

# Air Circuit Breakers



1/2

## Introduction

### **3WL air circuit breakers/ non-automatic air circuit breakers up to 6300 A (AC), IEC**

1/8	Introduction
1/9	3-pole, fixed-mounted versions
1/16	3-pole, withdrawable versions
1/23	4-pole, fixed-mounted versions
1/30	4-pole, withdrawable versions
1/37	Options
1/44	Accessories and spare parts

### **3WL non-automatic air circuit breakers up to 4000 A (DC)**

1/66	3- and 4-pole, fixed-mounted versions
1/67	3- and 4-pole, withdrawable versions
1/69	Accessories and spare parts

Ch. 12

### **3KC ATC5300 transfer control devices**

#### **For further technical product information:**

Service&Support portal:







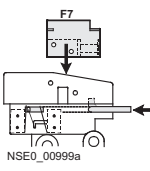
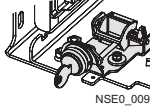
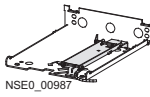
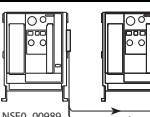
[www.siemens.com/lowvoltage/  
technical-support](http://www.siemens.com/lowvoltage/technical-support)

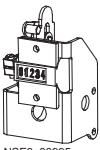
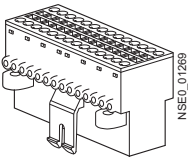
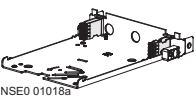
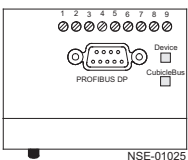
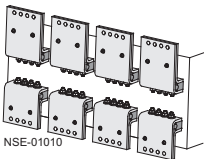
→ Product list:  
Technical specifications

→ Entry list:  
Updates / Downloads / FAQs /  
Manuals / Operating instructions /  
Characteristic curves / Certificates

## Introduction

## Overview

Devices	Page	Applications/ Individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	<a href="#">1/9 ...</a> <a href="#">1/36</a>	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 according to IEC 60068-2-30	✓	--	✓
	<a href="#">1/66 ...</a> <a href="#">1/68</a>	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 according to IEC 60068-2-30	✓	--	✓
<b>Protective devices with device holder and optional measurement function (ETU)</b>	<a href="#">1/51</a>	Electronic Trip Unit with protection functions LI, LSI, LSING and LSIN(G), with or without measurement function <i>Plus</i>	As for circuit breakers	✓	--	✓
 NSE0_00992b	<a href="#">1/51</a>	Rating Plug $I_n = 5000$ A	As for circuit breakers	✓	--	✓
 NSE0_01027a	<a href="#">1/51</a>	Ground-fault modules GFW AT 405	As for circuit breakers	✓	--	✓
 NSE0_01609	<a href="#">1/51</a>	Displays	As for circuit breakers	✓	--	✓
 NSE0_00990a	<a href="#">1/51</a>	Current transformers for N conductor protection	As for circuit breakers	✓	--	✓
<b>EMC filters</b>	<a href="#">1/51</a>	Common-mode interference suppressor filters	As for circuit breakers	✓	--	✓
 NSE0_00999a	<a href="#">1/52</a>	More accessories for Electronic Trip Units F7	As for circuit breakers	✓	--	✓
 NSE0_00982	<a href="#">1/52</a>	Locking devices	As for circuit breakers	✓	--	✓
 NSE0_00987	<a href="#">1/53</a>	Locking mechanisms	As for circuit breakers	✓	--	✓
 NSE0_00989	<a href="#">1/54</a>	Interlocks	As for circuit breakers	✓	--	✓

Devices	Page	Applications/ Individual components	Standards	Used in				
				Non-residential buildings	Residential buildings	Industry		
		<b>Test devices</b>	1/54	Manual tester Release 2 for Electronic Trip Units, function testers	As for circuit breakers	✓	--	✓
		<b>Capacitor storage devices</b>	1/54	For shunt releases	As for circuit breakers	✓	--	✓
		<b>Indicators, control elements</b>	1/55	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	✓	--	✓
		<b>Auxiliary conductor connections</b>	1/56	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	✓	--	✓
		<b>Auxiliary releases</b>	1/57	Closing solenoids/shunt releases, undervoltage releases	As for circuit breakers	✓	--	✓
		<b>Operating mechanisms</b>	1/57	Motorized operating mechanism	As for circuit breakers	✓	--	✓
		<b>Auxiliary contacts</b>	1/57	Auxiliary switch blocks	As for circuit breakers	✓	--	✓
		<b>Door sealing frames, hoods, shutters</b>	1/58	Door sealing frames, IP55 protective covers, shutters	As for circuit breakers	✓	--	✓
		<b>Arc chutes</b>	1/58	Arc chutes, arc chute covers	As for circuit breakers	✓	--	✓
		<b>Coding for withdrawable version</b>	1/58	By customer, for 36 coding variants	As for circuit breakers	✓	--	✓
		<b>Grounding connections</b>	1/59	Grounding connection between the guide frame and the withdrawable circuit breaker, contacting modules for withdrawable circuit breakers	As for circuit breakers	✓	--	✓
		<b>Support brackets</b>	1/59	For mounting fixed-mounted circuit breakers on vertical plane	As for circuit breakers	✓	--	✓
		<b>CubicleBUS modules</b>	1/59	Digital and analog input and output modules, Zone Selective Interlocking modules	As for circuit breakers	✓	--	✓
		<b>Parameterization systems</b>	1/59	Breaker Data Adapter (BDA), BDA <i>Plus</i> , Connection cables for BDA <i>Plus</i> , powerconfig parameterization software	As for circuit breakers	✓	--	✓
		<b>Accessories for communications</b>	1/60	Factory-fitted cables for CubicleBUS modules, SENTRON manuals for communication solutions, voltage transformers	As for circuit breakers	✓	--	✓
		<b>Retrofitting and spare parts</b>	1/60	PROFIBUS retrofit kits, COM15 PROFIBUS modules, COM16 MODBUS modules, MODBUS IEC retrofit kits, Breaker Status Sensor (BSS), measurement function <i>Plus</i>	As for circuit breakers	✓	--	✓
		<b>Main conductor connections, fixed-mounted</b>	1/61	Front-accessible main connections with double or single hole, rear vertical main connections, rear horizontal main connections, circuit connecting flanges, supports for front and DIN connecting bars	As for circuit breakers	✓	--	✓
		<b>Main conductor connections, withdrawable</b>	1/62					

# Air Circuit Breakers

## Introduction



Size I



Size II



Size III



ATC5300

Air circuit breakers				Transfer control devices		
<b>3WL air circuit breakers/non-automatic air circuit breakers up to 6300 A (AC), IEC</b>				<b>3WL non-automatic air circuit breakers up to 4000 A (DC)</b>		
<b>3WL non-automatic air circuit breakers up to 4000 A (DC)</b>				<b>3KC ATC5300 transfer control devices</b>		
Size		I, II, III			II	
Rated current $I_n$	A	630, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6300			1000, 2000, 4000	
Number of poles		3-pole, 4-pole			3-pole, 4-pole	
Rated operational voltage $U_e$	V AC V DC	... 690/1000/1150 --			-- ... 1000	
Rated ultimate short-circuit breaking capacity at 500 V AC	kA	Size I 55/66/85	Size II 66/80/100	Size III 100/150 (3-pole), 130 (4-pole)	30/25/20 (at 300/600/1000 V DC)	
Endurance	Operating cycles	Up to 20000	15000	10000	15000	
Mounting position		 NSE0_00061a      NSE0_00062a			 NSE0_00061a      NSE0_00062a	
Degree of protection	With cover Without cover (with door sealing frame)	IP55 IP41			IP55 IP41	
Dimensions	W mm	320/410	460/590	704/914	460/590	
 NSS0_00535	3-/4-pole					
	Fixed-mounted	H mm D mm	434 291	434 291	434 291	434 291
	Withdrawable	H mm D mm	465.5 471	465.5 471	465.5 471	465.5 471



NSE0\_01106R



NSE0\_01107a



NSE0\_01108a



NSE0\_01108a



NSE0\_01111a

Electronic Trip Units for 3WL air circuit breakers					
Type	ETU15B <sup>1)</sup>	ETU25B	ETU27B	ETU45B	ETU76B
Overload protection	✓	✓	✓	✓	✓
Short-time delayed short-circuit protection	--	✓	✓	✓	✓
Instantaneous short-circuit protection	✓	✓	✓	✓	✓
Neutral conductor protection	--	--	✓	✓	✓
Ground-fault protection	--	--	✓	□	□
Zone Selective Interlocking	--	--	--	□	□
LCD, 4-line	--	--	--	□	--
LCD, graphic	--	--	--	--	✓
Communication	--	--	--	□	□
Measurement function <i>Plus</i>	--	--	--	□	□
Selectable parameter sets	--	--	--	--	✓
Parameters freely programmable	--	--	--	--	✓
<b>CubicleBUS</b>	--	--	--	✓	✓

- ✓ Standard
- Not available
- Optional

<sup>1)</sup> ETU15B cannot be used with 3WL air circuit breakers, size III.

3WL air circuit breakers/non-automatic air circuit breakers according to UL 489 up to 5,000 A, [see Catalog LV 16](#).

3KC ATC5300 transfer control devices, [see chapter "Monitoring Devices"](#).

## Breaking capacity

Size	I						II				III							
Type	3WL11						3WL12				3WL13							
Breaking capacity class	N	(N)	S	(S)	H	(H)	N	(N)	S	(S)	H	(H)	H	(H)	C 3-pole	(C)	C 4-pole	(C)
<b>Short-circuit breaking capacity</b>																		
Rated operational voltage $U_e$ up to 415 V AC																		
$I_{cu}$	kA	55	66	85	66	80	100	100	150	130								
$I_{cs}$	kA	55	66	85	66	80	100	100	150	130								
$I_{cm}$	kA	121	145	187	145	176	220	220	330	286								
Rated operational voltage $U_e$ up to 500 V AC																		
$I_{cu}$	kA	55	66	85	66	80	100	100	150	130								
$I_{cs}$	kA	55	66	85	66	80	100	100	150	130								
$I_{cm}$	kA	121	145	187	145	176	220	220	330	286								
Rated operational voltage $U_e$ up to 690 V AC																		
$I_{cu}$	kA	42	50	66	50	75	85	85	150	130								
$I_{cs}$	kA	42	50	66	50	75	85	85	150	130								
$I_{cm}$	kA	88	105	145	105	165	187	187	330	286								
Rated operational voltage $U_e$ up to 1000 V/1150 V AC																		
$I_{cu}$	kA	--	--	50 <sup>9)</sup>	--	--	50	50	70 <sup>4)</sup>	70 <sup>4)</sup>								
$I_{cs}$	kA	--	--	50 <sup>9)</sup>	--	--	50	50	70 <sup>4)</sup>	70 <sup>4)</sup>								
$I_{cm}$	kA	--	--	105 <sup>9)</sup>	--	--	105	105	154 <sup>4)</sup>	154 <sup>4)</sup>								
<b>Rated short-time withstand current <math>I_{cw}</math> of the circuit breakers<sup>3)</sup></b>																		
0.5 s	kA	55	66	75	66	80	100	100	100	100								
1 s	kA	42	50	66	55	66	80	80	100	100								
2 s	kA	29.5	35	46	39	46	65 <sup>1)/70<sup>2)</sup></sup>	80	80	80								
3 s	kA	24	29	37	32	44	50 <sup>1)/65<sup>2)</sup></sup>	65	65	65								
<b>Short-circuit breaking capacity <math>I_{cc}</math> of the non-automatic air circuit breakers</b>																		
Up to 500 V AC	kA	55	66	75	66	80	100	100	100	100								
Up to 690 V AC	kA	42	50	66	50	75	85	85	100	100								
Up to 1000 V /1150 V AC	kA	--	--	50 <sup>9)</sup>	--	--	50 <sup>4)</sup>	50 <sup>4)</sup>	70 <sup>4)</sup>	70 <sup>4)</sup>								

Size	II		(DC)
Type	3WL12		
Breaking capacity class	DC		
<b>Short-circuit breaking capacity</b>			
Up to 220 V DC	$I_{cc}$	kA	35
Up to 300 V DC	$I_{cc}$	kA	30
Up to 600 V DC	$I_{cc}$	kA	25
Up to 1000 V DC	$I_{cc}$	kA	20
<b>Rated short-time withstand current <math>I_{cw}</math></b>			
0.5 s	kA	--	
1 s	kA	35 <sup>5)</sup> /30 <sup>6)</sup> /25 <sup>7)</sup> /20 <sup>8)</sup>	
2 s	kA	--	
3 s	kA	--	

- (N) Circuit breaker with ECO breaking capacity N
- (S) Circuit breaker with standard breaking capacity S
- (H) Circuit breaker 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](http://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  $\geq 690$  V the  $I_{cw}$  value of the circuit breaker cannot be greater than the  $I_{cu}$  or  $I_{cs}$  value at 690 V.

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

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

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

5) At  $U_e = 220$  V DC.

6) At  $U_e = 300$  V DC.

7) At  $U_e = 600$  V DC.

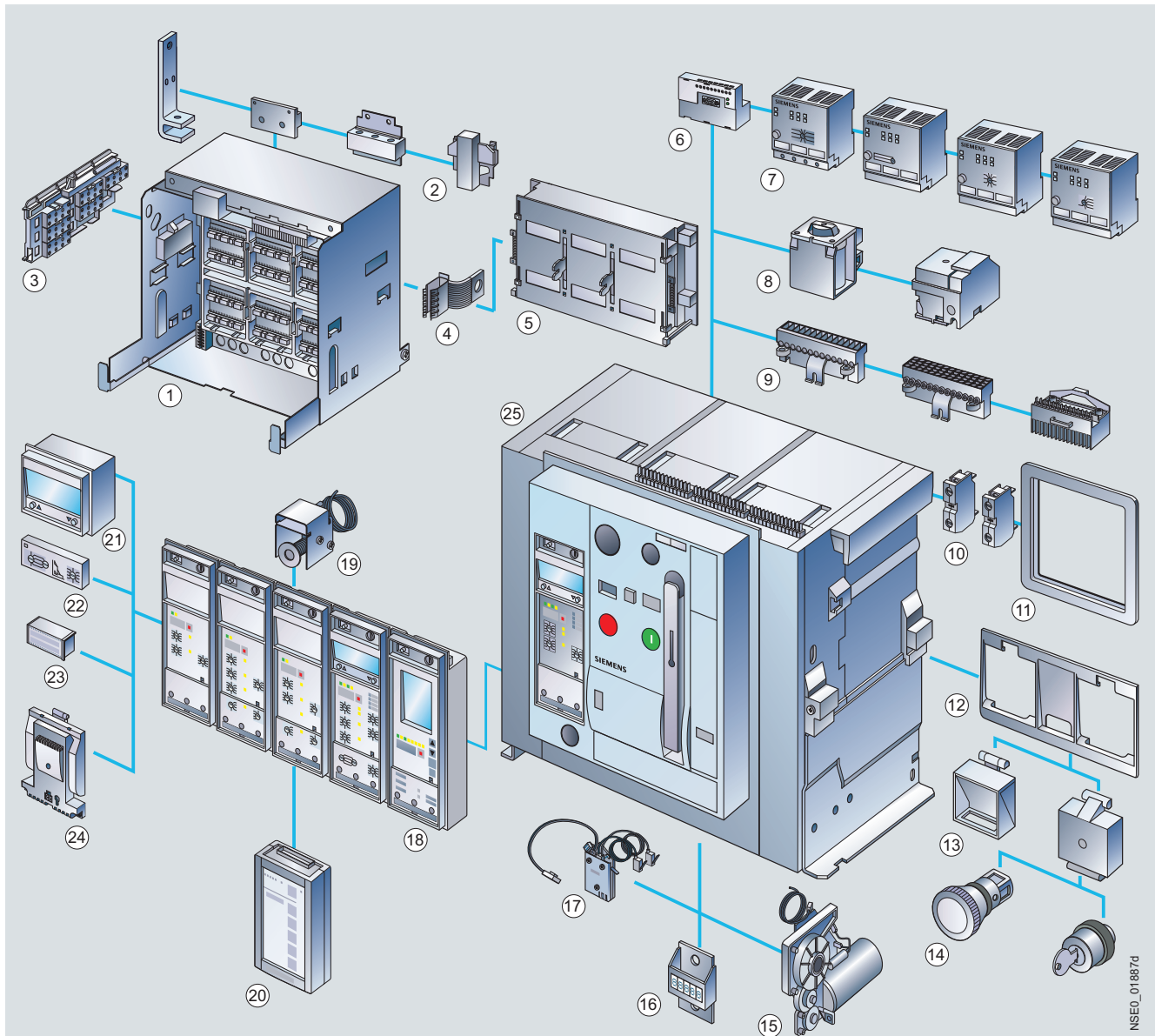
8) At  $U_e = 1000$  V DC.

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

# Air Circuit Breakers

## Introduction

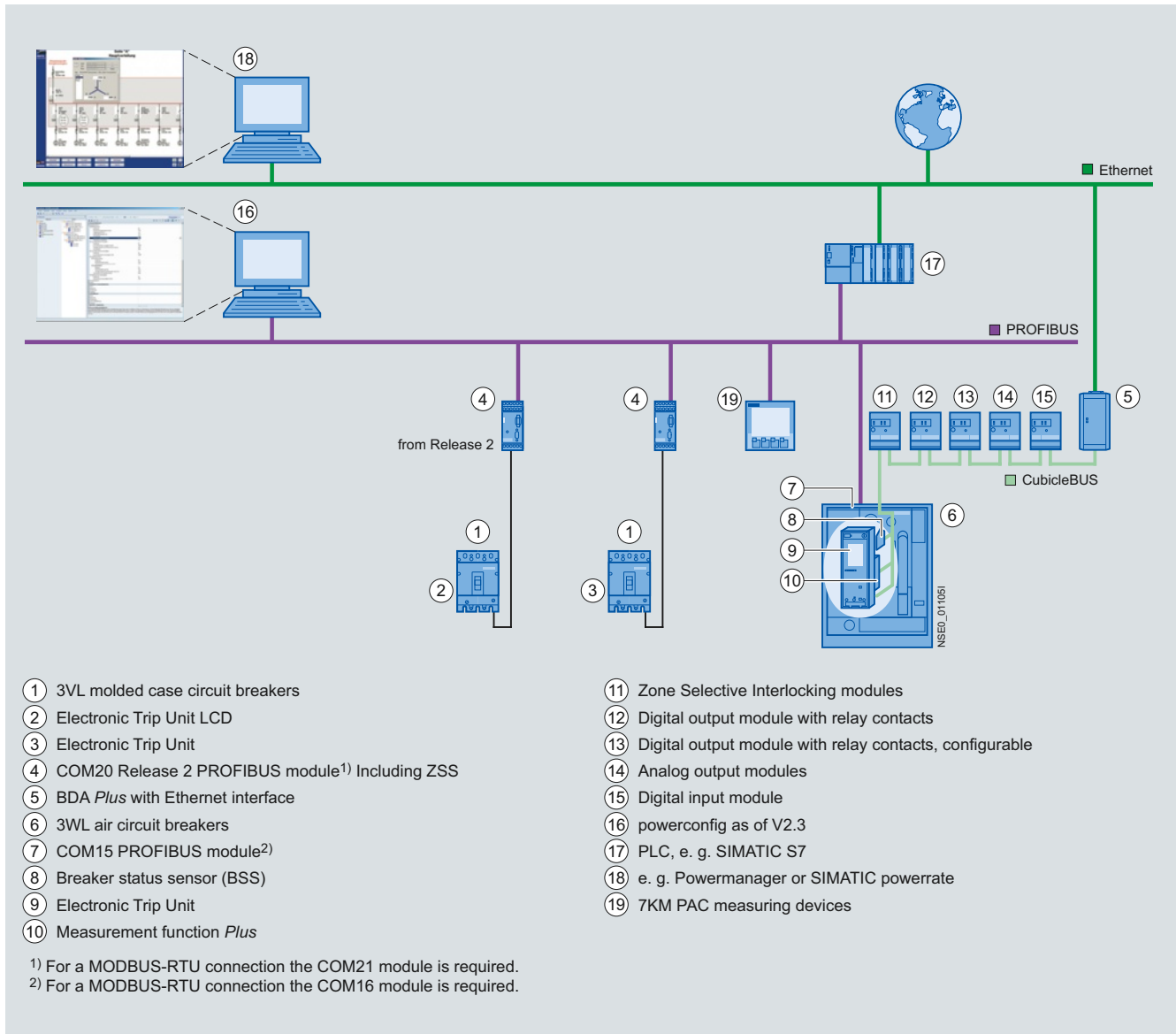
3WL air circuit breakers:  
Superior individual products integrated into uniform power distribution systems - up to and including industry-specific industrial and infrastructure solutions



NSEC\_01887d

- |   |  |
|---|--|
| ① Guide frame (pages 1/45 to 1/50)  | ⑩ Auxiliary switch block (pages 1/37 and 1/57)                                 |
| ② Main circuit connection front, flange, horizontal, vertical (pages 1/42, 1/61 and 1/62) | ⑪ Door sealing frame (pages 1/39 and 1/58)                                     |
| ③ Position signaling switch (pages 1/40 and 1/55)   | ⑫ Interlocking set for mechanical ON/OFF (page 1/52)                           |
| ④ Grounding connection, leading (page 1/59)   | ⑬ Transparent panel, function insert (page 1/52)                               |
| ⑤ Shutters (pages 1/40 and 1/58)  | ⑭ EMERGENCY-STOP pushbutton, key operated (page 1/55)                          |
| ⑥ COM15 PROFIBUS module or COM16 MODBUS module (pages 1/40 and 1/60)                      | ⑮ Motorized operating mechanism (pages 1/39 and 1/57)                          |
| ⑦ External <b>Cubicle</b> BUS modules (page 1/59)   |  |
| ⑧ Closing coil, auxiliary release (pages 1/37, 1/39 and 1/57)                             | ⑯ Operating cycles counters (pages 1/39 and 1/55)                              |
| ⑨ Auxiliary conductor plug-in system (pages 1/41 and 1/56)                                | ⑰ Breaker status sensor (BSS) (pages 1/40 and 1/60)                            |
|   | ⑱ Protective device with device holder, Electronic Trip Unit (ETU) (page 1/51) |
|   | ⑲ Remote reset solenoid (pages 1/39 and 1/52)                                  |
|   | ⑳ Breaker data adapter (BDA Plus) (page 1/59)                                  |
|   | ㉑ Four-line display (page 1/51)  |
|   | ㉒ Ground-fault protection module (page 1/51)                                   |
|   | ㉓ Rating plug (pages 1/38 and 1/51)  |
|   | ㉔ Measurement function module (pages 1/40 and 1/51)                            |
|   | ㉕ Air circuit breaker (pages 1/9 to 1/36)                                      |

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



### Features

- 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 switchgear due to the possibility of linking up external input and output modules to the circuit breaker-internal **CubicleBUS** of the 3WL
- 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 pages 1/9 to 1/36](#).
- For accessories [see pages 1/59 and 1/60](#).
- For more information [see also chapters "Measuring Devices and Power Monitoring" and "Software"](#).

# Air Circuit Breakers

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

### Introduction

#### Benefits

##### Low space requirements

The 3WL air circuit breakers require very little space. Size I devices (up to 2000 A) fit into a 400 mm wide switchgear 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 switchgear panel.

##### Modular design

Components like auxiliary releases, motorized operating mechanisms, Electronic Trip Units, current transformers, 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 3WL air 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/measurement functions

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

- Fast and reliable parameterization
- Timely information and response can prevent plant stoppages
- Effective diagnostics management
- Measured values are the basis for efficient load management, for drawing up power demand profiles and for allocating energy to cost centers
- Preventive maintenance reduces the risk of expensive plant downtimes
- Measurement function with a very wide range of measured values, such as current, voltage, energy, power etc.
- Can be used in 1000 V AC and 690 V IT networks

#### Applications

- 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.

The extensive, coordinated SENTRON range of devices covers applications between 16 A and 6300 A with molded case and air circuit breakers.

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

3WL air circuit breakers comply with:

- IEC 60947-2
- Climate-proof according to IEC 60068-2-30.

Versions with UL 489 also available, [see Catalog LV 16](#).

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

#### Conductor cross-sections

Size	I					II				
	Type	Up to 3WL11 10	3WL11 12	3WL11 16	3WL11 20	3WL12 08	3WL12 10	3WL12 12	3WL12 16	3WL12 20
<b>Permissible load for withdrawable versions</b> at rear horizontal main connections	• Up to 55 °C (Cu bare)	A 1000	1250	1600	2000	800	1000	1250	1600	2000
	• Up to 60 °C (Cu bare) <sup>1)</sup>	A 1000	1250	1600	1930	800	1000	1250	1600	2000
	• Up to 70 °C (Cu black painted) <sup>1)</sup>	A 1000	1210	1490 <sup>2)</sup>	1780	800	1000	1250	1600	2000
<b>Main conductor minimum cross-sections</b>	• Copper bars, bare	Unit(s) mm <sup>2</sup> 1 x 60 x 10	2 x 40 x 10	2 x 50 x 10	3 x 50 x 10	1 x 50 x 10	1 x 60 x 10	2 x 40 x 10	2 x 50 x 10	3 x 50 x 10
	• Copper bars, painted black	Unit(s) mm <sup>2</sup> 1 x 60 x 10	2 x 40 x 10	2 x 50 x 10	3 x 50 x 10	1 x 50 x 10	1 x 60 x 10	2 x 40 x 10	2 x 50 x 10	3 x 50 x 10

Size	II			III			
	Type	3WL12 25	3WL12 32	3WL12 40 <sup>3)</sup>	3WL13 40	3WL13 50	3WL13 63 <sup>3)</sup>
<b>Permissible load for withdrawable versions</b> at rear horizontal main connections	• Up to 55 °C (Cu bare)	A 2500	3200	3950 <sup>4)</sup>	4000	5000	5920
	• Up to 60 °C (Cu bare) <sup>1)</sup>	A 2500	3020	3810	4000	5000	5810
	• Up to 70 °C (Cu black painted) <sup>1)</sup>	A 2280	2870	3600	4000	5000	5500
<b>Main conductor minimum cross-sections</b>	• Copper bars, bare	Unit(s) mm <sup>2</sup> 2 x 100 x 10	3 x 100 x 10	4 x 120 x 10	4 x 100 x 10	6 x 100 x 10	6 x 120 x 10
	• Copper bars, painted black	Unit(s) mm <sup>2</sup> 2 x 100 x 10	3 x 100 x 10	4 x 100 x 10 <sup>5)</sup>	4 x 100 x 10	6 x 100 x 10	6 x 120 x 10

<sup>1)</sup> ETU76B with graphics display can be used up to max. 55 °C.

<sup>2)</sup> At breaking capacity H: 1600 A up to 70 °C

<sup>3)</sup> With rear vertical connections

<sup>4)</sup> Size II, 3-pole, in fixed-mounted version

<sup>5)</sup> Minimum main conductor cross-sections for 4-pole withdrawable circuit breakers: 4 x 120 mm x 10 mm

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

3-pole, fixed-mounted versions

## Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.	Basic price per PU				kg
<b>Horizontal main circuit connection</b>										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL11 06-2□□32-□□□□ 3WL11 08-2□□32-□□□□ 3WL11 10-2□□32-□□□□ 3WL11 12-2□□32-□□□□ 3WL11 16-2□□32-□□□□ 3WL11 20-2□□32-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	43.000 43.000 43.000 43.000 43.000 43.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL12 08-2□□32-□□□□ 3WL12 10-2□□32-□□□□ 3WL12 12-2□□32-□□□□ 3WL12 16-2□□32-□□□□ 3WL12 20-2□□32-□□□□ 3WL12 25-2□□32-□□□□ 3WL12 32-2□□32-□□□□		1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	56.000 56.000 56.000 56.000 56.000 59.000 64.000
<b>Vertical main circuit connection</b>										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL11 06-2□□31-□□□□ 3WL11 08-2□□31-□□□□ 3WL11 10-2□□31-□□□□ 3WL11 12-2□□31-□□□□ 3WL11 16-2□□31-□□□□ 3WL11 20-2□□31-□□□□		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	43.000 43.000 43.000 43.000 43.000 43.000
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL12 08-2□□31-□□□□ 3WL12 10-2□□31-□□□□ 3WL12 12-2□□31-□□□□ 3WL12 16-2□□31-□□□□ 3WL12 20-2□□31-□□□□ 3WL12 25-2□□31-□□□□ 3WL12 32-2□□31-□□□□ 3WL12 40-2□□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	103 103 103 103 103 103 103 103	56.000 56.000 56.000 56.000 56.000 59.000 64.000 85.000

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LJ <sup>6)</sup>		✓										
	ETU25B: Protection functions LSI		✓										
	ETU45B: Protection functions LSIN <sup>3)</sup>		✓										
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display		✓										
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display		✓										
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>4)</sup>		✓										
	ETU45B: Protection functions LSING <sup>3)5)</sup>		✓										
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display		✓										
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display		✓										
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO For further Order No. supplements see page 1/37												None

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.
- 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 1/51.

- 4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- 6) ETU15B cannot be used with 3WL air circuit breakers, size III.

# Air Circuit Breakers

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N</span>		PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Order No.	Basic price per PU				
<b>Front main circuit connection, single hole</b>										
I	630	630	55		3WL11 06-2□□33-□□□□		1	1 unit	103	43.000
	800	800			3WL11 08-2□□33-□□□□		1	1 unit	103	43.000
	1000	1000			3WL11 10-2□□33-□□□□		1	1 unit	103	43.000
	1250	1250			3WL11 12-2□□33-□□□□		1	1 unit	103	43.000
	1600	1600			3WL11 16-2□□33-□□□□		1	1 unit	103	43.000
II	800	800	66		3WL12 08-2□□33-□□□□		1	1 unit	103	56.000
	1000	1000			3WL12 10-2□□33-□□□□		1	1 unit	103	56.000
	1250	1250			3WL12 12-2□□33-□□□□		1	1 unit	103	56.000
	1600	1600			3WL12 16-2□□33-□□□□		1	1 unit	103	56.000
	2000	2000			3WL12 20-2□□33-□□□□		1	1 unit	103	56.000
	2500	2500			3WL12 25-2□□33-□□□□		1	1 unit	103	59.000
	3200	3200			3WL12 32-2□□33-□□□□		1	1 unit	103	64.000
<b>Front main circuit connection, double hole</b>										
I	630	630	55		3WL11 06-2□□34-□□□□		1	1 unit	103	43.000
	800	800			3WL11 08-2□□34-□□□□		1	1 unit	103	43.000
	1000	1000			3WL11 10-2□□34-□□□□		1	1 unit	103	43.000
	1250	1250			3WL11 12-2□□34-□□□□		1	1 unit	103	43.000
	1600	1600			3WL11 16-2□□34-□□□□		1	1 unit	103	43.000
	2000	2000			3WL11 20-2□□34-□□□□		1	1 unit	103	43.000
II	800	800	66		3WL12 08-2□□34-□□□□		1	1 unit	103	56.000
	1000	1000			3WL12 10-2□□34-□□□□		1	1 unit	103	56.000
	1250	1250			3WL12 12-2□□34-□□□□		1	1 unit	103	56.000
	1600	1600			3WL12 16-2□□34-□□□□		1	1 unit	103	56.000
	2000	2000			3WL12 20-2□□34-□□□□		1	1 unit	103	56.000
	2500	2500			3WL12 25-2□□34-□□□□		1	1 unit	103	59.000
	3200	3200			3WL12 32-2□□34-□□□□		1	1 unit	103	64.000

Options		AA	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units			<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>			
	ETU15B: Protection functions L <sup>6)</sup>	BB		✓
	ETU25B: Protection functions LSI	CB		✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	EB		✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	FB		✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display	NB		✓
	<b>Versions with ground-fault protection</b>			
	ETU27B: Protection functions LSING <sup>4)</sup>	DG		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	EG		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	FG		✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display	NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO  For further Order No. supplements see page 1/37		1AA2	<b>None</b>

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.
- 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 1/51.

- 4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- 6) ETU15B cannot be used with 3WL air circuit breakers, size III.

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

## 3-pole, fixed-mounted versions

Size	Max. rated circuit breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
									kg
<b>Horizontal main circuit connection</b>									
I	630	630	66		3WL11 06-3□□32-□□□□	1	1 unit	103	43.000
	800	800			3WL11 08-3□□32-□□□□				
	1000	1000			3WL11 10-3□□32-□□□□				
	1250	1250			3WL11 12-3□□32-□□□□				
	1600	1600			3WL11 16-3□□32-□□□□				
	2000	2000			3WL11 20-3□□32-□□□□				
II	800	800	80		3WL12 08-3□□32-□□□□	1	1 unit	103	56.000
	1000	1000			3WL12 10-3□□32-□□□□				
	1250	1250			3WL12 12-3□□32-□□□□				
	1600	1600			3WL12 16-3□□32-□□□□				
	2000	2000			3WL12 20-3□□32-□□□□				
	2500	2500			3WL12 25-3□□32-□□□□				
	3200	3200			3WL12 32-3□□32-□□□□				
					3WL12 32-3□□32-□□□□				
<b>Vertical main circuit connection</b>									
I	630	630	66		3WL11 06-3□□31-□□□□	1	1 unit	103	43.000
	800	800			3WL11 08-3□□31-□□□□				
	1000	1000			3WL11 10-3□□31-□□□□				
	1250	1250			3WL11 12-3□□31-□□□□				
	1600	1600			3WL11 16-3□□31-□□□□				
	2000	2000			3WL11 20-3□□31-□□□□				
II	800	800	80		3WL12 08-3□□31-□□□□	1	1 unit	103	56.000
	1000	1000			3WL12 10-3□□31-□□□□				
	1250	1250			3WL12 12-3□□31-□□□□				
	1600	1600			3WL12 16-3□□31-□□□□				
	2000	2000			3WL12 20-3□□31-□□□□				
	2500	2500			3WL12 25-3□□31-□□□□				
	3200	3200			3WL12 32-3□□31-□□□□				
	4000	4000			3WL12 40-3□□31-□□□□				

Options			Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units	AA	None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>		
	ETU15B: Protection functions LI <sup>6)</sup>	BB	✓
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	EB	✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	FB	✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display	NB	✓
	<b>Versions with ground-fault protection</b>		
	ETU27B: Protection functions LSING <sup>4)</sup>	DG	✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	EG	✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	FG	✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display	NG	✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2	None
	For further Order No. supplements see page 1/37		

✓ Additional price

- 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 on page 1/38.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.
- 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 1/51.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

# Air Circuit Breakers

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
					Order No.	Basic price per PU				
										kg
<b>Front main circuit connection, single hole</b>										
I	630 800 1000 1250 1600	630 800 1000 1250 1600	66		<b>3WL11 06-3□□33-□□□□</b> <b>3WL11 08-3□□33-□□□□</b> <b>3WL11 10-3□□33-□□□□</b> <b>3WL11 12-3□□33-□□□□</b> <b>3WL11 16-3□□33-□□□□</b>	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103	43.000 43.000 43.000 43.000 43.000	
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		<b>3WL12 08-3□□33-□□□□</b> <b>3WL12 10-3□□33-□□□□</b> <b>3WL12 12-3□□33-□□□□</b> <b>3WL12 16-3□□33-□□□□</b> <b>3WL12 20-3□□33-□□□□</b> <b>3WL12 25-3□□33-□□□□</b> <b>3WL12 32-3□□33-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	56.000 56.000 56.000 56.000 56.000 59.000 64.000	
<b>Front main circuit connection, double hole</b>										
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		<b>3WL11 06-3□□34-□□□□</b> <b>3WL11 08-3□□34-□□□□</b> <b>3WL11 10-3□□34-□□□□</b> <b>3WL11 12-3□□34-□□□□</b> <b>3WL11 16-3□□34-□□□□</b> <b>3WL11 20-3□□34-□□□□</b>	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	43.000 43.000 43.000 43.000 43.000 43.000	
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		<b>3WL12 08-3□□34-□□□□</b> <b>3WL12 10-3□□34-□□□□</b> <b>3WL12 12-3□□34-□□□□</b> <b>3WL12 16-3□□34-□□□□</b> <b>3WL12 20-3□□34-□□□□</b> <b>3WL12 25-3□□34-□□□□</b> <b>3WL12 32-3□□34-□□□□</b>	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	56.000 56.000 56.000 56.000 56.000 59.000 64.000	
<b>Options</b>										
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units				<b>AA</b>	<b>None</b>				
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>									
	ETU15B: Protection functions LI <sup>6)</sup>				<b>BB</b>	✓				
	ETU25B: Protection functions LSI				<b>CB</b>	✓				
	ETU45B: Protection functions LSIN <sup>3)</sup>				<b>EB</b>	✓				
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display				<b>FB</b>	✓				
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display				<b>NB</b>	✓				
	<b>Versions with ground-fault protection</b>									
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>	✓				
	ETU45B: Protection functions LSING <sup>3)5)</sup>				<b>EG</b>	✓				
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display				<b>FG</b>	✓				
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display				<b>NG</b>	✓				
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>	<b>None</b>				
	For further Order No. supplements see page 1/37									

✓ Additional price

- 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 on page 1/38.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.
- 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 1/51.

- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- ETU15B cannot be used with 3WL air circuit breakers, size III.

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H	(H)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.		Basic price per PU			kg
<b>Horizontal main circuit connection</b>										
I	630	630	85		3WL11 06-4□□32-□□□□	(H)	1	1 unit	103	43.000
	800	800			3WL11 08-4□□32-□□□□					
	1000	1000			3WL11 10-4□□32-□□□□					
	1250	1250			3WL11 12-4□□32-□□□□					
	1600	1600			3WL11 16-4□□32-□□□□					
	2000	2000			3WL11 20-4□□32-□□□□					
II	800	800	100		3WL12 08-4□□32-□□□□	(H)	1	1 unit	103	56.000
	1000	1000			3WL12 10-4□□32-□□□□					
	1250	1250			3WL12 12-4□□32-□□□□					
	1600	1600			3WL12 16-4□□32-□□□□					
	2000	2000			3WL12 20-4□□32-□□□□					
	2500	2500			3WL12 25-4□□32-□□□□					
	3200	3200			3WL12 32-4□□32-□□□□					
	4000	4000			3WL13 40-4□□32-□□□□					
5000	5000	3WL13 50-4□□32-□□□□								
<b>Vertical main circuit connection</b>										
I	630	630	85		3WL11 06-4□□31-□□□□	(H)	1	1 unit	103	43.000
	800	800			3WL11 08-4□□31-□□□□					
	1000	1000			3WL11 10-4□□31-□□□□					
	1250	1250			3WL11 12-4□□31-□□□□					
	1600	1600			3WL11 16-4□□31-□□□□					
	2000	2000			3WL11 20-4□□31-□□□□					
II	800	800	100		3WL12 08-4□□31-□□□□	(H)	1	1 unit	103	56.000
	1000	1000			3WL12 10-4□□31-□□□□					
	1250	1250			3WL12 12-4□□31-□□□□					
	1600	1600			3WL12 16-4□□31-□□□□					
	2000	2000			3WL12 20-4□□31-□□□□					
	2500	2500			3WL12 25-4□□31-□□□□					
	3200	3200			3WL12 32-4□□31-□□□□					
	4000	4000			3WL12 40-4□□31-□□□□					
III	4000	4000	100		3WL13 40-4□□31-□□□□	(H)	1	1 unit	103	82.000
	5000	5000			3WL13 50-4□□31-□□□□					
	6300	6300			3WL13 63-4□□31-□□□□					
<b>Options</b>										
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units				<b>AA</b>					<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>									
	ETU15B: Protection functions LI <sup>6)</sup>				<b>BB</b>					✓
	ETU25B: Protection functions LSI				<b>CB</b>					✓
	ETU45B: Protection functions LSIN <sup>3)</sup>				<b>EB</b>					✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display				<b>FB</b>					✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display				<b>NB</b>					✓
	<b>Versions with ground-fault protection</b>									
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>					✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>				<b>EG</b>					✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display				<b>FG</b>					✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display				<b>NG</b>					✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO						<b>1AA2</b>			<b>None</b>
	For further Order No. supplements see page 1/37									

✓ Additional price

- 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 on page 1/38.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.
- 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 1/51.

4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.

5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

# Air Circuit Breakers

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.	Basic price per PU			kg
<b>Front main circuit connection, single hole</b>									
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL12 08-4□□33-□□□□ 3WL12 10-4□□33-□□□□ 3WL12 12-4□□33-□□□□ 3WL12 16-4□□33-□□□□ 3WL12 20-4□□33-□□□□ 3WL12 25-4□□33-□□□□ 3WL12 32-4□□33-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	56.000 56.000 56.000 56.000 56.000 59.000 64.000
III	4000	4000	100		3WL13 40-4□□33-□□□□	1	1 unit	103	82.000
<b>Front main circuit connection, double hole</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL11 06-4□□34-□□□□ 3WL11 08-4□□34-□□□□ 3WL11 10-4□□34-□□□□ 3WL11 12-4□□34-□□□□ 3WL11 16-4□□34-□□□□ 3WL11 20-4□□34-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	43.000 43.000 43.000 43.000 43.000 43.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL12 08-4□□34-□□□□ 3WL12 10-4□□34-□□□□ 3WL12 12-4□□34-□□□□ 3WL12 16-4□□34-□□□□ 3WL12 20-4□□34-□□□□ 3WL12 25-4□□34-□□□□ 3WL12 32-4□□34-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	56.000 56.000 56.000 56.000 56.000 59.000 64.000
III	4000	4000	100		3WL13 40-4□□34-□□□□	1	1 unit	103	82.000

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LI <sup>6)</sup>		BB										✓
	ETU25B: Protection functions LSI			CB									✓
	ETU45B: Protection functions LSIN <sup>3)</sup>				EB								✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB							✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display						NB						✓
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>4)</sup>							DG					✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>								EG				✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display									FG			✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display										NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO											1AA2	None
	For further Order No. supplements see page 1/37												

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.
- 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 1/51.

- 4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- 6) ETU15B cannot be used with 3WL air circuit breakers, size III.

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 150 kA at 500 V, very high breaking capacity C	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.	Basic price per PU			kg
<b>Horizontal main circuit connection</b>									
III	4000 5000	4000 5000	150		<b>3WL13 40-5□□32-□□□□</b> <b>3WL13 50-5□□32-□□□□</b>	1 1	1 unit 1 unit	103 103	82.000 82.000
<b>Vertical main circuit connection</b>									
III	4000 5000 6300	4000 5000 6300	150		<b>3WL13 40-5□□31-□□□□</b> <b>3WL13 50-5□□31-□□□□</b> <b>3WL13 63-5□□31-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	82.000 82.000 90.000
<b>Options</b>									
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units				<b>AA</b>	<b>None</b>		<b>None</b>	
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU25B: Protection functions LSI				<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>3)</sup>				<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display				<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display				<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>				<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display				<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display				<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					<b>1AA2</b>			<b>None</b>
	For further Order No. supplements see page 1/37								

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51.
- 4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 5) ETU45B and ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

## 3WL 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 $I_n \text{ max.}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N</span>	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	A	A	kA		Order No.	Basic price per PU			kg	
<b>Without guide frames<sup>2)</sup> (for guide frames, see page 1/45 to 1/50)</b>										
I	630	630	55		3WL11 06-2□□35-□□□□		1	1 unit	103	45.000
	800	800			3WL11 08-2□□35-□□□□		1	1 unit	103	45.000
	1000	1000			3WL11 10-2□□35-□□□□		1	1 unit	103	45.000
	1250	1250			3WL11 12-2□□35-□□□□		1	1 unit	103	45.000
	1600	1600			3WL11 16-2□□35-□□□□		1	1 unit	103	45.000
	2000	2000			3WL11 20-2□□35-□□□□		1	1 unit	103	45.000
	II	800			800		66		3WL12 08-2□□35-□□□□	
1000		1000	3WL12 10-2□□35-□□□□	1	1 unit	103			60.000	
1250		1250	3WL12 12-2□□35-□□□□	1	1 unit	103			60.000	
1600		1600	3WL12 16-2□□35-□□□□	1	1 unit	103			60.000	
2000		2000	3WL12 20-2□□35-□□□□	1	1 unit	103			60.000	
2500		2500	3WL12 25-2□□35-□□□□	1	1 unit	103			63.000	
3200		3200	3WL12 32-2□□35-□□□□	1	1 unit	103			68.000	
<b>With guide frames, horizontal main circuit connection</b>										
I	630	630	55		3WL11 06-2□□36-□□□□		1	1 unit	103	70.000
	800	800			3WL11 08-2□□36-□□□□		1	1 unit	103	70.000
	1000	1000			3WL11 10-2□□36-□□□□		1	1 unit	103	70.000
	1250	1250			3WL11 12-2□□36-□□□□		1	1 unit	103	70.000
	1600	1600			3WL11 16-2□□36-□□□□		1	1 unit	103	70.000
	2000	2000			3WL11 20-2□□36-□□□□		1	1 unit	103	70.000
	II	800			800		66		3WL12 08-2□□36-□□□□	
1000		1000	3WL12 10-2□□36-□□□□	1	1 unit	103			91.000	
1250		1250	3WL12 12-2□□36-□□□□	1	1 unit	103			91.000	
1600		1600	3WL12 16-2□□36-□□□□	1	1 unit	103			91.000	
2000		2000	3WL12 20-2□□36-□□□□	1	1 unit	103			91.000	
2500		2500	3WL12 25-2□□36-□□□□	1	1 unit	103			102.000	
3200		3200	3WL12 32-2□□36-□□□□	1	1 unit	103			113.000	

Options			Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units	AA	None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>		
	ETU15B: Protection functions LI	BB	✓
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	EB	✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	FB	✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display	NB	✓
	<b>Versions with ground-fault protection</b>		
	ETU27B: Protection functions LSING <sup>5)</sup>	DG	✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	EG	✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	FG	✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display	NG	✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2	None
	For further Order No. supplements see page 1/37		

✓ Additional price

- 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 on page 1/38.
- Z options which are installed on the guide frame are not available.
- For permissible rated short-time current  $I_{cs}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

- 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 1/51.
- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

## 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
					Order No.	Basic price per PU				
A		A	kA							kg
<b>With guide frames, vertical main circuit connection</b>										
I	630	630	55		3WL11 06-2□□37-□□□□		1	1 unit	103	70.000
	800	800			3WL11 08-2□□37-□□□□		1	1 unit	103	70.000
	1000	1000			3WL11 10-2□□37-□□□□		1	1 unit	103	70.000
	1250	1250			3WL11 12-2□□37-□□□□		1	1 unit	103	70.000
	1600	1600			3WL11 16-2□□37-□□□□		1	1 unit	103	70.000
	2000	2000			3WL11 20-2□□37-□□□□		1	1 unit	103	70.000
	II	800			800	66		3WL12 08-2□□37-□□□□		1
1000		1000	3WL12 10-2□□37-□□□□		1			1 unit	103	91.000
1250		1250	3WL12 12-2□□37-□□□□		1			1 unit	103	91.000
1600		1600	3WL12 16-2□□37-□□□□		1			1 unit	103	91.000
2000		2000	3WL12 20-2□□37-□□□□		1			1 unit	103	91.000
2500		2500	3WL12 25-2□□37-□□□□		1			1 unit	103	102.000
3200		3200	3WL12 32-2□□37-□□□□		1			1 unit	103	113.000
4000		4000	3WL12 40-2□□37-□□□□		1			1 unit	103	121.000
<b>With guide frames, connecting flanges</b>										
I	630	630	55		3WL11 06-2□□38-□□□□		1	1 unit	103	70.000
	800	800			3WL11 08-2□□38-□□□□		1	1 unit	103	70.000
	1000	1000			3WL11 10-2□□38-□□□□		1	1 unit	103	70.000
	1250	1250			3WL11 12-2□□38-□□□□		1	1 unit	103	70.000
	1600	1600			3WL11 16-2□□38-□□□□		1	1 unit	103	70.000
	2000	2000			3WL11 20-2□□38-□□□□		1	1 unit	103	70.000
	II	800			800	66		3WL12 08-2□□38-□□□□		1
1000		1000	3WL12 10-2□□38-□□□□		1			1 unit	103	91.000
1250		1250	3WL12 12-2□□38-□□□□		1			1 unit	103	91.000
1600		1600	3WL12 16-2□□38-□□□□		1			1 unit	103	91.000
2000		2000	3WL12 20-2□□38-□□□□		1			1 unit	103	91.000
2500		2500	3WL12 25-2□□38-□□□□		1			1 unit	103	102.000
3200		3200	3WL12 32-2□□38-□□□□		1			1 unit	103	113.000

Options		AA	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units			None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>			
	ETU15B: Protection functions L1	BB		✓
	ETU25B: Protection functions LSI	CB		✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	EB		✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	FB		✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display	NB		✓
	<b>Versions with ground-fault protection</b>			
	ETU27B: Protection functions LSING <sup>5)</sup>	DG		✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	EG		✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	FG		✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display	NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO		1AA2	None
	For further Order No. supplements see page 1/37			

✓ Additional price

- 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 on page 1/38.
- Z options which are installed on the guide frame are not available.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

- 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 1/51.
- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

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

### 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA						kg
<b>Without guide frames<sup>2)</sup></b> (for guide frames, see page 1/45 to 1/50)									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL11 06-3□□35-□□□□ 3WL11 08-3□□35-□□□□ 3WL11 10-3□□35-□□□□ 3WL11 12-3□□35-□□□□ 3WL11 16-3□□35-□□□□ 3WL11 20-3□□35-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	45.000 45.000 45.000 45.000 45.000 45.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL12 08-3□□35-□□□□ 3WL12 10-3□□35-□□□□ 3WL12 12-3□□35-□□□□ 3WL12 16-3□□35-□□□□ 3WL12 20-3□□35-□□□□ 3WL12 25-3□□35-□□□□ 3WL12 32-3□□35-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	60.000 60.000 60.000 60.000 60.000 63.000 68.000
<b>With guide frames, horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL11 06-3□□36-□□□□ 3WL11 08-3□□36-□□□□ 3WL11 10-3□□36-□□□□ 3WL11 12-3□□36-□□□□ 3WL11 16-3□□36-□□□□ 3WL11 20-3□□36-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	70.000 70.000 70.000 70.000 70.000 70.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL12 08-3□□36-□□□□ 3WL12 10-3□□36-□□□□ 3WL12 12-3□□36-□□□□ 3WL12 16-3□□36-□□□□ 3WL12 20-3□□36-□□□□ 3WL12 25-3□□36-□□□□ 3WL12 32-3□□36-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	91.000 91.000 91.000 91.000 91.000 102.000 113.000

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LSI												✓
	ETU25B: Protection functions LSI												✓
	ETU45B: Protection functions LSIN <sup>4)</sup>												✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display												✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display												✓
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>5)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display												✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display												✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO												None
	For further Order No. supplements see page 1/37												

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51.
- 5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

## 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
										Order No.
With guide frames, vertical main circuit connection										
I	630	630	66		3WL11 06-3□□37-□□□□	1	1 unit	103	70.000	
	800	800								3WL11 08-3□□37-□□□□
	1000	1000								3WL11 10-3□□37-□□□□
	1250	1250								3WL11 12-3□□37-□□□□
	1600	1600								3WL11 16-3□□37-□□□□
	2000	2000								3WL11 20-3□□37-□□□□
	2000	2000								3WL11 20-3□□37-□□□□
II	800	800	80		3WL12 08-3□□37-□□□□	1	1 unit	103	91.000	
	1000	1000								3WL12 10-3□□37-□□□□
	1250	1250								3WL12 12-3□□37-□□□□
	1600	1600								3WL12 16-3□□37-□□□□
	2000	2000								3WL12 20-3□□37-□□□□
	2500	2500								3WL12 25-3□□37-□□□□
	3200	3200								3WL12 32-3□□37-□□□□
	3200	3200								3WL12 32-3□□37-□□□□
	3200	3200								3WL12 40-3□□37-□□□□
	3200	3200								3WL12 40-3□□37-□□□□
With guide frames, connecting flanges										
I	630	630	66		3WL11 06-3□□38-□□□□	1	1 unit	103	70.000	
	800	800								3WL11 08-3□□38-□□□□
	1000	1000								3WL11 10-3□□38-□□□□
	1250	1250								3WL11 12-3□□38-□□□□
	1600	1600								3WL11 16-3□□38-□□□□
	2000	2000								3WL11 20-3□□38-□□□□
	2000	2000								3WL11 20-3□□38-□□□□
II	800	800	80		3WL12 08-3□□38-□□□□	1	1 unit	103	91.000	
	1000	1000								3WL12 10-3□□38-□□□□
	1250	1250								3WL12 12-3□□38-□□□□
	1600	1600								3WL12 16-3□□38-□□□□
	2000	2000								3WL12 20-3□□38-□□□□
	2500	2500								3WL12 25-3□□38-□□□□
	3200	3200								3WL12 32-3□□38-□□□□
	3200	3200								3WL12 32-3□□38-□□□□
	3200	3200								3WL12 32-3□□38-□□□□
	3200	3200								3WL12 32-3□□38-□□□□

Options		AA	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units	AA		None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>			
	ETU15B: Protection functions LSI	BB		✓
	ETU25B: Protection functions LSI	CB		✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	EB		✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	FB		✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display	NB		✓
	<b>Versions with ground-fault protection</b>			
	ETU27B: Protection functions LSING <sup>5)</sup>	DG		✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	EG		✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	FG		✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display	NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO		1AA2	None
	For further Order No. supplements see page 1/37			

✓ Additional price

- 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 on page 1/38.
- Z options which are installed on the guide frame are not available.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

- 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 1/51.
- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

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

### 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
					Order No.	Basic price per PU			
					kg				
<b>Without guide frames<sup>2)</sup> (for guide frames, see page 1/45 to 1/50)</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL11 06-4□□35-□□□□ 3WL11 08-4□□35-□□□□ 3WL11 10-4□□35-□□□□ 3WL11 12-4□□35-□□□□ 3WL11 16-4□□35-□□□□ 3WL11 20-4□□35-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	45.000 45.000 45.000 45.000 45.000 45.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL12 08-4□□35-□□□□ 3WL12 10-4□□35-□□□□ 3WL12 12-4□□35-□□□□ 3WL12 16-4□□35-□□□□ 3WL12 20-4□□35-□□□□ 3WL12 25-4□□35-□□□□ 3WL12 32-4□□35-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	60.000 60.000 60.000 60.000 60.000 63.000 68.000
III	4000 5000 6300	4000 5000 6300	100		3WL13 40-4□□35-□□□□ 3WL13 50-4□□35-□□□□ 3WL13 63-4□□35-□□□□	1 1 1	1 unit 1 unit 1 unit	103 103 103	88.000 88.000 96.000
<b>With guide frames, horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL11 06-4□□36-□□□□ 3WL11 08-4□□36-□□□□ 3WL11 10-4□□36-□□□□ 3WL11 12-4□□36-□□□□ 3WL11 16-4□□36-□□□□ 3WL11 20-4□□36-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	70.000 70.000 70.000 70.000 70.000 70.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL12 08-4□□36-□□□□ 3WL12 10-4□□36-□□□□ 3WL12 12-4□□36-□□□□ 3WL12 16-4□□36-□□□□ 3WL12 20-4□□36-□□□□ 3WL12 25-4□□36-□□□□ 3WL12 32-4□□36-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	91.000 91.000 91.000 91.000 91.000 102.000 113.000
III	4000 5000	4000 5000	100		3WL13 40-4□□36-□□□□ 3WL13 50-4□□36-□□□□	1 1	1 unit 1 unit	103 103	148.000 148.000
<b>Options</b>									
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units				<b>AA</b>	<b>None</b>			
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU15B: Protection functions LI <sup>7)</sup>				<b>BB</b>		✓		
	ETU25B: Protection functions LSI				<b>CB</b>		✓		
	ETU45B: Protection functions LSIN <sup>4)</sup>				<b>EB</b>		✓		
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				<b>FB</b>		✓		
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display				<b>NB</b>		✓		
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>5)</sup>				<b>DG</b>		✓		
	ETU45B: Protection functions LSING <sup>4)6)</sup>				<b>EG</b>		✓		
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display				<b>FG</b>		✓		
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display				<b>NG</b>		✓		
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					<b>1AA2</b>	<b>None</b>		
	For further Order No. supplements see page 1/37								

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51.
- 5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- 7) ETU15B cannot be used with 3WL air circuit breakers, size III.

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

## 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
										Order No.
With guide frames, vertical main circuit connection										
I	630	630	85				1	1 unit	103	70.000
	800	800								
	1000	1000								
	1250	1250								
	1600	1600								
	2000	2000								
II	800	800	100			1	1 unit	103	91.000	
	1000	1000								
	1250	1250								
	1600	1600								
	2000	2000								
	2500	2500								
	3200	3200								
	4000	4000								
III	4000	4000	100			1	1 unit	103	148.000	
	5000	5000								
	6300	6300								
With guide frames, connecting flanges										
I	630	630	85				1	1 unit	103	70.000
	800	800								
	1000	1000								
	1250	1250								
	1600	1600								
	2000	2000								
II	800	800	100			1	1 unit	103	91.000	
	1000	1000								
	1250	1250								
	1600	1600								
	2000	2000								
	2500	2500								
	3200	3200								
	4000	4000								
III	4000	4000	100			1	1 unit	103	148.000	
	5000	5000								
	6300	6300								

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LI <sup>7)</sup>												✓
	ETU25B: Protection functions LSI												✓
	ETU45B: Protection functions LSIN <sup>4)</sup>												✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display												✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display												✓
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>5)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display												✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display												✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO												None
	For further Order No. supplements see page 1/37												

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51.
- 5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- 7) ETU15B cannot be used with 3WL air circuit breakers, size III.

# Air Circuit Breakers

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

### 3-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 150 kA at 500 V, very high breaking capacity C	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
					Order No.	Basic price per PU				
									kg	
<b>Without guide frames<sup>2)</sup></b> (for guide frames, see page 1/45 to 1/50)										
III	4000 5000 6300	4000 5000 6300	150		<b>3WL13 40-5□□35-□□□□</b> <b>3WL13 50-5□□35-□□□□</b> <b>3WL13 63-5□□35-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	88.000 88.000 96.000	
<b>With guide frames, horizontal main circuit connection</b>										
III	4000 5000	4000 5000	150		<b>3WL13 40-5□□36-□□□□</b> <b>3WL13 50-5□□36-□□□□</b>	1 1	1 unit 1 unit	103 103	148.000 148.000	
<b>With guide frames, vertical main circuit connection</b>										
III	4000 5000 6300	4000 5000 6300	150		<b>3WL13 40-5□□37-□□□□</b> <b>3WL13 50-5□□37-□□□□</b> <b>3WL13 63-5□□37-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	148.000 148.000 166.000	

Options		AA	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units											<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>											
	ETU25B: Protection functions LSI		✓									
	ETU45B: Protection functions LSIN <sup>4)</sup>			✓								
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display			✓								
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display					✓						
	<b>Versions with ground-fault protection</b>											
	ETU27B: Protection functions LSING <sup>5)</sup>						✓					
	ETU45B: Protection functions LSING <sup>4)6)</sup>						✓					
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display						✓					
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display						✓					
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO											<b>None</b>
	For further Order No. supplements see page 1/37											

✓ Additional price

- 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 on page 1/38.
- Z options which are installed on the guide frame are not available.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

- 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 1/51.
- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

4-pole, fixed-mounted versions

## Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \max.}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.	Basic price per PU			kg
<b>Horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL11 06-2□□42-□□□□ 3WL11 08-2□□42-□□□□ 3WL11 10-2□□42-□□□□ 3WL11 12-2□□42-□□□□ 3WL11 16-2□□42-□□□□ 3WL11 20-2□□42-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	50.000 50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	66		3WL12 08-2□□42-□□□□ 3WL12 10-2□□42-□□□□ 3WL12 12-2□□42-□□□□ 3WL12 16-2□□42-□□□□ 3WL12 20-2□□42-□□□□ 3WL12 25-2□□42-□□□□ 3WL12 32-2□□42-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	67.000 67.000 67.000 67.000 67.000 71.000 77.000
<b>Vertical main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	55		3WL11 06-2□□41-□□□□ 3WL11 08-2□□41-□□□□ 3WL11 10-2□□41-□□□□ 3WL11 12-2□□41-□□□□ 3WL11 16-2□□41-□□□□ 3WL11 20-2□□41-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	50.000 50.000 50.000 50.000 50.000 50.000
II	800 1000 1250 1600 2000 2500 3200 4000	800 1000 1250 1600 2000 2500 3200 4000	66		3WL12 08-2□□41-□□□□ 3WL12 10-2□□41-□□□□ 3WL12 12-2□□41-□□□□ 3WL12 16-2□□41-□□□□ 3WL12 20-2□□41-□□□□ 3WL12 25-2□□41-□□□□ 3WL12 32-2□□41-□□□□ 3WL12 40-2□□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	103 103 103 103 103 71.000 77.000 103.000	

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LI		✓										
	ETU25B: Protection functions LSI		✓										
	ETU45B: Protection functions LSIN <sup>3)</sup>		✓										
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display		✓										
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display		✓										
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>4)</sup>		✓										
	ETU45B: Protection functions LSING <sup>3)5)</sup>		✓										
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display		✓										
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display		✓										
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO												None
	For further Order No. supplements see page 1/37												

✓ Additional price

- 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 on page 1/38.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.
- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.

<sup>4)</sup> Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.

<sup>5)</sup> ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
					Order No.	Basic price per PU				
A				A				kg		
<b>Front main circuit connection, single hole</b>										
I	630	630	55		3WL11 06-2□□43-□□□□		1	1 unit	103	50.000
	800	800			3WL11 08-2□□43-□□□□		1	1 unit	103	50.000
	1000	1000			3WL11 10-2□□43-□□□□		1	1 unit	103	50.000
	1250	1250			3WL11 12-2□□43-□□□□		1	1 unit	103	50.000
	1600	1600			3WL11 16-2□□43-□□□□		1	1 unit	103	50.000
II	800	800	66		3WL12 08-2□□43-□□□□		1	1 unit	103	67.000
	1000	1000			3WL12 10-2□□43-□□□□		1	1 unit	103	67.000
	1250	1250			3WL12 12-2□□43-□□□□		1	1 unit	103	67.000
	1600	1600			3WL12 16-2□□43-□□□□		1	1 unit	103	67.000
	2000	2000			3WL12 20-2□□43-□□□□		1	1 unit	103	67.000
	2500	2500			3WL12 25-2□□43-□□□□		1	1 unit	103	71.000
	3200	3200			3WL12 32-2□□43-□□□□		1	1 unit	103	77.000
<b>Front main circuit connection, double hole</b>										
I	630	630	55		3WL11 06-2□□44-□□□□		1	1 unit	103	50.000
	800	800			3WL11 08-2□□44-□□□□		1	1 unit	103	50.000
	1000	1000			3WL11 10-2□□44-□□□□		1	1 unit	103	50.000
	1250	1250			3WL11 12-2□□44-□□□□		1	1 unit	103	50.000
	1600	1600			3WL11 16-2□□44-□□□□		1	1 unit	103	50.000
	2000	2000			3WL11 20-2□□44-□□□□		1	1 unit	103	50.000
II	800	800	66		3WL12 08-2□□44-□□□□		1	1 unit	103	67.000
	1000	1000			3WL12 10-2□□44-□□□□		1	1 unit	103	67.000
	1250	1250			3WL12 12-2□□44-□□□□		1	1 unit	103	67.000
	1600	1600			3WL12 16-2□□44-□□□□		1	1 unit	103	67.000
	2000	2000			3WL12 20-2□□44-□□□□		1	1 unit	103	67.000
	2500	2500			3WL12 25-2□□44-□□□□		1	1 unit	103	71.000
	3200	3200			3WL12 32-2□□44-□□□□		1	1 unit	103	77.000

Options		AA	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units			<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>			
	ETU15B: Protection functions LI	<b>BB</b>		✓
	ETU25B: Protection functions LSI	<b>CB</b>		✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	<b>EB</b>		✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	<b>FB</b>		✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display	<b>NB</b>		✓
	<b>Versions with ground-fault protection</b>			
	ETU27B: Protection functions LSING <sup>4)</sup>	<b>DG</b>		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	<b>EG</b>		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	<b>FG</b>		✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display	<b>NG</b>		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO		<b>1AA2</b>	<b>None</b>
	For further Order No. supplements see page 1/37			

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.
- 4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
									kg
<b>Horizontal main circuit connection</b>									
I	630	630	66		3WL11 06-3□□42-□□□□	1	1 unit	103	50.000
	800	800			3WL11 08-3□□42-□□□□				
	1000	1000			3WL11 10-3□□42-□□□□				
	1250	1250			3WL11 12-3□□42-□□□□				
	1600	1600			3WL11 16-3□□42-□□□□				
	2000	2000			3WL11 20-3□□42-□□□□				
II	800	800	80		3WL12 08-3□□42-□□□□	1	1 unit	103	67.000
	1000	1000			3WL12 10-3□□42-□□□□				
	1250	1250			3WL12 12-3□□42-□□□□				
	1600	1600			3WL12 16-3□□42-□□□□				
	2000	2000			3WL12 20-3□□42-□□□□				
	2500	2500			3WL12 25-3□□42-□□□□				
	3200	3200			3WL12 32-3□□42-□□□□				
					3WL12 32-3□□42-□□□□				
<b>Vertical main circuit connection</b>									
I	630	630	66		3WL11 06-3□□41-□□□□	1	1 unit	103	50.000
	800	800			3WL11 08-3□□41-□□□□				
	1000	1000			3WL11 10-3□□41-□□□□				
	1250	1250			3WL11 12-3□□41-□□□□				
	1600	1600			3WL11 16-3□□41-□□□□				
	2000	2000			3WL11 20-3□□41-□□□□				
II	800	800	80		3WL12 08-3□□41-□□□□	1	1 unit	103	67.000
	1000	1000			3WL12 10-3□□41-□□□□				
	1250	1250			3WL12 12-3□□41-□□□□				
	1600	1600			3WL12 16-3□□41-□□□□				
	2000	2000			3WL12 20-3□□41-□□□□				
	2500	2500			3WL12 25-3□□41-□□□□				
	3200	3200			3WL12 32-3□□41-□□□□				
	4000	4000			3WL12 40-3□□41-□□□□				

Options			AA	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units				None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>				
	ETU15B: Protection functions LI		BB		✓
	ETU25B: Protection functions LSI		CB		✓
	ETU45B: Protection functions LSIN <sup>3)</sup>		EB		✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display		FB		✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display		NB		✓
	<b>Versions with ground-fault protection</b>				
	ETU27B: Protection functions LSING <sup>4)</sup>		DG		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>		EG		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display		FG		✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display		NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO			1AA2	None
	For further Order No. supplements see page 1/37				

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.
- 4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
					Order No.	Basic price per PU				
										kg
<b>Front main circuit connection, single hole</b>										
I	630	630	66		3WL11 06-3□□43-□□□□		1	1 unit	103	50.000
	800	800			3WL11 08-3□□43-□□□□		1	1 unit	103	50.000
	1000	1000			3WL11 10-3□□43-□□□□		1	1 unit	103	50.000
	1250	1250			3WL11 12-3□□43-□□□□		1	1 unit	103	50.000
	1600	1600			3WL11 16-3□□43-□□□□		1	1 unit	103	50.000
II	800	800	80		3WL12 08-3□□43-□□□□		1	1 unit	103	67.000
	1000	1000			3WL12 10-3□□43-□□□□		1	1 unit	103	67.000
	1250	1250			3WL12 12-3□□43-□□□□		1	1 unit	103	67.000
	1600	1600			3WL12 16-3□□43-□□□□		1	1 unit	103	67.000
	2000	2000			3WL12 20-3□□43-□□□□		1	1 unit	103	67.000
	2500	2500			3WL12 25-3□□43-□□□□		1	1 unit	103	71.000
	3200	3200			3WL12 32-3□□43-□□□□		1	1 unit	103	77.000
<b>Front main circuit connection, double hole</b>										
I	630	630	66		3WL11 06-3□□44-□□□□		1	1 unit	103	50.000
	800	800			3WL11 08-3□□44-□□□□		1	1 unit	103	50.000
	1000	1000			3WL11 10-3□□44-□□□□		1	1 unit	103	50.000
	1250	1250			3WL11 12-3□□44-□□□□		1	1 unit	103	50.000
	1600	1600			3WL11 16-3□□44-□□□□		1	1 unit	103	50.000
	2000	2000			3WL11 20-3□□44-□□□□		1	1 unit	103	50.000
II	800	800	80		3WL12 08-3□□44-□□□□		1	1 unit	103	67.000
	1000	1000			3WL12 10-3□□44-□□□□		1	1 unit	103	67.000
	1250	1250			3WL12 12-3□□44-□□□□		1	1 unit	103	67.000
	1600	1600			3WL12 16-3□□44-□□□□		1	1 unit	103	67.000
	2000	2000			3WL12 20-3□□44-□□□□		1	1 unit	103	67.000
	2500	2500			3WL12 25-3□□44-□□□□		1	1 unit	103	71.000
	3200	3200			3WL12 32-3□□44-□□□□		1	1 unit	103	77.000
<b>Options</b>										
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units				<b>AA</b>	<b>None</b>				
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>									
	ETU15B: Protection functions LI				<b>BB</b>		✓			
	ETU25B: Protection functions LSI				<b>CB</b>		✓			
	ETU45B: Protection functions LSIN <sup>3)</sup>				<b>EB</b>		✓			
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display				<b>FB</b>		✓			
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display				<b>NB</b>		✓			
	<b>Versions with ground-fault protection</b>									
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>		✓			
	ETU45B: Protection functions LSING <sup>3)5)</sup>				<b>EG</b>		✓			
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display				<b>FG</b>		✓			
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display				<b>NG</b>		✓			
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>	<b>None</b>				
	For further Order No. supplements see page 1/37									

✓ Additional price

<sup>1)</sup> The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.

<sup>2)</sup> For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

<sup>3)</sup> 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.

<sup>4)</sup> Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.

<sup>5)</sup> ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
					Order No.	Basic price per PU				
A		A	kA							kg
<b>Horizontal main circuit connection</b>										
I	630	630	85		3WL11 06-4□□42-□□□□		1	1 unit	103	50.000
	800	800			3WL11 08-4□□42-□□□□		1	1 unit	103	50.000
	1000	1000			3WL11 10-4□□42-□□□□		1	1 unit	103	50.000
	1250	1250			3WL11 12-4□□42-□□□□		1	1 unit	103	50.000
	1600	1600			3WL11 16-4□□42-□□□□		1	1 unit	103	50.000
	2000	2000			3WL11 20-4□□42-□□□□		1	1 unit	103	50.000
	II	800			800	100		3WL12 08-4□□42-□□□□		1
1000		1000	3WL12 10-4□□42-□□□□		1			1 unit	103	67.000
1250		1250	3WL12 12-4□□42-□□□□		1			1 unit	103	67.000
1600		1600	3WL12 16-4□□42-□□□□		1			1 unit	103	67.000
2000		2000	3WL12 20-4□□42-□□□□		1			1 unit	103	67.000
2500		2500	3WL12 25-4□□42-□□□□		1			1 unit	103	71.000
3200		3200	3WL12 32-4□□42-□□□□		1			1 unit	103	77.000
III		4000	4000	100				3WL13 40-4□□42-□□□□		1
	5000	5000	3WL13 50-4□□42-□□□□				1	1 unit	103	99.000
<b>Vertical main circuit connection</b>										
I	630	630	85		3WL11 06-4□□41-□□□□		1	1 unit	103	50.000
	800	800			3WL11 08-4□□41-□□□□		1	1 unit	103	50.000
	1000	1000			3WL11 10-4□□41-□□□□		1	1 unit	103	50.000
	1250	1250			3WL11 12-4□□41-□□□□		1	1 unit	103	50.000
	1600	1600			3WL11 16-4□□41-□□□□		1	1 unit	103	50.000
	2000	2000			3WL11 20-4□□41-□□□□		1	1 unit	103	50.000
	II	800			800	100		3WL12 08-4□□41-□□□□		1
1000		1000	3WL12 10-4□□41-□□□□		1			1 unit	103	67.000
1250		1250	3WL12 12-4□□41-□□□□		1			1 unit	103	67.000
1600		1600	3WL12 16-4□□41-□□□□		1			1 unit	103	67.000
2000		2000	3WL12 20-4□□41-□□□□		1			1 unit	103	67.000
2500		2500	3WL12 25-4□□41-□□□□		1			1 unit	103	71.000
3200		3200	3WL12 32-4□□41-□□□□		1			1 unit	103	77.000
4000		4000	3WL12 40-4□□41-□□□□		1			1 unit	103	103.000
III	4000	4000	100		3WL13 40-4□□41-□□□□		1	1 unit	103	99.000
	5000	5000			3WL13 50-4□□41-□□□□		1	1 unit	103	99.000
	6300	6300			3WL13 63-4□□41-□□□□		1	1 unit	103	108.000
<b>Options</b>										
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units				<b>AA</b>	<b>None</b>				
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>									
	ETU15B: Protection functions L <sup>6)</sup>				<b>BB</b>	✓				
	ETU25B: Protection functions LSI				<b>CB</b>	✓				
	ETU45B: Protection functions LSIN <sup>3)</sup>				<b>EB</b>	✓				
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display				<b>FB</b>	✓				
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display				<b>NB</b>	✓				
	<b>Versions with ground-fault protection</b>									
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>	✓				
	ETU45B: Protection functions LSING <sup>3)5)</sup>				<b>EG</b>	✓				
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display				<b>FG</b>	✓				
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display				<b>NG</b>	✓				
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>	<b>None</b>				
	For further Order No. supplements see page 1/37									

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.
- 4) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 5) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- 6) ETU15B cannot be used with 3WL air circuit breakers, size III.

# Air Circuit Breakers

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.	Basic price per PU			kg
<b>Front main circuit connection, single hole</b>									
II	800	800	100		3WL12 08-4□□43-□□□□	1	1 unit	103	67.000
	1000	1000			3WL12 10-4□□43-□□□□	1	1 unit	103	67.000
	1250	1250			3WL12 12-4□□43-□□□□	1	1 unit	103	67.000
	1600	1600			3WL12 16-4□□43-□□□□	1	1 unit	103	67.000
	2000	2000			3WL12 20-4□□43-□□□□	1	1 unit	103	67.000
	2500	2500			3WL12 25-4□□43-□□□□	1	1 unit	103	71.000
	3200	3200			3WL12 32-4□□43-□□□□	1	1 unit	103	77.000
III	4000	4000	100		3WL13 40-4□□43-□□□□	1	1 unit	103	99.000
<b>Front main circuit connection, double hole</b>									
I	630	630	85		3WL11 06-4□□44-□□□□	1	1 unit	103	50.000
	800	800			3WL11 08-4□□44-□□□□	1	1 unit	103	50.000
	1000	1000			3WL11 10-4□□44-□□□□	1	1 unit	103	50.000
	1250	1250			3WL11 12-4□□44-□□□□	1	1 unit	103	50.000
	1600	1600			3WL11 16-4□□44-□□□□	1	1 unit	103	50.000
	2000	2000			3WL11 20-4□□44-□□□□	1	1 unit	103	50.000
II	800	800	100		3WL12 08-4□□44-□□□□	1	1 unit	103	67.000
	1000	1000			3WL12 10-4□□44-□□□□	1	1 unit	103	67.000
	1250	1250			3WL12 12-4□□44-□□□□	1	1 unit	103	67.000
	1600	1600			3WL12 16-4□□44-□□□□	1	1 unit	103	67.000
	2000	2000			3WL12 20-4□□44-□□□□	1	1 unit	103	67.000
	2500	2500			3WL12 25-4□□44-□□□□	1	1 unit	103	71.000
	3200	3200			3WL12 32-4□□44-□□□□	1	1 unit	103	77.000
III	4000	4000	100		3WL13 40-4□□44-□□□□	1	1 unit	103	99.000

Options		AA	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units	AA		None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>			
	ETU15B: Protection functions LI <sup>6)</sup>	BB		✓
	ETU25B: Protection functions LSI	CB		✓
	ETU45B: Protection functions LSIN <sup>3)</sup>	EB		✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display	FB		✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display	NB		✓
	<b>Versions with ground-fault protection</b>			
	ETU27B: Protection functions LSING <sup>4)</sup>	DG		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>	EG		✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display	FG		✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display	NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO		1AA2	None
	For further Order No. supplements see page 1/37			

✓ Additional price

- 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 on page 1/38.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.
- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.

- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- ETU15B cannot be used with 3WL air circuit breakers, size III.

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 130 kA at 500 V, very high breaking capacity C	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.	Basic price per PU			kg
<b>Horizontal main circuit connection</b>									
III	4000 5000	4000 5000	130		<b>3WL13 40-5□□42-□□□□</b> <b>3WL13 50-5□□42-□□□□</b>		1 1 unit	103	99.000 99.000
<b>Vertical main circuit connection</b>									
III	4000 5000 6300	4000 5000 6300	130		<b>3WL13 40-5□□41-□□□□</b> <b>3WL13 50-5□□41-□□□□</b> <b>3WL13 63-5□□41-□□□□</b>		1 1 1 unit	103	99.000 99.000 108.000
<b>Options</b>									
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units				<b>AA</b>				<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU25B: Protection functions LSI				<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>3)</sup>				<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display				<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>3)</sup> with graphics display				<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>4)</sup>				<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>3)5)</sup>				<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>3)5)</sup> with 4-line display				<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>3)5)</sup> with graphics display				<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO					<b>1AA2</b>			<b>None</b>
	For further Order No. supplements see page 1/37								

✓ Additional price

- 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 on page 1/38.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.
- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.

- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

## 3WL 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 $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	A	A	kA		Order No.	Basic price per PU			kg	
<b>Without guide frames<sup>2)</sup> (for guide frames, see page 1/45 to 1/50)</b>										
I	630	630	55		3WL11 06-2□□45-□□□□		1	1 unit	103	54,000
	800	800			3WL11 08-2□□45-□□□□		1	1 unit	103	54,000
	1000	1000			3WL11 10-2□□45-□□□□		1	1 unit	103	54,000
	1250	1250			3WL11 12-2□□45-□□□□		1	1 unit	103	54,000
	1600	1600			3WL11 16-2□□45-□□□□		1	1 unit	103	54,000
	2000	2000			3WL11 20-2□□45-□□□□		1	1 unit	103	54,000
	II	800			800		66		3WL12 08-2□□45-□□□□	
1000		1000	3WL12 10-2□□45-□□□□	1	1 unit	103			75,000	
1250		1250	3WL12 12-2□□45-□□□□	1	1 unit	103			75,000	
1600		1600	3WL12 16-2□□45-□□□□	1	1 unit	103			75,000	
2000		2000	3WL12 20-2□□45-□□□□	1	1 unit	103			72,000	
2500		2500	3WL12 25-2□□45-□□□□	1	1 unit	103			76,000	
3200		3200	3WL12 32-2□□45-□□□□	1	1 unit	103			82,000	
<b>With guide frames, horizontal main circuit connection</b>										
I	630	630	55		3WL11 06-2□□46-□□□□		1	1 unit	103	84,000
	800	800			3WL11 08-2□□46-□□□□		1	1 unit	103	84,000
	1000	1000			3WL11 10-2□□46-□□□□		1	1 unit	103	84,000
	1250	1250			3WL11 12-2□□46-□□□□		1	1 unit	103	84,000
	1600	1600			3WL11 16-2□□46-□□□□		1	1 unit	103	84,000
	2000	2000			3WL11 20-2□□46-□□□□		1	1 unit	103	84,000
	II	800			800		66		3WL12 08-2□□46-□□□□	
1000		1000	3WL12 10-2□□46-□□□□	1	1 unit	103			109,000	
1250		1250	3WL12 12-2□□46-□□□□	1	1 unit	103			109,000	
1600		1600	3WL12 16-2□□46-□□□□	1	1 unit	103			109,000	
2000		2000	3WL12 20-2□□46-□□□□	1	1 unit	103			109,000	
2500		2500	3WL12 25-2□□46-□□□□	1	1 unit	103			123,000	
3200		3200	3WL12 32-2□□46-□□□□	1	1 unit	103			136,000	

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LI												✓
	ETU25B: Protection functions LSI												✓
	ETU45B: Protection functions LSIN <sup>4)</sup>												✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display												✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display												✓
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>5)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display												✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display												✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO												None
	For further Order No. supplements see page 1/37												

✓ Additional price

- 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 on page 1/38.
- Z options which are installed on the guide frame are not available.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.
- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

## 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.			
					Order No.	Basic price per PU							
A		A	kA							kg			
<b>With guide frames, vertical main circuit connection</b>													
I	630	630	55		3WL11 06-2□□47-□□□□		1	1 unit	103	84.000			
	800	800			3WL11 08-2□□47-□□□□		1	1 unit	103	84.000			
	1000	1000			3WL11 10-2□□47-□□□□		1	1 unit	103	84.000			
	1250	1250			3WL11 12-2□□47-□□□□		1	1 unit	103	84.000			
	1600	1600			3WL11 16-2□□47-□□□□		1	1 unit	103	84.000			
	2000	2000			3WL11 20-2□□47-□□□□		1	1 unit	103	84.000			
	II	800			800	66		3WL12 08-2□□47-□□□□		1	1 unit	103	109.000
1000		1000	3WL12 10-2□□47-□□□□		1			1 unit	103	109.000			
1250		1250	3WL12 12-2□□47-□□□□		1			1 unit	103	109.000			
1600		1600	3WL12 16-2□□47-□□□□		1			1 unit	103	109.000			
2000		2000	3WL12 20-2□□47-□□□□		1			1 unit	103	109.000			
2500		2500	3WL12 25-2□□47-□□□□		1			1 unit	103	123.000			
3200		3200	3WL12 32-2□□47-□□□□		1			1 unit	103	136.000			
4000		4000	3WL12 40-2□□47-□□□□		1			1 unit	103	146.000			
<b>With guide frames, connecting flanges</b>													
I		630	630	55				3WL11 06-2□□48-□□□□		1	1 unit	103	84.000
	800	800	3WL11 08-2□□48-□□□□				1	1 unit	103	84.000			
	1000	1000	3WL11 10-2□□48-□□□□				1	1 unit	103	84.000			
	1250	1250	3WL11 12-2□□48-□□□□				1	1 unit	103	84.000			
	1600	1600	3WL11 16-2□□48-□□□□				1	1 unit	103	84.000			
	2000	2000	3WL11 20-2□□48-□□□□				1	1 unit	103	84.000			
	II	800	800			66		3WL12 08-2□□48-□□□□		1	1 unit	103	109.000
1000		1000	3WL12 10-2□□48-□□□□		1			1 unit	103	109.000			
1250		1250	3WL12 12-2□□48-□□□□		1			1 unit	103	109.000			
1600		1600	3WL12 16-2□□48-□□□□		1			1 unit	103	109.000			
2000		2000	3WL12 20-2□□48-□□□□		1			1 unit	103	109.000			
2500		2500	3WL12 25-2□□48-□□□□		1			1 unit	103	123.000			
3200		3200	3WL12 32-2□□48-□□□□		1			1 unit	103	136.000			

Options			Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units	AA	None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>		
	ETU15B: Protection functions LI	BB	✓
	ETU25B: Protection functions LSI	CB	✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	EB	✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	FB	✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display	NB	✓
	<b>Versions with ground-fault protection</b>		
	ETU27B: Protection functions LSING <sup>5)</sup>	DG	✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	EG	✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	FG	✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display	NG	✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO	1AA2	None
	For further Order No. supplements see page 1/37		

✓ Additional price

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.

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 1/5.

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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

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

### 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">S</span>	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	kA		Order No.	Basic price per PU			kg
<b>Without guide frames<sup>2)</sup> (for guide frames, see page 1/45 to 1/50)</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL11 06-3□□45-□□□□ 3WL11 08-3□□45-□□□□ 3WL11 10-3□□45-□□□□ 3WL11 12-3□□45-□□□□ 3WL11 16-3□□45-□□□□ 3WL11 20-3□□45-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	54.000 54.000 54.000 54.000 54.000 54.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL12 08-3□□45-□□□□ 3WL12 10-3□□45-□□□□ 3WL12 12-3□□45-□□□□ 3WL12 16-3□□45-□□□□ 3WL12 20-3□□45-□□□□ 3WL12 25-3□□45-□□□□ 3WL12 32-3□□45-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	72.000 72.000 72.000 72.000 72.000 76.000 82.000
<b>With guide frames, horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	66		3WL11 06-3□□46-□□□□ 3WL11 08-3□□46-□□□□ 3WL11 10-3□□46-□□□□ 3WL11 12-3□□46-□□□□ 3WL11 16-3□□46-□□□□ 3WL11 20-3□□46-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	84.000 84.000 84.000 84.000 84.000 84.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	80		3WL12 08-3□□46-□□□□ 3WL12 10-3□□46-□□□□ 3WL12 12-3□□46-□□□□ 3WL12 16-3□□46-□□□□ 3WL12 20-3□□46-□□□□ 3WL12 25-3□□46-□□□□ 3WL12 32-3□□46-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	109.000 109.000 109.000 109.000 109.000 123.000 136.000

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LI												✓
	ETU25B: Protection functions LSI												✓
	ETU45B: Protection functions LSIN <sup>4)</sup>												✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display												✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display												✓
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>5)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>												✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display												✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display												✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO												None
	For further Order No. supplements see page 1/37												

✓ Additional price

- 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 on page 1/38.
- Z options which are installed on the guide frame are not available.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.
- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

## 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 66/80 kA at 500 V, standard breaking capacity S		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg			
					Order No.	Basic price per PU							
<b>With guide frames, vertical main circuit connection</b>													
I	630	630	66		3WL11 06-3□□47-□□□□		1	1 unit	103	84.000			
	800	800			3WL11 08-3□□47-□□□□		1	1 unit	103	84.000			
	1000	1000			3WL11 10-3□□47-□□□□		1	1 unit	103	84.000			
	1250	1250			3WL11 12-3□□47-□□□□		1	1 unit	103	84.000			
	1600	1600			3WL11 16-3□□47-□□□□		1	1 unit	103	84.000			
	2000	2000			3WL11 20-3□□47-□□□□		1	1 unit	103	84.000			
	II	800			800	80		3WL12 08-3□□47-□□□□		1	1 unit	103	109.000
1000		1000	3WL12 10-3□□47-□□□□		1			1 unit	103	109.000			
1250		1250	3WL12 12-3□□47-□□□□		1			1 unit	103	109.000			
1600		1600	3WL12 16-3□□47-□□□□		1			1 unit	103	109.000			
2000		2000	3WL12 20-3□□47-□□□□		1			1 unit	103	109.000			
2500		2500	3WL12 25-3□□47-□□□□		1			1 unit	103	123.000			
3200		3200	3WL12 32-3□□47-□□□□		1			1 unit	103	136.000			
4000		4000	3WL12 40-3□□47-□□□□		1			1 unit	103	146.000			
<b>With guide frames, connecting flanges</b>													
I		630	630	66				3WL11 06-3□□48-□□□□		1	1 unit	103	84.000
	800	800	3WL11 08-3□□48-□□□□				1	1 unit	103	84.000			
	1000	1000	3WL11 10-3□□48-□□□□				1	1 unit	103	84.000			
	1250	1250	3WL11 12-3□□48-□□□□				1	1 unit	103	84.000			
	1600	1600	3WL11 16-3□□48-□□□□				1	1 unit	103	84.000			
	2000	2000	3WL11 20-3□□48-□□□□				1	1 unit	103	84.000			
	II	800	800			80		3WL12 08-3□□48-□□□□		1	1 unit	103	109.000
1000		1000	3WL12 10-3□□48-□□□□		1			1 unit	103	109.000			
1250		1250	3WL12 12-3□□48-□□□□		1			1 unit	103	109.000			
1600		1600	3WL12 16-3□□48-□□□□		1			1 unit	103	109.000			
2000		2000	3WL12 20-3□□48-□□□□		1			1 unit	103	109.000			
2500		2500	3WL12 25-3□□48-□□□□		1			1 unit	103	123.000			
3200		3200	3WL12 32-3□□48-□□□□		1			1 unit	103	136.000			

Options		AA	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units			None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>			
	ETU15B: Protection functions LI	BB		✓
	ETU25B: Protection functions LSI	CB		✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	EB		✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	FB		✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display	NB		✓
	<b>Versions with ground-fault protection</b>			
	ETU27B: Protection functions LSING <sup>5)</sup>	DG		✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	EG		✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	FG		✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display	NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO		1AA2	None
	For further Order No. supplements see page 1/37			

✓ Additional price

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.

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 1/5.

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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

# Air Circuit Breakers

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

### 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
					Order No.	Basic price per PU			
					kg				
<b>Without guide frames<sup>2)</sup></b> (for guide frames, see page 1/45 to 1/50)									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL11 06-4□□45-□□□□ 3WL11 08-4□□45-□□□□ 3WL11 10-4□□45-□□□□ 3WL11 12-4□□45-□□□□ 3WL11 16-4□□45-□□□□ 3WL11 20-4□□45-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	54.000 54.000 54.000 54.000 54.000 54.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL12 08-4□□45-□□□□ 3WL12 10-4□□45-□□□□ 3WL12 12-4□□45-□□□□ 3WL12 16-4□□45-□□□□ 3WL12 20-4□□45-□□□□ 3WL12 25-4□□45-□□□□ 3WL12 32-4□□45-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	72.000 72.000 72.000 72.000 72.000 76.000 82.000
III	4000 5000 6300	4000 5000 6300	100		3WL13 40-4□□45-□□□□ 3WL13 50-4□□45-□□□□ 3WL13 63-4□□45-□□□□	1 1 1	1 unit 1 unit 1 unit	103 103 103	106.000 106.000 108.000
<b>With guide frames, horizontal main circuit connection</b>									
I	630 800 1000 1250 1600 2000	630 800 1000 1250 1600 2000	85		3WL11 06-4□□46-□□□□ 3WL11 08-4□□46-□□□□ 3WL11 10-4□□46-□□□□ 3WL11 12-4□□46-□□□□ 3WL11 16-4□□46-□□□□ 3WL11 20-4□□46-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103	84.000 84.000 84.000 84.000 84.000 84.000
II	800 1000 1250 1600 2000 2500 3200	800 1000 1250 1600 2000 2500 3200	100		3WL12 08-4□□46-□□□□ 3WL12 10-4□□46-□□□□ 3WL12 12-4□□46-□□□□ 3WL12 16-4□□46-□□□□ 3WL12 20-4□□46-□□□□ 3WL12 25-4□□46-□□□□ 3WL12 32-4□□46-□□□□	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103 103 103	109.000 109.000 109.000 109.000 109.000 123.000 136.000
III	4000 5000	4000 5000	100		3WL13 40-4□□46-□□□□ 3WL13 50-4□□46-□□□□	1 1	1 unit 1 unit	103 103	190.000 190.000
<b>Options</b>									Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units				<b>AA</b>				<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>								
	ETU15B: Protection functions LI <sup>7)</sup>				<b>BB</b>				✓
	ETU25B: Protection functions LSI				<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup>				<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display				<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display				<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>								
	ETU27B: Protection functions LSING <sup>5)</sup>				<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>				<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display				<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display				<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO								
	For further Order No. supplements see page 1/37								
									<b>1AA2</b>
									<b>None</b>

✓ Additional price

- 1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.
- 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 1/5.

- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.
- 5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- 6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.
- 7) ETU15B cannot be used with 3WL air circuit breakers, size III.

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

## 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	$I_{cu}$ 85/100 kA at 500 V, high breaking capacity H	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.						
										Order No.	Basic price per PU				
					(H)										
					A	A	kA								
With guide frames, vertical main circuit connection															
I	630	630	85		3WL11 06-4□□47-□□□□	1	1 unit	103	84.000						
	800	800			3WL11 08-4□□47-□□□□										
	1000	1000			3WL11 10-4□□47-□□□□										
	1250	1250			3WL11 12-4□□47-□□□□										
	1600	1600			3WL11 16-4□□47-□□□□										
	2000	2000			3WL11 20-4□□47-□□□□										
II	800	800	100		3WL12 08-4□□47-□□□□	1	1 unit	103	109.000						
	1000	1000			3WL12 10-4□□47-□□□□										
	1250	1250			3WL12 12-4□□47-□□□□										
	1600	1600			3WL12 16-4□□47-□□□□										
	2000	2000			3WL12 20-4□□47-□□□□										
	2500	2500			3WL12 25-4□□47-□□□□										
	3200	3200			3WL12 32-4□□47-□□□□										
	4000	4000			3WL12 40-4□□47-□□□□										
III	4000	4000	100		3WL13 40-4□□47-□□□□	1	1 unit	103	190.000						
	5000	5000			3WL13 50-4□□47-□□□□										
	6300	6300			3WL13 63-4□□47-□□□□										
With guide frames, connecting flanges															
I	630	630	85		3WL11 06-4□□48-□□□□	1	1 unit	103	84.000						
	800	800			3WL11 08-4□□48-□□□□										
	1000	1000			3WL11 10-4□□48-□□□□										
	1250	1250			3WL11 12-4□□48-□□□□										
	1600	1600			3WL11 16-4□□48-□□□□										
	2000	2000			3WL11 20-4□□48-□□□□										
II	800	800	100		3WL12 08-4□□48-□□□□	1	1 unit	103	109.000						
	1000	1000			3WL12 10-4□□48-□□□□										
	1250	1250			3WL12 12-4□□48-□□□□										
	1600	1600			3WL12 16-4□□48-□□□□										
	2000	2000			3WL12 20-4□□48-□□□□										
	2500	2500			3WL12 25-4□□48-□□□□										
	3200	3200			3WL12 32-4□□48-□□□□										
	III	4000			4000					100		3WL13 40-4□□48-□□□□	1	1 unit	103

Options		AA	BB	CB	EB	FB	NB	DG	EG	FG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units												None
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>												
	ETU15B: Protection functions LI <sup>7)</sup>		BB										✓
	ETU25B: Protection functions LSI			CB									✓
	ETU45B: Protection functions LSIN <sup>4)</sup>				EB								✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display					FB							✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display						NB						✓
	<b>Versions with ground-fault protection</b>												
	ETU27B: Protection functions LSING <sup>5)</sup>							DG					✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>								EG				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display									FG			✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display										NG		✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO											1AA2	None
	For further Order No. supplements see page 1/37												

✓ Additional price

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code on page 1/38.

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 1/5.

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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.

5) Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.

6) ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

# Air Circuit Breakers

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

### 4-pole, withdrawable versions

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	Rated current <sup>1)</sup> $I_n$	Breaking capacity $I_{cu} = I_{cs}$	DT	<b><math>I_{cu}</math> 130 kA at 500 V, very high breaking capacity C</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
					Order No.	Basic price per PU			
A			A	kA					
<b>Without guide frames<sup>2)</sup> (for guide frames, see page 1/45 to 1/50)</b>									
III	4000 5000 6300	4000 5000 6300	130		<b>3WL13 40-5□□45-□□□□</b> <b>3WL13 50-5□□45-□□□□</b> <b>3WL13 63-5□□45-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	115.000 106.000 108.000
<b>With guide frames, horizontal main circuit connection</b>									
III	4000 5000	4000 5000	130		<b>3WL13 40-5□□46-□□□□</b> <b>3WL13 50-5□□46-□□□□</b>	1 1	1 unit 1 unit	103 103	190.000 190.000
<b>With guide frames, vertical main circuit connection</b>									
III	4000 5000 6300	4000 5000 6300	130		<b>3WL13 40-5□□47-□□□□</b> <b>3WL13 50-5□□47-□□□□</b> <b>3WL13 63-5□□47-□□□□</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	190.000 190.000 227.000

Options		AA	EG	NG	1AA2	Add. price
<b>Non-automatic air circuit breakers<sup>3)</sup></b>	without Electronic Trip Units					<b>None</b>
<b>Electronic Trip Units</b>	<b>Versions without ground-fault protection</b>					
	ETU25B: Protection functions LSI	<b>CB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup>	<b>EB</b>				✓
	ETU45B: Protection functions LSIN <sup>4)</sup> with 4-line display	<b>FB</b>				✓
	ETU76B: Protection functions LSIN <sup>4)</sup> with graphics display	<b>NB</b>				✓
	<b>Versions with ground-fault protection</b>					
	ETU27B: Protection functions LSING <sup>5)</sup>	<b>DG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup>	<b>EG</b>				✓
	ETU45B: Protection functions LSING <sup>4)6)</sup> with 4-line display	<b>FG</b>				✓
	ETU76B: Protection functions LSING <sup>4)6)</sup> with graphics display	<b>NG</b>				✓
<b>Operating mechanism, auxiliary release, auxiliary switch</b>	Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO				<b>1AA2</b>	<b>None</b>
	For further Order No. supplements see page 1/37					

✓ Additional price

- 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 on page 1/38.
- Z options which are installed on the guide frame are not available.
- For permissible rated short-time current  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic air circuit breakers see page 1/5.

- 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 1/51. The internal current transformers for N conductors can be ordered by adding the supplement "-Z" and the order code "F23", see page 1/40.
- Current transformers for protection of the N conductor are to be ordered separately, see page 1/51.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 1/51.

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

## Options

## Selection and ordering data

				Order No. supplement	Additional price
				3WL 1...-....- □□□□	
<b>Operating mechanisms</b>					
<b>Manual operating mechanism with mechanical closing</b>				1	None
<b>Manual operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100 % duty ratio</b>					
50/60 Hz V AC	V DC				
110	110 ... 125			2	✓
230	220			3	✓
<b>Manual/motorized operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100 % duty ratio</b>					
Motor		Closing solenoid			
50/60 Hz V AC	V DC	50/60 Hz V AC	V DC		
208 ... 240	220 ... 250	230	220	4	✓
110 ... 127	110 ... 125	110	110 ... 125	5	✓
--	24	--	24	6	✓
Note					
To order different voltages for motorized operating mechanism and closing solenoid or closing coil for synchronization purposes: "1" at the 13th digit of the Order No. and order codes, <a href="#">see page 1/39</a> .					
<b>1st auxiliary releases</b>					
Type	Condition	$U_s$ 50/60 Hz V AC	$U_s$ V DC		
<b>Without 1st auxiliary release</b>	--	--	--	A	None
<b>Shunt release suitable for uninterrupted duty, 100 % duty ratio</b>	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
<b>2nd auxiliary releases</b>					
Type	Condition	$U_s$ 50/60 Hz V AC	$U_s$ V DC		
<b>Without 2nd auxiliary release</b>	--	--	--	A	None
<b>Shunt release suitable for uninterrupted duty, 100 % duty ratio</b>	Operating range $0.85 \dots 1.1 \times U_s$	--	24	B	✓
		--	30	C	✓
		--	48	D	✓
		--	60	E	✓
		110 ... 127	110 ... 125	F	✓
		208 ... 240	220 ... 250	G	✓
<b>Undervoltage release, instantaneous (<math>\leq 80</math> ms), short-delay (<math>\leq 200</math> ms)</b>	Operating range $0.85 \dots 1.1 \times U_s$	--	24	J	✓
		--	30	K	✓
		--	48	L	✓
		--	60	U	✓
		110 ... 127	110 ... 125	M	✓
		208 ... 240	220 ... 250	N	✓
<b>Undervoltage release, can be delayed between 0.2 s and 3.2 s</b>	Operating range $0.85 \dots 1.1 \times U_s$	380 ... 415	--	P	✓
		--	48	Q	✓
		110 ... 127	110 ... 125	R	✓
		208 ... 240	220 ... 250	S	✓
380 ... 415	--	T	✓		
<b>Auxiliary switches</b>					
1st auxiliary switch block					
<b>2 NO + 2 NC</b>				2	None
1st + 2nd auxiliary switch blocks					
<b>4 NO + 4 NC</b>				4	✓
<b>6 NO + 2 NC</b>				7	✓
<b>5 NO + 3 NC</b>				8	✓

✓ Additional price

# Air Circuit Breakers

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

### Options

Add "-Z" to the complete Order 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 $I_n$		Add. price 3-pole	Add. price 4-pole
Only for circuit breakers with high breaking capacity H (8th digit of the Order No. is a "4") Cannot be combined with "Rated voltage 1150 V AC order code "A15".	I <sup>1)</sup>	Up to 2000 A	A 0 5	✓	✓
		Up to 2000 A	A 0 5	✓	✓
		2500 A	A 0 5	✓	✓
	III <sup>1)2)</sup>	3200 A	A 0 5	✓	✓
		4000 A	A 0 5	✓	✓
		5000 A	A 0 5	✓	✓
		6300 A	A 0 5	✓	✓
Rated voltage 1150 V AC					
Conditions	Size	Rated current $I_n$			
Only for circuit breakers with high breaking capacity H (8th digit of the Order No. is a "4") Cannot be combined with "Rated voltage 1000 V AC order code "A05".	II	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 Order No. is a "4").	I	Up to 2000 A	A 1 6	✓	✓
Tinned version of the customer's connections on the guide frame <sup>3)4)</sup>					
Conditions	Size				
Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.	I		A 0 8	✓	✓
	II		A 0 8	✓	✓
	III		A 0 8	✓	✓
Special packaging (moisture protection)					
Special packaging for extended technical requirements					
Cardboard packaging with water-repellent coating on corrugated cardboard (moisture protection)			A 6 1	✓	
Rated current modules / Rating plugs					
Conditions	Size	Rated current $I_n$ A			Additional price
Only one module is possible per circuit breaker (not in conjunction with Electronic Trip Unit ETU15B). As standard the Electronic Trip Units are equipped with a rating plug which is equal to the maximum rated current circuit breaker ( $I_{n,max}$ ). The rated current of the selected rating plug must be smaller than $I_{n,max}$ .	I, II	250	B 0 2		None
		315	B 0 3		None
		400	B 0 4		None
		500	B 0 5		None
		630	B 0 6		None
		800	B 0 8		None
	I, II, III	1000	B 1 0		None
		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	
	5000	B 5 0		None	
III	6300	B 6 3		None	

✓ Additional price

<sup>1)</sup> If ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

<sup>2)</sup> 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.

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

<sup>4)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

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

## Options

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

✓ Additional price

1) Only possible with motorized operating mechanism.

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

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

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

5) Overexcited, i.e. opening time 50 ms (standard &gt; 80 ms).

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

7) Overexcited, i.e. operating time 50 ms (standard &gt; 80 ms).

# Air Circuit Breakers

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

### Options

Add "-Z" to the complete Order No. and indicate the appropriate order code(s).				3WL.....-Z □□□ +...+...	Additional price
<b>Interlocks, covers, position signaling switches (for fixed-mounted version)</b>					
<b>Mutual mechanical interlockings</b> (interlocking module with Bowden wire 2 m)	Fixed-mounted circuit breakers			S 5 5	✓
<b>Interlocks, covers, position signaling switches (for withdrawable version)</b>					
<b>Mutual mechanical interlockings</b> (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	✓
<b>Arc chute covers</b> Not available for - 1000 V version (order code "A05") - DC version - 4000 A size II - 1150 V version (order code "A15") - 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	✓
<b>Shutters</b> 2-part lockable with padlocks <sup>1)</sup>	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	✓
<b>Position signaling switches for guide frames</b>	Connected position	Test position	Disconnected position		
	1 CO	1 CO	1 CO	R 1 5	✓
	3 CO	2 CO	1 CO	R 1 6	✓
<b>Communication and measurement functions (for withdrawable version)</b>					
<b>Breaker status sensor (BSS)</b>				F 0 1	✓
<b>PROFIBUS-DP communications interface<sup>2)</sup></b>	Including COM15 and breaker status sensor (BSS)			F 0 2	✓
<b>MODBUS-RTU communications interface<sup>2)</sup></b>	Including COM16 and breaker status sensor (BSS)			F 1 2	✓
<b>Measurement function Plus (without PROFIBUS/MODBUS communications interface<sup>3)</sup>)</b>				F 0 5	✓
<b>Overload and short-circuit protection for neutral conductors (for withdrawable version)</b>					
<b>Internal current transformer for N conductor</b>	Size				
Only possible with 4-pole circuit breakers with ETU27B to ETU76B	I			F 2 3	✓
	II			F 2 3	✓
	III			F 2 3	✓
<b>EMC filters (for withdrawable version)</b>					
<b>EMC filters</b>				F 3 1	✓
<ul style="list-style-type: none"> <li>• Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)</li> <li>• Insertion loss (asymmetric) in the range 40 kHz to 10 MHz &gt;40 dB.</li> </ul>					

✓ Additional price

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

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

<sup>3)</sup> Additional voltage transformers are required for connection of the measurement function *Plus*, see page 1/60.

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

## Options

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

✓ Additional price

1) Locks must be ordered from the manufacturer.

2) Padlock not included in the scope of supply.

# Air Circuit Breakers

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

### Options

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

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

Additional price

□ □ □ +...+...

#### For withdrawable circuit breakers with guide frames or for guide frames<sup>1)</sup>

##### Note

To select this connection method the 12th digit of the Order No. for the circuit breaker must be a "6".

Connection methods for main connections	Size	Rated current $I_n$		Add. price 3-pole	Add. price 4-pole
Top and bottom: <sup>2)</sup> accessible from front, single hole	I	Up to 1600 A	P 0 0	✓	✓
	II	Up to 2000 A	P 0 0	✓	✓
		Up to 2500 A	P 0 0	✓	✓
		Up to 3200 A	P 0 0	✓	✓
III	Up to 4000 A	P 0 0	✓	✓	
Top and bottom: 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	✓	✓	
Top: <sup>2)</sup> horizontal, double hole 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	✓	✓	
Top: vertical Bottom: horizontal	I	Up to 2000 A	P 1 8	✓	✓
	II	Up to 2000 A	P 1 8	✓	✓
		Up to 2500 A	P 1 8	✓	✓
		Up to 3200 A	P 1 8	✓	✓
III	Up to 4000 A	P 1 8	✓	✓	
III	Up to 5000 A	P 1 8	✓	✓	
Top: Connecting flange Bottom: horizontal	I	Up to 2000 A	P 1 9	✓	✓
	II	Up to 2000 A	P 1 9	✓	✓
		Up to 2500 A	P 1 9	✓	✓
		Up to 3200 A	P 1 9	✓	✓
III	Up to 4000 A	P 1 9	✓	✓	
Top: horizontal Bottom: vertical	I	Up to 2000 A	P 2 3	✓	✓
	II	Up to 2000 A	P 2 3	✓	✓
		Up to 2500 A	P 2 3	✓	✓
		Up to 3200 A	P 2 3	✓	✓
III	Up to 4000 A	P 2 3	✓	✓	
III	Up to 5000 A	P 2 3	✓	✓	

✓ Additional price

<sup>1)</sup> Only horizontal connection and vertical connection are available for circuit breakers with very high breaking capacity C.

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

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

## Options

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

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

Additional price

□ □ □ +...+...

For fixed-mounted circuit breakers				Add. price 3-pole	Add. price 4-pole
<b>Note</b>					
To select this connection method the 12th digit of the Order No. for the circuit breaker must be a "2".					
<b>Connection methods for main connections</b>	Size	Rated current $I_n$			
Top: <sup>1)</sup> horizontal Bottom: accessible from front, single hole	I	Up to 1600 A	N 1 1	✓	✓
	II	Up to 2000 A	N 1 1	✓	✓
		Up to 2500 A	N 1 1	✓	✓
		Up to 3200 A	N 1 1	✓	✓
	III	Up to 4000 A	N 1 1	✓	✓
<b>Connection methods for main connections</b>	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	✓	✓
<b>Connection methods for main connections</b>	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	✓	✓

✓ Additional price

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

# Air Circuit Breakers

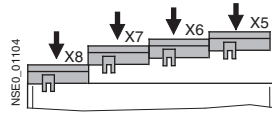
## 3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### 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 Order No.



The required number of auxiliary supply connectors depends on:

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

For ordering the auxiliary supply connectors see at "Accessories and spare parts, Guide frames for AC circuit breakers/non-automatic air circuit breakers", pages 1/45 to 1/50 and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/56.

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

## Accessories and spare parts

## Selection and ordering data

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

Size	Max. rated circuit breaker current $I_n$ max.	Breaking capacity $I_{cu} = I_{cs}$	DT	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	kA							kg
<b>Front main circuit connection, single hole</b>									
I	1000	... 66		3WL9 211-1AA□□-□□A1		1	1 unit	103	25.000
	1600	... 66		3WL9 211-2AA□□-□□A1		1	1 unit	103	25.000
II	2000	... 100		3WL9 212-3AA□□-□□A1		1	1 unit	103	31.000
	2500	... 100		3WL9 212-4AA□□-□□A1		1	1 unit	103	39.000
	3200	... 100		3WL9 212-5AA□□-□□A1		1	1 unit	103	45.000
III	4000	... 100		3WL9 213-6AA□□-□□A1		1	1 unit	103	60.000
<b>Front main circuit connection, double hole</b>									
I	1000	... 66		3WL9 211-1AB□□-□□A1		1	1 unit	103	25.000
	1600	... 66		3WL9 211-2AB□□-□□A1		1	1 unit	103	25.000
	2000 <sup>1)</sup>	... 85		3WL9 211-3AB□□-□□A1		1	1 unit	103	25.000
II	2000	... 100		3WL9 212-3AB□□-□□A1		1	1 unit	103	31.000
	2500	... 100		3WL9 212-4AB□□-□□A1		1	1 unit	103	39.000
	3200	... 100		3WL9 212-5AB□□-□□A1		1	1 unit	103	45.000
III	4000	... 100		3WL9 213-6AB□□-□□A1		1	1 unit	103	60.000
<b>Horizontal main circuit connection</b>									
I	1000	... 66		3WL9 211-1AC□□-□□A1		1	1 unit	103	25.000
	1600	... 66		3WL9 211-2AC□□-□□A1		1	1 unit	103	25.000
	2000 <sup>1)</sup>	... 85		3WL9 211-3AC□□-□□A1		1	1 unit	103	25.000
II	2000	... 100		3WL9 212-3AC□□-□□A1		1	1 unit	103	31.000
	2500	... 100		3WL9 212-4AC□□-□□A1		1	1 unit	103	39.000
	3200	... 100		3WL9 212-5AC□□-□□A1		1	1 unit	103	45.000
III	4000	... 100		3WL9 213-6AC□□-□□A1		1	1 unit	103	60.000
	5000	... 100		3WL9 213-7AC□□-□□A1		1	1 unit	103	60.000
	4000	... 150		3WL9 213-6AC□□-□□C1		1	1 unit	103	63.000
	5000	... 150		3WL9 213-7AC□□-□□C1		1	1 unit	103	63.000
<b>Options</b>									
<b>Number of auxiliary supply connectors</b>	Without			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 1/44.									
<b>Type of auxiliary circuit connections</b>	Without			0					None
	With screw connection (SIGUT, standard)			1					✓
	With screwless connection method (tension spring)			2					✓
<b>Position signaling switches</b>	Without			0					None
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO			1					✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO			2					✓
<b>Shutters</b>	Without			A					None
	With shutter, 2-part, lockable	Size I		B					✓
		Size II		B					✓
		Size III		B					✓

✓ Additional price

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

# Air Circuit Breakers

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

### Accessories and spare parts

	Add "-Z" to the complete Order No. and indicate the appropriate order code(s).	3WL921.-.....-Z □ □ □	Additional price
<b>Rated voltage 1000 V AC and 690 V IT networks</b>			
Size I (breaking capacity H)		A 0 5	✓
Size II, except 4000 A (breaking capacity H)		A 0 5	✓
Size III, not necessary with circuit breakers with very high breaking capacity		A 0 5	✓
<b>Rated voltage 1150 V AC</b>			
Size II, except 4000 A (breaking capacity H)		A 1 5	✓
<b>Rated voltage 690 V AC (+ 20 %)</b>			
Size I (breaking capacity H)		A 1 6	✓
<b>Tinned version of the customer's connections on guide frame<sup>1)2)</sup> Only for guide frames with horizontal connection or flange connection</b>			
Size I		A 0 8	✓
Size II		A 0 8	✓
Size III		A 0 8	✓
Notes			
<ul style="list-style-type: none"> <li>• For main circuit connection vertical and main circuit connecting flange <a href="#">see the following page</a>.</li> <li>• All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, <a href="#">see pages 1/38 to 1/43</a>.</li> </ul>			

✓ Additional price

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

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

# Air Circuit Breakers

## 3WL 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 $I_{cu} = I_{cs}$	DT	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
A		kA		Order No.	Basic price per PU			
<b>Vertical main circuit connection</b>								
I	1000	... 66		3WL9 211-1AD□□-□□A1		1	1 unit	103 25.000
	1600	... 66		3WL9 211-2AD□□-□□A1		1	1 unit	103 25.000
	2000 <sup>1)</sup>	... 85		3WL9 211-3AD□□-□□A1		1	1 unit	103 25.000
II	2000	... 100		3WL9 212-3AD□□-□□A1		1	1 unit	103 31.000
	2500	... 100		3WL9 212-4AD□□-□□A1		1	1 unit	103 39.000
	3200	... 100		3WL9 212-5AD□□-□□A1		1	1 unit	103 45.000
III	4000	... 100		3WL9 213-6AD□□-□□A1		1	1 unit	103 60.000
	5000	... 100		3WL9 213-7AD□□-□□A1		1	1 unit	103 60.000
	6300	... 100		3WL9 213-8AD□□-□□A1		1	1 unit	103 70.000
	4000	... 150		3WL9 213-6AD□□-□□C1		1	1 unit	103 63.000
	5000	... 150		3WL9 213-7AD□□-□□C1		1	1 unit	103 63.000
	6300	... 150		3WL9 213-8AD□□-□□C1		1	1 unit	103 74.000

<b>Main circuit connection connecting flanges</b>								
I	1000	... 66		3WL9 211-1AE□□-□□A1		1	1 unit	103 25.000
	1600	... 66		3WL9 211-2AE□□-□□A1		1	1 unit	103 25.000
	2000 <sup>1)</sup>	... 85		3WL9 211-3AE□□-□□A1		1	1 unit	103 25.000
II	2000	... 100		3WL9 212-3AE□□-□□A1		1	1 unit	103 31.000
	2500	... 100		3WL9 212-4AE□□-□□A1		1	1 unit	103 39.000
	3200	... 100		3WL9 212-5AE□□-□□A1		1	1 unit	103 45.000
III	4000	... 100		3WL9 213-6AE□□-□□A1		1	1 unit	103 60.000

<b>Options</b>				Add. price
<b>Number of auxiliary supply connectors</b>	Without	0	0	None
	1 connector	1	1	✓
	2 connectors	2	2	✓
	3 connectors	3	3	✓
	4 connectors	4	4	✓
<b>Note</b>				
For required number of auxiliary supply connectors, see table on page 1/44.				
<b>Type of auxiliary circuit connections</b>	Without	0	0	None
	With screw connection (SIGUT, standard)	1	1	✓
	With screwless connection method (tension spring)	2	2	✓
<b>Position signaling switches</b>	Without	0	0	None
	Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO	1	1	✓
	Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO	2	2	✓
<b>Shutters</b>	Without	A	A	None
	With shutter, 2-part, lockable	Size I	B	✓
		Size II	B	✓
		Size III	B	✓

		Add "-Z" to the complete Order No. and indicate the appropriate order code(s).	3WL921-.....-Z	Additional price
<b>Rated voltage 1000 V AC and 690 V IT networks</b>				
Size I (breaking capacity H)			A 0 5	✓
Size II, except 4000 A (breaking capacity H)			A 0 5	✓
Size III, not necessary with circuit breakers with very high breaking capacity			A 0 5	✓
<b>Rated voltage 1150 V AC</b>				
Size II, except 4000 A (breaking capacity H)			A 1 5	✓
<b>Rated voltage 690 V AC (+ 20 %)</b>				
Size I (breaking capacity H)			A 1 6	✓
<b>Tinned version of the customer's connections on guide frame<sup>1)2)</sup></b> 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	✓
<b>Notes</b>				
<ul style="list-style-type: none"> <li>For main circuit connection vertical and main circuit connecting flange see the following page.</li> <li>All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 1/38 to 1/43.</li> </ul>				

✓ Additional price  
<sup>1)</sup> For 3WL air circuit breakers size I from 630A to 2000A with high breaking capacity H and 3WL air circuit breakers size I with rated current  $I_n = 2000$  A.  
<sup>2)</sup> Front connections are tinned as standard.  
<sup>3)</sup> The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

# Air Circuit Breakers

## 3WL 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	DT	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Front main circuit connection, single hole</b>									
I	1000	... 66		<b>3WL9 211-1BA□□-□□A1</b>		1	1 unit	103	30.000
	1600	... 66		<b>3WL9 211-2BA□□-□□A1</b>		1	1 unit	103	30.000
II	2000	... 100		<b>3WL9 212-3BA□□-□□A1</b>		1	1 unit	103	37.000
	2500	... 100		<b>3WL9 212-4BA□□-□□A1</b>		1	1 unit	103	47.000
	3200	... 100		<b>3WL9 212-5BA□□-□□A1</b>		1	1 unit	103	54.000
III	4000	... 100		<b>3WL9 213-6BA□□-□□A1</b>		1	1 unit	103	84.000
<b>Front main circuit connection, double hole</b>									
I	1000	... 66		<b>3WL9 211-1BB□□-□□A1</b>		1	1 unit	103	30.000
	1600	... 66		<b>3WL9 211-2BB□□-□□A1</b>		1	1 unit	103	30.000
	2000 <sup>1)</sup>	... 85		<b>3WL9 211-3BB□□-□□A1</b>		1	1 unit	103	30.000
II	2000	... 100		<b>3WL9 212-3BB□□-□□A1</b>		1	1 unit	103	37.000
	2500	... 100		<b>3WL9 212-4BB□□-□□A1</b>		1	1 unit	103	47.000
	3200	... 100		<b>3WL9 212-5BB□□-□□A1</b>		1	1 unit	103	54.000
III	4000	... 100		<b>3WL9 213-6BB□□-□□A1</b>		1	1 unit	103	84.000
<b>Horizontal main circuit connection</b>									
I	1000	... 66		<b>3WL9 211-1BC□□-□□A1</b>		1	1 unit	103	30.000
	1600	... 66		<b>3WL9 211-2BC□□-□□A1</b>		1	1 unit	103	30.000
	2000 <sup>1)</sup>	... 85		<b>3WL9 211-3BC□□-□□A1</b>		1	1 unit	103	30.000
II	2000	... 100		<b>3WL9 212-3BC□□-□□A1</b>		1	1 unit	103	37.000
	2500	... 100		<b>3WL9 212-4BC□□-□□A1</b>		1	1 unit	103	47.000
	3200	... 100		<b>3WL9 212-5BC□□-□□A1</b>		1	1 unit	103	54.000
III	4000	... 100		<b>3WL9 213-6BC□□-□□A1</b>		1	1 unit	103	84.000
	5000	... 100		<b>3WL9 213-7BC□□-□□A1</b>		1	1 unit	103	84.000
	4000	... 130		<b>3WL9 213-6BC□□-□□C1</b>		1	1 unit	103	87.000
	5000	... 130		<b>3WL9 213-7BC□□-□□C1</b>		1	1 unit	103	87.000
<b>Options</b>									
<b>Number of auxiliary supply connectors</b>		Without		0					Add. price None
		1 connector		1					✓
		2 connectors		2					✓
		3 connectors		3					✓
		4 connectors		4					✓
<b>Note</b>									
For required number of auxiliary supply connectors, see table on page 1/44.									
<b>Type of auxiliary circuit connections</b>		Without		0					None
		With screw connection (SIGUT, standard)		1					✓
		With screwless connection method (tension spring)		2					✓
<b>Position signaling switches</b>		Without		0					None
		Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO		1					✓
		Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		2					✓
<b>Shutters</b>		Without		A					None
		With shutter, 2-part, lockable	Size I	B					✓
			Size II	B					✓
			Size III	B					✓

✓ Additional price

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

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

## Accessories and spare parts

	Add "-Z" to the complete Order No. and indicate the appropriate order code(s).	3WL921.-.....-Z □ □ □	Additional price
<b>Rated voltage 1000 V AC and 690 V IT networks</b>			
Size I (breaking capacity H)		A 0 5	✓
Size II, except 4000 A (breaking capacity H)		A 0 5	✓
Size III, not necessary with circuit breakers with very high breaking capacity		A 0 5	✓
<b>Rated voltage 1150 V AC</b>			
Size II, except 4000 A (breaking capacity H)		A 1 5	✓
<b>Rated voltage 690 V AC (+ 20 %)</b>			
Size I (breaking capacity H)		A 1 6	✓
<b>Tinned version of the customer's connections on guide frame<sup>1)2)</sup> Only for guide frames with horizontal connection or flange connection</b>			
Size I		A 0 8	✓
Size II		A 0 8	✓
Size III		A 0 8	✓
Notes			
<ul style="list-style-type: none"> <li>• For main circuit connection vertical and main circuit connecting flange <a href="#">see the following page</a>.</li> <li>• All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, <a href="#">see pages 1/38 to 1/43</a>.</li> </ul>			

✓ Additional price

1) Front connections are tinned as standard.

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

# Air Circuit Breakers

## 3WL 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	DT	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers Order No.	Basic price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg
<b>Vertical main circuit connection</b>									
I	1000	... 66		3WL9 211-1BD□□-□□A1		1	1 unit	103	30.000
	1600	... 66		3WL9 211-2BD□□-□□A1		1	1 unit	103	30.000
	2000 <sup>1)</sup>	... 85		3WL9 211-3BD□□-□□A1		1	1 unit	103	30.000
II	2000	... 100		3WL9 212-3BD□□-□□A1		1	1 unit	103	37.000
	2500	... 100		3WL9 212-4BD□□-□□A1		1	1 unit	103	47.000
	3200	... 100		3WL9 212-5BD□□-□□A1		1	1 unit	103	54.000
III	4000	... 100		3WL9 213-6BD□□-□□A1		1	1 unit	103	84.000
	5000	... 100		3WL9 213-7BD□□-□□A1		1	1 unit	103	84.000
	6300	... 100		3WL9 213-8BD□□-□□A1		1	1 unit	103	119.000
	4000	... 130		3WL9 213-6BD□□-□□C1		1	1 unit	103	88.000
	5000	... 130		3WL9 213-7BD□□-□□C1		1	1 unit	103	88.000
	5000	... 130		3WL9 213-8BD□□-□□C1		1	1 unit	103	124.000
	6300	... 130		3WL9 213-8BD□□-□□C1		1	1 unit	103	124.000
<b>Main circuit connection connecting flanges</b>									
I	1000	... 66		3WL9 211-1BE□□-□□A1		1	1 unit	103	30.000
	1600	... 66		3WL9 211-2BE□□-□□A1		1	1 unit	103	30.000
	2000 <sup>1)</sup>	... 85		3WL9 211-3BE□□-□□A1		1	1 unit	103	30.000
II	2000	... 100		3WL9 212-3BE□□-□□A1		1	1 unit	103	37.000
	2500	... 100		3WL9 212-4BE□□-□□A1		1	1 unit	103	47.000
	3200	... 100		3WL9 212-5BE□□-□□A1		1	1 unit	103	54.000
III	4000	... 100	3WL9 213-6BE□□-□□A1		1	1 unit	103	84.000	
<b>Options</b>									
<b>Number of auxiliary supply connectors</b>		Without		0					Add. price
		1 connector		1					None
		2 connectors		2					✓
		3 connectors		3					✓
		4 connectors		4					✓
Note									
For required number of auxiliary supply connectors, see table on page 1/44.									
<b>Type of auxiliary circuit connections</b>		Without		0					None
		With screw connection (SIGUT, standard)		1					✓
		With screwless connection method (tension spring)		2					✓
<b>Position signaling switches</b>		Without		0					None
		Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO		1					✓
		Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO		2					✓
<b>Shutters</b>		Without		A					None
		With shutter, 2-part, lockable	Size I	B					✓
			Size II	B					✓
			Size III	B					✓
Add "-Z" to the complete Order No. and indicate the appropriate order code(s).				3WL921-.....-Z				Additional price	
				□ □ □					
<b>Rated voltage 1000 V AC and 690 V IT networks</b>									
Size I (breaking capacity H)				A 0 5				✓	
Size II, except 4000 A (breaking capacity H)				A 0 5				✓	
Size III, not necessary with circuit breakers with very high breaking capacity				A 0 5				✓	
<b>Rated voltage 1150 V AC</b>									
Size II, except 4000 A (breaking capacity H)				A 1 5				✓	
<b>Rated voltage 690 V AC (+ 20 %)</b>									
Size I (breaking capacity H)				A 1 6				✓	
<b>Tinned version of the customer's connections on guide frame<sup>1)2)</sup></b>									
<b>Only for guide frames with horizontal connection or flange connection</b>									
Size I				A 0 8				✓	
Size II				A 0 8				✓	
Size III				A 0 8				✓	
Notes									
<ul style="list-style-type: none"> <li>For main circuit connection vertical and main circuit connecting flange see the following page.</li> <li>All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 1/38 to 1/43.</li> </ul>									

✓ Additional price






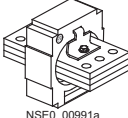
<sup>1)</sup> For 3WL air circuit breakers size I from 630A to 2000A with high breaking capacity H and 3WL air circuit breakers size I with rated current  $I_n = 2000$  A.

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

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

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

## Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Protective devices with device holder and optional measurement function<sup>1)</sup></b>							
 NSE0_01610b	Type	With protection function	Measurement function				
3WL9 31.-.AA.0-0AA1	ETU15B	LI	Without	<b>3WL9 311-5AA00-0AA2</b>	1	1 unit	103 0.720
	ETU25B	LSI	Without	<b>3WL9 312-5AA00-0AA2</b>	1	1 unit	103 0.720
	ETU27B	LSING	Without	<b>3WL9 312-7AA00-0AA2</b>	1	1 unit	103 0.720
	ETU45B (without display)	LSIN(G)	Without	<b>3WL9 314-5AA00-0AA2</b>	1	1 unit	103 0.720
			With measurement function <i>Plus</i>	<b>3WL9 314-5AA20-0AA2</b>	1	1 unit	103 0.720
	ETU76B	LSIN(G)	Without	<b>3WL9 317-6AA00-0AA2</b>	1	1 unit	103 0.720
With measurement function <i>Plus</i>			<b>3WL9 317-6AA20-0AA2</b>	1	1 unit	103 0.720	
<b>Rating plugs<sup>2)</sup></b>							
 NSE0_00992b	Size	Rated current $I_n$ (A)					
3WL9 111-0AA64-0AA0	I, II	250	<b>3WL9 111-0AA51-0AA0</b>	1	1 unit	103 0.010	
		315	<b>3WL9 111-0AA52-0AA0</b>	1	1 unit	103 0.010	
		400	<b>3WL9 111-0AA53-0AA0</b>	1	1 unit	103 0.010	
		500	<b>3WL9 111-0AA54-0AA0</b>	1	1 unit	103 0.010	
		630	<b>3WL9 111-0AA55-0AA0</b>	1	1 unit	103 0.010	
		800	<b>3WL9 111-0AA56-0AA0</b>	1	1 unit	103 0.010	
	I, II, III	1000	<b>3WL9 111-0AA57-0AA0</b>	1	1 unit	103 0.010	
		1250	<b>3WL9 111-0AA58-0AA0</b>	1	1 unit	103 0.010	
		1600	<b>3WL9 111-0AA61-0AA0</b>	1	1 unit	103 0.010	
	II, III	2000	<b>3WL9 111-0AA62-0AA0</b>	1	1 unit	103 0.010	
		2500	<b>3WL9 111-0AA63-0AA0</b>	1	1 unit	103 0.010	
		3200	<b>3WL9 111-0AA64-0AA0</b>	1	1 unit	103 0.010	
	III	4000	<b>3WL9 111-0AA65-0AA0</b>	1	1 unit	103 0.010	
		5000	<b>3WL9 111-0AA66-0AA0</b>	1	1 unit	103 0.010	
6300		<b>3WL9 111-0AA67-0AA0</b>	1	1 unit	103 0.010		
<b>Ground-fault modules<sup>3)</sup></b>							
 NSE0_01027a	Versions						
3WL9 111-0AT53-0AA0	• GFM AT 45B (only for ETU45B) alarm and tripping		<b>3WL9 111-0AT53-0AA0</b>	1	1 unit	103 0.030	
	• GFM AT 55B-76B (only for ETU76B) alarm and tripping		<b>3WL9 111-0AT56-0AA0</b>	1	1 unit	103 0.030	
3WL9 111-0AT81-0AA0	<b>Displays</b>		<b>3WL9 111-0AT81-0AA0</b>	1	1 unit	103 0.060	
	• For ETU45B • 4-line						
 NSE0_01609							
<b>Internal current transformers for N conductor</b> Including wiring kit							
3WL9 111-0AA2.-0AA0	ETU Release 2	Size					
	--	I	<b>3WL9 111-0AA11-0AA0</b>	1	1 unit	103 0.200	
		II	<b>3WL9 111-0AA12-0AA0</b>	1	1 unit	103 0.280	
		III	<b>3WL9 111-0AA13-0AA0</b>	1	1 unit	103 0.500	
	✓	I	<b>3WL9 111-0AA14-0AA0</b>	1	1 unit	103 0.200	
		II	<b>3WL9 111-0AA15-0AA0</b>	1	1 unit	103 0.280	
III		<b>3WL9 111-0AA16-0AA0</b>	1	1 unit	103 0.500		
 NSE0_00990a							
<b>External current transformers for N conductor</b> For T5, "Measurement Method" function see Technical Information at <a href="http://www.siemens.com/lowvoltage/support">www.siemens.com/lowvoltage/support</a> .							
3WL9 111-0AA3.-0AA0	Copper connection pieces	Size					
	--	I	<b>3WL9 111-0AA21-0AA0</b>	1	1 unit	103 0.300	
		II	<b>3WL9 111-0AA22-0AA0</b>	1	1 unit	103 0.380	
		III	<b>3WL9 111-0AA23-0AA0</b>	1	1 unit	103 0.680	
	✓	I	<b>3WL9 111-0AA31-0AA0</b>	1	1 unit	103 1.600	
		II	<b>3WL9 111-0AA32-0AA0</b>	1	1 unit	103 4.260	
III		<b>3WL9 111-0AA33-0AA0</b>	1	1 unit	103 8.500		
 NSE0_00991a							
<b>EMC filters</b>							
• Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)							
• Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB.							
Versions							
• Not for ETU Release 2		<b>3WL9 111-0AK32-0AA0</b>	1	1 unit	103 0.280		
• Only for ETU Release 2		<b>3WL9 111-0AK34-0AA0</b>	1	1 unit	103 0.280		

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


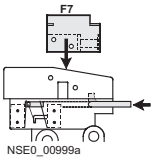
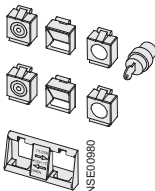
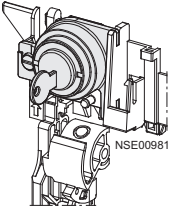
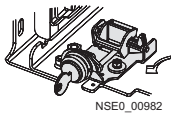
<sup>2)</sup> With the rating plug selected, the maximum rated current  $I_{n \max}$  of the circuit breaker must not be exceeded. The following applies  $I_n \leq I_{n \max}$ .

<sup>3)</sup> For direct measurement of the ground-fault current, e.g. in the neutral point of the transformer, a 1,200 A/1 A current transformer, class 1, is required. The internal load of the 3WL air circuit breaker is 0.11 Ω. If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must be installed in the neutral conductor.

# Air Circuit Breakers

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

### Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>More accessories for Electronic Trip Units</b>							
<b>Sealable and lockable covers</b>							
Versions							
 NSE0_00983b	• For ETU15B to ETU45B	<b>3WL9 111-0AT45-0AA0</b>		1	1 unit	103	0.050
	• For ETU76	<b>3WL9 111-0AT46-0AA0</b>		1	1 unit	103	0.050
<b>Automatic reset of the reclosing lockout</b>							
Spare part for option <b>K01</b> , see "-Z" + order code, <a href="#">page 1/39</a> .							
<b>Remote reset coils<sup>1)</sup></b>							
• For mechanical tripped indicator							
• Spare part for option <b>K10</b> to <b>K13</b> , see "-Z" + order code, <a href="#">page 1/39</a> .							
Versions							
 NSE0_00999a	• 24 V DC	<b>3WL9 111-0AK03-0AA0</b>		1	1 unit	103	0.200
	• 48 V DC	<b>3WL9 111-0AK04-0AA0</b>		1	1 unit	103	0.200
	• 120 V AC/125 V DC	<b>3WL9 111-0AK05-0AA0</b>		1	1 unit	103	0.200
	• 208-250 V AC/208-250 V DC	<b>3WL9 111-0AK06-0AA0</b>		1	1 unit	103	0.200
<b>Retrofittable internal CubicleBUS wiring for connection to terminal X8</b>							
• For ETU45B and ETU76B							
• Without male connector <sup>2)</sup>							
3WL9 111-0AK0.-0AA0		<b>3WL9 111-0AK30-0AA0</b>		1	1 unit	103	0.150
<b>Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8</b>							
• Not for ETU Release 2							
• Without male connector							
3WL9 111-0AK0.-0AA0		<b>3WL9 111-0AK31-0AA0</b>		1	1 unit	103	0.020
<b>Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8</b>							
• For ETU Release 2							
• Without male connector							
3WL9 111-0AK33-0AA0		<b>3WL9 111-0AK33-0AA0</b>		1	1 unit	103	0.020
<b>Locking devices</b>							
<b>Interlocking set for mechanical ON/OFF</b>							
• consisting of 2 transparent covers each for sealing or for attaching padlocks <sup>4)</sup> ,							
• Cover with 6.35 mm hole (for tool actuation)							
• Lock mount for safety lock for key operation							
Versions							
 NSE00980	• Without safety lock	<b>3WL9 111-0BA21-0AA0</b>		1	1 unit	103	0.100
	• Made by CES	<b>3WL9 111-0BA22-0AA0</b>		1	1 unit	103	0.300
	• Made by IKON	<b>3WL9 111-0BA24-0AA0</b>		1	1 unit	103	0.300
3WL9 111-0BA22-0AA0							
<b>Locking devices against unauthorized closing, in the operator panels</b>							
• The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1							
• Spare part for option <b>S01</b> to <b>S09</b> , see "-Z" + order code, <a href="#">page 1/41</a> .							
Versions							
 NSE00981	• Assembly kit FORTRESS or CASTELL <sup>3)</sup>	<b>3WL9 111-0BA31-0AA0</b>		1	1 unit	103	0.200
	• Made by Ronis	<b>3WL9 111-0BA33-0AA0</b>		1	1 unit	103	0.400
	• Made by KIRK-Key <sup>3)</sup>	<b>3WL9 111-0BA34-0AA0</b>		1	1 unit	103	0.270
	• Made by Profalux	<b>3WL9 111-0BA35-0AA0</b>		1	1 unit	103	0.250
	• Made by CES	<b>3WL9 111-0BA36-0AA0</b>		1	1 unit	103	0.200
	• Made by IKON	<b>3WL9 111-0BA38-0AA0</b>		1	1 unit	103	0.200
	• Assembly kit for padlocks <sup>4)</sup>	<b>3WL9 111-0BA41-0AA0</b>		1	1 unit	103	0.360
3WL9 111-0BA31-0AA0							
<b>Locking devices against unauthorized closing, for withdrawable circuit breakers</b>							
• 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 <b>R60</b> , <b>R61</b> , <b>R68</b> , see "-Z" + order code, <a href="#">page 1/41</a> .							
Versions							
 NSE0_00982	• Made by CES	<b>3WL9 111-0BA51-0AA0</b>		1	1 unit	103	0.300
	• Made by IKON	<b>3WL9 111-0BA53-0AA0</b>		1	1 unit	103	0.300
	• Made by KIRK-Key <sup>3)</sup>	<b>3WL9 111-0BA57-0AA0</b>		1	1 unit	103	0.300
	• Made by Ronis	<b>3WL9 111-0BA58-0AA0</b>		1	1 unit	103	0.300
	• Made by Profalux	<b>3WL9 111-0BA50-0AA0</b>		1	1 unit	103	0.227
3WL9 111-0BA53-0AA0							

<sup>1)</sup> Can only be used in conjunction with "automatic reset of reclosing lockout", e. g. "-Z" + "K01", 3WL9 111-0AK21-0AA0.

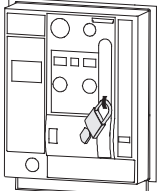
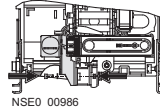
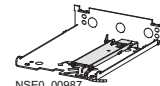
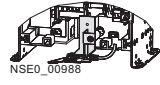
<sup>2)</sup> Required if communication is retrofitted.

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

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

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

## Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 <p><b>Locking devices for operating mechanism handle with padlock<sup>1)</sup></b> Spare part for option <b>S33</b>, see "-Z" + order code, <a href="#">page 1/41</a>.</p> <p>NSE00984 3WL9 111-0BA71-0AA0</p>		<b>3WL9 111-0BA71-0AA0</b>		1	1 unit	103	0.080
 <p><b>Locking devices to prevent movement of the withdrawable circuit breakers</b> • Safety lock for mounting on the circuit breaker • Spare part for option <b>S71, S75, S76</b>, see "-Z" + order code, <a href="#">page 1/41</a>.</p> <p>NSE0_00986 3WL9 111-0BA76-0AA0</p>							
<p><b>Locking devices to prevent movement of the withdrawable circuit breakers</b></p> <p>• Made by CES • Made by IKON • Made by Profalux • Made by Ronis • Made by KIRK-Key<sup>2)</sup></p>		<p><b>3WL9 111-0BA73-0AA0</b> <b>3WL9 111-0BA75-0AA0</b> <b>3WL9 111-0BA76-0AA0</b> <b>3WL9 111-0BA77-0AA0</b> <b>3WL9 111-0BA80-0AA0</b></p>		1	1 unit	103	0.300
<p><b>Interlocking systems</b></p> <p>• 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>		<b>3WL9 111-0BA43-0AA0</b>		1	1 unit	103	0.360
<b>Locking mechanisms</b>							
 <p><b>Locking devices to prevent movement of the withdrawable circuit breakers in disconnected position</b> • Consisting of Bowden wire and lock in the cabinet door on the circuit breaker • Spare part for option <b>R81, R85, R86</b>, see "-Z" + order code, <a href="#">page 1/41</a>. Order code, <a href="#">page 1/41</a>.</p> <p>NSE0_00987 3WL9 111-0BA83-0AA0</p>							
<p><b>Locking devices to prevent movement of the withdrawable circuit breakers in disconnected position</b></p> <p>• Made by CES • Made by IKON • Made by Profalux • Made by Ronis</p>		<p><b>3WL9 111-0BA81-0AA0</b> <b>3WL9 111-0BA83-0AA0</b> <b>3WL9 111-0BA85-0AA0</b> <b>3WL9 111-0BA86-0AA0</b></p>		1	1 unit	103	0.800
<p><b>Note</b></p> <p>Not possible in combination with "Locking device to prevent opening of the cabinet door" (order code "R30") or "Locking device to prevent movement with the cabinet door open" (order code "R50").</p>							
 <p><b>Locking devices to prevent opening of the cabinet door in ON position</b> • Fixed-mounted • Can be defeated • Spare part for option <b>S30</b>, see "-Z" + order code, <a href="#">page 1/41</a>.</p> <p>NSE0_00988 3WL9 111-0BB12-0AA0</p>		<b>3WL9 111-0BB12-0AA0</b>		1	1 unit	103	0.600
<p><b>Locking devices to prevent opening of the cabinet door</b></p> <p>• Guide frames • Can be defeated • Spare part for option <b>R30</b>, see "-Z" + order code, <a href="#">page 1/41</a>.</p>		<b>3WL9 111-0BB13-0AA0</b>		1	1 unit	103	0.150
<p><b>Note</b></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>							
<p><b>Locking devices to prevent movement with the cabinet door open</b></p> <p>• Guide frames • Spare part for option <b>R50</b>, see "-Z" + order code, <a href="#">page 1/41</a>.</p>		<b>3WL9 111-0BB15-0AA0</b>		1	1 unit	103	0.150
<p><b>Note</b></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>							

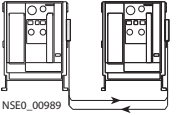
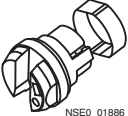
<sup>1)</sup> Padlock not included in the scope of supply.

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

# Air Circuit Breakers

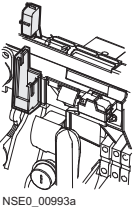
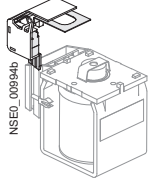
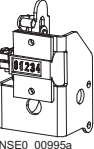
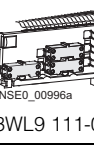
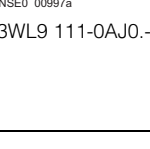

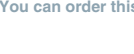
## 3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

### Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
 <p><b>Mutual mechanical interlocking</b> with 2000 mm Bowden wire (one required for each circuit breaker)</p>							
Type	When ordered separately	Spare part for					
3WL9 111-0BB21-0AA0	Fixed-mounted circuit breakers	--	Option <b>S55</b> , see "-Z" + order code, <a href="#">page 1/40</a> .	<b>3WL9 111-0BB21-0AA0</b>	1	1 unit	103 2.700
	Module for withdrawable circuit breakers with guide frame	--	Option <b>R55</b> , see "-Z" + order code, <a href="#">page 1/40</a> .	<b>3WL9 111-0BB24-0AA0</b>	1	1 unit	103 1.130
	Module for guide frame	✓	Option <b>R56</b> , see "-Z" + order code, <a href="#">page 1/40</a> .	<b>3WL9 111-0BB22-0AA0</b>	1	1 unit	103 1.100
	Module for withdrawable circuit breaker	✓	Option <b>R57</b> , see "-Z" + order code, <a href="#">page 1/40</a> .	<b>3WL9 111-0BB23-0AA0</b>	1	1 unit	103 0.150
	Adapter for size III Withdrawable circuit breaker	✓	--	<b>3WL9 111-0BB30-0AA0</b>	1	1 unit	103 0.100
 <p><b>Couplings on the circuit breaker (with ring) for mutual interlocking</b> Can be used in all circuit breakers</p>							
3WL9 112-8HA47-0AA0				<b>3WL9 112-8HA47-0AA0</b>	1	1 unit	103 0.160
<b>Bowden wires</b>							
Versions							
	2000 mm			<b>3WL9 111-0BB45-0AA0</b>	1	1 unit	103 0.150
	3000 mm			<b>3WL9 111-0BB46-0AA0</b>	1	1 unit	103 0.220
	4500 mm			<b>3WL9 111-0BB47-0AA0</b>	1	1 unit	103 0.360
<b>Test devices</b>							
<b>Manual tester Release 2 for Electronic Trip Units ETU15B to ETU76B</b>							
For testing the Electronic Trip Unit functions of all 3WL ETUs (release 1 and release 2)							
				<b>3WL9 111-0AT32-0AA0</b>	1	1 unit	103 1.100
<b>Function testers</b>							
For testing the tripping characteristics for Electronic Trip Units ETU15B to ETU76B							
				<b>3WL9 111-0AT44-0AA0</b>	1	1 unit	103 8.210
<b>Capacitor storage devices</b>							
<b>Capacitor storage devices</b>							
<ul style="list-style-type: none"> <li>• For shunt releases</li> <li>• Storage time 5 min</li> </ul>							
Rated control supply voltage/rated operational voltage							
50/60 Hz V AC		V DC					
220 ... 240		220 ... 250					
Note							
<ul style="list-style-type: none"> <li>• Rated control supply voltage must match the rated control supply voltage of the shunt release</li> <li>• Suitable also for 3VL and 3WN circuit breakers</li> </ul>							

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

## Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Indicators, control elements</b>							
 <p>NSE0_00993a</p> <p><b>Ready-to-close signaling switches</b></p> <ul style="list-style-type: none"> <li>• 1 NO contact</li> <li>• Spare part for option <b>C22</b>, see "-Z" + order code, <a href="#">page 1/39</a>.</li> </ul>		<b>3WL9 111-0AH01-0AA0</b>		1	1 unit	103	0.020
 <p>NSE0_00994b</p> <p><b>Signaling switches<sup>1)2)</sup></b></p> <ul style="list-style-type: none"> <li>• 1st or 2nd auxiliary release</li> <li>• Spare part for option <b>C26</b> and <b>C27</b>, see "-Z" + order code, <a href="#">page 1/39</a>.</li> </ul>		<b>3WL9 111-0AH02-0AA0</b>		1	1 unit	103	0.020
 <p>NSE0_00995a</p> <p><b>Tripped signaling switches<sup>1)2)</sup></b></p> <ul style="list-style-type: none"> <li>• 1 CO contact</li> <li>• Spare part for option <b>K07</b>, see "-Z" + order code, <a href="#">page 1/39</a>.</li> </ul>		<b>3WL9 111-0AH14-0AA0</b>		1	1 unit	103	0.080
 <p>NSE0_00996a</p> <p><b>Operating cycles counters</b></p> <ul style="list-style-type: none"> <li>• Mechanical<sup>3)</sup></li> <li>• Spare part for option <b>C01</b>, see "-Z" + order code, <a href="#">page 1/39</a>.</li> </ul>		<b>3WL9 111-0AH07-0AA0</b>		1	1 unit	103	0.100
 <p>NSE0_00997a</p> <p><b>Stored energy status signaling switches<sup>1)2)</sup></b></p> <ul style="list-style-type: none"> <li>• 1 NO contact</li> <li>• Spare part for option <b>C20</b>, see "-Z" + order code, <a href="#">page 1/39</a>.</li> </ul>		<b>3WL9 111-0AH08-0AA0</b>		1	1 unit	103	0.030
 <p>NSE0_00996a</p> <p><b>Position signaling switches for guide frames</b></p> <p>Spare part for option <b>R15</b> and <b>R16</b>, see "-Z" + order code, <a href="#">page 1/40</a>.</p> <p>Versions</p> <ul style="list-style-type: none"> <li>• 1st block (3 CO contacts)</li> <li>• 2nd block (6 CO contacts)</li> </ul>		<b>3WL9 111-0AH11-0AA0</b> <b>3WL9 111-0AH12-0AA0</b>		1 1	1 unit 1 unit	103 103	0.200 0.400
 <p>NSE0_00997a</p> <p><b>Electrical ON buttons<sup>1)4)</sup></b></p> <ul style="list-style-type: none"> <li>• Button + wiring<sup>2)</sup></li> <li>• For operator panel</li> <li>• Spare part for option <b>C11</b> and <b>C12</b>, see "-Z" + order code, <a href="#">page 1/39</a></li> </ul> <p>Versions</p> <ul style="list-style-type: none"> <li>• With sealing cap</li> <li>• With CES assembly kit</li> <li>• With IKON assembly kit</li> </ul> <p>Note</p> <p>Possible only for circuit breakers with closing coil.</p>		<b>3WL9 111-0AJ02-0AA0</b> <b>3WL9 111-0AJ03-0AA0</b> <b>3WL9 111-0AJ05-0AA0</b>		1 1 1	1 unit 1 unit 1 unit	103 103 103	0.150 0.140 0.140
<p>NSE00985</p> <p><b>Motor shutdown switches<sup>5)</sup></b></p> <ul style="list-style-type: none"> <li>• Mounting on operator panel</li> <li>• Spare part for option <b>S25</b>, see "-Z" + order code, <a href="#">page 1/39</a>.</li> </ul>		<b>3WL9 111-0AJ06-0AA0</b>		1	1 unit	103	0.100
<p>NSE00985</p> <p><b>EMERGENCY-STOP pushbuttons</b></p> <ul style="list-style-type: none"> <li>• Mushroom pushbutton instead of the mechanical OFF pushbutton</li> <li>• Spare part for option <b>S24</b>, see "-Z" + order code, <a href="#">page 1/39</a>.</li> </ul>		<b>3WL9 111-0BA72-0AA0</b>		1	1 unit	103	0.080

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

<sup>2)</sup> X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see [pages 1/44](#) and [1/56](#)).

<sup>3)</sup> Only in conjunction with motorized operating mechanism.

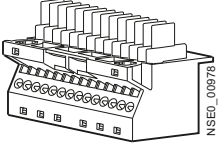
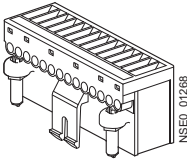
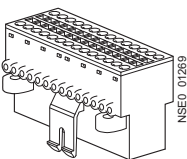

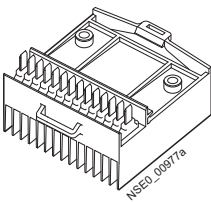
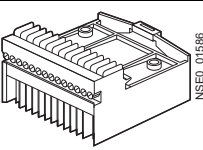
<sup>4)</sup> Not possible with motor shutdown switch.

<sup>5)</sup> Not possible with electrical ON button.

# Air Circuit Breakers

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

### Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Auxiliary conductor connections</b>							
 <p><b>Male connectors for circuit breakers</b> ①</p> <p>3WL9 111-0AB01-0AA0</p>		<b>3WL9 111-0AB01-0AA0</b>		1	1 unit	103	0.100
<p><b>Extension for the 1000 V male connector versions</b></p> <p>Male connector must be ordered separately.</p>		<b>3WL9 111-0AB02-0AA0</b>		1	1 unit	103	0.150
<p><b>Male connectors and extension for 1000 V</b></p>		<b>3WL9 111-0AB10-0AA0</b>		1	1 unit	103	1.000
<b>Auxiliary supply connectors for circuit breakers or guide frames</b> ②							
 <p>3WL9 111-0AB03-0AA0</p>	<p>Versions</p> <ul style="list-style-type: none"> <li>• Screw connection (SIGUT)</li> <li>• Screwless connection method (tension spring)</li> </ul>	<b>3WL9 111-0AB03-0AA0</b>		1	1 unit	103	0.070
 <p>3WL9 111-0AB04-0AA0</p>		<b>3WL9 111-0AB04-0AA0</b>		1	1 unit	103	0.070
<b>Coding kits</b> ③							
 <p>3WL9 111-0AB07-0AA0</p>	For fixed-mounted versions (X5 to X8)	<b>3WL9 111-0AB07-0AA0</b>		1	1 unit	103	0.020
<b>Sliding contact modules for guide frames</b> ④							
 <p>3WL9 111-0AB08-0AA0</p>		<b>3WL9 111-0AB08-0AA0</b>		1	1 unit	103	0.100
<b>One-part sliding contact modules for guide frames</b> ⑤							
 <p>3WL9 111-0AB18-0AA0</p>	Screw connection (SIGUT)	<b>3WL9 111-0AB18-0AA0</b>		1	1 unit	103	0.120
<b>Blanking blocks for circuit breakers</b>							
		<b>3WL9 111-0AB12-0AA0</b>		1	1 unit	103	0.030

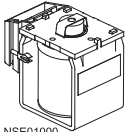
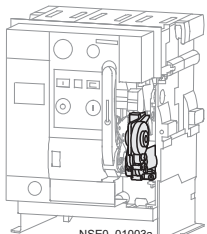
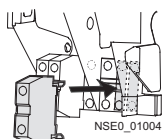
For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

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

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

## Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		
<b>Auxiliary releases</b>									
 NSE01000 3WL9 111-0AD06-0AA0	<b>Closing coils/shunt releases</b>								
	Versions	Voltage							
	100 % duty ratio	24 V DC	<b>3WL9 111-0AD01-0AA0</b>		1	1 unit	103	0.700	
		30 V DC	<b>3WL9 111-0AD02-0AA0</b>		1	1 unit	103	0.700	
		48 V DC	<b>3WL9 111-0AD03-0AA0</b>		1	1 unit	103	0.700	
		60 V DC	<b>3WL9 111-0AD04-0AA0</b>		1	1 unit	103	0.700	
		110 ... 125 V DC/110 ... 127 V AC	<b>3WL9 111-0AD05-0AA0</b>		1	1 unit	103	0.700	
		220 ... 250 V DC/208 ... 240 V AC	<b>3WL9 111-0AD06-0AA0</b>		1	1 unit	103	0.700	
	5 % duty ratio <sup>1)</sup>	24 V DC	<b>3WL9 111-0AD11-0AA0</b>		1	1 unit	103	0.700	
		48 V DC	<b>3WL9 111-0AD12-0AA0</b>		1	1 unit	103	0.700	
		110 ... 125 V DC/110 ... 127 V AC	<b>3WL9 111-0AD13-0AA0</b>		1	1 unit	103	0.700	
		220 ... 250 V DC/208 ... 240 V AC	<b>3WL9 111-0AD14-0AA0</b>		1	1 unit	103	1.800	
		<b>Undervoltage releases</b>							
		Versions	Voltage						
Instantaneous	24 V DC	<b>3WL9 111-0AE01-0AA0</b>		1	1 unit	103	0.730		
	30 V DC	<b>3WL9 111-0AE02-0AA0</b>		1	1 unit	103	0.730		
	48 V DC	<b>3WL9 111-0AE03-0AA0</b>		1	1 unit	103	0.730		
	60 V DC	<b>3WL9 111-0AE07-0AA0</b>		1	1 unit	103	0.730		
	110 ... 125 V DC/110 ... 127 V AC	<b>3WL9 111-0AE04-0AA0</b>		1	1 unit	103	0.730		
	220 ... 250 V DC/208 ... 240 V AC	<b>3WL9 111-0AE05-0AA0</b>		1	1 unit	103	0.730		
Delayed	380 ... 415 V AC	<b>3WL9 111-0AE06-0AA0</b>		1	1 unit	103	0.730		
	48 V DC	<b>3WL9 111-0AE11-0AA0</b>		1	1 unit	103	0.740		
	110 ... 125 V DC/110 ... 127 V AC	<b>3WL9 111-0AE12-0AA0</b>		1	1 unit	103	0.740		
	220 ... 250 V DC/208 ... 240 V AC	<b>3WL9 111-0AE13-0AA0</b>		1	1 unit	103	0.740		
	380 ... 415 V AC	<b>3WL9 111-0AE14-0AA0</b>		1	1 unit	103	0.740		
	<b>Operating mechanisms</b>								
 NSE0_01003a 3WL9 111-0AF0-0AA0	<b>Motorized operating mechanisms<sup>2)</sup></b>								
	Versions								
	• 24 ... 30 V DC	<b>3WL9 111-0AF01-0AA0</b>		1	1 unit	103	1.510		
	• 48 ... 60 V DC	<b>3WL9 111-0AF02-0AA0</b>		1	1 unit	103	1.510		
	• 110 ... 125 V DC/110 ... 127 V AC	<b>3WL9 111-0AF03-0AA0</b>		1	1 unit	103	1.510		
• 220 ... 250 V DC/208 ... 240 V AC	<b>3WL9 111-0AF04-0AA0</b>		1	1 unit	103	1.510			
<b>Auxiliary contacts</b>									
 NSE0_01004 3WL9 111-0AG03-0AA0	<b>Auxiliary switch blocks</b>								
	Versions								
	• 2 NO contacts + 2 NC contacts	<b>3WL9 111-0AG01-0AA0</b>		1	1 unit	103	0.180		
	• 2 NO contacts	<b>3WL9 111-0AG02-0AA0</b>		1	1 unit	103	0.080		
• 1 NO contact + 1 NC contact	<b>3WL9 111-0AG03-0AA0</b>		1	1 unit	103	0.070			

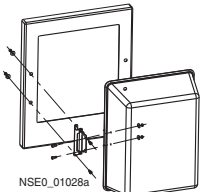
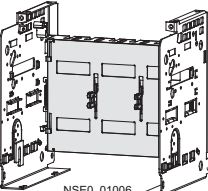
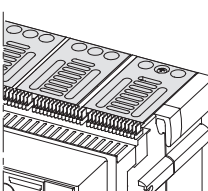
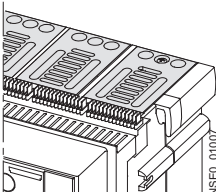
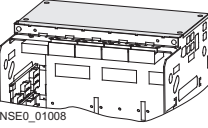
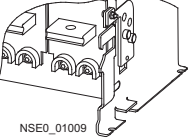
<sup>1)</sup> Overexcited, i.e. operating time 50 ms (standard >80 ms).

<sup>2)</sup> X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see pages 1/44 and 1/47).

# Air Circuit Breakers

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


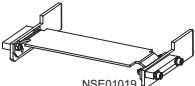

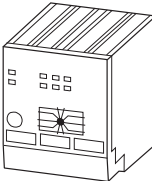
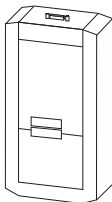
### Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Door sealing frames, hoods, shutters</b>							
<b>Door sealing frames</b> Spare part for option <b>T40</b> , see "-Z" + order code, <a href="#">page 1/39</a> .		<b>3WL9 111-0AP01-0AA0</b>		1	1 unit	103	0.360
 <b>Protective covers</b> IP55 Notes • Cannot be used in conjunction with door sealing frames • Hood removable and can be opened on both sides		<b>3WL9 111-0AP02-0AA0</b>		1	1 unit	103	1.600
 NSE0_01028a 3WL9 111-0AP02-0AA0							
 NSE0_01006 3WL9 111-0AP0.-0AA0							
<b>Shutters</b> Spare part for option <b>R21</b> , see "-Z" + order code, <a href="#">page 1/40</a> .							
Number of poles	Size						
3-pole	I	<b>3WL9 111-0AP04-0AA0</b>		1	1 unit	103	0.500
	II	<b>3WL9 111-0AP06-0AA0</b>		1	1 unit	103	0.630
	III	<b>3WL9 111-0AP07-0AA0</b>		1	1 unit	103	0.860
4-pole	I	<b>3WL9 111-0AP08-0AA0</b>		1	1 unit	103	0.600
	II	<b>3WL9 111-0AP11-0AA0</b>		1	1 unit	103	0.770
	III	<b>3WL9 111-0AP12-0AA0</b>		1	1 unit	103	1.070
<b>Arc chutes</b>							
 NSE0_01000 3WL9 111-0AS0.-0AA0							
<b>Arc chutes</b>	Versions	Size					
690 V		I	<b>3WL9 111-0AS01-0AA0</b>	1	1 unit	103	1.110
		II	<b>3WL9 111-0AS02-0AA0</b>	1	1 unit	103	1.680
		III	<b>3WL9 111-0AS03-0AA0</b>	1	1 unit	103	2.980
1000 V / 1150 V		II	<b>3WL9 111-0AS05-0AA0</b>	1	1 unit	103	3.140
		III	<b>3WL9 111-0AS06-0AA0</b>	1	1 unit	103	5.620
<b>Arc chute covers<sup>1)</sup></b>							
 NSE0_01008 3WL9 111-0AS3.-0AA0							
<b>Arc chute covers<sup>1)</sup></b> • Parts kit for guide frame • Spare part for option <b>R10</b> , see "-Z" + order code, <a href="#">page 1/40</a> .							
Number of poles	Size						
3-pole	I	<b>3WL9 111-0AS32-0AA0</b>		1	1 unit	103	1.850
	II	<b>3WL9 111-0AS36-0AA0</b>		1	1 unit	103	2.600
	III	<b>3WL9 111-0AS38-0AA0</b>		1	1 unit	103	4.050
4-pole	I	<b>3WL9 111-0AS42-0AA0</b>		1	1 unit	103	2.340
	II	<b>3WL9 111-0AS44-0AA0</b>		1	1 unit	103	3.300
	III	<b>3WL9 111-0AS46-0AA0</b>		1	1 unit	103	5.210
<b>Coding for withdrawable version</b>							
 NSE0_01009 3WL9 111-0AR12-0AA0 3WL9 111-0AR13-0AA0							
<b>Coding for withdrawable version</b> By customer, for 36 coding variants							
Versions							
• Sizes I and II		<b>3WL9 111-0AR12-0AA0</b>		1	1 unit	103	0.400
• Size III		<b>3WL9 111-0AR13-0AA0</b>		1	1 unit	103	0.310

<sup>1)</sup> Not available for  
 - 1000 V version (order code "A05"),  
 - 1150 V version (order code "A15"),  
 - DC version,  
 - 4000 A size II,  
 - circuit breaker with very high breaking capacity C.

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

## Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Grounding connection</b>							
 NSE0_01018a 3WL9 111-0BA02-0AA0		<b>Grounding connection between the guide frame and the withdrawable circuit breaker</b> • For 30 kA ground short-circuit current <sup>1)</sup> • Contacting modules for guide frame					
Versions							
	• Size I and II <sup>2)</sup> • Size III	<b>3WL9 111-0BA01-0AA0</b> <b>3WL9 111-0BA02-0AA0</b>		1 1	1 unit 1 unit	103 103	0.330 0.350
<b>Contacting modules for withdrawable circuit breakers</b>							
 NSE01019 3WL9 111-0BA07-0AA0	Number of poles	Size					
	3-pole	I II <sup>2)</sup> III	<b>3WL9 111-0BA05-0AA0</b> <b>3WL9 111-0BA06-0AA0</b> <b>3WL9 111-0BA07-0AA0</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	1.250 1.530 2.270
	4-pole	I II <sup>2)</sup> III	<b>3WL9 111-0BA08-0AA0</b> <b>3WL9 111-0BA04-0AA0</b> <b>3WL9 111-0BA10-0AA0</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	1.500 1.850 2.950
<b>Support brackets</b>							
 NSE-01022 3WL9 111-0BB50-0AA0		<b>Support brackets</b> • For mounting fixed-mounted circuit breakers on vertical plane • Only for sizes I and II (1 set = 2 units)	<b>3WL9 111-0BB50-0AA0</b>	1	1 unit	103	7.000
<b>CubicleBUS modules<sup>3)6)</sup></b>							
 NSE0_01023a 3WL9 111-0AT23-0AA0		<b>Digital output modules with rotary coding switch, relay outputs</b>	<b>3WL9 111-0AT26-0AA0</b>	1	1 unit	103	0.240
		<b>Digital output modules, configurable, relay outputs</b>	<b>3WL9 111-0AT20-0AA0</b>	1	1 unit	103	0.310
		<b>Digital input modules</b>	<b>3WL9 111-0AT27-0AA0</b>	1	1 unit	103	0.240
		<b>Analog output modules</b>	<b>3WL9 111-0AT23-0AA0</b>	1	1 unit	103	0.240
		<b>Zone Selective Interlocking modules</b>	<b>3WL9 111-0AT21-0AA0</b>	1	1 unit	103	0.240
<b>Parameterization systems<sup>6)</sup></b>							
 NSE0_01024a 3WL9 111-0AT28-0AA0		<b>BDA Plus<sup>4)5)</sup></b> • 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	<b>3WL9 111-0AT33-0AA0</b>	1	1 unit	103	1.200
		<b>Connection cables for BDA Plus</b> • 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 <b>CubicleBUS</b> modules are available • Length 2 m	<b>3WL9 111-0BC21-0AA0</b>	1	1 unit	103	0.350
		<b>powerconfig parameterization software</b> • Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using powerconfig software <a href="#">see chapter 13 Software, "Configuring, Visualizing and Controlling with SENTRON"</a> . • powerconfig is available free of charge at <a href="http://support.automation.siemens.com/WWW/view/en/63452759">http://support.automation.siemens.com/WWW/view/en/63452759</a>					

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

<sup>2)</sup> Can also be used for size II, 4000 A.

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

<sup>4)</sup> A 24 V DC power supply unit is required.

<sup>5)</sup> Operation under Windows Vista and Windows 7 possible with restrictions.

<sup>6)</sup> All communication components, **CubicleBUS** modules and measurement functions are available for the ETU45B and ETU76B.

# Air Circuit Breakers

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

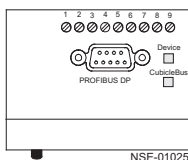
### Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Accessories for communications<sup>3)</sup></b>							
<b>Preassembled cables for CubicleBUS modules</b>							
Versions							
• 0.2 m long, for connection to 3WL with COM15/COM16		<b>3WL9 111-0BC04-0AA0</b>		1	1 unit	103	0.020
• 1 m long, for connection to 3WL with COM15/COM16		<b>3WL9 111-0BC02-0AA0</b>		1	1 unit	103	0.050
• 2 m long, for connection to 3WL with COM15/COM16		<b>3WL9 111-0BC03-0AA0</b>		1	1 unit	103	0.060
• 2 m long, for connection to 3WL without COM15/COM16		<b>3WL9 111-0BC05-0AA0</b>		1	1 unit	103	0.070
<b>SENTRON manual for communication solutions</b>							
<ul style="list-style-type: none"> <li>Detailed description of the communication functions for circuit breakers. Installation, connection, commissioning, data transmission to the PLC.</li> <li>Free download from: <a href="http://www.siemens.com/lowvoltage/manuals">www.siemens.com/lowvoltage/manuals</a></li> </ul>							
Manuals							
• PROFIBUS, German, token fee		<b>A5E0151347</b>					
• PROFIBUS, English, token fee		<b>A5E0151353</b>					
• MODBUS, German, token fee		<b>3ZX10 12-0WL10-1AB1</b>					
• MODBUS, English, token fee		<b>3ZX10 12-0WL10-1AC1</b>					
<b>Voltage transformers</b>							
• 3-pole, for 3WL air circuit breakers with measurement function <i>Plus</i> <sup>1)</sup>		<b>3WL9 111-0BB68-0AA0</b>		1	1 unit	103	2.600
• 380 ... 690 V/100 V, class 0.5							
<b>Retrofitting and spare parts<sup>3)</sup></b>							
<b>PROFIBUS retrofit kits</b>							
Retrofit kit for PROFIBUS communications including COM15, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B							
		<b>3WL9 111-0AT12-0AA0</b>		1	1 unit	103	0.260
<b>COM15 PROFIBUS module</b>							
For ETU45B and ETU76B							
		<b>3WL9 111-0AT15-0AA0</b>		1	1 unit	103	0.140
<b>COM16 MODBUS modules</b>							
For ETU45B and ETU76B							
		<b>3WL9 111-0AT17-0AA0</b>		1	1 unit	103	0.140
<b>MODBUS IEC retrofit kits</b>							
Retrofit kit for MODBUS communications including COM16, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B							
		<b>3WL9 111-0AT18-0AA0</b>		1	1 unit	103	0.260
<b>Breaker status sensor (BSS)</b>							
For ETU45B and ETU76B							
		<b>3WL9 111-0AT16-0AA0</b>		1	1 unit	103	0.120
<b>Measurement function <i>Plus</i><sup>2)</sup></b>							
<ul style="list-style-type: none"> <li>For ETUs Release 2</li> <li>Voltage transformer required</li> </ul>							
		<b>3WL9 111-0AT04-0AA0</b>		1	1 unit	103	0.250

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

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

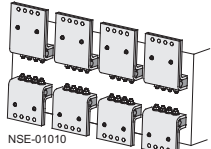
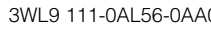
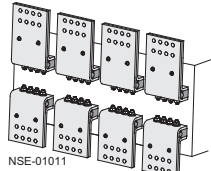
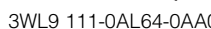
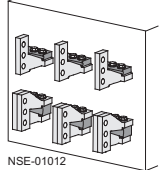
<sup>3)</sup> All communication components, **CubicleBUS** modules and measurement functions are available for the ETU45B and ETU76B.



3WL9 111-0AT15-0AA0

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

## Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Main conductor connections, fixed-mounted versions (essential accessory)</b>							
Specified for each connection							
<b>3WL9 111-0AL06-0AA0 Front-accessible main connections, single hole at top<sup>1)</sup></b>							
							
Size	Rated current $I_n$						
I	Up to 1000 A 1250 A to 1600 A	<b>3WL9 111-0AL01-0AA0</b> <b>3WL9 111-0AL02-0AA0</b>	1	1 unit	103	1.100	1.600
II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AL03-0AA0</b> <b>3WL9 111-0AL04-0AA0</b> <b>3WL9 111-0AL05-0AA0</b>	1	1 unit	103	2.000	3.600
III	Up to 4000 A	<b>3WL9 111-0AL06-0AA0</b>	1	1 unit	103	3.500	6.100
<b>3WL9 111-0AL56-0AA0 Front-accessible main connections, single hole at bottom<sup>1)</sup></b>							
							
Size	Rated current $I_n$						
I	Up to 1000 A 1250 A to 1600 A	<b>3WL9 111-0AL51-0AA0</b> <b>3WL9 111-0AL52-0AA0</b>	1	1 unit	103	1.000	1.300
II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AL53-0AA0</b> <b>3WL9 111-0AL54-0AA0</b> <b>3WL9 111-0AL55-0AA0</b>	1	1 unit	103	1.800	3.100
III	Up to 4000 A	<b>3WL9 111-0AL56-0AA0</b>	1	1 unit	103	3.000	5.200
<b>3WL9 111-0AL14-0AA0 Front-accessible main connections according to DIN 43673, double hole at top</b>							
							
Size	Rated current $I_n$						
I	Up to 1000 A <sup>1)</sup> 1250 A to 2000 A	<b>3WL9 111-0AL07-0AA0</b> <b>3WL9 111-0AL08-0AA0</b>	1	1 unit	103	1.400	2.000
II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AL11-0AA0</b> <b>3WL9 111-0AL12-0AA0</b> <b>3WL9 111-0AL13-0AA0</b>	1	1 unit	103	2.400	4.500
III	Up to 4000 A	<b>3WL9 111-0AL14-0AA0</b>	1	1 unit	103	4.400	7.800
<b>3WL9 111-0AL64-0AA0 Front-accessible main connections according to DIN 43673, double hole at bottom</b>							
							
Size	Rated current $I_n$						
I	Up to 1000 A <sup>1)</sup> 1250 A to 2000 A	<b>3WL9 111-0AL57-0AA0</b> <b>3WL9 111-0AL58-0AA0</b>	1	1 unit	103	1.300	1.700
II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AL61-0AA0</b> <b>3WL9 111-0AL62-0AA0</b> <b>3WL9 111-0AL63-0AA0</b>	1	1 unit	103	2.000	3.700
III	Up to 4000 A	<b>3WL9 111-0AL64-0AA0</b>	1	1 unit	103	3.600	6.400
<b>3WL9 111-0AM03-0AA0 Rear vertical main connections</b>							
							
Size	Rated current $I_n$						
I <sup>2)</sup>	Up to 2000 A	<b>3WL9 111-0AM01-0AA0</b>	1	1 unit	103	0.500	
II <sup>3)</sup>	Up to 3200 A	<b>3WL9 111-0AM02-0AA0</b>	1	1 unit	103	2.200	
III	Up to 6300 A	<b>3WL9 111-0AM03-0AA0</b>	1	1 unit	103	5.000	

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

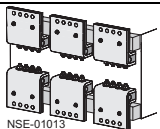
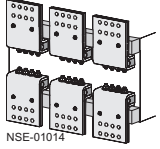
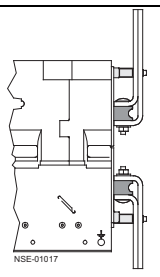

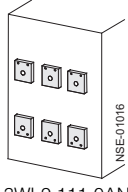
<sup>2)</sup> In the case of vertical connection size I with breaking capacity N and S, up to 1000 A one 3WL9 111-0AM01-0AA0 vertical connection is required, up to 2000 A or with breaking capacity H two 3WL9 111-0AM01-0AA0 vertical connections are required.

<sup>3)</sup> In the case of vertical connection size II, up to 2500 A one 3WL9 111-0AM02-0AA0 vertical connection is required, up to 3200 A two 3WL9 111-0AM02-0AA0 vertical connections are required.

# Air Circuit Breakers

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

### Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
<b>Main conductor connections, withdrawable versions (essential accessory)</b>								
Specified for each connection								
<b>Front-accessible main connections, single hole at top or at bottom<sup>1) 2)</sup></b>								
 NSE-01013 3WL9 111-0AN06-0AA0	Size	Rated current $I_n$						
	I	Up to 1000 A 1250 A to 1600 A	<b>3WL9 111-0AN01-0AA0</b> <b>3WL9 111-0AN02-0AA0</b>	1	1 unit	103	1.000 1.300	
	II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AN03-0AA0</b> <b>3WL9 111-0AN04-0AA0</b> <b>3WL9 111-0AN05-0AA0</b>	1	1 unit	103	1.800 3.100 3.000	
	III	Up to 4000 A	<b>3WL9 111-0AN06-0AA0</b>	1	1 unit	103	5.200	
<b>Front-accessible main connections according to DIN 43673, double hole at top or at bottom<sup>1)</sup></b>								
 NSE-01014 3WL9 111-0AN14-0AA0	Size	Rated current $I_n$						
	I	Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9 111-0AN07-0AA0</b> <b>3WL9 111-0AN08-0AA0</b>	1	1 unit	103	1.300 1.700	
	II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AN11-0AA0</b> <b>3WL9 111-0AN12-0AA0</b> <b>3WL9 111-0AN13-0AA0</b>	1	1 unit	103	2.000 3.700 3.600	
	III	Up to 4000 A	<b>3WL9 111-0AN14-0AA0</b>	1	1 unit	103	6.400	
<b>Supports for front and DIN connecting bars</b>								
 NSE-01017 3WL9 111-0AN41-0AA0	Number of poles	Size						
	3-pole for 3 bars	I	<b>3WL9 111-0AN41-0AA0</b>	1	1 unit	103	0.700	
		II	<b>3WL9 111-0AN42-0AA0</b>	1	1 unit	103	1.350	
		III	<b>3WL9 111-0AN43-0AA0</b>	1	1 unit	103	2.420	
	4-pole for 4 bars	I	<b>3WL9 111-0AN44-0AA0</b>	1	1 unit	103	1.200	
		II	<b>3WL9 111-0AN45-0AA0</b>	1	1 unit	103	2.200	
III		<b>3WL9 111-0AN46-0AA0</b>	1	1 unit	103	3.200		
<b>Rear vertical main connections</b>								
 NSE-01015 3WL9 111-0AN23-0AA0	Size	Rated current $I_n$						
	I	Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9 111-0AN15-0AA0</b> <b>3WL9 111-0AN16-0AA0</b>	1	1 unit	103	0.660 0.870	
		II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AN17-0AA0</b> <b>3WL9 111-0AN18-0AA0</b> <b>3WL9 111-0AN21-0AA0</b>	1	1 unit	103	1.150 1.490 2.580
	III	Up to 5000 A	<b>3WL9 111-0AN22-0AA0</b>	1	1 unit	103	6.380	
		Up to 6300 A, 3 busbar connection pieces for 3-pole circuit breakers	<b>3WL9 111-0AN23-0AA0</b>	1	1 unit	103	19.170	
		Up to 6300 A, at top, 4 busbar connection pieces for 4-pole circuit breakers	<b>3WL9 111-0AN20-0AA0</b>	1	1 unit	103	18.410	
Up to 6300 A, at bottom, 4 busbar connection pieces for 4-pole circuit breakers	<b>3WL9 111-0AN10-0AA0</b>	1	1 unit	103	18.300			
<b>Rear horizontal main connections</b>								
	Size	Rated current $I_n$						
	I	Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9 111-0AN32-0AA0</b> <b>3WL9 111-0AN33-0AA0</b>	1	1 unit	103	0.630 0.770	
		II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AN34-0AA0</b> <b>3WL9 111-0AN35-0AA0</b> <b>3WL9 111-0AN36-0AA0</b>	1	1 unit	103	1.020 1.240 2.170
	III	Up to 5000 A	<b>3WL9 111-0AN37-0AA0</b>	1	1 unit	103	3.860	
	<b>Connecting flanges</b>							
	 NSE-01016 3WL9 111-0AN24-0AA0	Size	Rated current $I_n$					
I		Up to 1000 A <sup>2)</sup> 1250 A to 2000 A	<b>3WL9 111-0AN24-0AA0</b> <b>3WL9 111-0AN25-0AA0</b>	1	1 unit	103	0.610 0.640	
		II	Up to 2000 A Up to 2500 A Up to 3200 A	<b>3WL9 111-0AN26-0AA0</b> <b>3WL9 111-0AN27-0AA0</b> <b>3WL9 111-0AN28-0AA0</b>	1	1 unit	103	0.980 1.020 1.310
III		Up to 4000 A	<b>3WL9 111-0AN31-0AA0</b>	1	1 unit	103	2.370	

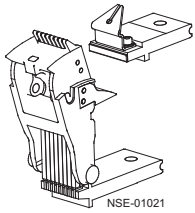
<sup>1)</sup> When using front-accessible mains connections (withdrawable circuit breakers) supports are required.

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

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

## Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							kg
<b>Conversion sets</b>							
<b>Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers</b>							
Guide frames and sliding contact modules must be ordered separately.							
Number of poles	Size						
3-pole	I	<b>3WL9 111-0BC11-0AA0</b>		1	1 unit	103	5.100
	II	<b>3WL9 111-0BC12-0AA0</b>		1	1 unit	103	5.900
	III	<b>3WL9 111-0BC13-0AA0</b>		1	1 unit	103	8.100
4-pole	I	<b>3WL9 111-0BC14-0AA0</b>		1	1 unit	103	6.400
	II	<b>3WL9 111-0BC15-0AA0</b>		1	1 unit	103	6.450
	III	<b>3WL9 111-0BC16-0AA0</b>		1	1 unit	103	10.700
<b>Main contact elements</b>							
<b>Main contact elements</b>							
Size	$I_n$ max						
I	Up to 1600 A	<b>3WL9 111-0AM90 L1Y<sup>1)</sup></b>		1	1 unit	103	2.800
II	Up to 2500 A	<b>3WL9 111-0AM91 L1Y<sup>1)</sup></b>		1	1 unit	103	5.870
II	Up to 4000 A	<b>3WL9 111-0AM92 L1Y<sup>1)</sup></b>		1	1 unit	103	7.700
III	Up to 6300 A	<b>3WL9 111-0AM93 L1Y<sup>1)</sup></b>		1	1 unit	103	13.740
<b>Notes</b>							
<ul style="list-style-type: none"> <li>The circuit breaker ID No. must be specified when ordering</li> <li>Specified for each connection (depending on the number of poles on the circuit breaker, order 3 or 4 units)</li> <li>Order No. is automatically adapted to the circuit breaker ID number</li> </ul>							



<sup>1)</sup> Please specify the circuit breaker ID No. in plain text when ordering.

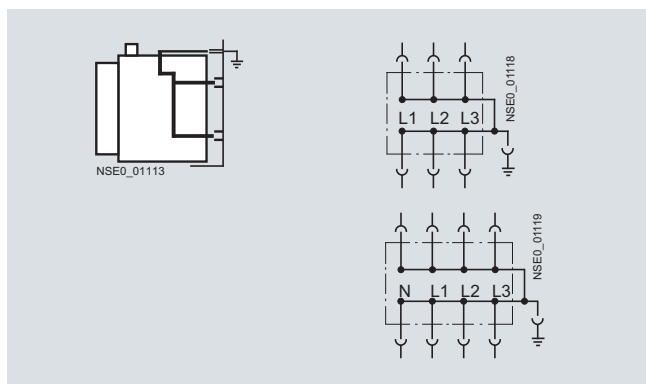
# Air Circuit Breakers

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

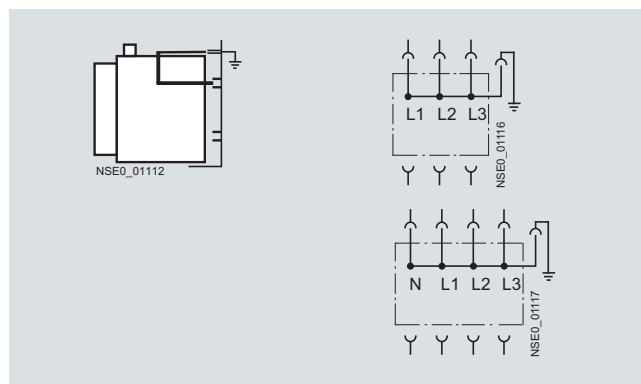
### Accessories and spare parts

Version	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Withdrawable short-circuiting, grounding and bridging units</b>								
<b>Withdrawable short-circuiting, grounding and bridging units</b>								
Top and bottom system components are short-circuited and grounded.								
Number of poles	Rated current $I_n$	Size						
3-pole	Up to 1600 A	I	<b>3WL9 111-0BD01-0AA0</b>		1	1 unit	103	30.000
	Up to 3200 A	II	<b>3WL9 111-0BD03-0AA0</b>		1	1 unit	103	40.500
	Up to 6300 A	III	<b>3WL9 111-0BD05-0AA0</b>		1	1 unit	103	65.000
4-pole	Up to 1600 A	I	<b>3WL9 111-0BD02-0AA0</b>		1	1 unit	103	35.000
	Up to 3200 A	II	<b>3WL9 111-0BD04-0AA0</b>		1	1 unit	103	46.000
	Up to 6300 A	III	<b>3WL9 111-0BD06-0AA0</b>		1	1 unit	103	70.000

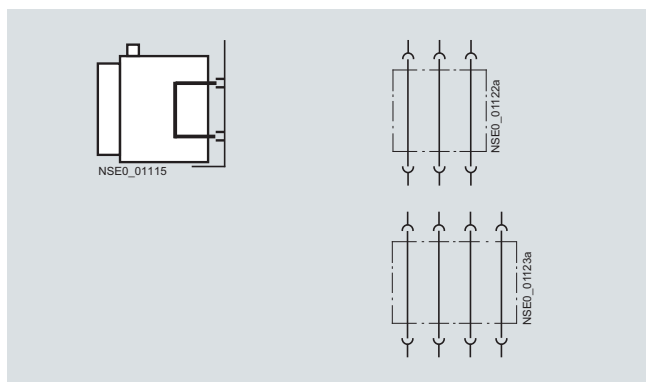
### Conversion for the following applications is possible



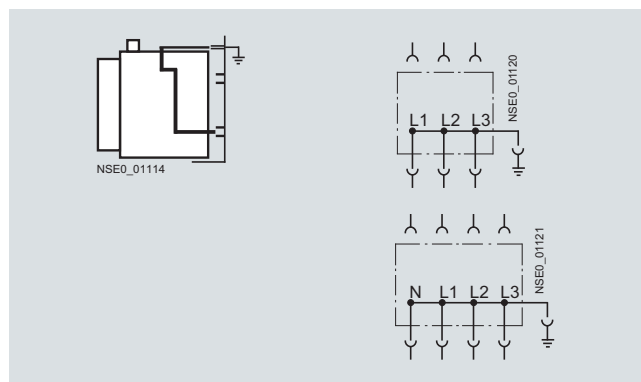
Top and bottom system components are short-circuited and grounded (as-supplied state)



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



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



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

## Options

## Structure of the Order No.

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

An important prerequisite for computer-based order processing is that order 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 Order No. has to be administered for one device.

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

The example opposite explains the various positions within an Order No.

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

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

Additional accessory components can be ordered ready-mounted.

These supplements are identified by "-Z".

Even with additional components, one Order No. is sufficient.

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

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

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

Accessories for retrofitting are identified by the Order No. stem 3WL9.

## Documentation

<b>Operating manual</b> Complete set	German/English	Order No.	<b>3ZX18 12-0WL00-0AN1</b>
	French/Italian	Order No.	<b>3ZX18 12-0WL00-0AJ1</b>
	Spanish/Portuguese	Order No.	<b>3ZX18 12-0WL00-0AL1</b>
<b>PROFIBUS manual</b> <b>Communication</b>	German	Order No.	<b>A5E0151347</b>
	English	Order No.	<b>A5E0151353</b>
<b>MODBUS manual</b> <b>Communication</b>	German	Order No.	<b>3ZX10 12-0WL10-1AB1</b>
	English	Order No.	<b>3ZX10 12-0WL10-1AC1</b>

Delivery time class C  
On request  
On request

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

## More information

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

# Air Circuit Breakers

## 3WL Non-Automatic Air Circuit Breakers up to 4000 A (DC)

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

#### Selection and ordering data

For general data see page 1/8.

Size	Max. rated circuit breaker current $I_n$ max. A	DT	3-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
			Order No.	Price per PU				
<b>Horizontal main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□32-□□□□ 3WL12 20-8□□32-□□□□ 3WL12 40-8□□32-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	56.000 56.000 64.000
<b>Vertical main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□31-□□□□ 3WL12 20-8□□31-□□□□ 3WL12 40-8□□31-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	56.000 56.000 85.000
<b>Front main circuit connection, single hole</b>								
II	1000 2000		3WL12 10-8□□33-□□□□ 3WL12 20-8□□33-□□□□		1 1	1 unit 1 unit	103 103	56.000 56.000
<b>Front main circuit connection, double hole</b>								
II	1000 2000		3WL12 10-8□□34-□□□□ 3WL12 20-8□□34-□□□□		1 1	1 unit 1 unit	103 103	56.000 56.000
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b> without Electronic Trip Units			AA					Add. price None
<b>Operating mechanisms</b> Manual operating mechanism with mechanical closing				1AA2				Add. price None
For further Order No. supplements see page 1/37								
Size	Max. rated circuit breaker current $I_n$ max. A	DT	4-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
			Order No.	Price per PU				
<b>Horizontal main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□42-□□□□ 3WL12 20-8□□42-□□□□ 3WL12 40-8□□42-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	67.000 67.000 77.000
<b>Vertical main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□41-□□□□ 3WL12 20-8□□41-□□□□ 3WL12 40-8□□41-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	75.000 75.000 103.000
<b>Front main circuit connection, single hole</b>								
II	1000 2000		3WL12 10-8□□43-□□□□ 3WL12 20-8□□43-□□□□		1 1	1 unit 1 unit	103 103	67.000 67.000
<b>Front main circuit connection, double hole</b>								
II	1000 2000		3WL12 10-8□□44-□□□□ 3WL12 20-8□□44-□□□□		1 1	1 unit 1 unit	103 103	67.000 67.000
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b> without Electronic Trip Units			AA					Add. price None
<b>Operating mechanisms</b> Manual operating mechanism with mechanical closing				1AA2				Add. price None
For further Order No. supplements see page 1/37								
Add "-Z" to the complete Order No. and indicate the appropriate order code(s).			3WL12.0-8.....-Z					Additional price 3-pole 4-pole
			□ □ □					
Condition	Size	Rated current $I_n$						
Rated voltage 1000 V DC	II	Up to 2000 A	A 0 5					✓ ✓
		Up to 4000 A	A 0 5					✓ ✓
<b>Note</b>								

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

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", page 1/38 onwards.

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

Available only directly from the company mat – Maschinen- und Anlagentechnik (for address see page 1/68).

✓ Additional price

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

<sup>2)</sup> For permissible rated short-time current  $I_{cw}$  and short-circuit breaking capacity  $I_{cc}$  for non-automatic air circuit breakers, see page 1/5.

# Air Circuit Breakers

## 3WL Non-Automatic Air Circuit Breakers up to 4000 A (DC)

**3- and 4-pole, withdrawable versions**
**Selection and ordering data**

Size	Max. rated circuit breaker current $I_n$ max.	DT	3-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
A			Order No.	Price per PU				kg
<b>Without guide frames (for guide frames, see page 1/69)</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□35-□□□□ 3WL12 20-8□□35-□□□□ 3WL12 40-8□□35-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	60.000 60.000 68.000
<b>With guide frames, horizontal main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□36-□□□□ 3WL12 20-8□□36-□□□□ 3WL12 40-8□□36-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	91.000 91.000 113.000
<b>With guide frames, vertical main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□37-□□□□ 3WL12 20-8□□37-□□□□ 3WL12 40-8□□37-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	91.000 91.000 121.000
<b>With guide frames, connecting flanges</b>								
II	1000 2000 4000 <sup>1)</sup>		3WL12 10-8□□38-□□□□ 3WL12 20-8□□38-□□□□ 3WL12 40-8□□38-□□□□		1 1 1	1 unit 1 unit 1 unit	103 103 103	91.000 91.000 113.000
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units		AA					Add. price <b>None</b>
<b>Operating mechanisms</b>	Manual operating mechanism with mechanical closing			1AA2				<b>None</b>
	For further Order No. supplements see page 1/37							

Add "-Z" to the complete Order 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 <sup>4)</sup>	Up to 2000 A	A 0 5	✓
		Up to 4000 A	A 0 5	✓
Tinned version of the customer's connections on the guide frame <sup>3)</sup> Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.	II		A 0 8	✓

**Note**

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

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", page 1/38 onwards.

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

Available only directly from the company mat – Maschinen- und Anlagentechnik (for address see page 1/68).

**✓ Additional price**

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

# Air Circuit Breakers

## 3WL Non-Automatic Air Circuit Breakers up to 4000 A (DC)

### 3- and 4-pole, withdrawable versions

#### Selection and ordering data

Size	Max. rated circuit breaker current $I_n$ max.	DT	4-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
A			Order No.	Price per PU				kg
<b>Without guide frames (for guide frames, see page 1/69)</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL12 10-8□□45-□□□□</b> <b>3WL12 20-8□□45-□□□□</b> <b>3WL12 40-8□□45-□□□□</b>		1 1 1	1 unit 1 unit 1 unit	103 103 103	75.000 75.000 82.000
<b>With guide frames, horizontal main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL12 10-8□□46-□□□□</b> <b>3WL12 20-8□□46-□□□□</b> <b>3WL12 40-8□□46-□□□□</b>		1 1 1	1 unit 1 unit 1 unit	103 103 103	109.000 109.000 136.000
<b>With guide frames, vertical main circuit connection</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL12 10-8□□47-□□□□</b> <b>3WL12 20-8□□47-□□□□</b> <b>3WL12 40-8□□47-□□□□</b>		1 1 1	1 unit 1 unit 1 unit	103 103 103	109.000 109.000 146.000
<b>With guide frames, connecting flanges</b>								
II	1000 2000 4000 <sup>1)</sup>		<b>3WL12 10-8□□48-□□□□</b> <b>3WL12 20-8□□48-□□□□</b> <b>3WL12 40-8□□48-□□□□</b>		1 1 1	1 unit 1 unit 1 unit	103 103 103	109.000 109.000 136.000
<b>Options</b>								
<b>Non-automatic air circuit breakers<sup>2)</sup></b>	without Electronic Trip Units		<b>AA</b>		<b>None</b>	Add. price		
<b>Operating mechanisms</b>	Manual operating mechanism with mechanical closing			<b>1AA2</b>		<b>None</b>		
	For further Order No. supplements see page 1/37							

Add "-Z" to the complete Order No. and indicate the appropriate order code(s).			3WL12.0-8..4.-....-Z	Additional price 4-pole
Condition	Size	Rated current $I_n$	□ □ □	
Rated voltage 1000 V DC	II <sup>4)</sup>	Up to 2000 A	<b>A 0 5</b>	✓
		Up to 4000 A	<b>A 0 5</b>	✓
Tinned version of the customer's connections on the guide frame <sup>3)</sup> Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.	II		<b>A 0 8</b>	✓

#### 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 "3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", page 1/38 onwards.

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

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

#### ✓ Additional price

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

#### <sup>5)</sup> mat – Maschinen- und Anlagentechnik

Dr. Becker GmbH  
Rudolf-Diesel-Straße 22  
22941 Bargteheide  
Tel.: +49 (45 32) 20-2101  
Fax: +49 (45 32) 20-2121  
E-mail: info@m-a-t.de  
Internet: www.m-a-t.de

# Air Circuit Breakers

## 3WL Non-Automatic Air Circuit Breakers up to 4000 A (DC)

### Accessories and spare parts

#### Selection and ordering data

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

Size	Max. rated circuit breaker current $I_{n\max}$	DT	Guide frames for 3-pole non-automatic air circuit breakers	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A		Order No.					kg
<b>Front main circuit connection, single hole</b>								
II	2000		<b>3WL9 212-3DA□□-□□A1</b>		1	1 unit	103	31.000
<b>Front main circuit connection, double hole</b>								
II	2000		<b>3WL9 212-3DB□□-□□A1</b>		1	1 unit	103	31.000
<b>Horizontal main circuit connection</b>								
II	2000		<b>3WL9 212-3DC□□-□□A1</b>		1	1 unit	103	31.000
	4000		<b>3WL9 212-6DC□□-□□A1</b>		1	1 unit	103	60.000
<b>Vertical main circuit connection</b>								
II	2000		<b>3WL9 212-3DD□□-□□A1</b>		1	1 unit	103	31.000
	4000		<b>3WL9 212-6DD□□-□□A1</b>		1	1 unit	103	60.000
<b>Main circuit connection connecting flanges</b>								
II	2000		<b>3WL9 212-3DE□□-□□A1</b>		1	1 unit	103	31.000
	4000		<b>3WL9 212-6DE□□-□□A1</b>		1	1 unit	103	60.000
<b>Options</b>								
<b>Number of auxiliary supply connectors</b>		Without	0					Add. price 3-pole <b>None</b>
		1 connector	1					✓
		2 connectors	2					✓
		3 connectors	3					✓
		4 connectors	4					✓
Note								
For required number of auxiliary supply connectors, see table on page 1/44.								
<b>Type of auxiliary circuit connections</b>		Without	0					<b>None</b>
		With screw connection (SIGUT, standard)	1					✓
		With screwless connection method (tension spring)	2					✓
<b>Position signaling switches</b>		Without	0					<b>None</b>
		Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO	1					✓
		Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO	2					✓
<b>Shutters</b>		Without	A					<b>None</b>
		With shutter, 2-part, lockable	B					✓

Add "-Z" to the complete Order 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 frame<sup>1)</sup> Only for guide frames with horizontal connection or flange connection

Size II

A 0 8

✓

Notes

- For guide frames for 4-pole DC non-automatic air circuit breakers see the following page.
- All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", page 1/38 onwards.

✓ Additional price

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

