	Guide frames for 3-pole non-automatic air circuit breakers	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Front main circuit connection, single hole						
II	2000		3WL9212-3DA□□-□□A1	1	1 unit	1CA
Front main circuit connection, double hole						
II	2000		3WL9212-3DB□□-□□A1	1	1 unit	1CA
Horizontal main circuit connection						
II	2000		3WL9212-3DC□□-□□A1	1	1 unit	1CA
	4000		3WL9212-6DC□□-□□A1	1	1 unit	1CA
Vertical main circuit connection						
II	2000		3WL9212-3DD□□-□□A1	1	1 unit	1CA
	4000		3WL9212-6DD□□-□□A1	1	1 unit	1CA
Main circuit connection connecting flanges						
II	2000		3WL9212-3DE□□-□□A1	1	1 unit	1CA
	4000		3WL9212-6DE□□-□□A1	1	1 unit	1CA
Options						
Number of auxiliary supply connectors	None		0			Additional price 3-pole 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 1/54.						
Type of auxiliary circuit connections	None ²⁾		0			None
	With screw connection (SIGUT, standard)		1			✓
	With screwless connection method (tension spring)		2			✓
Position signaling switches	None		0			None
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO		1			✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		2			✓
Shutters	None		A			None
	With shutter, 2-part, lockable		B			✓
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).				3WL9212-.....-..A1-Z		Additional price
				□ □ □		
Rated voltage 1000 V DC						
Size II			A 0 5			✓
Tinned version of the customer's connections on the guide frame¹⁾ Only for guide frames with horizontal connection or flange connection						
Size II			A 0 8			✓
Notes						
<ul style="list-style-type: none"> For guide frames for 4-pole DC non-automatic air circuit breakers, see the following page. All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/48. 						

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

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

Air Circuit Breakers

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

Accessories and spare parts

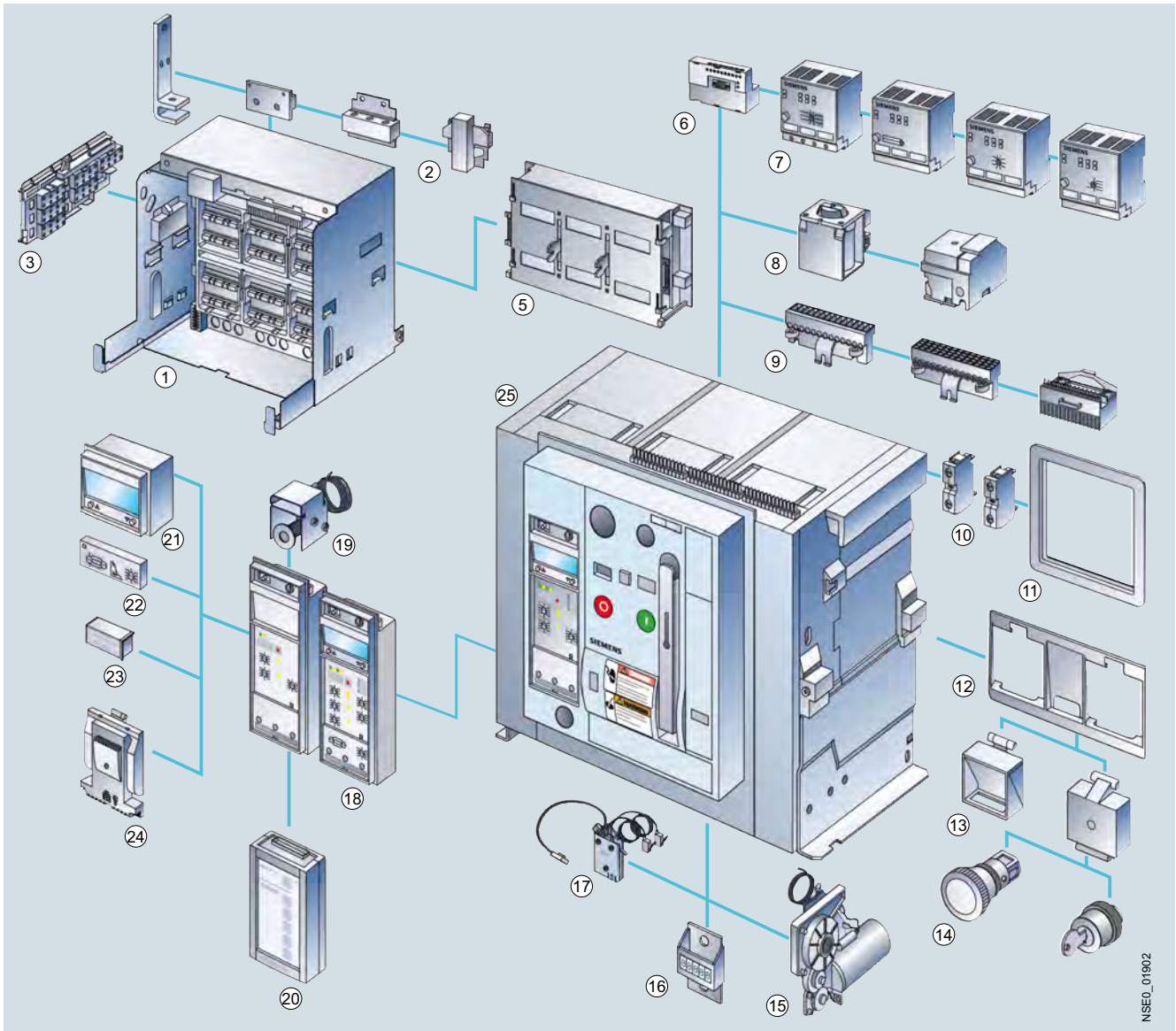
Size	Max. rated circuit breaker current $I_{n \max}$	SD	For 4-pole non-automatic air circuit breakers Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
Front main circuit connection, single hole							
II	2000		3WL9212-3EA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole							
II	2000		3WL9212-3EB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection							
II	2000		3WL9212-3EC□□-□□A1		1	1 unit	1CA
II	4000		3WL9212-6EC□□-□□A1		1	1 unit	1CA
Vertical main circuit connection							
II	2000		3WL9212-3ED□□-□□A1		1	1 unit	1CA
II	4000		3WL9212-6ED□□-□□A1		1	1 unit	1CA
Main circuit connection connecting flanges							
II	2000		3WL9212-3EE□□-□□A1		1	1 unit	1CA
II	4000		3WL9212-6EE□□-□□A1		1	1 unit	1CA
Options							
Number of auxiliary supply connectors	None		0				Additional price 4-pole
	1 connector		1				✓
	2 connectors		2				✓
	3 connectors		3				✓
	4 connectors		4				✓
Note							
For required number of auxiliary supply connectors, see table on page 1/54.							
Type of auxiliary circuit connections	None ²⁾		0				
	With screw connection (SIGUT, standard)		1				✓
	With screwless connection method (tension spring)		2				✓
Position signaling switches	None		0				
	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				
	With shutter, 2-part, lockable		B				✓
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).					3WL9212-.....A1-Z		Additional price
					□ □ □		
Rated voltage 1000 V DC							
Size II			A 0 5				✓
Tinned version of the customer's connections on the guide frame¹⁾ Only for guide frames with horizontal connection or flange connection							
Size II			A 0 8				✓
Notes							
<ul style="list-style-type: none"> For guide frames for 3-pole DC non-automatic air circuit breakers, see previous page. All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/48. 							

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

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

Overview

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



NSE0_01902

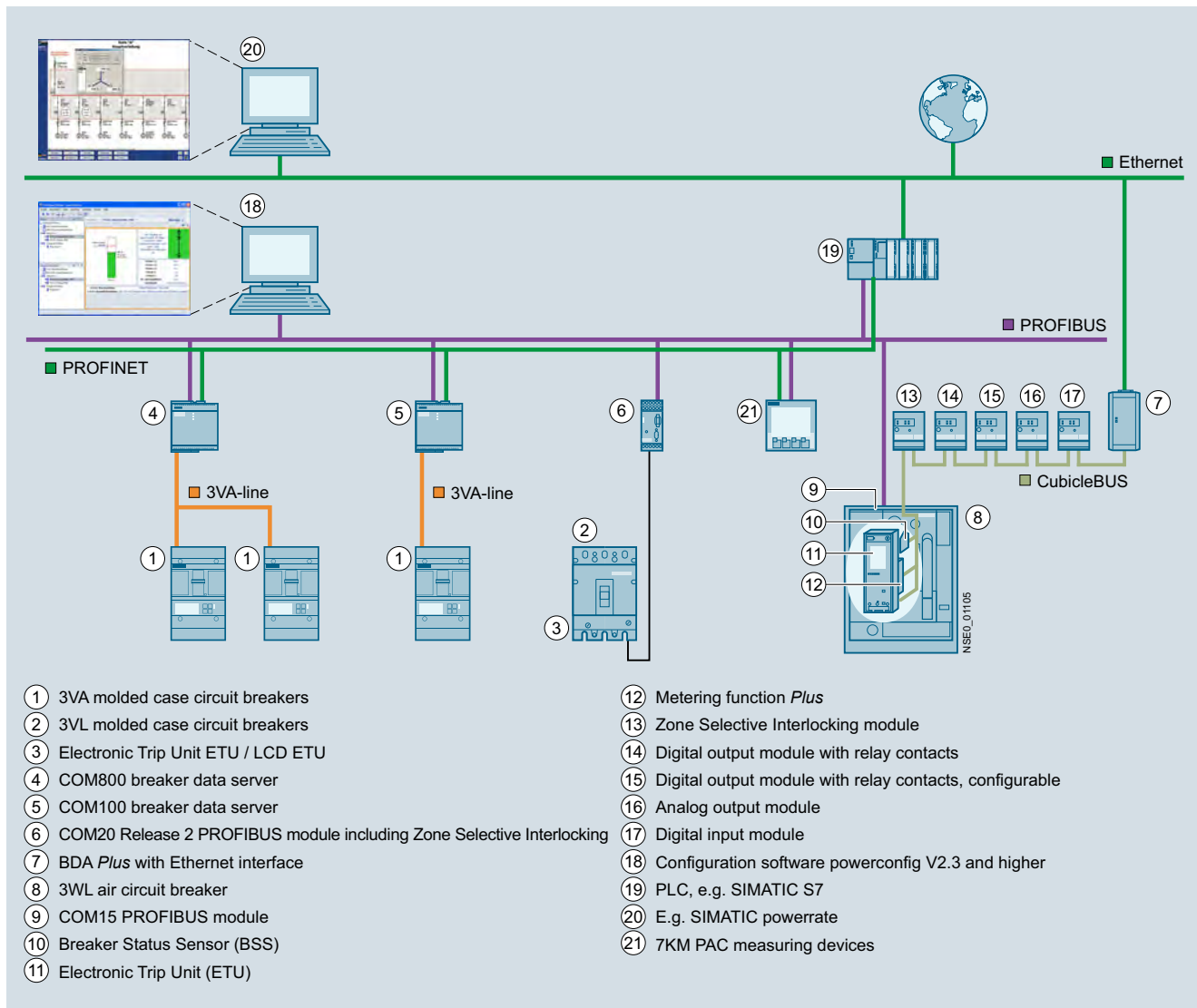
- ① Guide frame, [see page 1/105](#)
- ② Main circuit connection front, flange, horizontal, vertical, [see page 1/92 and page 1/117](#)
- ③ Position signaling switch, [see page 1/99 and page 1/111](#)
- ⑤ Shutters, [see page 1/99](#)
- ⑥ COM15 PROFIBUS module or COM16 MODBUS module, [see page 1/116](#)
- ⑦ External **CubicleBUS** modules, [see page 1/115](#)
- ⑧ Closing coil, auxiliary release, [see page 1/97](#)
- ⑨ Auxiliary conductor plug-in system, [see page 1/112](#)
- ⑩ Auxiliary switch block, [see page 1/97](#)
- ⑪ Door sealing frame, [see page 1/98](#)
- ⑫ Interlocking set for mechanical ON/OFF, [see page 1/108](#)
- ⑬ Transparent panel, function insert, [see page 1/108](#)
- ⑭ EMERGENCY-STOP pushbutton, key operated, [see page 1/111](#)
- ⑮ Motorized operating mechanism, [see page 1/99](#)
- ⑯ Operating cycles counter, [see page 1/98](#)
- ⑰ Breaker Status Sensor (BSS), [see page 1/100](#)
- ⑱ Protective device with device holder, Electronic Trip Unit (ETU) [see page 1/107](#)
- ⑲ Remote reset solenoid, [see page 1/98](#)
- ⑳ Breaker Data Adapter (BDA Plus), [see page 1/115](#)
- ㉑ Four-line display, [see page 1/107](#)
- ㉒ Ground-fault protection module, [see page 1/107](#)
- ㉓ Rating plug, [see page 1/98](#)
- ㉔ Metering function module, [see page 1/100](#)
- ㉕ Air circuit breaker, [see page 1/91 to page 1/96](#)

Air Circuit Breakers

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

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 switchboard 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 1/107](#).
- For accessories, [see page 1/104 to page 1/119](#).
- For more information, [see chapter "Measuring Devices and Power Monitoring"](#).

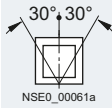
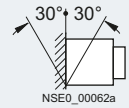
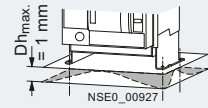
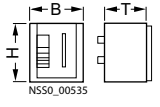
Air Circuit Breakers

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	2000		
	At 55 °C	A	1000	1600	2000		
	At 60 °C	A	1000	1600	2000		
Rated voltage U_e at 50/60 Hz		V AC	600 Y/347	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	-25/+40		
Power loss at rated current							
With three-phase symmetrical load							
• Fixed-mounted circuit breakers • Withdrawable circuit breakers	W	100	150	180			
	W	195	350	320			
Switching times							
• Make time • Opening time • Electrical make time (through activation solenoid) ¹⁾ • Electrical opening time (through shunt release) • Electrical opening time (instantaneous undervoltage release) • Opening time due to ETU, instantaneous short-circuit release	ms	35	35	35			
	ms	38	38	34			
	ms	80	80	100			
	ms	73	73	73			
	ms	73	73	73			
	ms	50	50	50			
	ms	50	50	50			
Endurance							
• Mechanical (without maintenance) • Electrical (without maintenance)	Operating cycles	10000	10000	10000			
	Operating cycles	4000	4000	4000			
Switching frequency		1/h	60	60	60		
Minimum interval between tripping operation by Electronic Trip Unit and next making operation of the circuit breaker (only with automatic mechanical resetting of the lockout device).		ms	80	80	80		
Minimum dimensions of circuit breaker compartment							
Width × Height × Depth	3-pole	mm	400 × 460 × 380	400 × 460 × 380	500 × 460 × 380		
	4-pole	mm	500 × 460 × 380	500 × 460 × 380	600 × 460 × 380		
Degree of protection							
• With cover • Without cover (with door sealing frame)		IP55					
		IP41					
Mounting position							
				and/or			
Main conductor minimum cross-sections		Unit(s)	2	2	2		
		mm ²	6.4 × 76.2	6.4 × 76.2	6.4 × 102		
		inches	1/4 × 3	1/4 × 3	1/4 × 4		
Auxiliary conductors (Cu)							
Standard connection = strain-relief clamp							
Max. number Auxiliary conductors × cross-section (solid/stranded)	• Without end sleeve		2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16);	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16);	1 × 2.5 mm ² (AWG 14)		
	• With end sleeve acc. to DIN 46228 Part 2 ²⁾ • With twin end sleeve		1 × 0.5 mm ² (AWG 20) ... 1 × 1.5 mm ² (AWG 16)	1 × 0.5 mm ² (AWG 20) ... 1 × 1.5 mm ² (AWG 16)			
Optional connection = tension spring							
	• Without end sleeve		2 × 0.5 mm ² (AWG 20) ... 2 × 2.5 mm ² (AWG 14)	2 × 0.5 mm ² (AWG 20) ... 2 × 2.5 mm ² (AWG 14)			
	• With end sleeve acc. to DIN 46228 Part 2		2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)			
Weights							
3-pole	• Fixed-mounted circuit breakers	kg	43	43	56		
	• Withdrawable circuit breakers	kg	45	45	60		
	• Guide frames	kg	25	25	31		
4-pole	• Fixed-mounted circuit breakers	kg	50	50	67		
	• Withdrawable circuit breakers	kg	54	54	72		
	• Guide frames	kg	30	30	37		
Dimensions 3-/4-pole							
	Fixed-mounted	W mm	320/410		460/590		
		H mm	434		434		
	Withdrawable	D mm	291		291		
		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 ultimate 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 three-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 automatic mechanical resetting of the lockout device).							
Minimum dimensions							
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							
Main conductor minimum cross-sections	Unit(s)	24	4	4	4	4	
	mm ²	6.4 × 1276.4 × 63.5	6.4 × 102	6.4 × 102	10 × 120	10 × 120	
	inches	1/4 × 51/4 × 2-1/2	1/4 × 4	1/4 × 4	1/4 × 5 ²⁾	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) ... 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) ... 1 × 1.5 mm ² (AWG 16)					
	• With twin end sleeve	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)					
	Optional connection = tension spring						
	• Without end sleeve	2 × 0.5 mm ² (AWG 20) ... 2 × 2.5 mm ² (AWG 14)					
	• With end sleeve acc. to DIN 46228 Part 2	2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)					
Weights							
3-pole	• Fixed-mounted circuit breakers	kg	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	
		D mm	465.5			465.5	
	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 acc. 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 acc. 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		V DC 1000	690
Rated conditional short-circuit current I_{cc} of the non-automatic air circuit breakers		kA at 690 V 20	25
		kA at 1000 V 20	--
Ambient temperature of the system	°C	-25/+40	-25/+40
Power loss at rated current			
With three-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	ms	80	80
between tripping operation by Electronic Trip Unit and next making operation of the circuit breaker (only with automatic mechanical resetting of the lockout device).			
Minimum dimensions			
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	4 6.4 × 102 1/4 × 4
Auxiliary conductors (Cu)			
Max. number of auxiliary conductors × cross-section (solid/stranded)	Standard connection = strain-relief clamp		2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16); 1 × 2.5 mm ² (AWG 14)
	• Without end sleeve		1 × 0.5 mm ² (AWG 20) ... 1 × 1.5 mm ² (AWG 16)
	• With end sleeve acc. to DIN 46228 Part 2		2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)
	• With twin end sleeve		
	Optional connection = tension spring		2 × 0.5 mm ² (AWG 20) ... 2 × 2.5 mm ² (AWG 14)
	• Without end sleeve		2 × 0.5 mm ² (AWG 20) ... 2 × 1.5 mm ² (AWG 16)
	• With end sleeve acc. to DIN 46228 Part 2		
Weights			
3-pole	• Fixed-mounted circuit breakers	kg	50 64
Dimensions 3-/4-pole			
		W mm	320/410
	Fixed-mounted	H mm	434
		D mm	291
	Withdrawable	H mm	465.5
		D mm	471

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

Air Circuit Breakers

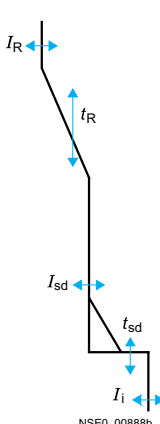
3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

Size		I	II	III
Type		3WL51	3WL52	3WL53
Breaking capacity class		S	H	H
		(S)	(H)	(H)
Short-circuit breaking capacity $I_{cu} = I_{cs}$ acc. to UL 489				
Up to 480 V AC	kA	65	100	100
Up to 600 V AC $\Upsilon/347$ V	kA	50	85 ¹⁾	85
Up to 600 V AC	kA	--	85	--
Rated short-time withstand current acc. to UL 489				
At max. delay time $t_{sd} = 0.4$ s	kA	65	85	85
Short-circuit breaking capacity $I_{cu} = I_{cs}$ acc. 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} acc. 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.

(S)	Circuit breakers with standard breaking capacity S ($I_{cu} = I_{cs}$ up to 65 kA at 480 V)
(H)	Circuit breakers with high switching 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.

Protection functions Parameterization by	ETU25B D	ETU45B D & S	
Function overview of the electronic trip system			
 <p>NSE0_00888b</p>	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	0.4-0.45-0.5-0.55-0.6-0.65-0.7-0.8-0.9-1
	L Switchable overload protection (I^2t - or I^4t -dependent function)	--	✓
	Setting range for time-lag class t_R at I^2t	10 s fixed	2-3-5-5.5-8-10-14-17-21-25-30 s
	Setting range for time-lag class t_R at I^4t	--	1-2-3-4-5 s
	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 $I_N = I_n \times \dots$	--	0.5 ... 1
S Short-time delayed short-circuit protection	✓	✓	
Function can be switched on/off	--	✓	
Setting range $I_R = I_n \times \dots$	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	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	--	100-200-300-400 ms	
ZSI function	--	By CubicleBUS module	
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	1.5-2.2-3-4-6-8-10-12-0.8 $\times I_{cs}$	
G Ground-fault protection	--	<input type="checkbox"/> Module can be retrofitted	
Tripping and alarm functions	--	✓	
Tripping function can be switched on/off	--	✓	
Detection of ground-fault current through 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	--	A-B-C-D-E	
Setting range of the operating current I_g for alarm	--	A-B-C-D-E	
Setting range of the delay time t_g	--	100-200-300-400-500 ms	
Switchable ground-fault characteristic (I^2t -dependent function)	--	✓	
Setting range for delay time t_g at I^2t	--	100-200-300-400-500 ms	
ZSI-G function	--	By CubicleBUS module	
LCD	Alphanumeric LCD (4-line)	<input type="checkbox"/>	
Communication	CubicleBUS integrated	✓	
Communications capability via PROFIBUS DP	--	✓	
Communications capability via MODBUS	--	✓	
Metering function	Metering function <i>Plus</i>	<input type="checkbox"/>	
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)	
G alarm	--	✓ (only with ground-fault protection module)	
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	--	✓ (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.

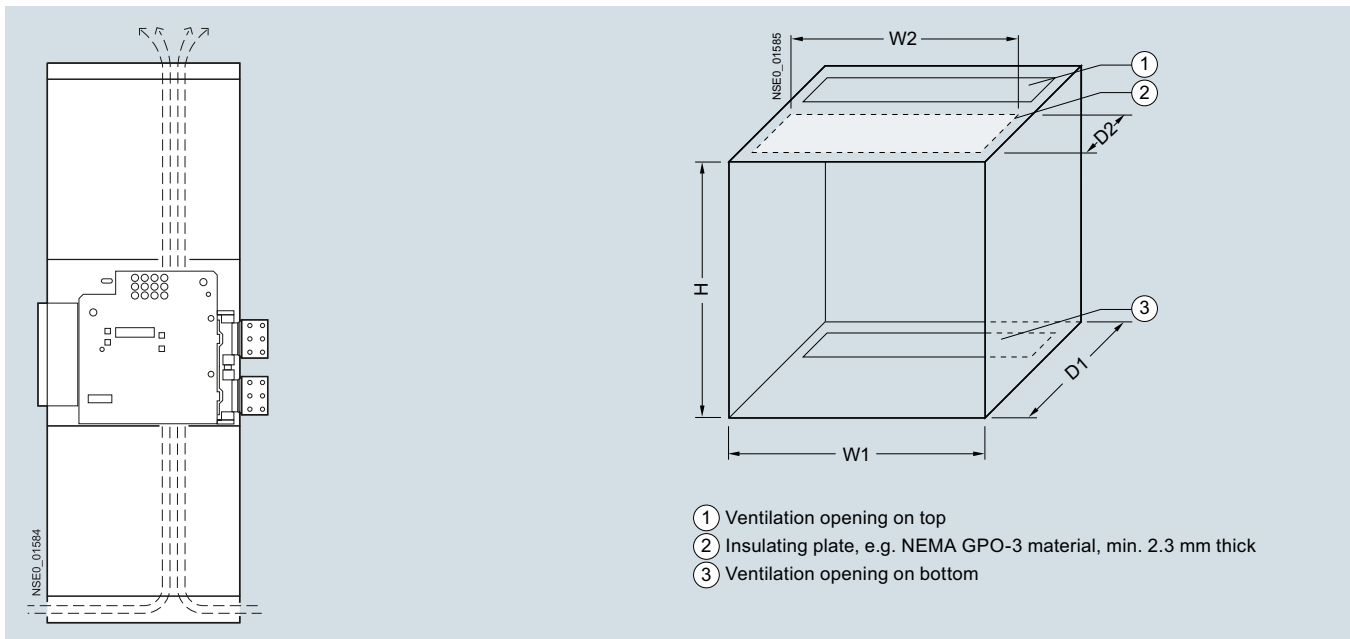
Setting range of the operating current I_g		
	Size I and size II	Size III
A	100 A	400 A
B	300 A	600 A
C	600 A	800 A
D	900 A	1000 A
E	1200 A	1200 A

Air Circuit Breakers

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

General data

Installation conditions for UL circuit breakers



- ① Ventilation opening on top
- ② Insulating plate, e.g. NEMA GPO-3 material, min. 2.3 mm thick
- ③ Ventilation opening on bottom

Size	I_n max	Minimum dimensions of the installation space			Dimensions of the insulating 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, etc.) is visible on the operator panel.

Designation of basic circuit breaker:

3WL5106-3 F 3 2

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 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 $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity 480 V			Price per PU	PU (UNIT, SET, M)	PS	PG
			kA	SD	Article No. www.siemens.com/product?ArticleNo . For Article No. supplements, see page 1/97				
Horizontal main circuit connection									
I	1000	1000	65		3WL5110-3□□32-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□32-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□32-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□32-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□32-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□32-□□□□		1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□32-□□□□		1	1 unit	1CA
Vertical main circuit connection									
I	1000	1000	65		3WL5110-3□□31-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□31-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□31-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□31-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□31-□□□□		1	1 unit	1CA
II ²⁾	3200	3200	100		3WL5232-4□□31-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□31-□□□□		1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□31-□□□□		1	1 unit	1CA
Front main circuit connection, single hole									
I	1000	1000	65		3WL5110-3□□33-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□33-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□33-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□33-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□33-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□33-□□□□		1	1 unit	1CA
Front main circuit connection, double hole									
I	1000	1000	65		3WL5110-3□□34-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□34-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□34-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□34-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□34-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□34-□□□□		1	1 unit	1CA
Options									
Non-automatic air circuit breakers³⁾	Without Electronic Trip Units				AA			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 LSING 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 1/97								

Note: Max. voltage for auxiliary circuits 240 V.

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 1/98.

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 1/85.

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 1/107.

⁵⁾ For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see page 1/107.

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, 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		Price per PU	PU (UNIT, SET, M)	PS	PG
			SD	Article No. www.siemens.com/ product?Article No. For Article No. supplements, see page 1/97				
A	A	A	kA	d				
Without guide frames (for guide frames, see page 1/105)								
I	1000	1000	65		3WL5110-3□□35-□□□□	1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□35-□□□□	1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□35-□□□□	1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□35-□□□□	1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□35-□□□□	1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□35-□□□□	1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□35-□□□□	1	1 unit	1CA
With guide frames, horizontal main circuit connection								
I	1000	1000	65		3WL5110-3□□36-□□□□	1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□36-□□□□	1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□36-□□□□	1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□36-□□□□	1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□36-□□□□	1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□36-□□□□	1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□36-□□□□	1	1 unit	1CA
With guide frames, vertical main circuit connection								
I	1000	1000	65		3WL5110-3□□37-□□□□	1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□37-□□□□	1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□37-□□□□	1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□37-□□□□	1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□37-□□□□	1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□37-□□□□	1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□37-□□□□	1	1 unit	1CA
With guide frames, connecting flanges								
I	1000	1000	65		3WL5110-3□□38-□□□□	1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□38-□□□□	1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□38-□□□□	1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□38-□□□□	1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□38-□□□□	1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□38-□□□□	1	1 unit	1CA
Options								
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 1/97							

Note: Max. voltage for auxiliary circuits 240 V.

- 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 1/98](#).
- 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 1/85](#).
- 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 1/107](#).
- For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see [page 1/107](#).

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

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity 480 V		Price per PU	PU (UNIT, SET, M)	PS	PG
			kA	SD				
Article No. www.siemens.com/product?ArticleNo . For Article No. supplements, see page 1/97								
Horizontal main circuit connection								
I	1000	1000	65			1	1 unit	1CA
I	1600	1600	65			1	1 unit	1CA
II	2000	2000	100			1	1 unit	1CA
II	2500	2500	100			1	1 unit	1CA
II	3000	3000	100			1	1 unit	1CA
III	4000	4000	100			1	1 unit	1CA
III	5000	5000	100			1	1 unit	1CA
Vertical main circuit connection								
I	1000	1000	65			1	1 unit	1CA
I	1600	1600	65			1	1 unit	1CA
II	2000	2000	100			1	1 unit	1CA
II	2500	2500	100			1	1 unit	1CA
II	3000	3000	100			1	1 unit	1CA
III	4000	4000	100			1	1 unit	1CA
III	5000	5000	100			1	1 unit	1CA
Front main circuit connection, single hole								
I	1000	1000	65			1	1 unit	1CA
I	1600	1600	65			1	1 unit	1CA
II	2000	2000	100			1	1 unit	1CA
II	2500	2500	100			1	1 unit	1CA
II	3000	3000	100			1	1 unit	1CA
III	4000	4000	100			1	1 unit	1CA
Front main circuit connection, double hole								
I	1000	1000	65			1	1 unit	1CA
I	1600	1600	65			1	1 unit	1CA
II	2000	2000	100			1	1 unit	1CA
II	2500	2500	100			1	1 unit	1CA
II	3000	3000	100			1	1 unit	1CA
III	4000	4000	100			1	1 unit	1CA

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ³⁾	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/97	

Note: Max. voltage for auxiliary circuits 240 V.

- 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 1/98](#).
- 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 1/85](#).
- 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 1/107](#). The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see [page 1/100](#).
- For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see [page 1/107](#).

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current ¹⁾ I_n	Breaking capacity 480 V		Article No. www.siemens.com/ product?Article No. For Article No. supplements, see page 1/97	Price per PU	PU (UNIT, SET, M)	PS	PG
			kA	SD					
I	1000	1000	65	d	3WL5110-3□□45-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□45-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□45-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□45-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□45-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□45-□□□□		1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□45-□□□□		1	1 unit	1CA
Without guide frames (for guide frames, see page 1/105)									
I	1000	1000	65		3WL5110-3□□46-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□46-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□46-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□46-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□46-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□46-□□□□		1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□46-□□□□		1	1 unit	1CA
With guide frames, horizontal main circuit connection									
I	1000	1000	65		3WL5110-3□□47-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□47-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□47-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□47-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□47-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□47-□□□□		1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□47-□□□□		1	1 unit	1CA
With guide frames, vertical main circuit connection									
I	1000	1000	65		3WL5110-3□□48-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□48-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□48-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□48-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□48-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□48-□□□□		1	1 unit	1CA
III	5000	5000	100		3WL5350-4□□48-□□□□		1	1 unit	1CA
With guide frames, connecting flanges									
I	1000	1000	65		3WL5110-3□□48-□□□□		1	1 unit	1CA
I	1600	1600	65		3WL5116-3□□48-□□□□		1	1 unit	1CA
II	2000	2000	100		3WL5220-4□□48-□□□□		1	1 unit	1CA
II	2500	2500	100		3WL5225-4□□48-□□□□		1	1 unit	1CA
II	3000	3000	100		3WL5230-4□□48-□□□□		1	1 unit	1CA
III	4000	4000	100		3WL5340-4□□48-□□□□		1	1 unit	1CA

Options

Options		Additional price
Non-automatic air circuit breakers²⁾	Without Electronic Trip Units	None
Electronic Trip Units	Versions without ground-fault protection	
	ETU25B: Protection functions LSI	✓
	ETU45B: Protection functions LSIN ³⁾	✓
	ETU45B: Protection functions LSIN ³⁾ with 4-line display	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾	✓
	ETU45B: Protection functions LSING ³⁾⁴⁾ with 4-line display	✓
Operating mechanism, auxiliary release, auxiliary switch	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	None
	For further Article No. supplements, see page 1/97	

Note: Max. voltage for auxiliary circuits 240 V.

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 1/98](#).

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 1/85](#).

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 1/107](#). The internal current transformer for N-conductors can be ordered by adding the supplement "-Z" and order code "F23", see [page 1/100](#).

4) For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see [page 1/107](#).

Air Circuit Breakers

3WL5 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
up to 3200 A (DC), according 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		Article No. www.siemens.com/product?Article No. For Article No. supplements, see page 1/97	Price per PU	PU (UNIT, SET, M)	PS	PG
				kA	d					
A			A	kA	d					
Horizontal main circuit connection										
I	1600 ²⁾	4p	1600 ²⁾	20 ³⁾		3WL5120-8AA42-□□□□		1	1 unit	1CA
II ⁴⁾⁵⁾	3200	3p	3200	22		3WL5232-8AA32-□□□□		1	1 unit	1CA
Vertical main circuit connection										
I	1600 ²⁾	4p	1600 ²⁾	20 ³⁾		3WL5120-8AA41-□□□□		1	1 unit	1CA
II ⁴⁾⁵⁾	3200	3p	3200	25		3WL5232-8AA31-□□□□		1	1 unit	1CA

For further Article No. supplements, see page 1/97.

¹⁾ For permissible rated breaking capacity for non-automatic air circuit breakers, see [Technical Specifications, page 1/85](#).

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

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

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

⁵⁾ Z option A17 must usually be ordered in addition.

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 coil			
50/60 Hz V AC	V DC	50/60 Hz V AC	V DC		
208 ... 240	220 ... 250	230	220	4	✓
110 ... 127	110 ... 125	110	110 ... 125	5	✓
--	24	--	24	6	✓
Note					
To order different voltages for motorized operating mechanism and closing coil or closing coil for synchronization purposes: "1" at the 13th digit of the Article No. and order codes, see page 1/99 .					
1st auxiliary release					
Type	Condition	U_s 50/60 Hz V AC	U_s V DC		
Without 1st auxiliary releases	--	--	--	A	None
Shunt release suitable for uninterrupted duty, 100% OP	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
2nd auxiliary release					
Type	Condition	U_s 50/60 Hz V AC	U_s V DC		
Without 2nd auxiliary releases	--	--	--	A	None
Shunt release suitable for uninterrupted duty, 100% OP	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
Undervoltage release, instantaneous (≤ 80 ms), short-delay (≤ 200 ms)	Operating range $0.85 \dots 1.1 \times U_s$	--	24	J	✓
		--	30	K	✓
		--	48	L	✓
		--	60	U	✓
		110 ... 127	110 ... 125	M	✓
		208 ... 240	220 ... 250	N	✓
Undervoltage release, can be delayed between 0.2 s and 3.2 s	Operating range $0.85 \dots 1.1 \times U_s$	380 ... 415	--	P	✓
		--	48	Q	✓
		110 ... 127	110 ... 125	R	✓
		208 ... 240	220 ... 250	S	✓
380 ... 415	--	T	✓		
Auxiliary switches					
1st auxiliary switch block					
2 NO + 2 NC				2	None
1st + 2nd auxiliary switch block					
4 NO + 4 NC				4	✓
6 NO + 2 NC				7	✓
5 NO + 3 NC				8	✓

Air Circuit Breakers

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% acc. to IEC 60947-2 Annex 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-...			A 1 7	✓
3WL5340-4□□32-...	III	AC	A 1 7	✓
3WL5350-4□□31-... ⁶⁾			A 1 7	✓
3WL5350-4□□32-... ⁶⁾			A 1 7	✓
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 circuit breaker current ($I_{n\max}$). The rated current of the selected rating plug must be smaller than $I_{n\max}$.	I, II	250	B 0 2	None
		315	B 0 3	None
		400	B 0 4	None
		500	B 0 5	None
		630	B 0 6	None
		800	B 0 8	None
	I, II, III	1000	B 1 0	None
		1250	B 1 2	None
	II, III	1600	B 1 6	None
		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 counter¹⁾			C 0 1	✓
Electrical ON button S10 in the operator panel²⁾			C 1 1	✓
Possible only for circuit breakers with closing coil.	Button with sealing cap		C 1 1	✓
	Key operation with CES lock		C 1 2	✓
Storage status signaling switches²⁾ (S21)			C 2 0	✓
Ready-to-close signaling switches (S20)			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			S 2 4	✓
Mushroom pushbutton instead of the mechanical OFF pushbutton				
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)			K 0 7	✓
2nd tripped signaling switch²⁾⁴⁾⁵⁾ (S25)			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	✓

¹⁾ Only possible with motorized operating mechanism.

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

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

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

⁵⁾ Only possible with option "K07".

⁶⁾ 3WL5350-... available with A17 as from 01/2016.

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 solenoids				
		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 solenoids				
		50/60 Hz V AC	V DC			
Closing coil¹⁾ 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 solenoids				
		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	Size				
		I		R 2 1		✓
		II		R 2 1		✓
	4-pole	Size				
		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	✓

¹⁾ Overexcited, i.e. switching 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. opening 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 metering 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	✓	
Metering 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 Only possible with 4-pole circuit breaker with ETU45B	Size			
	I	F 2 3	✓	
	II	F 2 3	✓	
	III	F 2 3	✓	
EMC filters				
EMC filters		F 3 1	✓	
<ul style="list-style-type: none"> • Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) • Insertion loss (asymmetric) in the range 40 kHz to 10 MHz > 40 dB 				
Transformer (without iron core), Rogowski coil only				
Transformer Used in converter applications with high harmonics; can only be used with ETU45B or ETU76B <ul style="list-style-type: none"> • External 24 V DC supply required • Undervoltage release required Comprising: <ul style="list-style-type: none"> • 3 (3-pole) or 4 (4-pole) transformers • Warning signs • Manual 	Number of poles	Size		
	3-pole	I	K 6 0	✓
		II	K 6 0	✓
		III	K 6 0	✓
	4-pole	I	K 6 0	✓
		II	K 6 0	✓
		III	K 6 0	✓
Locking devices (for fixed-mounted versions and withdrawable versions)				
Locking devices against unauthorized closing, in the operator panel The disconnector 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 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 The disconnector 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	✓	

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

²⁾ Additional voltage transformers are required for connection of the metering function *Plus*, see page 1/116.

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
Locking mechanisms (for fixed-mounted versions)			
Locking mechanism Not possible in combination with order codes "R81", "R85" or "R86".	To prevent opening of the cabinet door in ON position	S 3 0	✓
Locking mechanisms (for withdrawable versions)			
Locking mechanism 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 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. Not possible in combination with order codes "R30", "R50", "R61", "R68" or "R60".	Version		
	Made by CES	R 8 1	✓
	Made by Profalux	R 8 5	✓
	Made by Ronis	R 8 6	✓
Connection methods for auxiliary conductors (for fixed-mounted and withdrawable versions)			
Connections for screwless terminals (tension spring)	Version		
	Fixed-mounted	N 6 1	✓
	Withdrawable	P 6 1	✓

Air Circuit Breakers

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Options

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Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> +...+...	Additional price	
For "withdrawable circuit breakers with guide frames" or for "guide frames"				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: 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	✓	✓	
III	Up to 5000 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	✓	✓	
III	Up to 5000 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	✓	✓	

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Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> +...+...	Additional price	
For 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 connections¹⁾	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	✓	✓
		Up to 2000 A	N 2 0	✓	✓
	II	Up to 2000 A	N 2 0	✓	✓
		Up to 2500 A	N 2 0	✓	✓
Up to 3200 A	N 2 0	✓	✓		
III	Up to 4000 A	N 2 0	✓	✓	
	Up to 5000 A	N 2 0	✓	✓	
Connection methods for main connections	Size	Rated current I_n			
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	✓	✓
	Up to 3200 A	N 2 4	✓	✓	
	III	Up to 4000 A	N 2 4	✓	✓
Up to 5000 A		N 2 4	✓	✓	

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

Air Circuit Breakers

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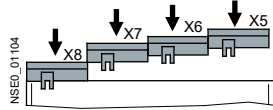
Accessories and spare parts

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 Unit ETU25B	0	
c2 Electronic Trip Unit ETU45B (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 release		
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 module		
f1 Without communication module COM15/COM16	0	
f2 With communication module COM15/COM16 - occupies the entire terminal strip X7, making the following options no longer possible:	+1	X7
<ul style="list-style-type: none"> • 1st tripped signaling switch S24 • 2nd tripped signaling switch S25 • Stored-energy status indicator 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 Electrical 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 1/105 onwards and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/112.

Air Circuit Breakers

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Accessories and spare parts

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Selection and ordering data

Guide frames for circuit breakers/non-automatic air circuit breakers approved acc. to UL 489

Size	Max. rated circuit breaker current $I_{n \max}$	Breaking capacity $I_{cu} = I_{cs}$	SD	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS	PG
	A	kA	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Front main circuit connection, single hole							
I	1000	... 66		3WL9251-1AA□□-□□A1	1	1 unit	1CA
	1600	... 66		3WL9251-2AA□□-□□A1	1	1 unit	1CA
II	2000	... 100		3WL9252-3AA□□-□□A1	1	1 unit	1CA
	2500	... 100		3WL9252-4AA□□-□□A1	1	1 unit	1CA
	3000	... 100		3WL9252-5AA□□-□□A1	1	1 unit	1CA
III	4000	... 100		3WL9253-6AA□□-□□A1	1	1 unit	1CA
Front main circuit connection, double hole							
I	1000	... 66		3WL9251-1AB□□-□□A1	1	1 unit	1CA
	1600	... 66		3WL9251-2AB□□-□□A1	1	1 unit	1CA
II	2000	... 100		3WL9252-3AB□□-□□A1	1	1 unit	1CA
	2500	... 100		3WL9252-4AB□□-□□A1	1	1 unit	1CA
	3000	... 100		3WL9252-5AB□□-□□A1	1	1 unit	1CA
III	4000	... 100		3WL9253-6AB□□-□□A1	1	1 unit	1CA
Horizontal main circuit connection							
I	1000	... 66		3WL9251-1AC□□-□□A1	1	1 unit	1CA
	1600	... 66		3WL9251-2AC□□-□□A1	1	1 unit	1CA
II	2000	... 100		3WL9252-3AC□□-□□A1	1	1 unit	1CA
	2500	... 100		3WL9252-4AC□□-□□A1	1	1 unit	1CA
	3000	... 100		3WL9252-5AC□□-□□A1	1	1 unit	1CA
III	4000	... 100		3WL9253-6AC□□-□□A1	1	1 unit	1CA
	5000	... 100		3WL9253-7AC□□-□□A1	1	1 unit	1CA
Vertical main circuit connection							
I	1000	... 66		3WL9251-1AD□□-□□A1	1	1 unit	1CA
	1600	... 66		3WL9251-2AD□□-□□A1	1	1 unit	1CA
II	2000	... 100		3WL9252-3AD□□-□□A1	1	1 unit	1CA
	2500	... 100		3WL9252-4AD□□-□□A1	1	1 unit	1CA
	3000	... 100		3WL9252-5AD□□-□□A1	1	1 unit	1CA
III	4000	... 100		3WL9253-6AD□□-□□A1	1	1 unit	1CA
	5000	... 100		3WL9253-7AD□□-□□A1	1	1 unit	1CA
Main circuit connection connecting flanges							
I	1000	... 66		3WL9251-1AE□□-□□A1	1	1 unit	1CA
	1600	... 66		3WL9251-2AE□□-□□A1	1	1 unit	1CA
II	2000	... 100		3WL9252-3AE□□-□□A1	1	1 unit	1CA
	2500	... 100		3WL9252-4AE□□-□□A1	1	1 unit	1CA
	3000	... 100		3WL9252-5AE□□-□□A1	1	1 unit	1CA
III	4000	... 100		3WL9253-6AE□□-□□A1	1	1 unit	1CA
Options							
Number of auxiliary supply connectors	None			0			None
	1 connector			1			✓
	2 connectors			2			✓
	3 connectors			3			✓
	4 connectors			4			✓
Note							
For required number of auxiliary supply connectors, see table page 1/104 .							
Type of auxiliary circuit connections	None (can only be selected if the number of auxiliary supply connectors = 0)			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			✓

Air Circuit Breakers

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

Accessories and spare parts


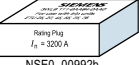


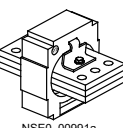
Size	Max. rated circuit breaker current $I_{n\ max}$ A	Breaking capacity $I_{cu} = I_{cs}$ kA	SD d	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Front main circuit connection, single hole								
I	1000	... 66		3WL9251-1BA□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9251-2BA□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9252-3BA□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9252-4BA□□-□□A1		1	1 unit	1CA
	3000	... 100		3WL9252-5BA□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9253-6BA□□-□□A1		1	1 unit	1CA
Front main circuit connection, double hole								
I	1000	... 66		3WL9251-1BB□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9251-2BB□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9252-3BB□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9252-4BB□□-□□A1		1	1 unit	1CA
	3000	... 100		3WL9252-5BB□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9253-6BB□□-□□A1		1	1 unit	1CA
Horizontal main circuit connection								
I	1000	... 66		3WL9251-1BC□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9251-2BC□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9252-3BC□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9252-4BC□□-□□A1		1	1 unit	1CA
	3000	... 100		3WL9252-5BC□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9253-6BC□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9253-7BC□□-□□A1		1	1 unit	1CA
Vertical main circuit connection								
I	1000	... 66		3WL9251-1BD□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9251-2BD□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9252-3BD□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9252-4BD□□-□□A1		1	1 unit	1CA
	3000	... 100		3WL9252-5BD□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9253-6BD□□-□□A1		1	1 unit	1CA
	5000	... 100		3WL9253-7BD□□-□□A1		1	1 unit	1CA
Main circuit connection connecting flanges								
I	1000	... 66		3WL9251-1BE□□-□□A1		1	1 unit	1CA
	1600	... 66		3WL9251-2BE□□-□□A1		1	1 unit	1CA
II	2000	... 100		3WL9252-3BE□□-□□A1		1	1 unit	1CA
	2500	... 100		3WL9252-4BE□□-□□A1		1	1 unit	1CA
	3000	... 100		3WL9252-5BE□□-□□A1		1	1 unit	1CA
III	4000	... 100		3WL9253-6BE□□-□□A1		1	1 unit	1CA
Options								
Number of auxiliary supply connectors	None			0				None
	1 connector			1				✓
	2 connectors			2				✓
	3 connectors			3				✓
	4 connectors			4				✓
Note								
For required number of auxiliary supply connectors, see table on page 1/104.								
Type of auxiliary circuit connections	None (can only be selected if the number of auxiliary supply connectors = 0)			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				✓

Air Circuit Breakers

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Accessories and spare parts

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Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Protective device with device holder and optional metering function¹⁾						
 NSE0_01610b						
Type	With protection function	Metering function				
ETU25B	LSI	None	3WL9352-5AA00-0AA1	1	1 unit	1CA
ETU45B (without display)	LSIN(G)	None With metering function <i>Plus</i>	3WL9354-5AA00-0AA1 3WL9354-5AA20-0AA1	1	1 unit	1CA
3WL931.-.AA.0-0AA1						
Rating plugs²⁾						
 NSE0_00992b						
Size	Rated current I_n A					
I, II	250		3WL9111-2AA51-0AA0	1	1 unit	1CA
	315		3WL9111-2AA52-0AA0	1	1 unit	1CA
	400		3WL9111-2AA53-0AA0	1	1 unit	1CA
	500		3WL9111-2AA54-0AA0	1	1 unit	1CA
	630		3WL9111-2AA55-0AA0	1	1 unit	1CA
	800		3WL9111-2AA56-0AA0	1	1 unit	1CA
I, II, III	1000		3WL9111-2AA57-0AA0	1	1 unit	1CA
	1250		3WL9111-2AA58-0AA0	1	1 unit	1CA
II, III	1600		3WL9111-2AA61-0AA0	1	1 unit	1CA
	2000		3WL9111-2AA62-0AA0	1	1 unit	1CA
	2500		3WL9111-2AA63-0AA0	1	1 unit	1CA
	3000		3WL9111-2AA77-0AA0	1	1 unit	1CA
	3200		3WL9111-2AA64-0AA0	1	1 unit	1CA
	4000		3WL9111-2AA65-0AA0	1	1 unit	1CA
III	5000		3WL9111-2AA66-0AA0	1	1 unit	1CA
Ground-fault modules³⁾						
 NSE0_01027a						
Versions						
	• GFM AT 45B (only for ETU45B) alarm and tripping		3WL9111-2AT53-0AA0	1	1 unit	1CA
3WL9111-0AT53-0AA0						
Displays						
 NSE0_01609						
	• For ETU45B • 4-line		3WL9111-1AT81-0AA0	1	1 unit	1EA
3WL9111-0AT81-0AA0						
External current transformer for N-conductor						
For T5, "Measurement Method" function, see Technical Information at www.siemens.com/lowvoltage/product-support .						
 NSE0_00991a						
Copper connection pieces	Size					
---	I		3WL9111-0AA21-0AA0	1	1 unit	1CA
	II		3WL9111-0AA22-0AA0	1	1 unit	1CA
	III		3WL9111-0AA23-0AA0	1	1 unit	1CA
✓	I		3WL9111-0AA31-0AA0	1	1 unit	1CA
	II		3WL9111-0AA32-0AA0	1	1 unit	1CA
	III		3WL9111-0AA33-0AA0	1	1 unit	1CA
EMC filters						
• Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)			3WL9111-0AK32-0AA0	1	1 unit	1CA
• Insertion loss (asymmetric) in the range 40 kHz to 10 MHz > 40 dB						

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: $I_n \leq I_{n,max}$

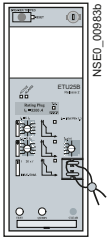
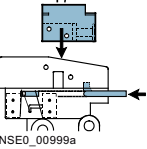
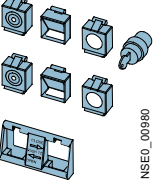
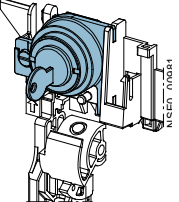
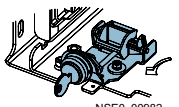
³⁾ For direct measurement of the ground-fault current, e.g. in the neutral point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL is 0.11 Ω . If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must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

Air Circuit Breakers

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

Accessories and spare parts

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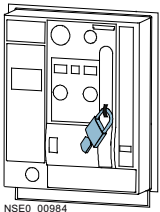
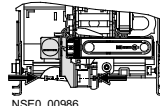
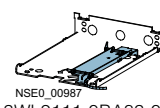

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
More accessories for Electronic Trip Units						
 NSE0_00983b	Sealable and lockable covers					
	Version					
	• For ETU25B and ETU45B		3WL9111-0AT45-0AA0	1	1 unit	1CA
	Automatic reset of the reclosing lockout		3WL9111-0AK21-0AA0	1	1 unit	1CA
	Spare part for option K01 , see "-Z" + order code, page 1/98.					
	Remote reset coils¹⁾					
	• For mechanical tripped indicator					
	• Spare part for options K10 to K13 , see "-Z" + order code, page 1/98.					
	Note					
	Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 also needed.					
	Versions					
	• 24 V DC		3WL9111-0AK03-0AA0	1	1 unit	1CA
	• 48 V DC		3WL9111-0AK04-0AA0	1	1 unit	1CA
	• 120 V AC/125 V DC		3WL9111-0AK05-0AA0	1	1 unit	1CA
	• 208-250 V AC/208-250 V DC		3WL9111-0AK06-0AA0	1	1 unit	1CA
	Retrofittable internal CubicleBUS wiring for connection to terminal X8		3WL9111-0AK30-0AA0	1	1 unit	1CA
	• For ETU45B					
	• With 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
	• Not for ETU Release 2					
	• Without male connector					
 NSE0_00999a						
3WL9111-0AT45-0AA0						
3WL9111-0AK0-0AA0						
Locking devices						
 NSE0_00980	Interlocking set for mechanical ON/OFF					
	• Each consisting of 2 transparent covers 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
	• Made by CES		3WL9111-0BA22-0AA0	1	1 unit	1CA
	• Made by IKON		3WL9111-0BA24-0AA0	1	1 unit	1CA
3WL9111-0BA22-0AA0						
 NSE0_00981	Locking devices against unauthorized closing, in the operator panel					
	• The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1					
	• Spare part for option S01 to S09 , see "-Z" + order code, page 1/100.					
	Versions					
	• Assembly kit FORTRESS or Castell ³⁾		3WL9111-0BA31-0AA0	1	1 unit	1CA
	• Made by Ronis		3WL9111-0BA33-0AA0	1	1 unit	1CA
	• Made by KIRK-Key ³⁾		3WL9111-0BA34-0AA0	1	1 unit	1CA
	• Made by Profalux		3WL9111-0BA35-0AA0	1	1 unit	1CA
	• Made by CES		3WL9111-0BA36-0AA0	1	1 unit	1CA
	• Made by IKON		3WL9111-0BA38-0AA0	1	1 unit	1CA
	• Assembly kit for padlocks ⁴⁾		3WL9111-0BA41-0AA0	1	1 unit	1CA
3WL9111-0BA31-0AA0						
 NSE0_00982	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 option R60 , R61 , R68 , see "-Z" + order code, page 1/100.					
	Versions					
	• Made by CES		3WL9111-0BA51-0AA0	1	1 unit	1CA
	• Made by IKON		3WL9111-0BA53-0AA0	1	1 unit	1CA
	• Made by KIRK-Key ³⁾		3WL9111-0BA57-0AA0	1	1 unit	1CA
	• Made by Ronis		3WL9111-0BA58-0AA0	1	1 unit	1CA
	• Made by Profalux		3WL9111-0BA50-0AA0	1	1 unit	1CA
3WL9111-0BA53-0AA0						

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.

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 <p>NSE0_00984 3WL9111-0BA71-0AA0</p> <p>Locking devices for operating mechanism handle with padlock¹⁾ Spare part for option S33, see "-Z" + order code, page 1/100.</p>	d	3WL9111-0BA71-0AA0		1	1 unit	1CA
 <p>NSE0_00986 3WL9111-0BA76-0AA0</p> <p>Locking devices to prevent movement of the withdrawable circuit breakers <ul style="list-style-type: none"> • Safety lock for mounting on the circuit breaker • Spare part for option S71, S75, S76, see "-Z" + order code, page 1/100. </p> <p>Versions</p> <ul style="list-style-type: none"> • Made by CES • Made by IKON • Made by Profalux • Made by Ronis • Made by KIRK-Key²⁾ 		3WL9111-0BA73-0AA0 3WL9111-0BA75-0AA0 3WL9111-0BA76-0AA0 3WL9111-0BA77-0AA0 3WL9111-0BA80-0AA0		1	1 unit	1CA 1CA 1CA 1CA 1CA
<p>Interlocking systems <ul style="list-style-type: none"> • Made by CES • 2 of the same keys for 3 circuit breakers • Locking device in OFF position • Lock in the operator panel • A maximum of 2 circuit breakers can be switched on </p>		3WL9111-0BA43-0AA0		1	1 unit	1CA
Locking mechanisms						
 <p>NSE0_00987 3WL9111-0BA83-0AA0</p> <p>Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position <ul style="list-style-type: none"> • Consisting of Bowden wire and lock in the cabinet door on the circuit breaker • Spare part for option R81, R85, R86, see "-Z" + order code, page 1/101. </p> <p>Versions</p> <ul style="list-style-type: none"> • Made by CES • Made by IKON • Made by Profalux • Made by Ronis <p>Note</p> <p>Not possible in combination with "Locking mechanism to prevent opening of the cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the cabinet door open" (order code "R50").</p>		3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0 3WL9111-0BA86-0AA0		1	1 unit	1CA 1CA 1CA 1CA
 <p>NSE0_00988 3WL9111-0BB12-0AA0</p> <p>Locking mechanisms to prevent opening of the cabinet door in ON position <ul style="list-style-type: none"> • Fixed-mounted • Can be defeated • Spare part for option S30, see "-Z" + order code, page 1/101. </p>		3WL9111-0BB12-0AA0		1	1 unit	1CA
<p>Locking mechanisms to prevent opening of the cabinet door <ul style="list-style-type: none"> • Guide frames • Can be defeated • Spare part for option R30, see "-Z" + order code, page 1/101. </p> <p>Note</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>		3WL9111-0BB13-0AA0		1	1 unit	1CA
<p>Locking mechanisms to prevent movement with the cabinet door open <ul style="list-style-type: none"> • Guide frames • Spare part for option R50, see "-Z" + order code, page 1/101. </p> <p>Note</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>		3WL9111-0BB15-0AA0		1	1 unit	1CA

¹⁾ Padlock not included in the scope of supply.

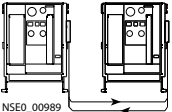
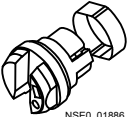

²⁾ Locks, cylinders and keys must be ordered from the manufacturer.

Air Circuit Breakers

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

Accessories and spare parts

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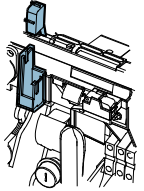
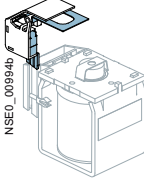
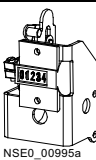
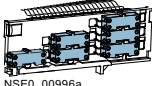
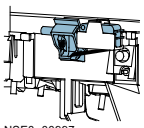
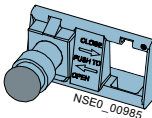
Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Interlocks						
 NSE0_00989	Mutual mechanical interlocking with Bowden wire 2000 mm (one required for each circuit breaker)					
3WL9111-0BB21-0AA0	Type	When ordered separately	Spare part for			
	Fixed-mounted circuit breakers	--	Option S55 , see "-Z" + order code, page 1/99.	3WL9111-0BB21-0AA0	1	1 unit 1CA
	Module for withdrawable circuit breakers with guide frame	--	Option R55 , see "-Z" + order code, page 1/99.	3WL9111-0BB24-0AA0	1	1 unit 1CA
	Module for guide frame	✓	Option R56 , see "-Z" + order code, page 1/99.	3WL9111-0BB22-0AA0	1	1 unit 1CA
	Module for withdrawable circuit breaker	✓	Option R57 , see "-Z" + order code, page 1/99.	3WL9111-0BB23-0AA0	1	1 unit 1CA
	Adapter for size III withdrawable circuit breaker	✓	--	3WL9111-0BB30-0AA0	1	1 unit 1CA
 NSE0_01886	Couplings on the circuit breaker (with ring) for mutual interlocking Can be used in all circuit breakers					
3WL9112-8HA47-0AA0			3WL9112-8HA47-0AA0	1	1 unit 1CA	
Bowden wires						
Versions						
	2000 mm			3WL9111-0BB45-0AA0	1	1 unit 1CA
	3000 mm			3WL9111-0BB46-0AA0	1	1 unit 1CA
	4500 mm			3WL9111-0BB47-0AA0	1	1 unit 1CA
Transfer control devices						
	3KC ATC5300 and ATC3100 transfer control devices For combination with two air circuit breakers/ molded case circuit breakers for changeover according to IEC 60947-6-1. For more information, see chapter "Monitoring Devices".					
3KC9000-8TL30 3KC9000-8EL10						
Test devices						
	Manual test device for Electronic Trip Units ETU25B and ETU45B For testing the Electronic Trip Unit functions of all 3WL ETUs		3WL9111-0AT32-0AA0		1	1 unit 1CA
	Function testers For testing the tripping characteristics of Electronic Trip Units ETU25B and ETU45B		3WL9111-0AT44-0AA0		1	1 unit 1CA
Capacitor storage devices						
	Capacitor storage devices • For shunt releases • Storage time 5 min		3WL9111-0BA14-0AA0		1	1 unit 1CA
	Rated control supply voltage/rated operational voltage					
	50/60 Hz V AC	V DC				
	220 ... 240	220 ... 250				
	Note					
	• Rated control supply voltage must match the rated control supply voltage of the shunt release • Suitable also for 3VL circuit breakers					

Air Circuit Breakers

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

Accessories and spare parts

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	Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Indicators, control elements							
	Ready-to-close signaling switches (S20) <ul style="list-style-type: none"> • 1 NO contact • Spare part for option C22, see "-Z" + order code, page 1/98. 		3WL9111-0AH01-0AA0		1	1 unit	1CA
NSE0_00993a 3WL9111-0AH01-0AA0							
	Signaling switches¹⁾²⁾ (S22 or S23) <ul style="list-style-type: none"> • 1st or 2nd auxiliary release • Spare part for option C26 and C27, see "Z" + order code, page 1/98. 		3WL9111-0AH02-0AA0		1	1 unit	1CA
NSE0_00994b 3WL9111-0AH02-0AA0							
	1st tripped signaling switch¹⁾²⁾⁷⁾ (S24) <ul style="list-style-type: none"> • 1 CO contact • Spare part for option K07, see "-Z" + order code, page 1/98. 		3WL9111-0AH14-0AA0		1	1 unit	1CA
	2nd tripped signaling switch¹⁾²⁾³⁾⁷⁾ (S25) <ul style="list-style-type: none"> • 1 NO contact • Spare part for option K06, see "-Z" + order code, page 1/98. 		3WL9111-0AH17-0AA0		1	1 unit	1CA
	Operating cycles counter <ul style="list-style-type: none"> • Mechanical⁴⁾ • Spare part for option C01, see "-Z" + order code, page 1/98. 		3WL9111-0AH07-0AA0		1	1 unit	1CA
							
NSE0_00995a 3WL9111-0AH07-0AA0							
	Stored-energy status signaling switches¹⁾²⁾ <ul style="list-style-type: none"> • 1 NO contact • Spare part for option C20, see "-Z" + order code, page 1/98. 		3WL9111-0AH08-0AA0		1	1 unit	1CA
	Position signaling switches for guide frames Spare part for option R15 and R16 , see "Z" + order code, page 1/99. Versions <ul style="list-style-type: none"> • 1st block (3 CO contacts) • 2nd block (6 CO contacts) 		3WL9111-0AH11-0AA0 3WL9111-0AH12-0AA0		1	1 unit	1CA
							
NSE0_00996a 3WL9111-0AH12-0AA0							
	Electrical ON buttons¹⁾⁵⁾ (S10) <ul style="list-style-type: none"> • Button + wiring²⁾ • For operator panel • Spare part for options C11 and C12, see "Z" + order code, page 1/98. Versions <ul style="list-style-type: none"> • With sealing cap C11 • With CES assembly kit C12 • With IKON assembly kit Note Possible only for circuit breakers with closing coil.		3WL9111-0AJ02-0AA0 3WL9111-0AJ03-0AA0 3WL9111-0AJ05-0AA0		1	1 unit	1CA
							
NSE0_00997a 3WL9111-0AJ0.-0AA0							
	Motor shutdown switches⁶⁾ (S12) <ul style="list-style-type: none"> • Mounting on operator panel • Spare part for option S25, see "-Z" + order code, page 1/98. 		3WL9111-0AJ06-0AA0		1	1 unit	1CA
	EMERGENCY-STOP pushbuttons <ul style="list-style-type: none"> • Mushroom pushbutton instead of the mechanical OFF pushbutton • Spare part for option S24, see "-Z" + order code, page 1/98. 		3WL9111-0BA72-0AA0		1	1 unit	1CA
							
NSE0_00985 3WL9111-0BA72-0AA0							

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

2) X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see page 1/104 and page 1/112).

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.

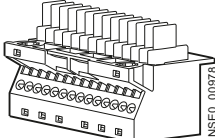
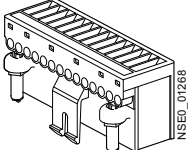
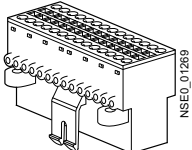


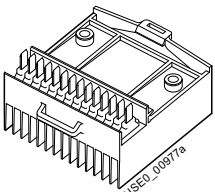
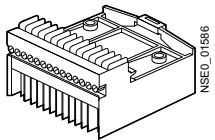
6) Not possible with electrical ON button.

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

Air Circuit Breakers

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

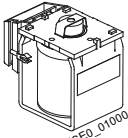
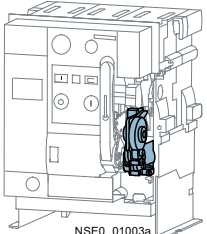
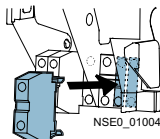
Accessories and spare parts

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

For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

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

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG		
Auxiliary releases								
 3WL9111-0AD06-0AA0	Closing coils/shunt releases							
	Versions	Voltage						
	100% OP	24 V DC	3WL9111-0AD01-0AA0		1	1 unit	1CA	
		30 V DC	3WL9111-0AD02-0AA0		1	1 unit	1CA	
		48 V DC	3WL9111-0AD03-0AA0		1	1 unit	1CA	
		60 V DC	3WL9111-0AD04-0AA0		1	1 unit	1CA	
		110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AD05-0AA0		1	1 unit	1CA	
		220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AD06-0AA0		1	1 unit	1CA	
	5% OP ¹⁾	24 V DC	3WL9111-0AD11-0AA0		1	1 unit	1CA	
		48 V DC	3WL9111-0AD12-0AA0		1	1 unit	1CA	
		110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AD13-0AA0		1	1 unit	1CA	
		220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AD14-0AA0		1	1 unit	1CA	
		Undervoltage releases						
		Versions	Voltage					
Instantaneous	24 V DC	3WL9111-0AE01-0AA0		1	1 unit	1CA		
	30 V DC	3WL9111-0AE02-0AA0		1	1 unit	1CA		
	48 V DC	3WL9111-0AE03-0AA0		1	1 unit	1CA		
	60 V DC	3WL9111-0AE07-0AA0		1	1 unit	1CA		
	110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AE04-0AA0		1	1 unit	1CA		
Delayed	220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AE05-0AA0		1	1 unit	1CA		
	48 V DC	3WL9111-0AE11-0AA0		1	1 unit	1CA		
	110 ... 125 V DC/110 ... 127 V AC	3WL9111-0AE12-0AA0		1	1 unit	1CA		
	220 ... 250 V DC/208 ... 240 V AC	3WL9111-0AE13-0AA0		1	1 unit	1CA		
Operating mechanisms								
 3WL9111-0AF0.-0AA0	Motorized operating mechanisms²⁾							
	Versions							
	<ul style="list-style-type: none"> • 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	
				3WL9111-0AF02-0AA0		1	1 unit	1CA
				3WL9111-0AF03-0AA0		1	1 unit	1CA
				3WL9111-0AF04-0AA0		1	1 unit	1CA
Auxiliary contacts								
 3WL9111-0AG03-0AA0	Auxiliary switch blocks							
	Versions							
	<ul style="list-style-type: none"> • 2 NO contacts + 2 NC contacts • 2 NO contacts • 1 NO contact + 1 NC contact 		3WL9111-0AG01-0AA0		1	1 unit	1CA	
				3WL9111-0AG02-0AA0		1	1 unit	1CA
			3WL9111-0AG03-0AA0		1	1 unit	1CA	

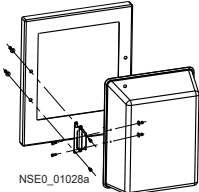
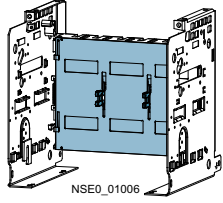
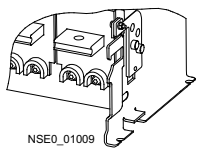
¹⁾ Overexcited, i.e. switching time 50 ms (standard > 80 ms).

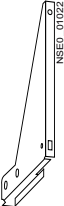
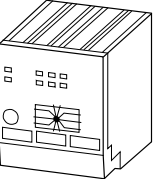
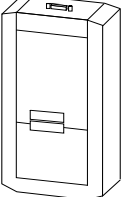
²⁾ X5 auxiliary supply connector required for circuit breakers or guide frames.
If this is not already available, please order additionally
(see page 1/104 and page 1/112).

Air Circuit Breakers

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

Accessories and spare parts

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Door sealing frames, hoods, shutters						
Door sealing frames Spare part for option T40 , see "-Z" + order code, page 1/98 .		3WL9111-0AP01-0AA0		1	1 unit	1CA
Protective covers IP55 Notes <ul style="list-style-type: none"> • 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
 <p>NSE0_01028a</p> <p>3WL9111-0AP02-0AA0</p>						
Shutters Spare part for option R21 , see "-Z" + order code, page 1/99 .						
Number of poles	Size					
3-pole	I	3WL9111-0AP04-0AA0		1	1 unit	1CA
	II	3WL9111-0AP06-0AA0		1	1 unit	1CA
	III	3WL9111-0AP07-0AA0		1	1 unit	1CA
4-pole	I	3WL9111-0AP08-0AA0		1	1 unit	1CA
	II	3WL9111-0AP11-0AA0		1	1 unit	1CA
	III	3WL9111-0AP12-0AA0		1	1 unit	1CA
 <p>NSE0_01006</p> <p>3WL9111-0AP..-0AA0</p>						
Coding for withdrawable version						
Coding for withdrawable version By customer, for 36 coding variants						
Versions <ul style="list-style-type: none"> • Sizes I and II • Size III 		3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0		1	1 unit	1CA
 <p>NSE0_01009</p> <p>3WL9111-0AR12-0AA0 3WL9111-0AR13-0AA0</p>						

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Support brackets						
 <p>3WL9111-0BB50-0AA0</p>		Support brackets				
<ul style="list-style-type: none"> For mounting fixed-mounted circuit breakers on vertical plane Only for sizes I and II (1 set = 2 units) 		3WL9111-0BB50-0AA0		1	1 unit	1CA
CubicleBUS modules¹⁾⁴⁾						
 <p>NSE0_01023a 3WL9111-0AT23-0AA0</p>		Digital output modules with rotary coding switch, relay outputs		1	1 unit	1EA
		Digital output modules, configurable, relay outputs		1	1 unit	1EA
		Digital input modules		1	1 unit	1EA
		Analog output modules		1	1 unit	1EA
		Zone Selective Interlocking modules		1	1 unit	1EA
Parameterization systems²⁾						
 <p>NSE0_01024a 3WL9111-0AT28-0AA0</p>		BDA Plus²⁾³⁾		1	1 unit	1CA
<ul style="list-style-type: none"> 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 		3WL9111-2AT33-0AA0				
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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/63452759 						

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

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

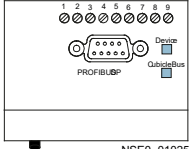
3) Operation under Windows Vista and Windows 7 possible with restrictions.

4) All communication components, CubicleBUS modules and metering _functions are available for the ETU45B Electronic Trip Units.

Air Circuit Breakers

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

Accessories and spare parts

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Accessories for communications³⁾						
Pre-assembled cables for CubicleBUS modules						
Versions						
• 0.2 m long, for connection to 3WL <u>with</u> COM15/COM16		3WL9111-0BC04-0AA0		1	1 unit	1CA
• 1 m long, for connection to 3WL <u>with</u> COM15/COM16		3WL9111-0BC02-0AA0		1	1 unit	1CA
• 2 m long, for connection to 3WL <u>with</u> COM15/COM16		3WL9111-0BC03-0AA0		1	1 unit	1CA
• 2 m long, for connection to 3WL <u>without</u> COM15/COM16		3WL9111-0BC05-0AA0		1	1 unit	1CA
SENTRON manual for communication solutions						
<ul style="list-style-type: none"> Detailed description of the communication functions for circuit breakers. Installation, connection, commissioning, data transmission to the PLC. Free download from: www.siemens.com/lowvoltage/manuals 						
Voltage transformers						
• 3-pole, for 3WL circuit breakers with metering function <i>Plus</i> ¹⁾		3WL9111-0BB68-0AA0		1	1 unit	1CA
• 380 ... 690 V/100 V, class 0.5						
Retrofitting and spare parts³⁾						
 <p>3WL9111-0AT15-0AA0</p>		COM15 PROFIBUS modules For ETU45B Electronic Trip Unit		3WL9111-1AT65-0AA0	1	1 unit 1EA
COM16 MODBUS modules For ETU45B Electronic Trip Unit						
				3WL9111-1AT15-0AA0	1	1 unit 1CA
Breaker Status Sensor (BSS) For ETU45B Electronic Trip Unit						
				3WL9111-1AT16-0AA0	1	1 unit 1EA
Metering function <i>Plus</i>²⁾ Voltage transformer required						
				3WL9111-1AT03-0AA0	1	1 unit 1EA
Transformers (without iron core), Rogowski coil only NEW Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B						
<ul style="list-style-type: none"> External 24 V DC supply required Undervoltage release required Comprises: <ul style="list-style-type: none"> Transformer Warning signs Manual 						
Number of poles		Size				
3-pole	I		3WL9111-0AA42-0AA0	1	1 unit	1CA
	II		3WL9111-0AA43-0AA0	1	1 unit	1CA
	III		3WL9111-0AA44-0AA0	1	1 unit	1CA
4-pole	I		3WL9111-0AA45-0AA0	1	1 unit	1CA
	II		3WL9111-0AA46-0AA0	1	1 unit	1CA
	III		3WL9111-0AA47-0AA0	1	1 unit	1CA

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

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

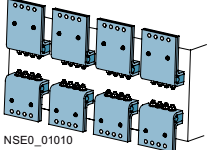
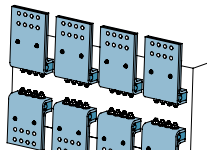
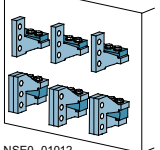
³⁾ All communication components, **CubicleBUS** modules and metering functions are available for the ETU45B Electronic Trip Units.

Air Circuit Breakers

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

Accessories and spare parts

1

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

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.

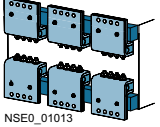
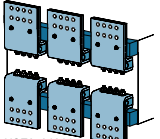
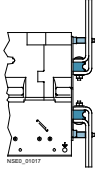

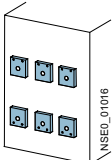
²⁾ In the case of vertical connection size II, up to 2500 A one 3WL9111-0AM02-0AA0 vertical connection is required, up to 3200 A two 3WL9111-0AM02-0AA0 vertical connections are required.

Air Circuit Breakers

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

Accessories and spare parts

1

Designation	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main conductor connections, withdrawable versions (essential accessories)						
Specified for each connection						
Front-accessible main connections, single hole at top or at bottom¹⁾						
 NSE0_01013 3WL9111-0AN06-0AA0	Size	Rated current I_n				
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN01-0AA0 3WL9111-0AN02-0AA0	1	1 unit	1CA
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN03-0AA0 3WL9111-0AN04-0AA0 3WL9111-0AN05-0AA0	1	1 unit	1CA
	III	Up to 4000 A	3WL9111-0AN06-0AA0	1	1 unit	1CA
Main connections accessible from front according to DIN 43673, double hole at top or at bottom¹⁾						
 NSE0_01014 3WL9111-0AN14-0AA0	Size	Rated current I_n				
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN07-0AA0 3WL9111-0AN08-0AA0	1	1 unit	1CA
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN11-0AA0 3WL9111-0AN12-0AA0 3WL9111-0AN13-0AA0	1	1 unit	1CA
	III	Up to 4000 A	3WL9111-0AN14-0AA0	1	1 unit	1CA
Supports for front and DIN connecting bars						
 NSE0_01015 3WL9111-0AN41-0AA0	Number of poles	Size				
	3-pole for 3 bars	I	3WL9111-0AN41-0AA0	1	1 unit	1CA
		II	3WL9111-0AN42-0AA0	1	1 unit	1CA
		III	3WL9111-0AN43-0AA0	1	1 unit	1CA
	4-pole for 4 bars	I	3WL9111-0AN44-0AA0	1	1 unit	1CA
		II	3WL9111-0AN45-0AA0	1	1 unit	1CA
		III	3WL9111-0AN46-0AA0	1	1 unit	1CA
Rear vertical main connections						
 NSE0_01015 3WL9111-0AN23-0AA0	Size	Rated current I_n				
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN15-0AA0 3WL9111-0AN16-0AA0	1	1 unit	1CA
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN17-0AA0 3WL9111-0AN18-0AA0 3WL9111-0AN21-0AA0	1	1 unit	1CA
	III	Up to 5000 A	3WL9111-0AN22-0AA0	1	1 unit	1CA
Rear horizontal main connections						
	Size	Rated current I_n				
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN32-0AA0 3WL9111-0AN33-0AA0	1	1 unit	1CA
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN34-0AA0 3WL9111-0AN35-0AA0 3WL9111-0AN36-0AA0	1	1 unit	1CA
	III	Up to 5000 A	3WL9111-0AN37-0AA0	1	1 unit	1CA
Connecting flange						
 NSE0_01016 3WL9111-0AN24-0AA0	Size	Rated current I_n				
	I	Up to 1000 A 1250 A to 1600 A	3WL9111-0AN24-0AA0 3WL9111-0AN25-0AA0	1	1 unit	1CA
	II	Up to 2000 A Up to 2500 A Up to 3200 A	3WL9111-0AN26-0AA0 3WL9111-0AN27-0AA0 3WL9111-0AN28-0AA0	1	1 unit	1CA
	III	Up to 4000 A	3WL9111-0AN31-0AA0	1	1 unit	1CA
Conversion sets						
Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers						
<ul style="list-style-type: none"> • 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	3WL9111-0BC11-0AA0	1	1 unit	1CA
		II	3WL9111-0BC12-0AA0	1	1 unit	1CA
		III	3WL9111-0BC13-0AA0	1	1 unit	1CA
	4-pole	I	3WL9111-0BC14-0AA0	1	1 unit	1CA
		II	3WL9111-0BC15-0AA0	1	1 unit	1CA
		III	3WL9111-0BC16-0AA0	1	1 unit	1CA

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

Options

Structure of the article number

Example			3WL5	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	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 number has to be administered for one device.

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

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

Accessories: With first order (components are already mounted)

Example			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 number 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

PROFIBUS manual Communication	German	Article No.	A5E0151347
	English	Article No.	A5E0151353
MODBUS manual Communication	German	Article No.	3ZX10 12-0WL10-1AB1
	English	Article No.	3ZX10 12-0WL10-1AC1

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

Air Circuit Breakers

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

Accessories and spare parts

More information

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