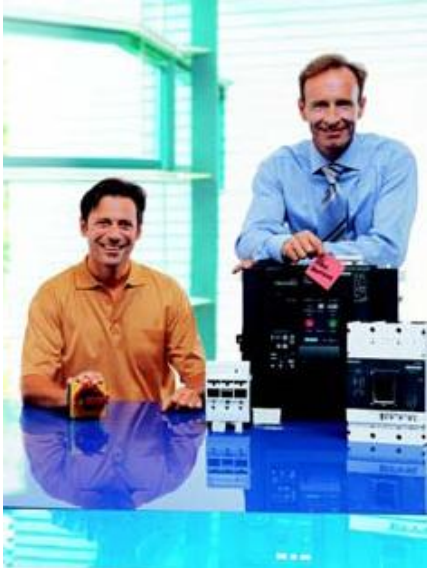


# SENTRON Switching and Protection Devices – Air Circuit-Breakers

# 15



15/2	<b>Introduction</b>
	<b>3WL Air Circuit-Breakers</b>
	<u>3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers up to 6300 A (AC)</u>
15/4	General data
15/5	3-pole, fixed-mounted versions
15/8	3-pole, withdrawable versions
15/11	4-pole, fixed-mounted versions
15/14	4-pole, withdrawable versions
15/17	Options
15/23	Accessories/spare parts
	<u>3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers according to UL 489 up to 5000 A (AC)</u>
15/4	General data
15/38	3-pole, fixed-mounted versions
15/39	3-pole, withdrawable versions
15/40	Accessories/spare parts
	<u>3WLNon-Automatic Air Circuit-Breakers up to 4000 A (DC)</u>
15/4	General data
15/42	3- and 4-pole, fixed-mounted versions
15/43	3- and 4-pole, withdrawable versions
15/44	Accessories/spare parts

# SENTRON Switching and Protection Devices – Air Circuit-Breakers

## Introduction

### Overview



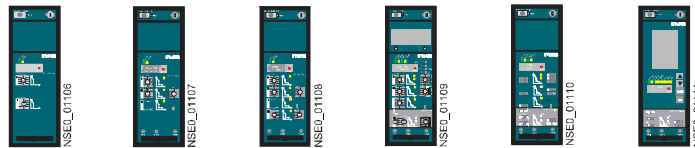
Size I

Size II

Size III

Size		I, II, III			I, II, III		II
<b>3WL air circuit-breakers/non-automatic air circuit-breakers up to 6300 A (AC)</b>					<b>3WL air circuit-breakers/non-automatic air circuit-breakers according to UL 489 up to 5000 A</b>		<b>3WL non-automatic air circuit-breakers up to 4000 A (DC)</b>
Rated current $I_n$	A	630, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6300			1000, 1600, 2000, 2500, 3000, 4000, 5000		1000, 2000, 4000
Number of poles		3-pole, 4-pole			3-pole		3-pole, 4-pole
Rated operational voltage $U_e$	V AC V DC	Up to 690/1000			Up to 600 Y/347		Up to 1000
Rated ultimate short-circuit breaking capacity at 415 V AC	kA	Size I 50/65	Size II 55/80/100	Size III 100	Size I 65 (480 V)	Size II, III 100 (480 V)	30/25/20 (at 300/600/1000 V DC)
Endurance	Operating cycles	20000	15000	10000	20000	15000/10000	15000
Mounting position							
Degree of protection	With cover Without cover (with door sealing frame)	IP55 IP41					IP55 IP41
Dimensions 3-/4-pole	W mm H mm D mm	320/410 434 291	460/590 434 291	704/914 434 291	For dimensions see "3WL Air Circuit-Breakers/ Non-Automatic Air Circuit-Breakers up to 6300 A (AC)"		460/590 434 291
	Fixed-mounted Withdrawable	H mm D mm	465.5 471	465.5 471			465.5 471

### Electronic trip units for SENTRON 3WL circuit-breakers

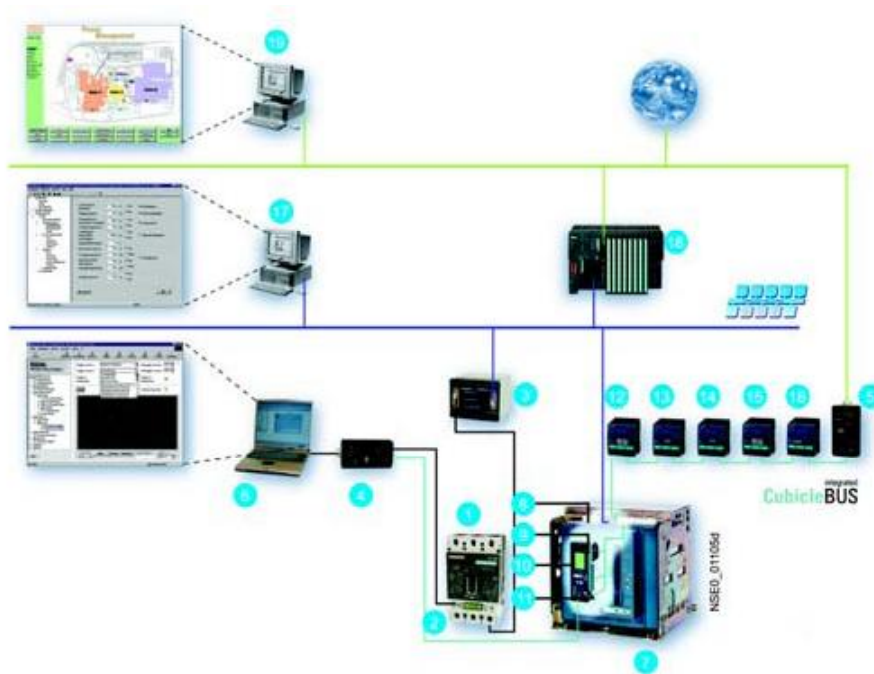


Type	ETU15B	ETU25B	ETU27B	ETU45B	ETU55B	ETU76B
Overload protection	✓	✓	✓	✓	✓	✓
Short-time delayed short-circuit protection	--	✓	✓	✓	✓	✓
Instantaneous short-circuit protection	✓	✓	✓	✓	✓	✓
Neutral conductor protection	--	--	✓	✓	✓	✓
Ground-fault protection	--	--	✓	□	□	□
Zone Selective Interlocking	--	--	--	□	□	□
LCD, 4-line	--	--	--	□	--	--
LCD, graphic	--	--	--	--	--	✓
Communication through PROFIBUS DP	--	--	--	□	□	□
Measurement function <i>Plus</i>	--	--	--	□	□	□
Selectable parameter sets	--	--	--	--	✓	✓
Parameters freely programmable	--	--	--	--	✓	✓

- ✓ standard
- not available
- optional

### Communication-capable circuit-breakers

- 1 SENTRON 3VL
- 2 LCD ETU release
- 3 COM10 PROFIBUS module including short-time grading control (ZSI module)
- 4 Breaker Data Adapter (BDA)
- 5 BDA Plus with Ethernet interface
- 6 Browser-capable input and output device (e.g. notebook)
- 7 SENTRON 3WL
- 8 COM15 PROFIBUS module
- 9 Breaker Status Sensor (BSS)
- 10 Electronic release ETU
- 11 Metering function Plus
- 12 Short-time grading control (ZSI module)
- 13 Digital output module as relay
- 14 Digital output module as relay, configurable
- 15 Analog output module
- 16 Digital input module
- 17 Switch ES Power on PC
- 18 PLC e.g. SIMATIC S7
- 19 Power Management software



### Features

- Coordinated communication concept using the PROFIBUS DP, ranging from 16 A to 6300 A with SENTRON 3VL and SENTRON 3WL
- The high level of modularity of circuit-breakers and accessories allows easy retrofitting of all communication components
- Significant additional benefits for the switchboard due to the possibility of linking up external input and output modules to the circuit-breaker-internal **CubicleBUS** of the SENTRON 3WL

- Innovative software products for parameterization, operation, monitoring, and diagnostics of SENTRON circuit-breakers, both locally or via PROFIBUS DP or Ethernet/Intranet/Internet
- Complete integration of the SENTRON circuit-breakers into the Totally Integrated Power and Totally Integrated Automation solutions

# 3WL Air Circuit-Breakers

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

### General data

#### Benefits

##### Low space requirements

The SENTRON 3WL devices require very little space. Size I devices (up to 1600 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 a 800 mm wide switchgear panel.

##### Modular design

Components like auxiliary trip units, motorized operating mechanisms, electronic trip units, current sensors, auxiliary circuit signaling switches, automatic reset devices and interlocks can all be exchanged or retrofitted at a later stage, thus allowing the circuit-breaker to be adapted to new, changing requirements.

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

##### Retrofittable modules for electronic trip units

Modularity is one of the main features of the new SENTRON 3WL circuit-breakers. Special LCDs, ground-fault modules, rated current modules and communications modules for the electronic trip units are available for fast and easy retrofitting and adaptation to changing requirements.

##### Communication

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

- Fast and reliable calibration
- 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 assigning power to cost centers
- Preventive maintenance reduces the risk of expansive plant down-times

#### Application

- As incoming-feeder, distribution, tie, and outgoing-feeder circuit-breakers in electrical installations
- For switching and protecting motors, capacitors, generators, transformers, busbars and cables
- Application as an EMERGENCY-STOP switch in conjunction with an EMERGENCY-STOP device (DIN VDE 0113, IEC 60204-1)

Due to the reinforced use of electronic control systems, the demands made on air circuit-breakers in terms of operator control and monitoring of network processes have increased.

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

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

##### Standards

SENTRON 3WL circuit-breakers comply with:

- IEC 60947-2
- DIN VDE 0660 Part 101
- Climate-proof to IEC 68 Part 30-2

Also available with UL 489.

For further specifications, see Appendix.

# 3WL Air Circuit-Breakers

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

3-pole, fixed-mounted versions

### Selection and ordering data

Size	Max. rated circuit-breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 50/55 kA at 500 V, ECO switching capacity N		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	A	kA	DT						kg	
<b>Horizontal main circuit connections</b>										
I	630	630	50	B	3WL11 06-2□□32-....		1	1 unit	103	43.000
I	800	800	50	B	3WL11 08-2□□32-....		1	1 unit	103	43.000
I	1000	1000	50	B	3WL11 10-2□□32-....		1	1 unit	103	43.000
I	1250	1250	50	B	3WL11 12-2□□32-....		1	1 unit	103	43.000
I	1600	1600	50	B	3WL11 16-2□□32-....		1	1 unit	103	43.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□32-....		1	1 unit	103	56.000
II	2500	2500	55	B	3WL12 25-2□□32-....		1	1 unit	103	59.000
II	3200	3200	--	--						
<b>Vertical main circuit connections</b>										
I	630	630	50	B	3WL11 06-2□□31-....		1	1 unit	103	43.000
I	800	800	50	B	3WL11 08-2□□31-....		1	1 unit	103	43.000
I	1000	1000	50	B	3WL11 10-2□□31-....		1	1 unit	103	43.000
I	1250	1250	50	B	3WL11 12-2□□31-....		1	1 unit	103	43.000
I	1600	1600	50	B	3WL11 16-2□□31-....		1	1 unit	103	43.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□31-....		1	1 unit	103	56.000
II	2500	2500	55	B	3WL12 25-2□□31-....		1	1 unit	103	59.000
II	3200	3200	--	--						
<b>Front main circuit connections, single hole</b>										
I	630	630	50	B	3WL11 06-2□□33-....		1	1 unit	103	43.000
I	800	800	50	B	3WL11 08-2□□33-....		1	1 unit	103	43.000
I	1000	1000	50	B	3WL11 10-2□□33-....		1	1 unit	103	43.000
I	1250	1250	50	B	3WL11 12-2□□33-....		1	1 unit	103	43.000
I	1600	1600	50	B	3WL11 16-2□□33-....		1	1 unit	103	43.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□33-....		1	1 unit	103	56.000
II	2500	2500	55	B	3WL12 25-2□□33-....		1	1 unit	103	59.000
II	3200	3200	--	--						
<b>Front main circuit connections, double hole</b>										
I	630	630	50	B	3WL11 06-2□□34-....		1	1 unit	103	43.000
I	800	800	50	B	3WL11 08-2□□34-....		1	1 unit	103	43.000
I	1000	1000	50	B	3WL11 10-2□□34-....		1	1 unit	103	43.000
I	1250	1250	50	B	3WL11 12-2□□34-....		1	1 unit	103	43.000
I	1600	1600	50	B	3WL11 16-2□□34-....		1	1 unit	103	43.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□34-....		1	1 unit	103	56.000
II	2500	2500	55	B	3WL12 25-2□□34-....		1	1 unit	103	59.000
II	3200	3200	--	--						

### Non-automatic circuit-breakers<sup>2)</sup>

Without electronic trip unit

AA

without

### Electronic trip units

#### Version without ground-fault protection

- 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
- ETU55B: Protection functions LSIN<sup>3)</sup>
- ETU76B: Protection functions LSIN<sup>3)</sup> with pixel graphics display

BB

x

CB

x

EB

x

FB

x

JB

x

NB

x

#### Version with ground-fault protection

- ETU27B: Protection functions LSING<sup>5)</sup>
- ETU45B: Protection functions LSING<sup>3)6)</sup>
- ETU45B: Protection functions LSING<sup>3)6)</sup> with 4-line display
- ETU55B: Protection functions LSING<sup>3)6)</sup>
- ETU76B: Protection functions LSING<sup>3)6)</sup> with pixel graphics display

DG

x

EG

x

FG

x

JG

x

NG

x

Standard Order No. supplements (for further Order No. supplements see page 15/17)

Manual operating mechanism with mechanical closing  
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO

1AA2

without

x additional price

\* You can order this quantity or a multiple thereof.

For footnotes see page 15/7.

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15/5

# 3WL Air Circuit-Breakers

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

### 3-pole, fixed-mounted versions

Size	Max. rated circuit-breaker current $I_n$ max.	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 65/80 kA at 500 V, standard switching capacity S		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
			kA	DT						
<b>Horizontal main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□32-....		1	1 unit	103	43.000
I	800	800	65	B	3WL11 08-3□□32-....		1	1 unit	103	43.000
I	1000	1000	65	B	3WL11 10-3□□32-....		1	1 unit	103	43.000
I	1250	1250	65	B	3WL11 12-3□□32-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL11 16-3□□32-....		1	1 unit	103	43.000
II	800	800	80	B	3WL12 08-3□□32-....		1	1 unit	103	56.000
II	1000	1000	80	B	3WL12 10-3□□32-....		1	1 unit	103	56.000
II	1250	1250	80	B	3WL12 12-3□□32-....		1	1 unit	103	56.000
II	1600	1600	80	B	3WL12 16-3□□32-....		1	1 unit	103	56.000
II	2000	2000	80	B	3WL12 20-3□□32-....		1	1 unit	103	56.000
II	2500	2500	80	B	3WL12 25-3□□32-....		1	1 unit	103	59.000
II	3200	3200	80	B	3WL12 32-3□□32-....		1	1 unit	103	64.000
<b>Vertical main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□31-....		1	1 unit	103	43.000
I	800	800	65	B	3WL11 08-3□□31-....		1	1 unit	103	43.000
I	1000	1000	65	B	3WL11 10-3□□31-....		1	1 unit	103	43.000
I	1250	1250	65	B	3WL11 12-3□□31-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL11 16-3□□31-....		1	1 unit	103	43.000
II	800	800	80	B	3WL12 08-3□□31-....		1	1 unit	103	56.000
II	1000	1000	80	B	3WL12 10-3□□31-....		1	1 unit	103	56.000
II	1250	1250	80	B	3WL12 12-3□□31-....		1	1 unit	103	56.000
II	1600	1600	80	B	3WL12 16-3□□31-....		1	1 unit	103	56.000
II	2000	2000	80	B	3WL12 20-3□□31-....		1	1 unit	103	56.000
II	2500	2500	80	B	3WL12 25-3□□31-....		1	1 unit	103	59.000
II	3200	3200	80	B	3WL12 32-3□□31-....		1	1 unit	103	64.000
<b>Front main circuit connections, single hole</b>										
I	630	630	65	B	3WL11 06-3□□33-....		1	1 unit	103	43.000
I	800	800	65	B	3WL11 08-3□□33-....		1	1 unit	103	43.000
I	1000	1000	65	B	3WL11 10-3□□33-....		1	1 unit	103	43.000
I	1250	1250	65	B	3WL11 12-3□□33-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL11 16-3□□33-....		1	1 unit	103	43.000
II	800	800	80	B	3WL12 08-3□□33-....		1	1 unit	103	56.000
II	1000	1000	80	B	3WL12 10-3□□33-....		1	1 unit	103	56.000
II	1250	1250	80	B	3WL12 12-3□□33-....		1	1 unit	103	56.000
II	1600	1600	80	B	3WL12 16-3□□33-....		1	1 unit	103	56.000
II	2000	2000	80	B	3WL12 20-3□□33-....		1	1 unit	103	56.000
II	2500	2500	80	B	3WL12 25-3□□33-....		1	1 unit	103	59.000
II	3200	3200	80	B	3WL12 32-3□□33-....		1	1 unit	103	64.000
<b>Front main circuit connections, double hole</b>										
I	630	630	65	B	3WL11 06-3□□34-....		1	1 unit	103	43.000
I	800	800	65	B	3WL11 08-3□□34-....		1	1 unit	103	43.000
I	1000	1000	65	B	3WL11 10-3□□34-....		1	1 unit	103	43.000
I	1250	1250	65	B	3WL11 12-3□□34-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL11 16-3□□34-....		1	1 unit	103	43.000
II	800	800	80	B	3WL12 08-3□□34-....		1	1 unit	103	56.000
II	1000	1000	80	B	3WL12 10-3□□34-....		1	1 unit	103	56.000
II	1250	1250	80	B	3WL12 12-3□□34-....		1	1 unit	103	56.000
II	1600	1600	80	B	3WL12 16-3□□34-....		1	1 unit	103	56.000
II	2000	2000	80	B	3WL12 20-3□□34-....		1	1 unit	103	56.000
II	2500	2500	80	B	3WL12 25-3□□34-....		1	1 unit	103	59.000
II	3200	3200	80	B	3WL12 32-3□□34-....		1	1 unit	103	64.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>										
Without electronic trip unit					AA					
Electronic trip units										
<b>Versions without ground-fault protection</b>										
ETU15B: Protection functions LI					BB		x			
ETU25B: Protection functions LSI					CB		x			
ETU45B: Protection functions LSIN <sup>3)</sup>					EB		x			
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB		x			
ETU55B: Protection functions LSIN <sup>3)</sup>					JB		x			
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB		x			
<b>Versions with ground-fault protection</b>										
ETU27B: Protection functions LSING <sup>5)</sup>					DG		x			
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG		x			
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG		x			
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG		x			
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG		x			
Standard Order No. supplements (for further Order No. supplements see page 15/17)										
Manual operating mechanism with mechanical closing					1AA2					
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO										

x additional price

For footnotes see page 15/7.

# 3WL Air Circuit-Breakers

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

3-pole, fixed-mounted versions

Size	Max. rated circuit-breaker current $I_n \text{ max.}$	Rated current <sup>1)</sup> $I_n$	$I_{cc}$ up to 100 A at 500 V, high switching capacity H		Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
			kA	DT					
<b>Horizontal main circuit connections</b>									
II	800	800	100	B	3WL12 08-4□□32-....		1	1 unit	103 56.000
II	1000	1000	100	B	3WL12 10-4□□32-....		1	1 unit	103 56.000
II	1250	1250	100	B	3WL12 12-4□□32-....		1	1 unit	103 56.000
II	1600	1600	100	B	3WL12 16-4□□32-....		1	1 unit	103 56.000
II	2000	2000	100	B	3WL12 20-4□□32-....		1	1 unit	103 56.000
II	2500	2500	100	B	3WL12 25-4□□32-....		1	1 unit	103 59.000
II	3200	3200	100	B	3WL12 32-4□□32-....		1	1 unit	103 64.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□32-....		1	1 unit	103 82.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□32-....		1	1 unit	103 82.000
<b>Vertical main circuit connections</b>									
II	800	800	100	B	3WL12 08-4□□31-....		1	1 unit	103 56.000
II	1000	1000	100	B	3WL12 10-4□□31-....		1	1 unit	103 56.000
II	1250	1250	100	B	3WL12 12-4□□31-....		1	1 unit	103 56.000
II	1600	1600	100	B	3WL12 16-4□□31-....		1	1 unit	103 56.000
II	2000	2000	100	B	3WL12 20-4□□31-....		1	1 unit	103 56.000
II	2500	2500	100	B	3WL12 25-4□□31-....		1	1 unit	103 59.000
II	3200	3200	100	B	3WL12 32-4□□31-....		1	1 unit	103 64.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□31-....		1	1 unit	103 82.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□31-....		1	1 unit	103 82.000
III <sup>4)</sup>	6300	6300	100	B	3WL13 63-4□□31-....		1	1 unit	103 90.000
<b>Front main circuit connections, single hole</b>									
II	800	800	100	B	3WL12 08-4□□33-....		1	1 unit	103 56.000
II	1000	1000	100	B	3WL12 10-4□□33-....		1	1 unit	103 56.000
II	1250	1250	100	B	3WL12 12-4□□33-....		1	1 unit	103 56.000
II	1600	1600	100	B	3WL12 16-4□□33-....		1	1 unit	103 56.000
II	2000	2000	100	B	3WL12 20-4□□33-....		1	1 unit	103 56.000
II	2500	2500	100	B	3WL12 25-4□□33-....		1	1 unit	103 59.000
II	3200	3200	100	B	3WL12 32-4□□33-....		1	1 unit	103 64.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□33-....		1	1 unit	103 82.000
<b>Front main circuit connections, double hole</b>									
II	800	800	100	B	3WL12 08-4□□34-....		1	1 unit	103 56.000
II	1000	1000	100	B	3WL12 10-4□□34-....		1	1 unit	103 56.000
II	1250	1250	100	B	3WL12 12-4□□34-....		1	1 unit	103 56.000
II	1600	1600	100	B	3WL12 16-4□□34-....		1	1 unit	103 56.000
II	2000	2000	100	B	3WL12 20-4□□34-....		1	1 unit	103 56.000
II	2500	2500	100	B	3WL12 25-4□□34-....		1	1 unit	103 59.000
II	3200	3200	100	B	3WL12 32-4□□34-....		1	1 unit	103 64.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□34-....		1	1 unit	103 82.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>									
Without electronic trip unit					AA	without			
<b>Electronic trip units</b>									
<b>Versions without ground-fault protection</b>									
ETU15B: Protection functions LI <sup>4)</sup>					BB	x			
ETU25B: Protection functions LSI					CB	x			
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x			
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x			
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x			
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x			
<b>Versions with ground-fault protection</b>									
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x			
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x			
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x			
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x			
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x			
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>									
Manual operating mechanism with mechanical closing					1AA2	without			
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO									

**Footnotes for pages 15/5 to 15/7:**

- The rated current is determined by the rated current module. 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 15/18.
- For permissible short-time current rating  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic circuit-breakers, see Catalog LV 1T, Technical Specifications.
- Current transformers for protection of the neutral conductor and current transformers for detection of the earth-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 15/26.

- Size III circuit-breakers are not available with electronic trip unit version ETU15B.
- Current transformers for protection of the neutral conductor are to be ordered separately, see page 15/26.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 15/26.

x additional price

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

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

### 3-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 50/55 kA at 500 V, ECO switching capacity N		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
			kA	DT							
<b>Without guide frames (for guide frames, see page 15/24 and 15/25)</b>											
I	630	630	50	B	3WL11 06-2□□35-....		1	1 unit	103	45.000	
I	800	800	50	B	3WL11 08-2□□35-....		1	1 unit	103	45.000	
I	1000	1000	50	B	3WL11 10-2□□35-....		1	1 unit	103	45.000	
I	1250	1250	50	B	3WL11 12-2□□35-....		1	1 unit	103	45.000	
I	1600	1600	50	B	3WL11 16-2□□35-....		1	1 unit	103	45.000	
II	800	800	--	--							
II	1000	1000	--	--							
II	1250	1250	--	--							
II	1600	1600	--	--							
II	2000	2000	55	B	3WL12 20-2□□35-....		1	1 unit	103	60.000	
II	2500	2500	55	B	3WL12 25-2□□35-....		1	1 unit	103	63.000	
II	3200	3200	--	--							
<b>With guide frames, horizontal main circuit connections</b>											
I	630	630	50	B	3WL11 06-2□□36-....		1	1 unit	103	70.000	
I	800	800	50	B	3WL11 08-2□□36-....		1	1 unit	103	70.000	
I	1000	1000	50	B	3WL11 10-2□□36-....		1	1 unit	103	70.000	
I	1250	1250	50	B	3WL11 12-2□□36-....		1	1 unit	103	70.000	
I	1600	1600	50	B	3WL11 16-2□□36-....		1	1 unit	103	70.000	
II	800	800	--	--							
II	1000	1000	--	--							
II	1250	1250	--	--							
II	1600	1600	--	--							
II	2000	2000	55	B	3WL12 20-2□□36-....		1	1 unit	103	91.000	
II	2500	2500	55	B	3WL12 25-2□□36-....		1	1 unit	103	102.000	
II	3200	3200	--	--							
<b>With guide frames, vertical main circuit connections</b>											
I	630	630	50	B	3WL11 06-2□□37-....		1	1 unit	103	70.000	
I	800	800	50	B	3WL11 08-2□□37-....		1	1 unit	103	70.000	
I	1000	1000	50	B	3WL11 10-2□□37-....		1	1 unit	103	70.000	
I	1250	1250	50	B	3WL11 12-2□□37-....		1	1 unit	103	70.000	
I	1600	1600	50	B	3WL11 16-2□□37-....		1	1 unit	103	70.000	
II	800	800	--	--							
II	1000	1000	--	--							
II	1250	1250	--	--							
II	1600	1600	--	--							
II	2000	2000	55	B	3WL12 20-2□□37-....		1	1 unit	103	91.000	
II	2500	2500	55	B	3WL12 25-2□□37-....		1	1 unit	103	102.000	
II	3200	3200	--	--							
<b>With guide frames, connecting flanges</b>											
I	630	630	50	B	3WL11 06-2□□38-....		1	1 unit	103	70.000	
I	800	800	50	B	3WL11 08-2□□38-....		1	1 unit	103	70.000	
I	1000	1000	50	B	3WL11 10-2□□38-....		1	1 unit	103	70.000	
I	1250	1250	50	B	3WL11 12-2□□38-....		1	1 unit	103	70.000	
I	1600	1600	50	B	3WL11 16-2□□38-....		1	1 unit	103	70.000	
II	800	800	--	--							
II	1000	1000	--	--							
II	1250	1250	--	--							
II	1600	1600	--	--							
II	2000	2000	55	B	3WL12 20-2□□38-....		1	1 unit	103	91.000	
II	2500	2500	55	B	3WL12 25-2□□38-....		1	1 unit	103	102.000	
II	3200	3200	--	--							
<b>Non-automatic circuit-breakers<sup>2)</sup></b>											
Without electronic trip unit					AA						without
<b>Electronic trip units</b>											
<b>Versions without ground-fault protection</b>											
ETU15B: Protection functions LI					BB						x
ETU25B: Protection functions LSI					CB						x
ETU45B: Protection functions LSIN <sup>3)</sup>					EB						x
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB						x
ETU55B: Protection functions LSIN <sup>3)</sup>					JB						x
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB						x
<b>Versions with ground-fault protection</b>											
ETU27B: Protection functions LSING <sup>5)</sup>					DG						x
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG						x
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG						x
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG						x
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG						x
<b>Standard Order No. supplements (for further Order No. supplements for circuit-breakers and guide frames, see page 15/17)</b>											
Manual operating mechanism with mechanical closing					1AA2						without
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO											

x additional price

For footnotes see page 15/10.



# 3WL Air Circuit-Breakers

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

3-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_n$ max.	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 65/80 kA at 500 V, standard switching capacity S		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
<b>Without guide frames (for guide frames, see page 15/24 and 15/25)</b>										
I	630	630	65	B	3WL11 06-3□□35-....		1	1 unit	103	45.000
I	800	800	65	B	3WL11 08-3□□35-....		1	1 unit	103	45.000
I	1000	1000	65	B	3WL11 10-3□□35-....		1	1 unit	103	45.000
I	1250	1250	65	B	3WL11 12-3□□35-....		1	1 unit	103	45.000
I	1600	1600	65	B	3WL11 16-3□□35-....		1	1 unit	103	45.000
II	800	800	80	B	3WL12 08-3□□35-....		1	1 unit	103	60.000
II	1000	1000	80	B	3WL12 10-3□□35-....		1	1 unit	103	60.000
II	1250	1250	80	B	3WL12 12-3□□35-....		1	1 unit	103	60.000
II	1600	1600	80	B	3WL12 16-3□□35-....		1	1 unit	103	60.000
II	2000	2000	80	B	3WL12 20-3□□35-....		1	1 unit	103	60.000
II	2500	2500	80	B	3WL12 25-3□□35-....		1	1 unit	103	63.000
II	3200	3200	80	B	3WL12 32-3□□35-....		1	1 unit	103	68.000
<b>With guide frames, horizontal main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□36-....		1	1 unit	103	70.000
I	800	800	65	B	3WL11 08-3□□36-....		1	1 unit	103	70.000
I	1000	1000	65	B	3WL11 10-3□□36-....		1	1 unit	103	70.000
I	1250	1250	65	B	3WL11 12-3□□36-....		1	1 unit	103	70.000
I	1600	1600	65	B	3WL11 16-3□□36-....		1	1 unit	103	70.000
II	800	800	80	B	3WL12 08-3□□36-....		1	1 unit	103	91.000
II	1000	1000	80	B	3WL12 10-3□□36-....		1	1 unit	103	91.000
II	1250	1250	80	B	3WL12 12-3□□36-....		1	1 unit	103	91.000
II	1600	1600	80	B	3WL12 16-3□□36-....		1	1 unit	103	91.000
II	2000	2000	80	B	3WL12 20-3□□36-....		1	1 unit	103	91.000
II	2500	2500	80	B	3WL12 25-3□□36-....		1	1 unit	103	102.000
II	3200	3200	80	B	3WL12 32-3□□36-....		1	1 unit	103	113.000
<b>With guide frames, vertical main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□37-....		1	1 unit	103	70.000
I	800	800	65	B	3WL11 08-3□□37-....		1	1 unit	103	70.000
I	1000	1000	65	B	3WL11 10-3□□37-....		1	1 unit	103	70.000
I	1250	1250	65	B	3WL11 12-3□□37-....		1	1 unit	103	70.000
I	1600	1600	65	B	3WL11 16-3□□37-....		1	1 unit	103	70.000
II	800	800	80	B	3WL12 08-3□□37-....		1	1 unit	103	91.000
II	1000	1000	80	B	3WL12 10-3□□37-....		1	1 unit	103	91.000
II	1250	1250	80	B	3WL12 12-3□□37-....		1	1 unit	103	91.000
II	1600	1600	80	B	3WL12 16-3□□37-....		1	1 unit	103	91.000
II	2000	2000	80	B	3WL12 20-3□□37-....		1	1 unit	103	91.000
II	2500	2500	80	B	3WL12 25-3□□37-....		1	1 unit	103	102.000
II	3200	3200	80	B	3WL12 32-3□□37-....		1	1 unit	103	113.000
<b>With guide frames, connecting flanges</b>										
I	630	630	65	B	3WL11 06-3□□38-....		1	1 unit	103	70.000
I	800	800	65	B	3WL11 08-3□□38-....		1	1 unit	103	70.000
I	1000	1000	65	B	3WL11 10-3□□38-....		1	1 unit	103	70.000
I	1250	1250	65	B	3WL11 12-3□□38-....		1	1 unit	103	70.000
I	1600	1600	65	B	3WL11 16-3□□38-....		1	1 unit	103	70.000
II	800	800	80	B	3WL12 08-3□□38-....		1	1 unit	103	91.000
II	1000	1000	80	B	3WL12 10-3□□38-....		1	1 unit	103	91.000
II	1250	1250	80	B	3WL12 12-3□□38-....		1	1 unit	103	91.000
II	1600	1600	80	B	3WL12 16-3□□38-....		1	1 unit	103	91.000
II	2000	2000	80	B	3WL12 20-3□□38-....		1	1 unit	103	91.000
II	2500	2500	80	B	3WL12 25-3□□38-....		1	1 unit	103	102.000
II	3200	3200	80	B	3WL12 32-3□□38-....		1	1 unit	103	113.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>					Order No. supplements	Additional price				
Without electronic trip unit					AA	without				
<b>Electronic trip units</b>										
<b>Versions without ground-fault protection</b>										
ETU15B: Protection functions LI					BB	x				
ETU25B: Protection functions LSI					CB	x				
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x				
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x				
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x				
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x				
<b>Versions with ground-fault protection</b>										
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x				
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x				
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x				
<b>Standard Order No. supplements (for further Order No. supplements for circuit-breakers and guide frames, see page 15/17)</b>										
Manual operating mechanism with mechanical closing					1AA2	without				
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO										

x additional price

For footnotes see page 15/10.

\* You can order this quantity or a multiple thereof.

Siemens LV 1 · 2006

15/9

# 3WL Air Circuit-Breakers

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

### 3-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_n \text{ max.}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 100 kA at 500 V, high switching capacity H		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	A	kA	DT							
<b>Without guide frames (for guide frames, see page 15/24 and 15/25)</b>										
II	800	800	100	B	3WL12 08-4□□35-....		1	1 unit	103	60.000
II	1000	1000	100	B	3WL12 10-4□□35-....		1	1 unit	103	60.000
II	1250	1250	100	B	3WL12 12-4□□35-....		1	1 unit	103	60.000
II	1600	1600	100	B	3WL12 16-4□□35-....		1	1 unit	103	60.000
II	2000	2000	100	B	3WL12 20-4□□35-....		1	1 unit	103	60.000
II	2500	2500	100	B	3WL12 25-4□□35-....		1	1 unit	103	63.000
II	3200	3200	100	B	3WL12 32-4□□35-....		1	1 unit	103	68.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□35-....		1	1 unit	103	88.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□35-....		1	1 unit	103	88.000
III <sup>4)</sup>	6300	6300	100	B	3WL13 63-4□□35-....		1	1 unit	103	96.000
<b>With guide frames, horizontal main circuit connections</b>										
II	800	800	100	B	3WL12 08-4□□36-....		1	1 unit	103	91.000
II	1000	1000	100	B	3WL12 10-4□□36-....		1	1 unit	103	91.000
II	1250	1250	100	B	3WL12 12-4□□36-....		1	1 unit	103	91.000
II	1600	1600	100	B	3WL12 16-4□□36-....		1	1 unit	103	91.000
II	2000	2000	100	B	3WL12 20-4□□36-....		1	1 unit	103	91.000
II	2500	2500	100	B	3WL12 25-4□□36-....		1	1 unit	103	102.000
II	3200	3200	100	B	3WL12 32-4□□36-....		1	1 unit	103	113.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□36-....		1	1 unit	103	148.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□36-....		1	1 unit	103	148.000
<b>With guide frames, vertical main circuit connections</b>										
II	800	800	100	B	3WL12 08-4□□37-....		1	1 unit	103	91.000
II	1000	1000	100	B	3WL12 10-4□□37-....		1	1 unit	103	91.000
II	1250	1250	100	B	3WL12 12-4□□37-....		1	1 unit	103	91.000
II	1600	1600	100	B	3WL12 16-4□□37-....		1	1 unit	103	91.000
II	2000	2000	100	B	3WL12 20-4□□37-....		1	1 unit	103	91.000
II	2500	2500	100	B	3WL12 25-4□□37-....		1	1 unit	103	102.000
II	3200	3200	100	B	3WL12 32-4□□37-....		1	1 unit	103	113.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□37-....		1	1 unit	103	148.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□37-....		1	1 unit	103	148.000
III <sup>4)</sup>	6300	6300	100	B	3WL13 63-4□□37-....		1	1 unit	103	166.000
<b>With guide frames, connecting flanges</b>										
II	800	800	100	B	3WL12 08-4□□38-....		1	1 unit	103	91.000
II	1000	1000	100	B	3WL12 10-4□□38-....		1	1 unit	103	91.000
II	1250	1250	100	B	3WL12 12-4□□38-....		1	1 unit	103	91.000
II	1600	1600	100	B	3WL12 16-4□□38-....		1	1 unit	103	91.000
II	2000	2000	100	B	3WL12 20-4□□38-....		1	1 unit	103	91.000
II	2500	2500	100	B	3WL12 25-4□□38-....		1	1 unit	103	102.000
II	3200	3200	100	B	3WL12 32-4□□38-....		1	1 unit	103	113.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□38-....		1	1 unit	103	148.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>					Order No. supplements	Additional price				
Without electronic trip unit					AA	without				
<b>Electronic trip units</b>										
<b>Versions without ground-fault protection</b>										
ETU15B: Protection functions LI <sup>4)</sup>					BB	x				
ETU25B: Protection functions LSI					CB	x				
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x				
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x				
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x				
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x				
<b>Versions with ground-fault protection</b>										
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x				
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x				
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x				
<b>Standard Order No. supplements (for further Order No. supplements for circuit-breakers and guide frames, see page 15/17)</b>										
Manual operating mechanism with mechanical closing					1AA2	without				
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO										

#### Footnotes for pages 15/8 to 15/10:

- The rated current is determined by the rated current module. 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 15/18.
- For permissible short-time current rating  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic circuit-breakers, see Catalog LV 1T, Technical Specifications.

- Current transformers for protection of the neutral conductor and current transformers for detection of the earth-fault current in the grounded neutral point of the transformer are to be ordered separately, see page 15/26.
- Size III circuit-breakers are not available with electronic trip unit version ETU15B.
- Current transformers for protection of the neutral conductor are to be ordered separately, see page 15/26.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 15/26.

x additional price

# 3WL Air Circuit-Breakers

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

4-pole, fixed-mounted versions

Size	Max. rated circuit-breaker current $I_n$ max.	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 50/55 kA at 500 V, ECO switching capacity N		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	A	kA	DT						kg
<b>Horizontal main circuit connections</b>										
I	630	630	50	B	3WL11 06-2□□42-....		1	1 unit	103	50.000
I	800	800	50	B	3WL11 08-2□□42-....		1	1 unit	103	50.000
I	1000	1000	50	B	3WL11 10-2□□42-....		1	1 unit	103	50.000
I	1250	1250	50	B	3WL11 12-2□□42-....		1	1 unit	103	50.000
I	1600	1600	50	B	3WL11 16-2□□42-....		1	1 unit	103	50.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□42-....		1	1 unit	103	67.000
II	2500	2500	55	B	3WL12 25-2□□42-....		1	1 unit	103	71.000
II	3200	3200	--	--						
<b>Vertical main circuit connections</b>										
I	630	630	50	B	3WL11 06-2□□41-....		1	1 unit	103	50.000
I	800	800	50	B	3WL11 08-2□□41-....		1	1 unit	103	50.000
I	1000	1000	50	B	3WL11 10-2□□41-....		1	1 unit	103	50.000
I	1250	1250	50	B	3WL11 12-2□□41-....		1	1 unit	103	50.000
I	1600	1600	50	B	3WL11 16-2□□41-....		1	1 unit	103	50.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□41-....		1	1 unit	103	67.000
II	2500	2500	55	B	3WL12 25-2□□41-....		1	1 unit	103	71.000
II	3200	3200	--	--						
<b>Front main circuit connections, single hole</b>										
I	630	630	50	B	3WL11 06-2□□43-....		1	1 unit	103	50.000
I	800	800	50	B	3WL11 08-2□□43-....		1	1 unit	103	50.000
I	1000	1000	50	B	3WL11 10-2□□43-....		1	1 unit	103	50.000
I	1250	1250	50	B	3WL11 12-2□□43-....		1	1 unit	103	50.000
I	1600	1600	50	B	3WL11 16-2□□43-....		1	1 unit	103	50.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□43-....		1	1 unit	103	67.000
II	2500	2500	55	B	3WL12 25-2□□43-....		1	1 unit	103	71.000
II	3200	3200	--	--						
<b>Front main circuit connections, double hole</b>										
I	630	630	50	B	3WL11 06-2□□44-....		1	1 unit	103	50.000
I	800	800	50	B	3WL11 08-2□□44-....		1	1 unit	103	50.000
I	1000	1000	50	B	3WL11 10-2□□44-....		1	1 unit	103	50.000
I	1250	1250	50	B	3WL11 12-2□□44-....		1	1 unit	103	50.000
I	1600	1600	50	B	3WL11 16-2□□44-....		1	1 unit	103	50.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□44-....		1	1 unit	103	67.000
II	2500	2500	55	B	3WL12 25-2□□44-....		1	1 unit	103	71.000
II	3200	3200	--	--						
<b>Non-automatic circuit-breakers<sup>2)</sup></b>										
Without electronic trip unit					Order No. supplements	Additional price				
					AA	without				
<b>Electronic trip units</b>										
<b>Versions without ground-fault protection</b>										
ETU15B: Protection functions LI					BB	x				
ETU25B: Protection functions LSI					CB	x				
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x				
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x				
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x				
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x				
<b>Versions with ground-fault protection</b>										
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x				
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x				
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x				
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>										
Manual operating mechanism with mechanical closing					1AA2	without				
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO										

x additional price

For footnotes see page 15/13.

\* You can order this quantity or a multiple thereof.

Siemens LV 1 · 2006

15/11

# 3WL Air Circuit-Breakers

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

### 4-pole, fixed-mounted versions

Size	Max. rated circuit-breaker current $I_{n\ max.}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 65/80 kA at 500 V, standard switching capacity S		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
			kA	DT						
<b>Horizontal main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□42-....		1	1 unit	103	50.000
I	800	800	65	B	3WL11 08-3□□42-....		1	1 unit	103	50.000
I	1000	1000	65	B	3WL11 10-3□□42-....		1	1 unit	103	50.000
I	1250	1250	65	B	3WL11 12-3□□42-....		1	1 unit	103	50.000
I	1600	1600	65	B	3WL11 16-3□□42-....		1	1 unit	103	50.000
II	800	800	80	B	3WL12 08-3□□42-....		1	1 unit	103	67.000
II	1000	1000	80	B	3WL12 10-3□□42-....		1	1 unit	103	67.000
II	1250	1250	80	B	3WL12 12-3□□42-....		1	1 unit	103	67.000
II	1600	1600	80	B	3WL12 16-3□□42-....		1	1 unit	103	67.000
II	2000	2000	80	B	3WL12 20-3□□42-....		1	1 unit	103	67.000
II	2500	2500	80	B	3WL12 25-3□□42-....		1	1 unit	103	71.000
II	3200	3200	80	B	3WL12 32-3□□42-....		1	1 unit	103	77.000
<b>Vertical main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□41-....		1	1 unit	103	50.000
I	800	800	65	B	3WL11 08-3□□41-....		1	1 unit	103	50.000
I	1000	1000	65	B	3WL11 10-3□□41-....		1	1 unit	103	50.000
I	1250	1250	65	B	3WL11 12-3□□41-....		1	1 unit	103	50.000
I	1600	1600	65	B	3WL11 16-3□□41-....		1	1 unit	103	50.000
II	800	800	80	B	3WL12 08-3□□41-....		1	1 unit	103	67.000
II	1000	1000	80	B	3WL12 10-3□□41-....		1	1 unit	103	67.000
II	1250	1250	80	B	3WL12 12-3□□41-....		1	1 unit	103	67.000
II	1600	1600	80	B	3WL12 16-3□□41-....		1	1 unit	103	67.000
II	2000	2000	80	B	3WL12 20-3□□41-....		1	1 unit	103	67.000
II	2500	2500	80	B	3WL12 25-3□□41-....		1	1 unit	103	71.000
II	3200	3200	80	B	3WL12 32-3□□41-....		1	1 unit	103	77.000
<b>Front main circuit connections, single hole</b>										
I	630	630	65	B	3WL11 06-3□□43-....		1	1 unit	103	50.000
I	800	800	65	B	3WL11 08-3□□43-....		1	1 unit	103	50.000
I	1000	1000	65	B	3WL11 10-3□□43-....		1	1 unit	103	50.000
I	1250	1250	65	B	3WL11 12-3□□43-....		1	1 unit	103	50.000
I	1600	1600	65	B	3WL11 16-3□□43-....		1	1 unit	103	50.000
II	800	800	80	B	3WL12 08-3□□43-....		1	1 unit	103	67.000
II	1000	1000	80	B	3WL12 10-3□□43-....		1	1 unit	103	67.000
II	1250	1250	80	B	3WL12 12-3□□43-....		1	1 unit	103	67.000
II	1600	1600	80	B	3WL12 16-3□□43-....		1	1 unit	103	67.000
II	2000	2000	80	B	3WL12 20-3□□43-....		1	1 unit	103	67.000
II	2500	2500	80	B	3WL12 25-3□□43-....		1	1 unit	103	71.000
II	3200	3200	80	B	3WL12 32-3□□43-....		1	1 unit	103	77.000
<b>Front main circuit connections, double hole</b>										
I	630	630	65	B	3WL11 06-3□□44-....		1	1 unit	103	50.000
I	800	800	65	B	3WL11 08-3□□44-....		1	1 unit	103	50.000
I	1000	1000	65	B	3WL11 10-3□□44-....		1	1 unit	103	50.000
I	1250	1250	65	B	3WL11 12-3□□44-....		1	1 unit	103	50.000
I	1600	1600	65	B	3WL11 16-3□□44-....		1	1 unit	103	50.000
II	800	800	80	B	3WL12 08-3□□44-....		1	1 unit	103	67.000
II	1000	1000	80	B	3WL12 10-3□□44-....		1	1 unit	103	67.000
II	1250	1250	80	B	3WL12 12-3□□44-....		1	1 unit	103	67.000
II	1600	1600	80	B	3WL12 16-3□□44-....		1	1 unit	103	67.000
II	2000	2000	80	B	3WL12 20-3□□44-....		1	1 unit	103	67.000
II	2500	2500	80	B	3WL12 25-3□□44-....		1	1 unit	103	71.000
II	3200	3200	80	B	3WL12 32-3□□44-....		1	1 unit	103	77.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>										
Without electronic trip unit					AA					without
<b>Electronic trip units</b>										
<b>Versions without ground-fault protection</b>										
ETU15B: Protection functions LI					BB					x
ETU25B: Protection functions LSI					CB					x
ETU45B: Protection functions LSIN <sup>3)</sup>					EB					x
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB					x
ETU55B: Protection functions LSIN <sup>3)</sup>					JB					x
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB					x
<b>Versions with ground-fault protection</b>										
ETU27B: Protection functions LSING <sup>5)</sup>					DG					x
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG					x
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG					x
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG					x
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG					x
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>										
Manual operating mechanism with mechanical closing					1AA2					without
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO										

x additional price

For footnotes see page 15/13.

# 3WL Air Circuit-Breakers

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

4-pole, fixed-mounted versions

Size	Max. rated circuit-breaker current $I_n \text{ max.}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 100 kA at 500 V, high switching capacity H		Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
			kA	DT					
<b>Horizontal main circuit connections</b>									
II	800	800	100	B	3WL12 08-4□□42-....	1	1 unit	103	67.000
II	1000	1000	100	B	3WL12 10-4□□42-....	1	1 unit	103	67.000
II	1250	1250	100	B	3WL12 12-4□□42-....	1	1 unit	103	67.000
II	1600	1600	100	B	3WL12 16-4□□42-....	1	1 unit	103	67.000
II	2000	2000	100	B	3WL12 20-4□□42-....	1	1 unit	103	67.000
II	2500	2500	100	B	3WL12 25-4□□42-....	1	1 unit	103	71.000
II	3200	3200	100	B	3WL12 32-4□□42-....	1	1 unit	103	77.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□42-....	1	1 unit	103	99.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□42-....	1	1 unit	103	99.000
<b>Vertical main circuit connections</b>									
II	800	800	100	B	3WL12 08-4□□41-....	1	1 unit	103	67.000
II	1000	1000	100	B	3WL12 10-4□□41-....	1	1 unit	103	67.000
II	1250	1250	100	B	3WL12 12-4□□41-....	1	1 unit	103	67.000
II	1600	1600	100	B	3WL12 16-4□□41-....	1	1 unit	103	67.000
II	2000	2000	100	B	3WL12 20-4□□41-....	1	1 unit	103	67.000
II	2500	2500	100	B	3WL12 25-4□□41-....	1	1 unit	103	71.000
II	3200	3200	100	B	3WL12 32-4□□41-....	1	1 unit	103	77.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□41-....	1	1 unit	103	99.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□41-....	1	1 unit	103	99.000
III <sup>4)</sup>	6300	6300	100	B	3WL13 63-4□□41-....	1	1 unit	103	108.000
<b>Front main circuit connections, single hole</b>									
II	800	800	100	B	3WL12 08-4□□43-....	1	1 unit	103	67.000
II	1000	1000	100	B	3WL12 10-4□□43-....	1	1 unit	103	67.000
II	1250	1250	100	B	3WL12 12-4□□43-....	1	1 unit	103	67.000
II	1600	1600	100	B	3WL12 16-4□□43-....	1	1 unit	103	67.000
II	2000	2000	100	B	3WL12 20-4□□43-....	1	1 unit	103	67.000
II	2500	2500	100	B	3WL12 25-4□□43-....	1	1 unit	103	71.000
II	3200	3200	100	B	3WL12 32-4□□43-....	1	1 unit	103	77.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□43-....	1	1 unit	103	99.000
<b>Front main circuit connections, double hole</b>									
II	800	800	100	B	3WL12 08-4□□44-....	1	1 unit	103	67.000
II	1000	1000	100	B	3WL12 10-4□□44-....	1	1 unit	103	67.000
II	1250	1250	100	B	3WL12 12-4□□44-....	1	1 unit	103	67.000
II	1600	1600	100	B	3WL12 16-4□□44-....	1	1 unit	103	67.000
II	2000	2000	100	B	3WL12 20-4□□44-....	1	1 unit	103	67.000
II	2500	2500	100	B	3WL12 25-4□□44-....	1	1 unit	103	71.000
II	3200	3200	100	B	3WL12 32-4□□44-....	1	1 unit	103	77.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□44-....	1	1 unit	103	99.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>									
Without electronic trip unit					AA		without		
<b>Electronic trip units</b>									
<b>Versions without ground-fault protection</b>									
ETU15B: Protection functions LI <sup>4)</sup>					BB	x			
ETU25B: Protection functions LSI					CB	x			
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x			
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x			
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x			
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x			
<b>Versions with ground-fault protection</b>									
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x			
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x			
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x			
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x			
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x			
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>									
Manual operating mechanism with mechanical closing					1AA2		without		
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO									

**Footnotes for pages 5/11 to 5/13:**

- The rated current is determined by the rated current module. 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 15/18.
- For permissible short-time current rating  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic circuit-breakers, see Catalog LV 1T, Technical Specifications.
- Current transformers for protection of the neutral conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer must be ordered separately, see page 15/26. The internal transformers for neutral conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 15/20.

- Size III circuit-breakers are not available with electronic trip unit version ETU15B.
- Current transformers for protection of the neutral conductor are to be ordered separately, see page 15/26.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 15/26.

x additional price

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

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

### 4-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 50/55 kA at 500 V, ECO switching capacity N		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	A	kA	DT						kg
<b>Without guide frames (for guide frames, see page 15/24 and 15/25)</b>										
I	630	630	50	B	3WL11 06-2□□45-....		1	1 unit	103	54.000
I	800	800	50	B	3WL11 08-2□□45-....		1	1 unit	103	54.000
I	1000	1000	50	B	3WL11 10-2□□45-....		1	1 unit	103	54.000
I	1250	1250	50	B	3WL11 12-2□□45-....		1	1 unit	103	54.000
I	1600	1600	50	B	3WL11 16-2□□45-....		1	1 unit	103	54.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□45-....		1	1 unit	103	72.000
II	2500	2500	55	B	3WL12 25-2□□45-....		1	1 unit	103	76.000
II	3200	3200	--	--						
<b>With guide frames, horizontal main circuit connections</b>										
I	630	630	50	B	3WL11 06-2□□46-....		1	1 unit	103	84.000
I	800	800	50	B	3WL11 08-2□□46-....		1	1 unit	103	84.000
I	1000	1000	50	B	3WL11 10-2□□46-....		1	1 unit	103	84.000
I	1250	1250	50	B	3WL11 12-2□□46-....		1	1 unit	103	84.000
I	1600	1600	50	B	3WL11 16-2□□46-....		1	1 unit	103	84.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□46-....		1	1 unit	103	109.000
II	2500	2500	55	B	3WL12 25-2□□46-....		1	1 unit	103	123.000
II	3200	3200	--	--						
<b>With guide frames, vertical main circuit connections</b>										
I	630	630	50	B	3WL11 06-2□□47-....		1	1 unit	103	84.000
I	800	800	50	B	3WL11 08-2□□47-....		1	1 unit	103	84.000
I	1000	1000	50	B	3WL11 10-2□□47-....		1	1 unit	103	84.000
I	1250	1250	50	B	3WL11 12-2□□47-....		1	1 unit	103	84.000
I	1600	1600	50	B	3WL11 16-2□□47-....		1	1 unit	103	84.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□47-....		1	1 unit	103	109.000
II	2500	2500	55	B	3WL12 25-2□□47-....		1	1 unit	103	123.000
II	3200	3200	--	--						
<b>With guide frames, connecting flanges</b>										
I	630	630	50	B	3WL11 06-2□□48-....		1	1 unit	103	84.000
I	800	800	50	B	3WL11 08-2□□48-....		1	1 unit	103	84.000
I	1000	1000	50	B	3WL11 10-2□□48-....		1	1 unit	103	84.000
I	1250	1250	50	B	3WL11 12-2□□48-....		1	1 unit	103	84.000
I	1600	1600	50	B	3WL11 16-2□□48-....		1	1 unit	103	84.000
II	800	800	--	--						
II	1000	1000	--	--						
II	1250	1250	--	--						
II	1600	1600	--	--						
II	2000	2000	55	B	3WL12 20-2□□48-....		1	1 unit	103	109.000
II	2500	2500	55	B	3WL12 25-2□□48-....		1	1 unit	103	123.000
II	3200	3200	--	--						
<b>Non-automatic circuit-breakers<sup>2)</sup></b>										
Without electronic trip unit					Order No. supplements	Additional price				
					AA	without				
<b>Electronic trip units</b>										
<b>Versions without ground-fault protection</b>										
ETU15B: Protection functions LI					BB	x				
ETU25B: Protection functions LSI					CB	x				
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x				
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x				
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x				
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x				
<b>Versions with ground-fault protection</b>										
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x				
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x				
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x				
<b>Standard Order No. supplements (for further Order No. supplements for circuit-breakers and guide frames, see page 15/17)</b>										
Manual operating mechanism with mechanical closing					1AA2	without				
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO										

x additional price

For footnotes see page 15/16.

# 3WL Air Circuit-Breakers

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

4-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_{n\max}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 65/80 kA at 500 V, standard switching capacity S		Order No. For Order No. supplements, see page 15/17	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
<b>Without guide frames (for guide frames, see page 15/24 and 15/25)</b>										
I	630	630	65	B	3WL11 06-3□□45-....		1	1 unit	103	54.000
I	800	800	65	B	3WL11 08-3□□45-....		1	1 unit	103	54.000
I	1000	1000	65	B	3WL11 10-3□□45-....		1	1 unit	103	54.000
I	1250	1250	65	B	3WL11 12-3□□45-....		1	1 unit	103	54.000
I	1600	1600	65	B	3WL11 16-3□□45-....		1	1 unit	103	54.000
II	800	800	80	B	3WL12 08-3□□45-....		1	1 unit	103	72.000
II	1000	1000	80	B	3WL12 10-3□□45-....		1	1 unit	103	72.000
II	1250	1250	80	B	3WL12 12-3□□45-....		1	1 unit	103	72.000
II	1600	1600	80	B	3WL12 16-3□□45-....		1	1 unit	103	72.000
II	2000	2000	80	B	3WL12 20-3□□45-....		1	1 unit	103	72.000
II	2500	2500	80	B	3WL12 25-3□□45-....		1	1 unit	103	76.000
II	3200	3200	80	B	3WL12 32-3□□45-....		1	1 unit	103	82.000
<b>With guide frames, horizontal main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□46-....		1	1 unit	103	84.000
I	800	800	65	B	3WL11 08-3□□46-....		1	1 unit	103	84.000
I	1000	1000	65	B	3WL11 10-3□□46-....		1	1 unit	103	84.000
I	1250	1250	65	B	3WL11 12-3□□46-....		1	1 unit	103	84.000
I	1600	1600	65	B	3WL11 16-3□□46-....		1	1 unit	103	84.000
II	800	800	80	B	3WL12 08-3□□46-....		1	1 unit	103	109.000
II	1000	1000	80	B	3WL12 10-3□□46-....		1	1 unit	103	109.000
II	1250	1250	80	B	3WL12 12-3□□46-....		1	1 unit	103	109.000
II	1600	1600	80	B	3WL12 16-3□□46-....		1	1 unit	103	109.000
II	2000	2000	80	B	3WL12 20-3□□46-....		1	1 unit	103	109.000
II	2500	2500	80	B	3WL12 25-3□□46-....		1	1 unit	103	123.000
II	3200	3200	80	B	3WL12 32-3□□46-....		1	1 unit	103	136.000
<b>With guide frames, vertical main circuit connections</b>										
I	630	630	65	B	3WL11 06-3□□47-....		1	1 unit	103	84.000
I	800	800	65	B	3WL11 08-3□□47-....		1	1 unit	103	84.000
I	1000	1000	65	B	3WL11 10-3□□47-....		1	1 unit	103	84.000
I	1250	1250	65	B	3WL11 12-3□□47-....		1	1 unit	103	84.000
I	1600	1600	65	B	3WL11 16-3□□47-....		1	1 unit	103	84.000
II	800	800	80	B	3WL12 08-3□□47-....		1	1 unit	103	109.000
II	1000	1000	80	B	3WL12 10-3□□47-....		1	1 unit	103	109.000
II	1250	1250	80	B	3WL12 12-3□□47-....		1	1 unit	103	109.000
II	1600	1600	80	B	3WL12 16-3□□47-....		1	1 unit	103	109.000
II	2000	2000	80	B	3WL12 20-3□□47-....		1	1 unit	103	109.000
II	2500	2500	80	B	3WL12 25-3□□47-....		1	1 unit	103	123.000
II	3200	3200	80	B	3WL12 32-3□□47-....		1	1 unit	103	136.000
<b>With guide frames, connecting flanges</b>										
I	630	630	65	B	3WL11 06-3□□48-....		1	1 unit	103	84.000
I	800	800	65	B	3WL11 08-3□□48-....		1	1 unit	103	84.000
I	1000	1000	65	B	3WL11 10-3□□48-....		1	1 unit	103	84.000
I	1250	1250	65	B	3WL11 12-3□□48-....		1	1 unit	103	84.000
I	1600	1600	65	B	3WL11 16-3□□48-....		1	1 unit	103	84.000
II	800	800	80	B	3WL12 08-3□□48-....		1	1 unit	103	109.000
II	1000	1000	80	B	3WL12 10-3□□48-....		1	1 unit	103	109.000
II	1250	1250	80	B	3WL12 12-3□□48-....		1	1 unit	103	109.000
II	1600	1600	80	B	3WL12 16-3□□48-....		1	1 unit	103	109.000
II	2000	2000	80	B	3WL12 20-3□□48-....		1	1 unit	103	109.000
II	2500	2500	80	B	3WL12 25-3□□48-....		1	1 unit	103	123.000
II	3200	3200	80	B	3WL12 32-3□□48-....		1	1 unit	103	136.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>										
					Order No. supplements	Additional price				
Without electronic trip unit					AA	without				
<b>Electronic trip units</b>										
<b>Versions without ground-fault protection</b>										
ETU15B: Protection functions LI					BB	x				
ETU25B: Protection functions LSI					CB	x				
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x				
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x				
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x				
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x				
<b>Versions with ground-fault protection</b>										
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x				
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x				
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x				
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x				
<b>Standard Order No. supplements (for further Order No. supplements for circuit-breakers and guide frames, see page 15/17)</b>										
Manual operating mechanism with mechanical closing					1AA2	without				
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO										

x additional price

For footnotes see page 15/16.

\* You can order this quantity or a multiple thereof.

Siemens LV 1 · 2006

15/15

# 3WL Air Circuit-Breakers

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

### 4-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_n \text{ max.}$	Rated current <sup>1)</sup> $I_n$	$I_{cu}$ up to 100 kA at 500 V, high switching capacity H		Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
<b>Without guide frames (for guide frames, see page 15/24 and 15/25)</b>									
II	800	800	100	B	3WL12 08-4□□45-....	1	1 unit	103	72.000
II	1000	1000	100	B	3WL12 10-4□□45-....	1	1 unit	103	72.000
II	1250	1250	100	B	3WL12 12-4□□45-....	1	1 unit	103	72.000
II	1600	1600	100	B	3WL12 16-4□□45-....	1	1 unit	103	72.000
II	2000	2000	100	B	3WL12 20-4□□45-....	1	1 unit	103	72.000
II	2500	2500	100	B	3WL12 25-4□□45-....	1	1 unit	103	76.000
II	3200	3200	100	B	3WL12 32-4□□45-....	1	1 unit	103	82.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□45-....	1	1 unit	103	106.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□45-....	1	1 unit	103	106.000
III <sup>4)</sup>	6300	6300	100	B	3WL13 63-4□□45-....	1	1 unit	103	108.000
<b>With guide frames, horizontal main circuit connections</b>									
II	800	800	100	B	3WL12 08-4□□46-....	1	1 unit	103	109.000
II	1000	1000	100	B	3WL12 10-4□□46-....	1	1 unit	103	109.000
II	1250	1250	100	B	3WL12 12-4□□46-....	1	1 unit	103	109.000
II	1600	1600	100	B	3WL12 16-4□□46-....	1	1 unit	103	109.000
II	2000	2000	100	B	3WL12 20-4□□46-....	1	1 unit	103	109.000
II	2500	2500	100	B	3WL12 25-4□□46-....	1	1 unit	103	123.000
II	3200	3200	100	B	3WL12 32-4□□46-....	1	1 unit	103	136.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□46-....	1	1 unit	103	190.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□46-....	1	1 unit	103	190.000
<b>With guide frames, vertical main circuit connections</b>									
II	800	800	100	B	3WL12 08-4□□47-....	1	1 unit	103	109.000
II	1000	1000	100	B	3WL12 10-4□□47-....	1	1 unit	103	109.000
II	1250	1250	100	B	3WL12 12-4□□47-....	1	1 unit	103	109.000
II	1600	1600	100	B	3WL12 16-4□□47-....	1	1 unit	103	109.000
II	2000	2000	100	B	3WL12 20-4□□47-....	1	1 unit	103	109.000
II	2500	2500	100	B	3WL12 25-4□□47-....	1	1 unit	103	123.000
II	3200	3200	100	B	3WL12 32-4□□47-....	1	1 unit	103	136.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□47-....	1	1 unit	103	190.000
III <sup>4)</sup>	5000	5000	100	B	3WL13 50-4□□47-....	1	1 unit	103	190.000
III <sup>4)</sup>	6300	6300	100	B	3WL13 63-4□□47-....	1	1 unit	103	227.000
<b>With guide frames, connecting flanges</b>									
II	800	800	100	B	3WL12 08-4□□48-....	1	1 unit	103	109.000
II	1000	1000	100	B	3WL12 10-4□□48-....	1	1 unit	103	109.000
II	1250	1250	100	B	3WL12 12-4□□48-....	1	1 unit	103	109.000
II	1600	1600	100	B	3WL12 16-4□□48-....	1	1 unit	103	109.000
II	2000	2000	100	B	3WL12 20-4□□48-....	1	1 unit	103	109.000
II	2500	2500	100	B	3WL12 25-4□□48-....	1	1 unit	103	123.000
II	3200	3200	100	B	3WL12 32-4□□48-....	1	1 unit	103	136.000
III <sup>4)</sup>	4000	4000	100	B	3WL13 40-4□□48-....	1	1 unit	103	190.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>					Order No. supplements	Additional price			
Without electronic trip unit					AA	without			
<b>Electronic trip units</b>									
<b>Versions without ground-fault protection</b>									
ETU15B: Protection functions LI <sup>4)</sup>					BB	x			
ETU25B: Protection functions LSI					CB	x			
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x			
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x			
ETU55B: Protection functions LSIN <sup>3)</sup>					JB	x			
ETU76B: Protection functions LSIN <sup>3)</sup> with pixel graphics display					NB	x			
<b>Versions with ground-fault protection</b>									
ETU27B: Protection functions LSING <sup>5)</sup>					DG	x			
ETU45B: Protection functions LSING <sup>3)6)</sup>					EG	x			
ETU45B: Protection functions LSING <sup>3)6)</sup> with 4-line display					FG	x			
ETU55B: Protection functions LSING <sup>3)6)</sup>					JG	x			
ETU76B: Protection functions LSING <sup>3)6)</sup> with pixel graphics display					NG	x			
<b>Standard Order No. supplements (for further Order No. supplements for circuit-breakers and guide frames, see page 15/17)</b>									
Manual operating mechanism with mechanical closing					1AA2	without			
Without 1st and 2nd auxiliary trip units; auxiliary switch 2 NC + 2 NO									

#### Footnotes for pages 15/14 to 15/16:

- The rated current is determined by the rated current module. 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 15/18.
- For permissible short-time current rating  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic circuit-breakers, see Catalog LV 1T, Technical Specifications.

- Current transformers for protection of the neutral conductor and current transformers for detection of the ground-fault current in the grounded neutral point of the transformer must be ordered separately, see page 15/26. The internal transformers for neutral conductors can be ordered by adding the supplement "-Z" and order code "F23", see page 15/20.
- Size III circuit-breakers are not available with electronic trip unit version ETU15B.
- Current transformers for protection of the neutral conductor are to be ordered separately, see page 15/26.
- ETU45B to ETU76B with ground-fault protection module GFM AT (alarm and tripping), see page 15/26.

x additional price



# 3WL Air Circuit-Breakers

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

Options

### Selection and ordering data

	Order No. supplement		Additional price
<b>3WL 1 . . . . .</b>			
<b>Operating mechanism</b>			
<b>Manual operating mechanism with mechanical closing</b>	<b>1</b>		without
<b>Manual operating mechanism with mechanical and electrical closing, closing solenoid suitable for continuous duty, 100 % ON-time</b>			
Closing solenoid			
50/60 Hz V AC   V DC			
110   110	<b>2</b>		x
230   220	<b>3</b>		x
<b>Manual/motorized operating mechanism with mechanical and electrical closing, closing solenoid suitable for continuous duty, 100 % ON-time</b>			
Motor   Closing solenoid			
50/60 Hz V AC   V DC   50/60 Hz V AC   V DC			
208-240   220-250   230   220	<b>4</b>		x
110-127   110-125   110   110	<b>5</b>		x
-   24   -   24	<b>6</b>		x
To order different voltages for motorized operating mechanism and closing solenoid: "*" at the 13th digit of the Order No. and order codes, see page 15/19.			
<b>1st auxiliary trip unit</b>			
<b>Without 1st auxiliary trip unit</b>	<b>A</b>		without
<b>Shunt trip unit suitable for continuous duty, 100 % ON-time</b>			
50/60 Hz V AC   V DC			
-   24	<b>B</b>		x
-   30	<b>C</b>		x
-   48	<b>D</b>		x
-   60	<b>E</b>		x
110   110	<b>F</b>		x
230   220	<b>G</b>		x
<b>2nd auxiliary trip unit</b>			
<b>Without 2nd auxiliary trip unit</b>	<b>A</b>		without
<b>Shunt trip unit suitable for continuous duty, 100 % ON-time</b>			
50/60 Hz V AC   V DC			
-   24	<b>B</b>		x
-   30	<b>C</b>		x
-   48	<b>D</b>		x
-   60	<b>E</b>		x
110   110	<b>F</b>		x
230   220	<b>G</b>		x
<b>Undervoltage trip unit, instantaneous (<math>\leq 80</math> ms), short-delay (<math>\leq 200</math> ms)</b>			
50/60 Hz V AC   V DC			
-   24	<b>J</b>		x
-   30	<b>K</b>		x
-   48	<b>L</b>		x
-   60	<b>U</b>		x
110-127   110-125	<b>M</b>		x
208-240   220-250	<b>N</b>		x
380-415   -	<b>P</b>		x
<b>Undervoltage trip unit, can be delayed between 0.2 s and 3.2 s</b>			
50/60 Hz V AC   V DC			
-   48	<b>Q</b>		x
110-127   110-125	<b>R</b>		x
208-240   220-250	<b>S</b>		x
380-415   -	<b>T</b>		x
<b>Auxiliary switch</b>			
1st auxiliary switch block 2 NO +2 NC	<b>2</b>		without
1st + 2nd auxiliary switch block 4 NO +4 NC	<b>4</b>		x
6 NO +2 NC	<b>7</b>		x
5 NO +3 NC	<b>8</b>		x

x additional price

15

# 3WL Air Circuit-Breakers

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

### Options

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

Order code

Order No. with "-Z"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

3WL . . . . . - Z

and additional order code(s)

□□□ + . . . . .

Code for "Further versions"

Additional price

-Z

#### Operator's guide

Printed version

French/italian

A11

□□□

Spanish/Portuguese

A12

#### Rated voltage 1000 V AC/DC

Only for circuit-breakers with high switching capacity (8th digit of the Order No. is a "4")

Additional price 3-pole  
Additional price 4-pole

Size II<sup>4)</sup>

Up to 2000 A  
Up to 2500 A  
Up to 3200 A

A05

□□□

Size III<sup>4)</sup>

Up to 4000 A  
Up to 5000 A  
Up to 6300 A

#### Rated current modules / Rating plugs

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 overcurrent releases are equipped with a rated current module which is equal to the maximum rated circuit-breaker current ( $I_{n \max}$ ). The rated current of the selected rated current module must be smaller than  $I_{n \max}$ .

For size I, II

250

B02

B03

B04

B05

B06

B08

B10

B12

For size I, II, III

1250

B16

B20

For size II, III

2000

B25

B32

For size III

4000

B40

B50

6300

B63

#### Indication/operator control elements, door sealing frames

5-digit mechanical operating cycles counter<sup>1)</sup>

C01

□□□□□

Electrical ON button in the operator control panel<sup>2)</sup> possible only for circuit-breakers with closing solenoid

Button with sealing cap

C11

□□□□□

Key operation with lock CES

C12

□□□□□

Storage status signaling switches<sup>2)</sup> (S21)

1 NO contact

C20

□□□□□

Ready-to-close signaling switches (S20)

1 NO contact

C22

□□□□□

Signaling switches<sup>2)</sup>

For the first auxiliary trip unit (S22)

C26

□□□□□

For the second auxiliary trip unit (S23)

C27

□□□□□

Motor shutdown switches in the operator control panel<sup>3)</sup>

S25

□□□□□

EMERGENCY-STOP buttons

Mushroom-head pushbutton instead of the mechanical OFF button

S24

□□□□□

Door sealing frames

T40

□□□□□

1) Only possible with motorized operating mechanism.

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

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

4) If ordering withdrawable circuit-breaker and guide frame separately, specify order code "A05" for withdrawable circuit-breaker and guide frame.

# 3WL Air Circuit-Breakers

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

### Options

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

Order code      Order No. with "-Z"  
1 2 3 4 5 6 7      8 9 10 11 12      13 14 15 16  
**3WL** . . . . . - - . . . . . - - . . . . . - **Z**  
 and additional order code(s)  
 □□□ + . . . . . + . . . . .  
 Code for "Further versions"      **-Z**

Additional price

#### Lockout devices and remote resets

##### Automatic reset of the lockout device

**K01**      □□□

##### Tripped signaling switches<sup>1)</sup>      1 CO contact

**K07**      □□□

##### Remote reset solenoid for displays and reset buttons including automatic reset of the lockout device

50/60 Hz V AC	V DC
-	24
120	125
220-240	250

**K10**      □□□  
**K12**      □□□  
**K13**      □□□

#### Motorized operating mechanisms and closing/opening solenoids

##### Motorized operating mechanisms

Only possible if the 13th digit of the Order No. = "1"

50/60 Hz V AC	V DC
-	24-30
-	48-60
110-127	110-125
208-240	220-250

**M01**      □□□  
**M03**      □□□  
**M05**      □□□  
**M06**      □□□

##### Closing solenoids suitable for continuous duty, 100 % ON-time – Only possible if the 13th digit of the Order No. = "1"

50/60 Hz V AC	V DC
-	24
-	30
-	48
-	60
110	110
230	220

**M21**      □□□  
**M22**      □□□  
**M23**      □□□  
**M24**      □□□  
**M25**      □□□  
**M26**      □□□

##### Closing solenoids<sup>2)</sup> – unsuitable for continuous duty, 5 % ON-time – Only possible if the 13th digit of the Order No. = "1"

50/60 Hz V AC	V DC
-	24
-	48
110-127	110-125
208-240	220-250

**M31**      □□□  
**M33**      □□□  
**M35**      □□□  
**M36**      □□□

##### Opening solenoids (shunt trip unit) – unsuitable for continuous duty, 5 % ON-time

50/60 Hz V AC	V DC
-	24
-	48
110-127	110-125
208-240	220-250

**M41**      □□□  
**M43**      □□□  
**M45**      □□□  
**M46**      □□□

#### Communication and measurement functions

##### Breaker status sensor (BSS) connections

**PROFIBUS communications interfaces<sup>3)</sup>**  
 including COM15 and breaker status sensor (BSS)

**F01**      □□□  
**F02**      □□□

**Measurement function Plus (without PROFIBUS communications interface<sup>4)</sup>)**

**F05**      □□□

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

2) Overexcited, i.e. closing time 25 ms (standard 60 ms).

3) If ordering withdrawable circuit-breaker and guide frame separately, specify order code "F02" for withdrawable circuit-breaker only.

4) Additional voltage transformers are required for connection of the measurement function Plus, see page 15/32.

# 3WL Air Circuit-Breakers

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

### Options

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

Order No. with "-Z"  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
 3WL . . . . . -Z  
 and additional order code(s)

	Order code for fixed-mounted version	Code for "Further versions"	Order code for withdrawable version	Additional price
--	--------------------------------------	-----------------------------	-------------------------------------	------------------

#### Interlocks, covers, position indicator switches

<b>Mutual mechanical interlockings</b> (interlocking module with Bowden wire 2 m)	Fixed-mounted circuit-breaker	S 5 5	□ □ □	-	
	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	3-pole Size I	--		R 1 0	
	Size II	--		R 1 0	
	Size III	--		R 1 0	
	4-pole Size I	--		R 1 0	
	Size II	--		R 1 0	
	Size III	--		R 1 0	
<b>Shutters</b> 2-part Lockable with padlocks <sup>1)</sup>	3-pole Size I	--		R 2 1	
	Size II	--		R 2 1	
	Size III	--		R 2 1	
	4-pole Size I	--		R 2 1	
	Size II	--		R 2 1	
	Size III	--		R 2 1	
<b>Position indicator switches for guide frames</b>	Connected position	Test position	Disconn. position		
	1 CO	1 CO	1 CO	--	R 1 5
	3 CO	2 CO	1 CO	--	R 1 6

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

Order code  
 Order No. with "-Z"  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
 3WL . . . . . -Z  
 and additional order code(s)  
 □ □ □ + . . . . + . . . .

Additional price

#### Overload and short-circuit protection for neutral conductors

<b>Internal transformers for neutral conductors</b> Only possible with 4-pole circuit-breakers with ETU27B to ETU76B	Size I	F 2 3	□ □ □	
	Size II			
	Size III			
<b>Protection of the neutral conductors only under single-pole loads</b>	Only possible with 4-pole circuit-breaker with ETU27B to ETU76B, internal transformer for neutral conductor protection included	F 3 0	□ □ □	
	Size I			
	Size II			
	Size III			

#### EMC filters

<b>EMC filters</b>	Common-mode interference suppression filters (e.g. in IT networks, caused by frequency converters)	F 3 1	□ □ □	
	Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB.			

1) Padlocks not included in scope of supply.

# 3WL Air Circuit-Breakers

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

### Options

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

Order code      Order No. with "-Z"  
 1 2 3 4 5 6 7    8 9 10 11 12    13 14 15 16  
 3WL . . . . . -Z  
 and additional order code(s)  
 □□□

Order code for fixed-mounted version	Code for "Further versions" -Z	Additional price for fixed-mounted version	Order code for withdrawable version	Additional price for withdrawable version
--------------------------------------	--------------------------------	--	-------------------------------------	---

#### Locking devices

##### Locking devices against unauthorized closing, in the operator control panels

The disconnecter unit fulfills the requirements for main circuit-breakers according to EN 60204 (VDE 0113)

- Made by CES
- Made by IKON
- Mounting set FORTRESS or Castell<sup>1)</sup>
- Mounting set for padlocks<sup>2)</sup>
- Made by Ronis
- Made by Profalux

- S01
- S03
- S05
- S07
- S08
- S09

- S01
- S03
- S05
- S07
- S08
- S09

##### EMERGENCY-STOP buttons

Mushroom-head pushbutton instead of the mechanical OFF button

- S24

- S24

##### Locking devices against unauthorized closing, for withdrawable circuit-breakers

The disconnecter unit fulfills the requirements for main circuit-breakers according to EN 60204 (VDE 0113), consisting of a lock in the cabinet door, active in the connected position; the function is retained when the circuit-breaker is replaced

- Made by CES
- Made by Ronis
- Made by Profalux

- 
- 
- 

- R61
- R68
- R60

##### Locking devices for operating mechanism handles with padlock<sup>2)</sup>

- S33

- S33

##### Locking devices to prevent movement of the withdrawable circuit-breakers

Safety lock for mounting on the circuit-breaker

- Made by CES
- Made by Profalux
- Made by Ronis

- 
- 
- 

- S71
- S75
- S76

#### Blocking mechanisms

##### Blocking devices to prevent movement of the withdrawable circuit-breakers in disconnected positions,

consisting of Bowden wire and lock in the cabinet door

- Made by CES
- Made by Profalux
- Made by Ronis

- 
- 
- 

- R81
- R85
- R86

##### Blocking devices

To prevent opening of the cabinet door in:  
 ON position (fixed mounted version)/  
 in connected position (withdrawable version)  
 To prevent movement with the cabinet door open

- S30

- R30

- R50

#### Connection systems for auxiliary conductors

##### Connections for screwless terminals (tension spring)

- N61

- P61

1) Locks must be ordered from the manufacturer.  
 2) Padlock not included in the scope of supply.

# 3WL Air Circuit-Breakers

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

### Options

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

Order code

Order No. with "-Z"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
**3WL** . . . . . -Z  
 and additional order code(s)

□□□

Code for "Further versions"

-Z

#### For withdrawable circuit-breakers with guide frames or guide frames

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

Order code for 3-pole and 4-pole

Additional price 3-pole

Additional price 4-pole

#### Connection systems for main circuit connections

Top and bottom:  
 Accessible from front, single hole  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A

P|0|0

Top and bottom:  
 Accessible from front, double hole  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A

P|0|1

Top:  
 Rear horizontal, double hole  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Size II, up to 2500 A  
 Bottom:  
 Accessible from front, single hole  
 Size II, up to 3200 A  
 Size III, up to 4000 A

P|0|7

Top:  
 Rear vertical  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Bottom:  
 Rear horizontal  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A  
 Size III, up to 5000 A

P|1|8

Top:  
 Connecting flange  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Bottom:  
 Rear horizontal  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A

P|1|9

Top:  
 Rear horizontal  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Bottom:  
 Rear vertical  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A  
 Size III, up to 5000 A

P|2|3

#### For fixed-mounted circuit-breakers

To select this connection system the 12th digit of the Order No. for the circuit-breaker must be a "2"

Order code for 3-pole and 4-pole

Additional price 3-pole

Additional price 4-pole

#### Connection systems for main circuit connections

Top:  
 Rear horizontal  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Bottom:  
 Accessible from front, single hole  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A

N|1|1

Top:  
 Rear vertical  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Bottom:  
 Front horizontal  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A  
 Size III, up to 5000 A

N|2|0

Top:  
 Rear horizontal  
 Size I, up to 1600 A  
 Size II, up to 2000 A  
 Bottom:  
 Rear vertical  
 Size II, up to 2500 A  
 Size II, up to 3200 A  
 Size III, up to 4000 A  
 Size III, up to 5000 A

N|2|4

15

# 3WL Air Circuit-Breakers

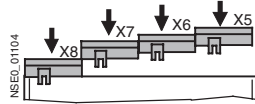
## 3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers up to 6300 A (AC)

### Accessories/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 trip units
- Number of auxiliary switches
- COM15 communication link

		Number of auxiliary supply connectors	Terminal
<b>a</b>	<b>First auxiliary supply connector X6 always required.</b>	<b>1</b>	X6
<b>b</b>	<b>Operating mechanisms</b>		
b1	Manual operating mechanism with stored-energy feature mechanical closing	<b>0</b>	
b2	Manual operating mechanism with stored-energy feature with mechanical and electrical closing	<b>0</b>	X6
b3	Manual/motorized operating mechanism with stored-energy feature with mechanical and electrical closing	<b>+1</b>	X5
<b>c</b>	<b>Electronic trip unit</b>		
c1	Electronic trip unit ETU15B, ETU25B, ETU27B	<b>0</b>	
c2	Electronic trip unit ETU45B, ETU55B, ETU76B (internal CubicleBUS)	<b>+1</b>	X8
	Connections for external current transformers for overload protection in the neutral conductor and ground-fault protection		
c3	Current transformer installed in the neutral 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</b>	<b>Auxiliary trip units</b>		
d1	With/Without 1st auxiliary trip unit (shunt trip unit F1)	<b>0</b>	X6
d2	2nd auxiliary trip unit (shunt trip unit F2, undervoltage trip unit F3, delayable undervoltage trip unit F4)	<b>+1</b>	X5
<b>e</b>	<b>Auxiliary switch blocks</b>		
e1	1st auxiliary switch block 2 NO + 2 NC	<b>0</b>	X6
e2	1st and 2nd auxiliary switch block 4 NO + 4 NC or 6 NO + 2 NC or 5 NO + 3 NC (required if b3 or d2 is not selected)	<b>+1</b>	X5
<b>f</b>	<b>Communications modules</b>		
f1	Without communications module COM15	<b>0</b>	
f2	With communications module COM15 – occupies the entire terminal block X7, making the following options no longer possible: <ul style="list-style-type: none"> <li>• Tripped signaling switch S24</li> <li>• Stored-energy status indication S21</li> <li>• Electrical ON button S10</li> <li>• Signaling switch on first and second auxiliary trip unit S22 + S23</li> </ul>	<b>+1</b>	X7
<b>g</b>	<b>Optional signals/accessories</b>		
g1	Tripped signaling switch S24 (only possible if f2 is not selected)	<b>+1</b>	X7
g2	Stored-energy status indication S21 (only possible if f2 is not selected, required if g1 is not selected)	<b>+1</b>	X7
g3	Electrical ON button S10 (only possible if f2 is not selected, required if g1 or g2 is not selected)	<b>+1</b>	X7
g4	Signaling switch on first auxiliary trip unit S22 (only possible if f2 is not selected, required if g1, g2 or g3 is not selected)	<b>+1</b>	X7
g5	Signaling switch on second auxiliary trip unit S23 (only possible if f2 is not selected, required if g1, g2, g3 or g4 is not selected)	<b>+1</b>	X7
g6	Ready-to-close signaling switch S20	<b>0</b>	X6
g7	Motor shutdown switch S12 (only possible if motorized operating mechanism is selected)	<b>0</b>	X5
g8	Remote reset magnet F7 (required if c2 is not selected)	<b>+1</b>	X8
<b>h</b>	<b>Total number of auxiliary supply connectors</b>	<b>(max. 4)</b>	

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

#### Selection and ordering data

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

Size	Max. rated circuit-breaker current $I_n$ max.	DT	Guide frames for 3-pole circuit-breakers/non-automatic circuit-breakers				
			Order No. (Order No. supplements required according to table below)	Basic price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Front main circuit connections, single hole</b>							
I	1000	B	3WL9 211-1AA□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 211-2AA□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 212-3AA□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 212-4AA□□-□□A 1		1	1 unit	103 39.000
II	3200	B	3WL9 212-5AA□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 213-6AA□□-□□A 1		1	1 unit	103 60.000
<b>Front main circuit connections, double hole</b>							
I	1000	B	3WL9 211-1AB□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 211-2AB□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 212-3AB□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 212-4AB□□-□□A 1		1	1 unit	103 39.000
II	3200	B	3WL9 212-5AB□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 213-6AB□□-□□A 1		1	1 unit	103 60.000
<b>Horizontal main circuit connections</b>							
I	1000	B	3WL9 211-1AC□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 211-2AC□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 212-3AC□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 212-4AC□□-□□A 1		1	1 unit	103 39.000
II	3200	B	3WL9 212-5AC□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 213-6AC□□-□□A 1		1	1 unit	103 60.000
III	5000	B	3WL9 213-7AC□□-□□A 1		1	1 unit	103 60.000
<b>Vertical main circuit connections</b>							
I	1000	B	3WL9 211-1AD□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 211-2AD□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 212-3AD□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 212-4AD□□-□□A 1		1	1 unit	103 39.000
II	3200	B	3WL9 212-5AD□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 213-6AD□□-□□A 1		1	1 unit	103 60.000
III	5000	B	3WL9 213-7AD□□-□□A 1		1	1 unit	103 60.000
III	6300	B	3WL9 213-8AD□□-□□A 1		1	1 unit	103 70.000
<b>Main circuit connection connecting flanges</b>							
I	1000	B	3WL9 211-1AE□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 211-2AE□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 212-3AE□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 212-4AE□□-□□A 1		1	1 unit	103 39.000
II	3200	B	3WL9 212-5AE□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 213-6AE□□-□□A 1		1	1 unit	103 60.000

Add "-Z" to the complete Order No. and indicate the appropriate order code(s). Order No. with "-Z" and additional order code **3WL9 2 1 . . . . . -Z**

Rated voltage 1000 V AC **A|0|5**

x additional price **A|0|5**

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 15/18 to 15/22.

\* You can order this quantity or a multiple thereof.

15



# 3WL Air Circuit-Breakers

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

**Accessories/spare parts**

Size	Max. rated circuit-breaker current  $I_{n\ max.}$  A	DT	Guide frames for 4-pole circuit-breakers/non-automatic circuit-breakers					
			Order No. (Order No. supplements required according to table below)	Basic price	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Front main circuit connections, single hole</b>								
I	1000	B	3WL9 211-1BA□□-□□A 1		1	1 unit	103	30.000
I	1600	B	3WL9 211-2BA□□-□□A 1		1	1 unit	103	30.000
II	2000	B	3WL9 212-3BA□□-□□A 1		1	1 unit	103	37.000
II	2500	B	3WL9 212-4BA□□-□□A 1		1	1 unit	103	47.000
II	3200	B	3WL9 212-5BA□□-□□A 1		1	1 unit	103	54.000
III	4000	B	3WL9 213-6BA□□-□□A 1		1	1 unit	103	84.000
<b>Front main circuit connections, double hole</b>								
I	1000	B	3WL9 211-1BB□□-□□A 1		1	1 unit	103	30.000
I	1600	B	3WL9 211-2BB□□-□□A 1		1	1 unit	103	30.000
II	2000	B	3WL9 212-3BB□□-□□A 1		1	1 unit	103	37.000
II	2500	B	3WL9 212-4BB□□-□□A 1		1	1 unit	103	47.000
II	3200	B	3WL9 212-5BB□□-□□A 1		1	1 unit	103	54.000
III	4000	B	3WL9 213-6BB□□-□□A 1		1	1 unit	103	84.000
<b>Horizontal main circuit connections</b>								
I	1000	B	3WL9 211-1BC□□-□□A 1		1	1 unit	103	30.000
I	1600	B	3WL9 211-2BC□□-□□A 1		1	1 unit	103	30.000
II	2000	B	3WL9 212-3BC□□-□□A 1		1	1 unit	103	37.000
II	2500	B	3WL9 212-4BC□□-□□A 1		1	1 unit	103	47.000
II	3200	B	3WL9 212-5BC□□-□□A 1		1	1 unit	103	54.000
III	4000	B	3WL9 213-6BC□□-□□A 1		1	1 unit	103	84.000
III	5000	B	3WL9 213-7BC□□-□□A 1		1	1 unit	103	84.000
<b>Vertical main circuit connections</b>								
I	1000	B	3WL9 211-1BD□□-□□A 1		1	1 unit	103	30.000
I	1600	B	3WL9 211-2BD□□-□□A 1		1	1 unit	103	30.000
II	2000	B	3WL9 212-3BD□□-□□A 1		1	1 unit	103	37.000
II	2500	B	3WL9 212-4BD□□-□□A 1		1	1 unit	103	47.000
II	3200	B	3WL9 212-5BD□□-□□A 1		1	1 unit	103	54.000
III	4000	B	3WL9 213-6BD□□-□□A 1		1	1 unit	103	84.000
III	5000	B	3WL9 213-7BD□□-□□A 1		1	1 unit	103	84.000
III	6300	B	3WL9 213-8BD□□-□□A 1		1	1 unit	103	119.000
<b>Main circuit connection connecting flanges</b>								
I	1000	B	3WL9 211-1BE□□-□□A 1		1	1 unit	103	30.000
I	1600	B	3WL9 211-2BE□□-□□A 1		1	1 unit	103	30.000
II	2000	B	3WL9 212-3BE□□-□□A 1		1	1 unit	103	37.000
II	2500	B	3WL9 212-4BE□□-□□A 1		1	1 unit	103	47.000
II	3200	B	3WL9 212-5BE□□-□□A 1		1	1 unit	103	54.000
III	4000	B	3WL9 213-6BE□□-□□A 1		1	1 unit	103	84.000
<b>Number of auxiliary supply connectors</b>								<b>Add. price without</b>
None				0				without
1 connector				1				x
2 connectors				2				x
3 connectors				3				x
4 connectors				4				x
For required number of auxiliary supply connectors, see table on page 15/23								
<b>Type of auxiliary circuit connections</b>								
None				0				without
With screw-type terminals (SIGUT)				1				x
With screwless connection system (tension spring)				2				x
<b>Position indicator switches</b>								
None				0				without
Option 1			Connected position 1 CO contact, test position 1 CO contact, disconnected position 1 CO cont.	1				x
Option 2			Connected position 3 CO cont., test position 2 CO contacts, disconnected position 1 CO cont.	2				x
<b>Shutters</b>								
None				A				without
With shutter, 2-part, lockable			Size I Size II Size III	B				x
Add "-Z" to the complete Order No. and indicate the appropriate order code(s).			Order No. with "-Z" and additional order code		1 2 3 4 5 6 7	8 9 10 11 12	13 14 15 16	<b>3WL9 2 1 . . . . . -Z</b> □□□
Rated voltage 1000 V AC								<b>A 0 5</b>
			Size I Size II					

15

x additional price


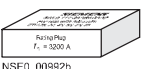


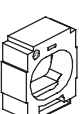
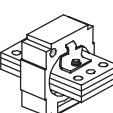
All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 15/18 to 15/22.

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>ETU electronic trip units and measurement function options</b>							
 NSE0_01810	With protection function	Measurement function					
<b>ETU15B</b>	LI	None	C	<b>3WL9 311-5AA00-0AA1</b>	1	103	On req.
<b>ETU25B</b>	LSI	None	C	<b>3WL9 312-5AA00-0AA1</b>	1	103	On req.
<b>ETU27B</b>	LSING	None	C	<b>3WL9 312-7AA00-0AA1</b>	1	103	On req.
<b>ETU45B</b> (without display)	LSIN(G)	None	C	<b>3WL9 314-5AA00-0AA1</b>	1	103	On req.
		With measurement function <i>Plus</i>	C	<b>3WL9 314-5AA20-0AA1</b>	1	103	On req.
<b>ETU55B</b>	LSIN(G)	None	C	<b>3WL9 315-5AA00-0AA1</b>	1	103	On req.
		With measurement function <i>Plus</i>	C	<b>3WL9 315-5AA20-0AA1</b>	1	103	On req.
<b>ETU76B</b>	LSIN(G)	None	C	<b>3WL9 317-6AA00-0AA1</b>	1	103	On req.
		With measurement function <i>Plus</i>	C	<b>3WL9 317-6AA20-0AA1</b>	1	103	On req.
<b>Rated current modules / Rating Plug<sup>1)</sup></b>							
		Rated current $I_n$ (A)					
 NSE0_0092b 3WL9 111-0AA64-0AA0	For size I, II	250	B	<b>3WL9 111-0AA51-0AA0</b>	1	103	On req.
		315	B	<b>3WL9 111-0AA52-0AA0</b>	1	103	On req.
		400	B	<b>3WL9 111-0AA53-0AA0</b>	1	103	On req.
		500	B	<b>3WL9 111-0AA54-0AA0</b>	1	103	On req.
		630	B	<b>3WL9 111-0AA55-0AA0</b>	1	103	On req.
		800	B	<b>3WL9 111-0AA56-0AA0</b>	1	103	On req.
For size I, II, III	1000	B	<b>3WL9 111-0AA57-0AA0</b>	1	103	On req.	
	1250	B	<b>3WL9 111-0AA58-0AA0</b>	1	103	On req.	
	1600	B	<b>3WL9 111-0AA61-0AA0</b>	1	103	On req.	
For size II, III	2000	B	<b>3WL9 111-0AA62-0AA0</b>	1	103	On req.	
	2500	B	<b>3WL9 111-0AA63-0AA0</b>	1	103	On req.	
	3200	B	<b>3WL9 111-0AA64-0AA0</b>	1	103	On req.	
For size III	4000	B	<b>3WL9 111-0AA65-0AA0</b>	1	103	On req.	
	5000	B	<b>3WL9 111-0AA66-0AA0</b>	1	103	On req.	
	6300	B	<b>3WL9 111-0AA67-0AA0</b>	1	103	On req.	
<b>Ground fault detector modules<sup>2)</sup></b>							
 NSE0_01027a 3WL9 111-0AT53-0AA0	<b>GFM AT 45B</b> (only for ETU45B) alarm and tripping		B	<b>3WL9 111-0AT53-0AA0</b>	1	103	On req.
	<b>GFM AT 55B-76B</b> (only for ETU55B, ETU76B) alarm and tripping		B	<b>3WL9 111-0AT56-0AA0</b>	1	103	On req.
<b>Displays</b>							
 NSE0_01609 3WL9 111-0AT81-0AA0	<b>4-line display for ETU45B</b>		B	<b>3WL9 111-0AT81-0AA0</b>	1	103	On req.
<b>Transformers for neutral conductor protection</b>							
 NSE0_00990a 3WL9 111-0AA2-0AA0	<b>Internal transformers for neutral conductors</b>		Size I	B	<b>3WL9 111-0AA11-0AA0</b>	1	103
			Size II	B	<b>3WL9 111-0AA12-0AA0</b>	1	103
			Size III	B	<b>3WL9 111-0AA13-0AA0</b>	1	103
	<b>External transformers for neutral conductors</b>		Size I	B	<b>3WL9 111-0AA21-0AA0</b>	1	103
	(T5, see Catalog LV 1T, "Functions", "Measurement Method")		Size II	B	<b>3WL9 111-0AA22-0AA0</b>	1	103
			Size III	B	<b>3WL9 111-0AA23-0AA0</b>	1	103
 NSE0_00991a 3WL9 111-0AA3-0AA0	<b>External transformers for neutral conductors</b>		Size I	B	<b>3WL9 111-0AA31-0AA0</b>	1	103
	With copper connection pieces		Size II	B	<b>3WL9 111-0AA32-0AA0</b>	1	103
	(T5, see Catalog LV 1T, "Functions", "Measurement Method")		Size III	B	<b>3WL9 111-0AA33-0AA0</b>	1	103
<b>EMC filters</b>							
	<b>EMC filters<sup>3)</sup></b>		X	<b>3WL9 111-0AK32-0AA0</b>	1	103	On req.
	Common-mode interference suppression filters (e.g. in IT networks, caused by frequency converters) Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB						

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

2) For direct measurement of the ground-fault current, e.g. in the neutral point of the transformer, a 1200 A/1 A current transformer, Class 1, is required. The internal load of the SENTRON 3WL is 0.11 Ohm. If the ground-fault


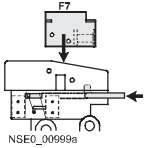
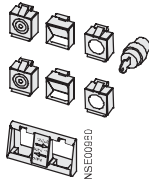
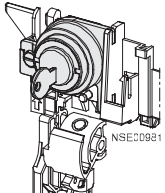
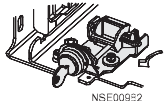
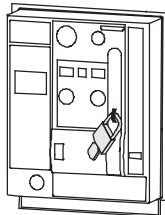
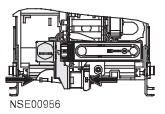
current is to be determined using the vectorial sum of the phases, a transformer must be installed in the neutral conductor.

3) The testing of transformers with the 3WL9 111-0AT31-0AA0 manual test device is not possible.

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

Designation		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Locking devices, operator control elements</b>								
 NSEC_00983a 3WL9 111-0AT45-0AA0	<b>Sealable covers</b>	For ETU15B to ETU55B	B	<b>3WL9 111-0AT45-0AA0</b>		1	1 unit	103 0.050
		For ETU76	B	<b>3WL9 111-0AT46-0AA0</b>		1	1 unit	103 0.050
	<b>Automatic reset of the lockout devices</b>		B	<b>3WL9 111-0AK21-0AA0</b>		1	1 unit	103 On req.
 NSE0_00999a 3WL9 111-0AK0.-0AA0	<b>Remote reset solenoids<sup>1)</sup></b>	24 V DC	B	<b>3WL9 111-0AK03-0AA0</b>		1	1 unit	103 On req.
		48 V DC	B	<b>3WL9 111-0AK04-0AA0</b>		1	1 unit	103 On req.
		120 V AC/ 125 V DC	B	<b>3WL9 111-0AK05-0AA0</b>		1	1 unit	103 On req.
		208-240 V AC/ 220-250 V DC	B	<b>3WL9 111-0AK06-0AA0</b>		1	1 unit	103 On req.
	<b>Retrofittable internal CubicleBUS wiring for connection to terminal X8 (without male connector<sup>2)</sup>)</b>	For ETU45B to ETU76B	B	<b>3WL9 111-0AK30-0AA0</b>		1	1 unit	103 On req.
	<b>Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8 (without male connector)</b>		D	<b>3WL9 111-0AK31-0AA0</b>		1	1 unit	103 On req.
<b>Locking devices</b>								
 NSE009E0 3WL9 111-0BA22-0AA0	<b>Protective covers for mechanical ON/OFF</b>	Without safety lock	B	<b>3WL9 111-0BA21-0AA0</b>		1	1 unit	103 On req.
		Made by CES	B	<b>3WL9 111-0BA22-0AA0</b>		1	1 unit	103 0.300
		Made by IKON	B	<b>3WL9 111-0BA24-0AA0</b>		1	1 unit	103 On req.
 NSEC0981 3WL9 111-0BA31-0AA0	<b>Locking devices against unauthorized closing, in the operator control panels</b>	Mounting set FORTRESS or CASTELL <sup>3)</sup>	B	<b>3WL9 111-0BA31-0AA0</b>		1	1 unit	103 0.200
		Made by Ronis	B	<b>3WL9 111-0BA33-0AA0</b>		1	1 unit	103 On req.
		Made by KIRK-Key	B	<b>3WL9 111-0BA34-0AA0</b>		1	1 unit	103 On req.
		Made by Profalux	B	<b>3WL9 111-0BA35-0AA0</b>		1	1 unit	103 On req.
		Made by CES	B	<b>3WL9 111-0BA36-0AA0</b>		1	1 unit	103 On req.
		Made by IKON	B	<b>3WL9 111-0BA38-0AA0</b>		1	1 unit	103 On req.
		Mounting set for padlocks <sup>4)</sup>	B	<b>3WL9 111-0BA41-0AA0</b>		1	1 unit	103 On req.
		Made by CES	B	<b>3WL9 111-0BA51-0AA0</b>		1	1 unit	103 On req.
 NSE009E2 3WL9 111-0BA53-0AA0	<b>Locking devices against unauthorized closing, for withdrawable circuit-breakers</b>	Made by IKON	B	<b>3WL9 111-0BA53-0AA0</b>		1	1 unit	103 On req.
		Made by KIRK-Key	B	<b>3WL9 111-0BA57-0AA0</b>		1	1 unit	103 On req.
		Made by Ronis	B	<b>3WL9 111-0BA58-0AA0</b>		1	1 unit	103 On req.
		Made by Profalux	B	<b>3WL9 111-0BA50-0AA0</b>		1	1 unit	103 On req.
			B	<b>3WL9 111-0BA71-0AA0</b>		1	1 unit	103 0.080
 NSE009E4 3WL9 111-0BA71-0AA0	<b>Locking devices for operating mechanism handle with padlock<sup>4)</sup></b>		B	<b>3WL9 111-0BA71-0AA0</b>		1	1 unit	103 0.080
	<b>Locking devices against movement of the withdrawable circuit-breakers</b>	Made by CES	B	<b>3WL9 111-0BA73-0AA0</b>		1	1 unit	103 On req.
		Made by IKON	B	<b>3WL9 111-0BA75-0AA0</b>		1	1 unit	103 On req.
		Made by Profalux	B	<b>3WL9 111-0BA76-0AA0</b>		1	1 unit	103 On req.
		Made by Ronis	B	<b>3WL9 111-0BA77-0AA0</b>		1	1 unit	103 On req.
		Made by KIRK-Key	B	<b>3WL9 111-0BA80-0AA0</b>		1	1 unit	103 On req.
 NSE009E6 3WL9 111-0BA76-0AA0			B					
			B					

1) Can only be used in conjunction with "automatic reset of lockout device", e.g. "-Z" + "K01", 3WL9 111-0AK01-0AA0.

2) Required if communication is retrofitted.

3) Locks must be ordered from the manufacturer.

4) Padlock not included in the scope of supply.

■ Start of delivery on request.

\* You can order this quantity or a multiple thereof.

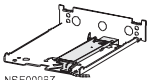
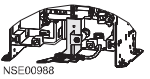
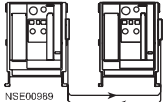
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# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

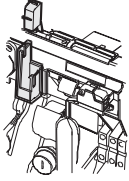
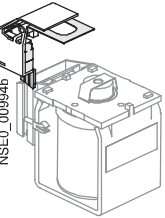
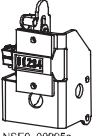
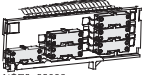


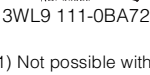
Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		
<b>Blocking mechanisms</b>									
 <p>NSE00957 3WL9 111-0BA83-0AA0</p>	<b>To prevent movement of the withdrawable circuit-breaker in disconnected position, consisting of bowden wire and lock in the cubicle door</b>	Made by CES Made by IKON Made by Profalux Made by Ronis Mounting set for padlocks <sup>1)</sup>	B B B B B	<b>3WL9 111-0BA81-0AA0</b> <b>3WL9 111-0BA83-0AA0</b> <b>3WL9 111-0BA85-0AA0</b> <b>3WL9 111-0BA86-0AA0</b> <b>3WL9 111-0BA87-0AA0</b>	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	103 103 103 103 103	On req. On req. On req. On req. On req.	
	<b>To prevent opening of the cabinet door in ON position (can be defeated)</b>	Fixed mounting	B	<b>3WL9 111-0BB12-0AA0</b>	1	1 unit	103	On req.	
	<b>To prevent opening of the cabinet door (can be defeated)</b>	Guide frame	B	<b>3WL9 111-0BB13-0AA0</b>	1	1 unit	103	On req.	
	 <p>NSE00958 3WL9 111-0BB12-0AA0</p>	<b>To prevent movement with the cabinet door open</b>	Guide frame	B	<b>3WL9 111-0BB15-0AA0</b>	1	1 unit	103	On req.
		<b>Interlockings</b>							
 <p>NSE00989 3WL9 111-0BB21-0AA0</p>	<b>Mutual mechanical interlockings, with 2000 mm Bowden wire (one required for each circuit-breaker)</b>	Fixed-mounted circuit-breaker	B	<b>3WL9 111-0BB21-0AA0</b>	1	1 unit	103	2.320	
		Module for withdrawable circuit-breaker with frame	B	<b>3WL9 111-0BB24-0AA0</b>	1	1 unit	103	2.420	
		<u>When ordered separately</u> Module for guide frame	B	<b>3WL9 111-0BB22-0AA0</b>	1	1 unit	103	On req.	
		Module for withdrawable circuit-breaker	B	<b>3WL9 111-0BB23-0AA0</b>	1	1 unit	103	On req.	
		Adapter for size III Withdrawable circuit-breaker	B	<b>3WL9 111-0BB30-0AA0</b>	1	1 unit	103	On req.	
		<b>Bowden wires</b>	2000 mm 3000 mm 4500 mm	B B B	<b>3WL9 111-0BB25-0AA0</b> <b>3WL9 111-0BB26-0AA0</b> <b>3WL9 111-0BB27-0AA0</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	3.110 3.050 On req.

1) Padlock not included in the scope of supply.

# 3WL Air Circuit-Breakers

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

**Accessories/spare parts**

	Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Indicators, operator control elements</b>								
 <small>NSE0_00993a</small> 3WL9 111-0AH01-0AA0	<b>Ready-to-close indicator switches</b>		B	<b>3WL9 111-0AH01-0AA0</b>		1	1 unit	103 0.025
	<b>Signaling switches<sup>4)5)</sup></b>	1st or 2nd auxiliary trip units	B	<b>3WL9 111-0AH02-0AA0</b>		1	1 unit	103 On req.
	<b>Tripped signaling switches<sup>4)5)</sup></b>		B	<b>3WL9 111-0AH14-0AA0</b>		1	1 unit	103 On req.
	<b>Operating cycles counters, mechanical<sup>3)</sup></b>		B	<b>3WL9 111-0AH07-0AA0</b>		1	1 unit	103 0.100
	<b>Stored energy status signaling switches<sup>4)5)</sup></b>		B	<b>3WL9 111-0AH08-0AA0</b>		1	1 unit	103 0.030
 <small>NSEU_00994b</small> 3WL9 111-0AH02-0AA0	<b>Position indicator switches for guide frames</b>	1st block (3 micro-switches)	B	<b>3WL9 111-0AH11-0AA0</b>		1	1 unit	103 0.200
		2nd block (6 micro-switches)	B	<b>3WL9 111-0AH12-0AA0</b>		1	1 unit	103 On req.
	<b>Electrical ON buttons<sup>1)4)</sup> (button+wiring<sup>5)</sup>)</b>	With sealing cap	B	<b>3WL9 111-0AJ02-0AA0</b>		1	1 unit	103 0.150
		With CES mounting set	B	<b>3WL9 111-0AJ03-0AA0</b>		1	1 unit	103 On req.
	With BKS mounting set	B	<b>3WL9 111-0AJ04-0AA0</b>		1	1 unit	103 On req.	
	With IKON mounting set	B	<b>3WL9 111-0AJ05-0AA0</b>		1	1 unit	103 On req.	
	<b>Motor shutdown switches<sup>2)</sup> (mounting on operator control panel)</b>		B	<b>3WL9 111-0AJ06-0AA0</b>		1	1 unit	103 On req.
 <small>NSE0_00995a</small> 3WL9 111-0AH07-0AA0	<b>EMERGENCY-STOP buttons</b>		B	<b>3WL9 111-0BA72-0AA0</b>		1	1 unit	103 On req.
		Mushroom-head push-button instead of the mechanical OFF button						
<b>Test devices</b>								
 <small>NSE0_00996a</small> 3WL9 111-0AH12-0AA0	<b>Manual test devices for electronic trip units ETU15B to ETU76B<sup>6)</sup></b>		B	<b>3WL9 111-0AT31-0AA0</b>		1	1 unit	103 On req.
		For testing the electronic trip unit functions						
 <small>NSE0_00996a</small> 3WL9 111-0AH12-0AA0	<b>Function testers</b>		X	<b>3WL9 111-0AT44-0AA0</b>		1	1 unit	103 On req.
		For testing the tripping characteristics for electronic trip unit ETU15B to ETU76B						
<b>Capacitor storage devices</b>								
 <small>NSE0_00997a</small> 3WL9 111-0AJ0.-0AA0	<b>Capacitor storage devices for shunt trip unit</b>	Rated control supply voltage/ Rated operational voltage						
	Storage time 5 min	50/60 Hz V AC V DC						
	Rated control supply voltage must match the rated control supply voltage of the shunt trip unit							
		110-127	110-115	B	<b>3WL9 111-0BA13-0AA0</b>	1	1 unit	103 0.500
		220-240	220-250	B	<b>3WL9 111-0BA14-0AA0</b>	1	1 unit	103 0.500
 <small>NSF005E5</small> 3WL9 111-0BA72-0AA0		Suitable also for 3VL and 3WN circuit-breakers						

- 1) Not possible with motor shutdown switch.
- 2) Not possible with electrical ON button.
- 3) Only in conjunction with motorized operating mechanism.
- 4) Not possible with communications connection option, order code "F02".

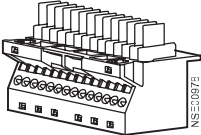
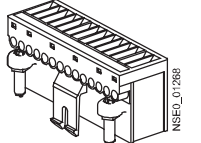
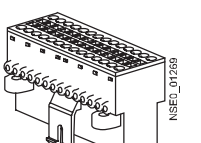
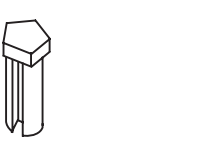
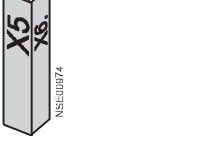
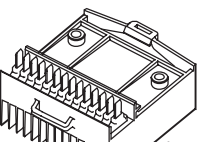
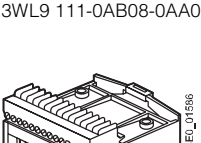

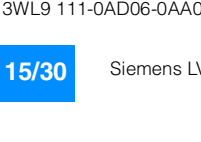

- 5) X7 manual connector required for circuit-breakers or guide frames. If this is not already available, please order additionally (see pages 15/23 and 15/30).
- 6) The testing of converters is not possible for the options "F30", "Protection of the neutral conductor under single-pole load", "F31" and 3WL9 111-0AK32-0AA0 "EMC filter".

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

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

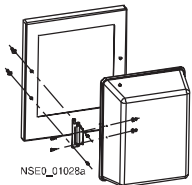
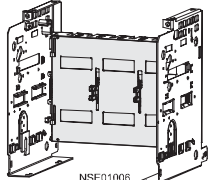
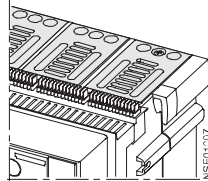
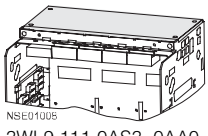
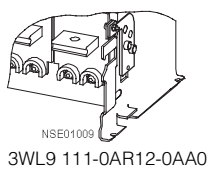
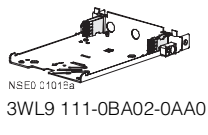
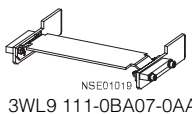
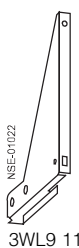
### Accessories/spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Auxiliary conductor connections</b>							
 3WL9 111-0AB01-0AA0	Male connectors for circuit-breakers	B	<b>3WL9 111-0AB01-0AA0</b>		1	1 unit	103 On req.
	Extensions for the 1000 V male connector versions (male connector must be ordered separately)	B	<b>3WL9 111-0AB02-0AA0</b>		1	1 unit	103 On req.
 3WL9 111-0AB03-0AA0	Male connectors for extensions for 1000 V	B	<b>3WL9 111-0AB10-0AA0</b>		1	1 unit	103 On req.
	Auxiliary supply connectors for circuit-breakers or guide frames	B	<b>3WL9 111-0AB03-0AA0</b>	Screw connection system (SIGUT)	1	1 unit	103 On req.
 3WL9 111-0AB04-0AA0	Screwless terminals (tension spring)	B	<b>3WL9 111-0AB04-0AA0</b>		1	1 unit	103 On req.
	Coding kits for fixed mounting (X5 to X8)	B	<b>3WL9 111-0AB07-0AA0</b>		1	1 unit	103 On req.
 3WL9 111-0AB08-0AA0	Sliding contact modules for guide frames	B	<b>3WL9 111-0AB08-0AA0</b>		1	1 unit	103 On req.
	One-part sliding contact modules for guide frames	B	<b>3WL9 111-0AB18-0AA0</b>		1	1 unit	103 On req.
 3WL9 111-0AB12-0AA0	Blanking blocks for circuit-breakers	B	<b>3WL9 111-0AB12-0AA0</b>		1	1 unit	103 On req.
	<b>Auxiliary trip units</b>						
 3WL9 111-0AB04-0AA0	Closing solenoids/shunt trip units						
	24 V DC	100 % ON-time	B	<b>3WL9 111-0AD01-0AA0</b>		1	1 unit 103 On req.
	30 V DC		B	<b>3WL9 111-0AD02-0AA0</b>		1	1 unit 103 On req.
	48 V DC		B	<b>3WL9 111-0AD03-0AA0</b>		1	1 unit 103 On req.
	60 V DC		B	<b>3WL9 111-0AD04-0AA0</b>		1	1 unit 103 On req.
	110 V DC/110 V AC		B	<b>3WL9 111-0AD05-0AA0</b>		1	1 unit 103 On req.
 3WL9 111-0AD11-0AA0	220 V DC/230 V AC						
	24 V DC	5 % ON-time	B	<b>3WL9 111-0AD11-0AA0</b>		1	1 unit 103 On req.
	48 V DC		B	<b>3WL9 111-0AD12-0AA0</b>		1	1 unit 103 On req.
	110-125 V DC/110-127 V AC		B	<b>3WL9 111-0AD13-0AA0</b>		1	1 unit 103 On req.
	220-250 V DC/208-240 V AC		B	<b>3WL9 111-0AD14-0AA0</b>		1	1 unit 103 On req.
	<b>Undervoltage trip units</b>						
 3WL9 111-0AB07-0AA0	Instantaneous						
	24 V DC		B	<b>3WL9 111-0AE01-0AA0</b>		1	1 unit 103 0.730
	30 V DC		B	<b>3WL9 111-0AE02-0AA0</b>		1	1 unit 103 0.730
	48 V DC		B	<b>3WL9 111-0AE03-0AA0</b>		1	1 unit 103 0.730
	60 V DC		B	<b>3WL9 111-0AE07-0AA0</b>		1	1 unit 103 0.730
	110-125 V DC/110-127 V AC		B	<b>3WL9 111-0AE04-0AA0</b>		1	1 unit 103 0.730
 3WL9 111-0AE11-0AA0	220-250 V DC/208-240 V AC						
	380-415 V AC		B	<b>3WL9 111-0AE05-0AA0</b>		1	1 unit 103 0.730
	48 V DC		B	<b>3WL9 111-0AE11-0AA0</b>		1	1 unit 103 0.740
	110-125 V DC/110-127 V AC		B	<b>3WL9 111-0AE12-0AA0</b>		1	1 unit 103 0.740
	220-250 V DC/208-240 V AC		B	<b>3WL9 111-0AE13-0AA0</b>		1	1 unit 103 0.740
	380-415 V AC		B	<b>3WL9 111-0AE14-0AA0</b>		1	1 unit 103 0.740
<b>Operating mechanisms</b>							
 3WL9 111-0AB08-0AA0	Motorized operating mechanisms						
	24-30 V DC	B	<b>3WL9 111-0AF01-0AA0</b>		1	1 unit	103 On req.
	48-60 V DC	B	<b>3WL9 111-0AF02-0AA0</b>		1	1 unit	103 On req.
	110-125 V DC/110-127 V AC	B	<b>3WL9 111-0AF03-0AA0</b>		1	1 unit	103 On req.
 3WL9 111-0AF04-0AA0	220-250 V DC/208-240 V AC	B	<b>3WL9 111-0AF04-0AA0</b>		1	1 unit	103 On req.
	<b>Auxiliary contacts</b>						
 3WL9 111-0AB18-0AA0	Auxiliary contact blocks						
	2 NO + 2 NC	B	<b>3WL9 111-0AG01-0AA0</b>		1	1 unit	103 0,180
	2 NO	B	<b>3WL9 111-0AG02-0AA0</b>		1	1 unit	103 0.050
 3WL9 111-0AG03-0AA0	1 NO + 1 NC	B	<b>3WL9 111-0AG03-0AA0</b>		1	1 unit	103 0.050

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Door sealing frames, covers, shutters</b>							
 NSE0_01028a 3WL9 111-0AP02-0AA0		<b>Door sealing frames</b>	B	<b>3WL9 111-0AP01-0AA0</b>	1	1 unit	103 0.630
		<b>Protective covers, IP55</b> Cannot be used in conjunction with door sealing frames, cover removable and can be opened on both sides	B	<b>3WL9 111-0AP02-0AA0</b>	1	1 unit	103 On req.
		<b>Shutters</b>					
	3-pole	Size I	B	<b>3WL9 111-0AP04-0AA0</b>	1	1 unit	103 0.500
		Size II	B	<b>3WL9 111-0AP06-0AA0</b>	1	1 unit	103 0.630
		Size III	B	<b>3WL9 111-0AP07-0AA0</b>	1	1 unit	103 0.860
	4-pole	Size I	B	<b>3WL9 111-0AP08-0AA0</b>	1	1 unit	103 0.600
		Size II	B	<b>3WL9 111-0AP11-0AA0</b>	1	1 unit	103 0.770
		Size III	B	<b>3WL9 111-0AP12-0AA0</b>	1	1 unit	103 1.070
<b>Arc chutes</b>							
 NSE01006 3WL9 111-0AP0.-0AA0		<b>Arc chutes</b>					
	690 V	Size I	B	<b>3WL9 111-0AS01-0AA0</b>	1	1 unit	103 On req.
		Size II	B	<b>3WL9 111-0AS02-0AA0</b>	1	1 unit	103 On req.
		Size III	B	<b>3WL9 111-0AS03-0AA0</b>	1	1 unit	103 On req.
	1000 V	Size II	B	<b>3WL9 111-0AS05-0AA0</b>	1	1 unit	103 On req.
		Size III	B	<b>3WL9 111-0AS06-0AA0</b>	1	1 unit	103 On req.
<b>Arc chute covers<sup>1)</sup></b> Parts kit for guide frame							
 NSE01007 3WL9 111-0AS0.-0AA0		3-pole					
		Size I	B	<b>3WL9 111-0AS32-0AA0</b>	1	1 unit	103 1.830
		Size II	B	<b>3WL9 111-0AS36-0AA0</b>	1	1 unit	103 2.600
		Size III	B	<b>3WL9 111-0AS38-0AA0</b>	1	1 unit	103 4.050
	4-pole	Size I	B	<b>3WL9 111-0AS42-0AA0</b>	1	1 unit	103 2.340
		Size II	B	<b>3WL9 111-0AS44-0AA0</b>	1	1 unit	103 3.300
		Size III	B	<b>3WL9 111-0AS46-0AA0</b>	1	1 unit	103 5.210
<b>Withdrawable part codings</b>							
 NSE01005 3WL9 111-0AS3.-0AA0		<b>Withdrawable part codings</b> By customer, for 36 coding variants	B	<b>3WL9 111-0AR12-0AA0</b>	1	1 unit	103 On req.
<b>Ground-fault protection</b>							
		<b>Ground-fault protection between guide frames and withdrawable circuit-breakers</b> For 30 kA switching capacity <sup>2)</sup>	Size I, II	B	<b>3WL9 111-0BA01-0AA0</b>	1	1 unit 103 On req.
		Contact module for guide frame	Size III	B	<b>3WL9 111-0BA02-0AA0</b>	1	1 unit 103 On req.
		<b>Contact modules for withdrawable circuit-breakers</b>					
	3-pole	Size I	B	<b>3WL9 111-0BA05-0AA0</b>	1	1 unit	103 On req.
		Size II	B	<b>3WL9 111-0BA06-0AA0</b>	1	1 unit	103 On req.
		Size III	B	<b>3WL9 111-0BA07-0AA0</b>	1	1 unit	103 On req.
 NSE01003 3WL9 111-0AR12-0AA0		4-pole					
		Size I	B	<b>3WL9 111-0BA08-0AA0</b>	1	1 unit	103 On req.
		Size II	B	<b>3WL9 111-0BA04-0AA0</b>	1	1 unit	103 On req.
		Size III	B	<b>3WL9 111-0BA10-0AA0</b>	1	1 unit	103 On req.
<b>Support brackets</b>							
 NSE0_01012a 3WL9 111-0BA02-0AA0		<b>Support brackets</b> For mounting fixed-mounted circuit-breakers on vertical plane, only for sizes I and II (1 set = 2 units)	B	<b>3WL9 111-0BB50-0AA0</b>	1	1 set	103 4.800
 NSE01011b 3WL9 111-0BA07-0AA0							
 NSE0-01022 3WL9 111-0BB50-0AA0							

1) Not available for 1000 V version and DC version.

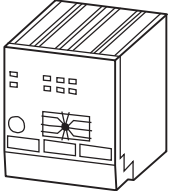
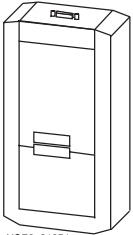
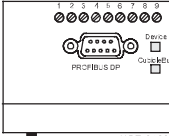
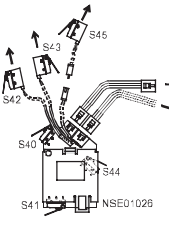
2) 60 kA switching capacity is achieved with 2 modules each.

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>CubicleBUS modules<sup>1)</sup></b>							
 NSE0_01023a 3WL9 111-0AT23-0AA0	B	<b>3WL9 111-0AT26-0AA0</b>		1	1 unit	103	0.400
<b>Digital output modules, configurable, relay outputs</b>	B	<b>3WL9 111-0AT20-0AA0</b>		1	1 unit	103	0.400
<b>Digital input modules</b>	B	<b>3WL9 111-0AT27-0AA0</b>		1	1 unit	103	0.400
<b>Analog output modules</b>	B	<b>3WL9 111-0AT23-0AA0</b>		1	1 unit	103	0.400
<b>Zone Selective Interlocking modules</b>	B	<b>3WL9 111-0AT21-0AA0</b>		1	1 unit	103	0.400
<b>Parameterization systems</b>							
 NSE0_01024a 3WL9 111-0AT28-0AA0	B	<b>3WL9 111-0AT28-0AA0</b>		1	1 unit	103	On req.
<b>Breaker Data Adapter (BDA)</b>		Parameterization, operation, monitoring and diagnostics of SENTRON circuit-breakers using the local interface; Breaker Data Adapter, connecting cable to the SENTRON 3WL circuit-breaker and to the programming device (e.g. notebook); can be run with Internet Explorer with JAVA2 VM 1.4.0-01					
<b>BDA Plus</b>	B	<b>3WL9 111-0AT33-0AA0</b>		1	1 unit	103	On req.
		Same as BDA, but with additional Ethernet interface for connection to Ethernet/Intranet/Internet					
<b>Connecting cables for BDA and BDA Plus</b>	C	<b>3WL9 111-0BC20-0AA0</b>		1	1 unit	103	On req.
		Connecting cable for connection of BDA and BDA Plus to LCD ETU trip unit of the SENTRON 3WL circuit-breaker; length 1 m					
<b>Connecting cables for BDA Plus</b>	B	<b>3WL9 111-0BC21-0AA0</b>		1	1 unit	103	On req.
		Connecting cable for connection of BDA Plus to terminal X8 of the SENTRON 3WL circuit-breaker. Required if neither COM 15 nor other external CubicleBUS modules are available, length 2 m.					
 NSE01025 3WL9 111-0AT15-0AA0	A	<b>3ZS2 311-0CC10-0YA0</b>		1	1 unit	133	On req.
<b>Switch ES Power parameterization software</b>		Calibration, operation, monitoring, and diagnostics of SENTRON circuit-breakers via PROFIBUS DP; runs under Windows 95, Windows 98, Windows NT, Windows 2000 and Windows XP Professional, requires additional PROFIBUS card e.g. CP5613					
<b>Accessories for communications</b>							
<b>Preassembled cables for CubicleBUS modules</b>	B	<b>3WL9 111-0BC04-0AA0</b>		1	1 unit	103	On req.
		0.2 m long, for connection to SENTRON 3WL with COM15					
	B	<b>3WL9 111-0BC02-0AA0</b>		1	1 unit	103	On req.
		1 m long, for connection to SENTRON 3WL with COM15					
	B	<b>3WL9 111-0BC03-0AA0</b>		1	1 unit	103	On req.
		2 m long, for connection to SENTRON 3WL with COM15					
	B	<b>3WL9 111-0BC05-0AA0</b>		1	1 unit	103	On req.
		2 m long, for connection to SENTRON 3WL without COM15					
 NSE01026 3WL9 111-0AT16-0AA0		<b>E20001-A210-P307</b> <b>E20001-A210-P307-X-7600</b>					
<b>SENTRON manuals for communication solutions</b>		Detailed description of the communications functions for SENTRON circuit-breakers. Installation, connection, commissioning and description of Switch ES Power and BDA. German Token fee English Token fee  Free download from: <a href="http://www.siemens.com/lowvoltage/manuals">http://www.siemens.com/lowvoltage/manuals</a>					
<b>Voltage transformers, 3-pole, for SENTRON 3WL with measurement function Plus</b>	B	<b>3WL9 111-0BB70-0AA0</b>		1	1 unit	103	On req.
	B	<b>3WL9 111-0BB68-0AA0</b>		1	1 unit	103	On req.
	B	<b>3WL9 111-0BB64-0AA0</b>		1	1 unit	103	On req.
		230 V/100 V, class 0.5 380-440 V/100 V, class 0.5 500-690 V/100 V, class 0.5					
<b>Retrofitting and spare parts</b>							
<b>PROFIBUS retrofit kits</b>	B	<b>3WL9 111-0AT12-0AA0</b>		1	1 unit	103	On req.
		Retrofit kit for PROFIBUS communications including COM15, BSS and set of cables for all SENTRON 3WL circuit-breakers with ETU45B, ETU55B and ETU76B trip units					
	B	<b>3WL9 111-0AT15-0AA0</b>		1	1 unit	103	On req.
	B	<b>3WL9 111-0AT16-0AA0</b>		1	1 unit	103	On req.
	B	<b>3WL9 111-0AT03-0AA0</b>		1	1 unit	103	On req.
		COM15 PROFIBUS module Breaker status sensor (BSS) Measurement function Plus (voltage transformer required)					

All communication components, CubicleBUS modules and measurement functions are available for the ETU45B, ETU55B and ETU76B trip units.

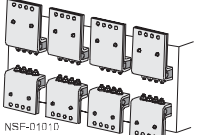
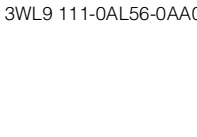
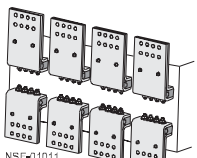
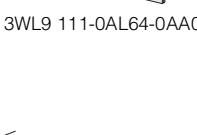
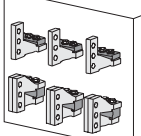
1) Each CubicleBUS module is supplied with a 0.2 m factory-fitted cable to connect the modules with each other. A longer factory-fitted cable is required for connection to the circuit-breaker.



# 3WL Air Circuit-Breakers

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

**Accessories/spare parts**

	Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Main circuit connections, fixed mounting</b>								
	Specified for each connection							
 NSF-0101P	<b>Front-accessible main circuit connections, single hole at top</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AL01-0AA0</b>		1	1 unit	103 On req.
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AL02-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2000 A	B	<b>3WL9 111-0AL03-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2500 A	B	<b>3WL9 111-0AL04-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 3200 A	B	<b>3WL9 111-0AL05-0AA0</b>		1	1 unit	103 On req.
		Size III, up to 4000 A	B	<b>3WL9 111-0AL06-0AA0</b>		1	1 unit	103 On req.
 NSF-0101B	<b>Front-accessible main circuit connections, single hole at bottom</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AL51-0AA0</b>		1	1 unit	103 On req.
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AL52-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2000 A	B	<b>3WL9 111-0AL53-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2500 A	B	<b>3WL9 111-0AL54-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 3200 A	B	<b>3WL9 111-0AL55-0AA0</b>		1	1 unit	103 On req.
		Size III, up to 4000 A	B	<b>3WL9 111-0AL56-0AA0</b>		1	1 unit	103 On req.
 NSF-01011	<b>Front-accessible main circuit connections, according to DIN 43673, double hole at top</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AL07-0AA0</b>		1	1 unit	103 On req.
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AL08-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2000 A	B	<b>3WL9 111-0AL11-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2500 A	B	<b>3WL9 111-0AL12-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 3200 A	B	<b>3WL9 111-0AL13-0AA0</b>		1	1 unit	103 On req.
		Size III, up to 4000 A	B	<b>3WL9 111-0AL14-0AA0</b>		1	1 unit	103 On req.
 NSF-01012	<b>Front-accessible main circuit connections, according to DIN 43673, double hole at bottom</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AL57-0AA0</b>		1	1 unit	103 On req.
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AL58-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2000 A	B	<b>3WL9 111-0AL61-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 2500 A	B	<b>3WL9 111-0AL62-0AA0</b>		1	1 unit	103 On req.
		Size II, up to 3200 A	B	<b>3WL9 111-0AL63-0AA0</b>		1	1 unit	103 On req.
		Size III, up to 4000 A	B	<b>3WL9 111-0AL64-0AA0</b>		1	1 unit	103 On req.
 NSE-01012	<b>Rear vertical main circuit connections</b>	Size I <sup>1)</sup> , up to 1600 A	B	<b>3WL9 111-0AM01-0AA0</b>		1	1 unit	103 On req.
		Size II <sup>2)</sup> , up to 3200 A	B	<b>3WL9 111-0AM02-0AA0</b>		1	1 unit	103 On req.
		Size III, up to 6300 A	B	<b>3WL9 111-0AM03-0AA0</b>		1	1 unit	103 On req.

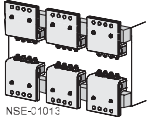
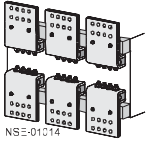
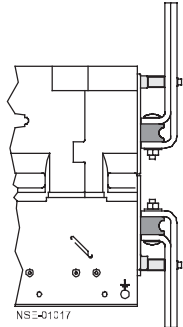

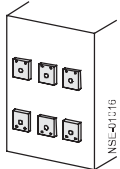
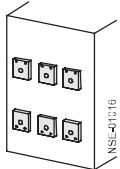
- 1) In the case of vertical connection size I, up to 1000 A one vertical connection  
3WL9 111-0AM01-0AA0 is required,  
up to 1600 A two vertical connections  
3WL9 111-0AM01-0AA0 are required.
- 2) In the case of vertical connection size II, up to 2500 A one vertical connection  
3WL9 111-0AM02-0AA0 is required,  
up to 3200 A two vertical connections  
3WL9 111-0AM02-0AA0 are required.

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

	Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
	<b>Main circuit connections, withdrawable versions</b>								
	Specified for each connection								
 NSE-01013 3WL9 111-0AN06-0AA0	<b>Front-accessible main circuit connections, single hole at top or at bottom</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AN01-0AA0</b>		1	1 unit	103 On req.	
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AN02-0AA0</b>		1	1 unit	103 1.300	
		Size II, up to 2000 A	B	<b>3WL9 111-0AN03-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 2500 A	B	<b>3WL9 111-0AN04-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 3200 A	B	<b>3WL9 111-0AN05-0AA0</b>		1	1 unit	103 On req.	
		Size III, up to 4000 A	B	<b>3WL9 111-0AN06-0AA0</b>		1	1 unit	103 On req.	
 NSE-01014 3WL9 111-0AN14-0AA0	<b>Front-accessible main circuit connections, according to DIN 43673, double hole at top or at bottom</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AN07-0AA0</b>		1	1 unit	103 On req.	
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AN08-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 2000 A	B	<b>3WL9 111-0AN11-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 2500 A	B	<b>3WL9 111-0AN12-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 3200 A	B	<b>3WL9 111-0AN13-0AA0</b>		1	1 unit	103 On req.	
		Size III, up to 4000 A	B	<b>3WL9 111-0AN14-0AA0</b>		1	1 unit	103 On req.	
 NSE-01017 3WL9 111-0AN41-0AA0	<b>Supports for front and DIN connecting bars</b>	3-pole for 3 bars	Size I	B	<b>3WL9 111-0AN41-0AA0</b>		1	1 unit	103 On req.
			Size II	B	<b>3WL9 111-0AN42-0AA0</b>		1	1 unit	103 On req.
			Size III	B	<b>3WL9 111-0AN43-0AA0</b>		1	1 unit	103 On req.
		4-pole for 4 bars	Size I	B	<b>3WL9 111-0AN44-0AA0</b>		1	1 unit	103 On req.
			Size II	B	<b>3WL9 111-0AN45-0AA0</b>		1	1 unit	103 On req.
			Size III	B	<b>3WL9 111-0AN46-0AA0</b>		1	1 unit	103 On req.
	 NSE-01015 3WL9 111-0AN23-0AA0	<b>Rear vertical main circuit connections</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AN15-0AA0</b>		1	1 unit	103 On req.
			Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AN16-0AA0</b>		1	1 unit	103 On req.
			Size II, up to 2000 A	B	<b>3WL9 111-0AN17-0AA0</b>		1	1 unit	103 On req.
			Size II, up to 2500 A	B	<b>3WL9 111-0AN18-0AA0</b>		1	1 unit	103 On req.
			Size II, up to 3200 A	B	<b>3WL9 111-0AN21-0AA0</b>		1	1 unit	103 On req.
			Size III, up to 5000 A	B	<b>3WL9 111-0AN22-0AA0</b>		1	1 unit	103 On req.
Size III, up to 6300 A (3 busbar connection pieces for 3-pole circuit-breakers)			B	<b>3WL9 111-0AN23-0AA0</b>		1	1 unit	103 On req.	
Size III, up to 6300 A (4 busbar connection pieces for 4-pole circuit-breakers)			B	<b>3WL9 111-0AN20-0AA0</b>		1	1 unit	103 On req.	
Size III, up to 6300 A (4 busbar connection pieces for 4-pole circuit-breakers)			B	<b>3WL9 111-0AN10-0AA0</b>		1	1 unit	103 On req.	
 NSE-01019 3WL9 111-0AN24-0AA0	<b>Rear horizontal circuit connections</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AN32-0AA0</b>		1	1 unit	103 On req.	
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AN33-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 2000 A	B	<b>3WL9 111-0AN34-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 2500 A	B	<b>3WL9 111-0AN35-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 3200 A	B	<b>3WL9 111-0AN36-0AA0</b>		1	1 unit	103 On req.	
		Size III, up to 5000 A	B	<b>3WL9 111-0AN37-0AA0</b>		1	1 unit	103 On req.	
 NSE-01018 3WL9 111-0AN24-0AA0	<b>Connecting flanges</b>	Size I, up to 1000 A	B	<b>3WL9 111-0AN24-0AA0</b>		1	1 unit	103 On req.	
		Size I, 1250 A ... 1600 A	B	<b>3WL9 111-0AN25-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 2000 A	B	<b>3WL9 111-0AN26-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 2500 A	B	<b>3WL9 111-0AN27-0AA0</b>		1	1 unit	103 On req.	
		Size II, up to 3200 A	B	<b>3WL9 111-0AN28-0AA0</b>		1	1 unit	103 On req.	
		Size III, up to 4000 A	B	<b>3WL9 111-0AN31-0AA0</b>		1	1 unit	103 On req.	

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

# 3WL Air Circuit-Breakers

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

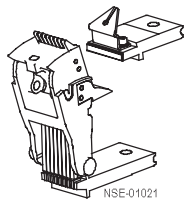
### Accessories/spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Conversion sets</b>							
<b>For converting fixed-mounted circuit-breakers to withdrawable circuit-breakers</b>							
Guide frames and sliding contact modules must be ordered separately.							
3-pole	Size I	B	<b>3WL9 111-0BC11-0AA0</b>		1	103	On req.
	Size II	B	<b>3WL9 111-0BC12-0AA0</b>		1	103	On req.
	Size III	B	<b>3WL9 111-0BC13-0AA0</b>		1	103	On req.
4-pole	Size I	B	<b>3WL9 111-0BC14-0AA0</b>		1	103	On req.
	Size II	B	<b>3WL9 111-0BC15-0AA0</b>		1	103	On req.
	Size III	B	<b>3WL9 111-0BC16-0AA0</b>		1	103	On req.

### Main contact elements

**You must specify the circuit-breaker ID No. when ordering!**

Specified for each connection (depending on the number of poles on the circuit-breaker, order 3 or 4 units)



Sizes	$I_{n\ max}$	Order No. is automatically adapted to the circuit-breaker ID number					
I	Up to 1600 A	B	<b>3WL9 111-0AM90</b> <b>1Y<sup>1)</sup></b>		1	103	On req.
II	Up to 2500 A	B	<b>3WL9 111-0AM91</b> <b>1Y<sup>1)</sup></b>		1	103	On req.
II	Up to 3200 A	B	<b>3WL9 111-0AM92</b> <b>1Y<sup>1)</sup></b>		1	103	On req.
III	Up to 6300 A	B	<b>3WL9 111-0AM93</b> <b>1Y<sup>1)</sup></b>		1	103	On req.

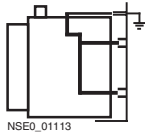
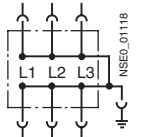
1) Please specify the circuit-breaker ID No. in plain text when ordering.

\* You can order this quantity or a multiple thereof.

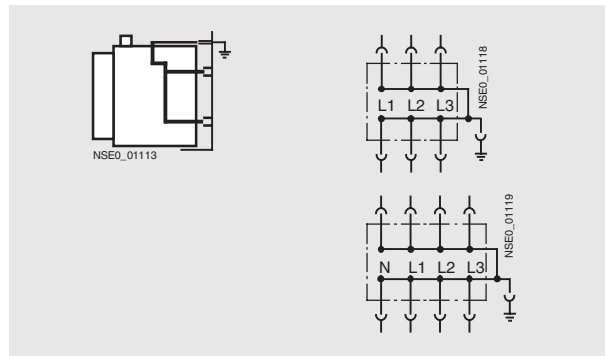
# 3WL Air Circuit-Breakers

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

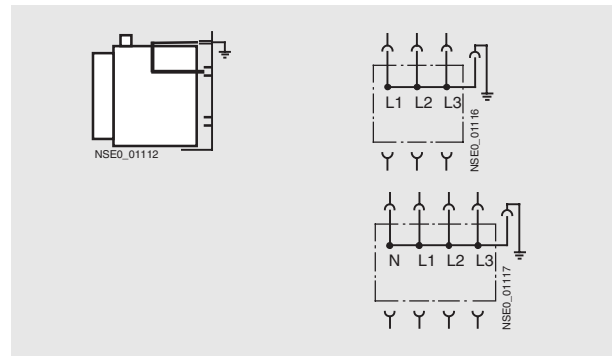
### Accessories/spare parts

Circuit diagram in as-supplied state	Version	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
<b>Withdrawable short-circuits, ground and bridging units</b>										
 <p>(as-supplied state)</p>		Top and bottom parts of system are short-circuited and grounded		3-pole						
		Up to 1600 A I	C	<b>3WL9 111-0BD01-0AA0</b>			1	1 unit	103	On req.
		Up to 3200 A II	C	<b>3WL9 111-0BD03-0AA0</b>			1	1 unit	103	On req.
		Up to 6300 A III	C	<b>3WL9 111-0BD05-0AA0</b>			1	1 unit	103	On req.
		4-pole								
		Up to 1600 A I	C	<b>3WL9 111-0BD02-0AA0</b>			1	1 unit	103	On req.
Up to 3200 A II	C	<b>3WL9 111-0BD04-0AA0</b>			1	1 unit	103	On req.		
Up to 6300 A III	C	<b>3WL9 111-0BD06-0AA0</b>			1	1 unit	103	On req.		

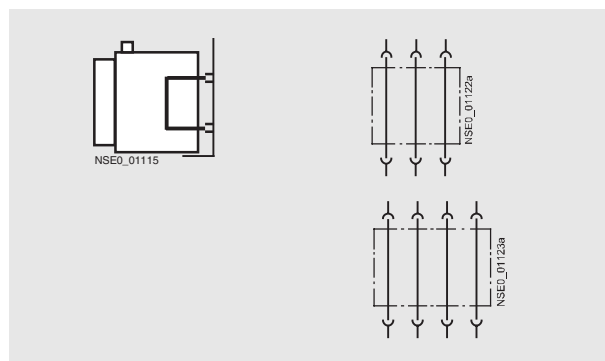
### Conversion for the following applications is possible



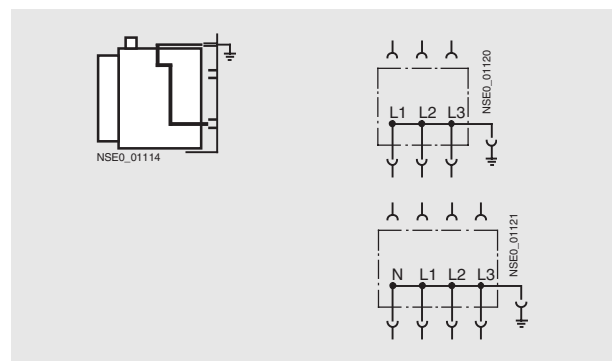
Top and bottom part of system are short-circuited and grounded (as-supplied state)



Top part of system is short-circuited and grounded, incoming supply from bottom



Withdrawable bridging unit, incoming and outgoing side are permanently connected to each other



Bottom part of system is short-circuited and grounded, incoming supply from top

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

#### Options

##### Structure of the Order No.

##### Example

5th position:	Size	Size II	2
6th and 7th positions:	Max. rated circuit-breaker current $I_{n \max}$	$I_{n \max} = 2000 \text{ A}$	20
8th position:	Switching capacity class	High switching capacity "H": 100 kA	4
9th position:	Electronic trip unit	ETU76B with pixel graphics display ...	N
10th position:	Electronic trip unit supplement	... with ground-fault protection	G
11th position:	Number of poles	3-pole	3
12th position:	Installation type	Fixed mounted, main terminals on rear, vertical	1
13th position:	Operating mechanism	Manual operating mechanism with mechanical activation	1
14th position:	1st auxiliary switch	shunt trip unit 50/60 Hz 110 V AC	F
15th position:	2nd auxiliary switch	Without 2nd auxiliary release	A
16th position:	Auxiliary switch	2 NO + 2 NC	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
- Ordering
- Order confirmation
- Handling warehouse products
- Order processing at the supply bases
- Delivery and shipment
- 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, project engineering, ordering and stock keeping, and consequently above all it saves costs.

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

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

##### Example

			3WL1 216-4 JG31-1FA3-Z	F02
-Z with order code	Communications connection "Standard" + Breaker Status Sensor (BSS) + communications module COM15 for connection to PROFIBUS DP		Z	F02

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 111-0BA21-0AA0

Protective cover 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>Operator's guide</b> Complete set	German/English	Order No.	3ZX18 12-0WL00-0AN0	Delivery time C
	French/Italian	Order No.	3ZX18 12-0WL00-0AJ0	On request
	Spanish/Portuguese	Order No.	3ZX18 12-0WL00-0AL0	On request
<b>Communication manual</b>	German	Order No.	E20001-A210-P307	
	English	Order No.	E20001-A210-P307-X-7600	

Free download of documentation from <http://www.siemens.com/lowvoltage/manuals>

#### More information

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

# 3WL Air Circuit-Breakers

## 3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers acc. to UL 489 up to 5000 A (AC)

### 3-pole, fixed-mounted versions

#### Selection and ordering data

Size	Max. rated circuit-breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Switching capacity 480 V		Order No. For Order No. supplements, see page 15/17	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
			kA	DT						
<b>Horizontal main circuit connections</b>										
I	1000	1000	65	B	3WL51 10-3□□32-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL51 16-3□□32-....		1	1 unit	103	43.000
II	2000	2000	100	B	3WL52 20-4□□32-....		1	1 unit	103	56.000
II	2500	2500	100	B	3WL52 25-4□□32-....		1	1 unit	103	59.000
II	3000	3000	100	B	3WL52 30-4□□32-....		1	1 unit	103	64.000
III	4000	4000	100	C	3WL53 40-4□□32-....		1	1 unit	103	82.000
III	5000	5000	100	C	3WL53 50-4□□32-....		1	1 unit	103	82.000
<b>Vertical main circuit connections</b>										
I	1000	1000	65	B	3WL51 10-3□□31-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL51 16-3□□31-....		1	1 unit	103	43.000
II	2000	2000	100	B	3WL52 20-4□□31-....		1	1 unit	103	56.000
II	2500	2500	100	B	3WL52 25-4□□31-....		1	1 unit	103	59.000
II	3000	3000	100	B	3WL52 30-4□□31-....		1	1 unit	103	64.000
III	4000	4000	100	C	3WL53 40-4□□31-....		1	1 unit	103	82.000
III	5000	5000	100	C	3WL53 50-4□□31-....		1	1 unit	103	82.000
<b>Front main circuit connections, single hole</b>										
I	1000	1000	65	B	3WL51 10-3□□33-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL51 16-3□□33-....		1	1 unit	103	43.000
II	2000	2000	100	B	3WL52 20-4□□33-....		1	1 unit	103	56.000
II	2500	2500	100	B	3WL52 25-4□□33-....		1	1 unit	103	59.000
II	3000	3000	100	B	3WL52 30-4□□33-....		1	1 unit	103	64.000
III	4000	4000	100	C	3WL53 40-4□□33-....		1	1 unit	103	82.000
<b>Front main circuit connections, double hole</b>										
I	1000	1000	65	B	3WL51 10-3□□34-....		1	1 unit	103	43.000
I	1600	1600	65	B	3WL51 16-3□□34-....		1	1 unit	103	43.000
II	2000	2000	100	B	3WL52 20-4□□34-....		1	1 unit	103	56.000
II	2500	2500	100	B	3WL52 25-4□□34-....		1	1 unit	103	59.000
II	3000	3000	100	B	3WL52 30-4□□34-....		1	1 unit	103	64.000
III	4000	4000	100	C	3WL53 40-4□□34-....		1	1 unit	103	82.000

#### Non-automatic circuit-breakers<sup>2)</sup>

Without electronic trip unit

Order No. supplements	Additional price
AA	without

#### Electronic trip units

##### Versions without ground-fault protection

ETU25B: Protection functions LSI

CB	x
----	---

ETU45B: Protection functions LSIN<sup>3)</sup>

EB	x
----	---

ETU45B: Protection functions LSIN<sup>3)</sup> with 4-line display

FB	x
----	---

##### Versions with ground-fault protection

ETU45B: Protection functions LSING<sup>3)4)</sup>

EG	x
----	---

ETU45B: Protection functions LSING<sup>3)4)</sup> with 4-line display

FG	x
----	---

#### Standard Order No. supplements (for further Order No. supplements see page 15/17)

Manual operating mechanism with mechanical closing

Without 1st and 2nd auxiliary trip unit; auxiliary switch

2 NC + 2 NO

1AA2	without
------	---------

4-pole version on request.

For further Order No. supplements, see page 15/17.

Note: Max. voltage for auxiliary circuits 240 V.

- 1) The rated current is determined by the rated current module. For the standard version, the supplied module is equal to the rated current. If a lower rated current is required, adaptation by rated current module on page 15/41.
- 2) For permissible short-time current rating  $I_{cc}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic circuit-breakers, see Catalog LV 1T, Technical Specifications.
- 3) Current transformers for protection of the neutral conductor and current transformers for detection of the earth-fault current in the grounded neutral point of the transformer are to be ordered separately, see pages 15/20 and 15/26.
- 4) For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see page 15/41.

x additional price

# 3WL Air Circuit-Breakers

## 3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers acc. to UL 489 up to 5000 A (AC)

3-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_{n \max}$	Rated current <sup>1)</sup> $I_n$	Switching capacity 480 V		Order No. For Order No. supplements, see page 15/17	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
			kA	DT						
<b>Without guide frames (for guide frames see page 15/40)</b>										
I	1000	1000	65	B	3WL51 10-3□□35-....		1	1 unit	103	45.000
I	1600	1600	65	B	3WL51 16-3□□35-....		1	1 unit	103	45.000
II	2000	2000	100	B	3WL52 20-4□□35-....		1	1 unit	103	60.000
II	2500	2500	100	B	3WL52 25-4□□35-....		1	1 unit	103	63.000
II	3000	3000	100	B	3WL52 30-4□□35-....		1	1 unit	103	68.000
III	4000	4000	100	C	3WL53 40-4□□35-....		1	1 unit	103	88.000
III	5000	5000	100	C	3WL53 50-4□□35-....		1	1 unit	103	88.000
<b>With guide frames, horizontal main circuit connections</b>										
I	1000	1000	65	B	3WL51 10-3□□36-....		1	1 unit	103	70.000
I	1600	1600	65	B	3WL51 16-3□□36-....		1	1 unit	103	70.000
II	2000	2000	100	B	3WL52 20-4□□36-....		1	1 unit	103	91.000
II	2500	2500	100	B	3WL52 25-4□□36-....		1	1 unit	103	102.000
II	3000	3000	100	B	3WL52 30-4□□36-....		1	1 unit	103	113.000
III	4000	4000	100	C	3WL53 40-4□□36-....		1	1 unit	103	148.000
III	5000	5000	100	C	3WL53 50-4□□36-....		1	1 unit	103	148.000
<b>With guide frames, vertical main circuit connections</b>										
I	1000	1000	65	B	3WL51 10-3□□37-....		1	1 unit	103	70.000
I	1600	1600	65	B	3WL51 16-3□□37-....		1	1 unit	103	70.000
II	2000	2000	100	B	3WL52 20-4□□37-....		1	1 unit	103	91.000
II	2500	2500	100	B	3WL52 25-4□□37-....		1	1 unit	103	102.000
II	3000	3000	100	B	3WL52 30-4□□37-....		1	1 unit	103	113.000
III	4000	4000	100	C	3WL53 40-4□□37-....		1	1 unit	103	148.000
III	5000	5000	100	C	3WL53 50-4□□37-....		1	1 unit	103	148.000
<b>With guide frames, connecting flanges</b>										
I	1000	1000	65	B	3WL51 10-3□□38-....		1	1 unit	103	70.000
I	1600	1600	65	B	3WL51 16-3□□38-....		1	1 unit	103	70.000
II	2000	2000	100	B	3WL52 20-4□□38-....		1	1 unit	103	91.000
II	2500	2500	100	B	3WL52 25-4□□38-....		1	1 unit	103	102.000
II	3000	3000	100	B	3WL52 30-4□□38-....		1	1 unit	103	113.000
III	4000	4000	100	C	3WL53 40-4□□38-....		1	1 unit	103	148.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>										
Without electronic trip unit					AA	without				
<b>Electronic trip units</b>										
<b>Versions without ground-fault protection</b>										
ETU25B: Protection functions LSI					CB	x				
ETU45B: Protection functions LSIN <sup>3)</sup>					EB	x				
ETU45B: Protection functions LSIN <sup>3)</sup> with 4-line display					FB	x				
<b>Versions with ground-fault protection</b>										
ETU45B: Protection functions LSING <sup>3)4)</sup>					EG	x				
ETU45B: Protection functions LSING <sup>3)4)</sup> with 4-line display					FG	x				
<b>Standard Order No. supplements (for further Order No. supplements for circuit-breakers and guide frames, see page 15/17)</b>										
Manual operating mechanism with mechanical closing Without 1st and 2nd auxiliary trip unit; auxiliary switch 2 NC + 2 NO					1AA2	without				

4-pole version on request.

For further Order No. supplements, see page 15/17.

Note: Max. voltage for auxiliary circuits 240 V.

- The rated current is determined by the rated current module. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by rated current module on page 15/41.
- For permissible short-time current rating  $I_{co}$  and rated short-circuit making capacity  $I_{cm}$  for non-automatic circuit-breakers, see Catalog LV 1T, Technical Specifications.
- Current transformers for protection of the neutral conductor and current transformers for detection of the earth-fault current in the grounded neutral point of the transformer are to be ordered separately, see pages 15/20 and 15/26.
- For ETU45B with ground-fault protection module GFM AT (alarm and tripping), see page 15/41.

x additional price

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

## 3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers acc. to UL 489 up to 5000 A (AC)

### Accessories/spare parts

#### Selection and ordering data

##### Guide frames for circuit-breakers according to UL 489

Size	Max. rated circuit-breaker current $I_{n\max}$		Guide frames for 3-pole circuit-breakers	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A		DT	Order No. (Order No. supplements required according to table below)	Price per PU			kg
<b>Front main circuit connections, single hole</b>							
I	1000	B	3WL9 251-1AA□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 251-2AA□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 252-3AA□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 252-4AA□□-□□A 1		1	1 unit	103 39.000
II	3000	B	3WL9 252-5AA□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 253-6AA□□-□□A 1		1	1 unit	103 60.000
<b>Front main circuit connections, double hole</b>							
I	1000	B	3WL9 251-1AB□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 251-2AB□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 252-3AB□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 252-4AB□□-□□A 1		1	1 unit	103 39.000
II	3000	B	3WL9 252-5AB□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 253-6AB□□-□□A 1		1	1 unit	103 60.000
<b>Horizontal main circuit connections</b>							
I	1000	B	3WL9 251-1AC□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 251-2AC□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 252-3AC□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 252-4AC□□-□□A 1		1	1 unit	103 39.000
II	3000	B	3WL9 252-5AC□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 253-6AC□□-□□A 1		1	1 unit	103 60.000
III	5000	B	3WL9 253-7AC□□-□□A 1		1	1 unit	103 60.000
<b>Vertical main circuit connections</b>							
I	1000	B	3WL9 251-1AD□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 251-2AD□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 252-3AD□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 252-4AD□□-□□A 1		1	1 unit	103 39.000
II	3000	B	3WL9 252-5AD□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 253-6AD□□-□□A 1		1	1 unit	103 60.000
III	5000	B	3WL9 253-7AD□□-□□A 1		1	1 unit	103 60.000
<b>Main circuit connections connecting flanges</b>							
I	1000	B	3WL9 251-1AE□□-□□A 1		1	1 unit	103 25.000
I	1600	B	3WL9 251-2AE□□-□□A 1		1	1 unit	103 25.000
II	2000	B	3WL9 252-3AE□□-□□A 1		1	1 unit	103 31.000
II	2500	B	3WL9 252-4AE□□-□□A 1		1	1 unit	103 39.000
II	3200	B	3WL9 252-5AE□□-□□A 1		1	1 unit	103 45.000
III	4000	B	3WL9 253-6AE□□-□□A 1		1	1 unit	103 60.000

#### Number of auxiliary supply connectors

- None
- 1 connector
- 2 connectors
- 3 connectors
- 4 connectors

For required number of auxiliary supply connectors, see table on page 15/23

#### Type of auxiliary circuit connections

- None
- With screw-type terminals (SIGUT)
- With screwless connection system (tension spring)

#### Position indicator switches

- None
- Option 1  
Connected position 1 CO contacts, test position 1 CO contacts, disconnected position 1 CO contact
- Option 2  
Connected position 3 CO contacts, test position 2 CO contacts, disconnected position 1 CO contact

#### Shutters

- None
- With shutter, Size I
- 2-part, Size II
- lockable, Size III

4-pole version on request.

x additional price

#### Order No. supplements

- 0
- 1
- 2
- 3
- 4

#### Additional price

- without
- x
- x
- x
- x

- 0
- 1
- 2

- without
- x
- x

- 0
- 1

- without
- x

- 2

- x

- A
- B

- without
- x

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 15/20 "Interlocks, Covers, Position Indicator Switches".

\* You can order this quantity or a multiple thereof.



# 3WL Air Circuit-Breakers

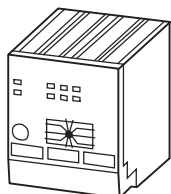
## 3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers acc. to UL 489 up to 5000 A (AC)

### Accessories/spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Electronic trip units</b>							
<b>ETU25B</b>							
With protection function							
LSI	C	<b>3WL9 352-5AA00-0AA1</b>		1	1 unit	103	On req.
<b>ETU45B without measurement function Plus</b>							
LSIN(G)	C	<b>3WL9 354-5AA00-0AA1</b>		1	1 unit	103	On req.
<b>ETU45B with measurement function Plus</b>							
LSIN(G)	C	<b>3WL9 354-5AA20-0AA1</b>		1	1 unit	103	On req.
<b>Rated current modules / Rating Plug<sup>1)</sup></b>							
Rated current $I_n$ (A)							
For size I, II							
250	B	<b>3WL9 111-2AA51-0AA0</b>		1	1 unit	103	On req.
315	B	<b>3WL9 111-2AA52-0AA0</b>		1	1 unit	103	On req.
400	B	<b>3WL9 111-2AA53-0AA0</b>		1	1 unit	103	On req.
500	B	<b>3WL9 111-2AA54-0AA0</b>		1	1 unit	103	On req.
630	B	<b>3WL9 111-2AA55-0AA0</b>		1	1 unit	103	On req.
800	B	<b>3WL9 111-2AA56-0AA0</b>		1	1 unit	103	On req.
1000	B	<b>3WL9 111-2AA57-0AA0</b>		1	1 unit	103	On req.
For size I, II, III							
1250	B	<b>3WL9 111-2AA58-0AA0</b>		1	1 unit	103	On req.
1600	B	<b>3WL9 111-2AA61-0AA0</b>		1	1 unit	103	On req.
For size II, III							
2000	B	<b>3WL9 111-2AA62-0AA0</b>		1	1 unit	103	On req.
2500	B	<b>3WL9 111-2AA63-0AA0</b>		1	1 unit	103	On req.
3000	B	<b>3WL9 111-2AA77-0AA0</b>		1	1 unit	103	On req.
For size III							
4000	B	<b>3WL9 111-2AA65-0AA0</b>		1	1 unit	103	On req.
5000	B	<b>3WL9 111-2AA66-0AA0</b>		1	1 unit	103	On req.
<b>Ground fault detector modules</b>							
<b>GFM AT 45B</b> (only for ETU45B) alarm and tripping	B	<b>3WL9 111-2AT53-0AA0</b>		1	1 unit	103	On req.
<b>Displays</b>							
<b>4-line displays for ETU45B</b>	B	<b>3WL9 111-1AT81-0AA0</b>		1	1 unit	103	On req.
<b>CubicleBUS modules<sup>2)</sup></b>							
<b>Digital output modules with rotary coding switches, relay outputs</b>	C	<b>3WL9 111-1AT26-0AA0</b>		1	1 unit	103	On req.
<b>Digital output modules, configurable, relay outputs</b>	C	<b>3WL9 111-1AT20-0AA0</b>		1	1 unit	103	0.400
<b>Digital input modules</b>	C	<b>3WL9 111-1AT27-0AA0</b>		1	1 unit	103	On req.
<b>Analog output modules</b>	C	<b>3WL9 111-1AT23-0AA0</b>		1	1 unit	103	On req.
<b>Zone Selective Interlocking modules</b>	C	<b>3WL9 111-1AT21-0AA0</b>		1	1 unit	103	On req.
<b>Tools for parameterization, operation, and monitoring</b>							
<b>Breaker Data Adapters (BDA)</b>	B	<b>3WL9 111-2AT28-0AA0</b>		1	1 unit	103	On req.
Parameterization, control, diagnostics, and test of SENTRON circuit-breakers via local interface; Breaker Data Adapter, connecting cable to SENTRON circuit-breakers for programming device (e.g. notebook); can be run with Internet Explorer with JAVA2 VM							
<b>BDA Plus</b>	B	<b>3WL9 111-2AT33-0AA0</b>		1	1 unit	103	On req.
Same as BDA, but with additional Ethernet interface for connection to Ethernet/Intranet/Internet							
<b>Retrofitting and spare parts for communication through PROFIBUS</b>							
COM15 PROFIBUS module <sup>3)</sup>	B	<b>3WL9 111-1AT65-0AA0</b>		1	1 unit	103	On req.
Breaker status sensor (BSS)	C	<b>3WL9 111-1AT16-0AA0</b>		1	1 unit	103	On req.
Measurement function Plus, without voltage transformer	B	<b>3WL9 111-1AT03-0AA0</b>		1	1 unit	103	On req.



3WL9 111-2AA65-0AA00



3WL9 111-1AT23-0AA0

For further mechanical accessories, see pages 15/26 to 15/36.

For tripping characteristics and dimensions as well as "3WL Air Circuit-Breakers/Non-Automatic Air Circuit-Breakers up to 6300 A (AC)", see Catalog LV 1T, "Configuring Aids".

- 1) With the rated current module selected, the maximum rated current  $I_{n \max}$  of the circuit-breaker must not be exceeded. Following applies  $I_n < I_{n \max}$ .
- 2) Every **CubicleBUS** module is supplied with a factory-fitted 0.2 m cable.
- 3) Contains a 2 m **CubicleBUS** cable in addition.

\* You can order this quantity or a multiple thereof.

# 3WL 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

Size	Max. rated current for circuit-breaker $I_n$ max.	3-pole non-automatic circuit-breakers		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
		Order No. For Order No. supplements, see page 15/17	Price per PU				
A		DT					
<b>Horizontal main circuit connections</b>							
II	1000	B	<b>3WL12 10-8□□32-....</b>	1	1 unit	103	56.000
II	2000	B	<b>3WL12 20-8□□32-....</b>	1	1 unit	103	56.000
II	4000 <sup>1)</sup>	B	<b>3WL12 40-8□□32-....</b>	1	1 unit	103	64.000
<b>Vertical main circuit connections</b>							
II	1000	B	<b>3WL12 10-8□□31-....</b>	1	1 unit	103	56.000
II	2000	B	<b>3WL12 20-8□□31-....</b>	1	1 unit	103	56.000
II	4000 <sup>1)</sup>	B	<b>3WL12 40-8□□31-....</b>	1	1 unit	103	64.000
<b>Front main circuit connections, single hole</b>							
II	1000	B	<b>3WL12 10-8□□33-....</b>	1	1 unit	103	56.000
II	2000	B	<b>3WL12 20-8□□33-....</b>	1	1 unit	103	56.000
<b>Front main circuit connections, double hole</b>							
II	1000	B	<b>3WL12 10-8□□34-....</b>	1	1 unit	103	56.000
II	2000	B	<b>3WL12 20-8□□34-....</b>	1	1 unit	103	56.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>							
		Order No. supplements		Additional price			
Without electronic trip unit		AA		without			
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>							
Manual operating mechanism with mechanical activation		1AA2		without			

Size	Max. rated current for circuit-breaker $I_n$ max.	4-pole non-automatic circuit-breakers		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
		Order No. For Order No. supplements, see page 15/17	Price per PU				
A		DT					
<b>Horizontal main circuit connections</b>							
II	1000	B	<b>3WL12 10-8□□42-....</b>	1	1 unit	103	67.000
II	2000	B	<b>3WL12 20-8□□42-....</b>	1	1 unit	103	67.000
II	4000 <sup>1)</sup>	B	<b>3WL12 40-8□□42-....</b>	1	1 unit	103	77.000
<b>Vertical main circuit connections</b>							
II	1000	B	<b>3WL12 10-8□□41-....</b>	1	1 unit	103	67.000
II	2000	B	<b>3WL12 20-8□□41-....</b>	1	1 unit	103	67.000
II	4000 <sup>1)</sup>	B	<b>3WL12 40-8□□41-....</b>	1	1 unit	103	77.000
<b>Front main circuit connections, single hole</b>							
II	1000	B	<b>3WL12 10-8□□43-....</b>	1	1 unit	103	67.000
II	2000	B	<b>3WL12 20-8□□43-....</b>	1	1 unit	103	67.000
<b>Front main circuit connections, double hole</b>							
II	1000	B	<b>3WL12 10-8□□44-....</b>	1	1 unit	103	67.000
II	2000	B	<b>3WL12 20-8□□44-....</b>	1	1 unit	103	67.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>							
		Order No. supplements		Additional price			
Without electronic trip unit		AA		without			
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>							
Manual operating mechanism with mechanical closing		1AA2		without			

Rated voltage 1000 V DC: 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)", "Options", page 15/17 onwards.

An external overload and short-circuit protection device is available from the company "mat" for the SENTRON 3WL. To be purchased only directly from "mat – Maschinen- und Anlagen-technik".

- 1) Provisions to dissipate heat must be made on the line side.
- 2) For permissible short-time current rating  $I_{cw}$  and rated short-circuit switching capacity  $I_{cc}$  for non-automatic circuit-breakers, see Catalog LV 1T, "General Data", "Technical Specifications".

# 3WL Air Circuit-Breakers

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

3- and 4-pole, withdrawable versions

Size	Max. rated circuit-breaker current $I_{n \text{ max.}}$	3-pole non-automatic circuit-breakers		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
		Order No. For Order No. supplements, see page 15/17	Price per PU				
<b>Without guide frames (for guide frames see page 15/44)</b>							
II	1000	B	3WL12 10-8□□35-....	1	1 unit	103	60.000
II	2000	B	3WL12 20-8□□35-....	1	1 unit	103	60.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□35-....	1	1 unit	103	68.000
<b>With guide frames, horizontal main circuit connections</b>							
II	1000	B	3WL12 10-8□□36-....	1	1 unit	103	91.000
II	2000	B	3WL12 20-8□□36-....	1	1 unit	103	91.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□36-....	1	1 unit	103	113.000
<b>With guide frames, vertical main circuit connections</b>							
II	1000	B	3WL12 10-8□□37-....	1	1 unit	103	91.000
II	2000	B	3WL12 20-8□□37-....	1	1 unit	103	91.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□37-....	1	1 unit	103	113.000
<b>With guide frames, connecting flanges</b>							
II	1000	B	3WL12 10-8□□38-....	1	1 unit	103	91.000
II	2000	B	3WL12 20-8□□38-....	1	1 unit	103	91.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□38-....	1	1 unit	103	113.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>		Order No. supplements		Additional price			
Without electronic trip unit		AA		without			
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>							
Manual operating mechanism with mechanical closing		1AA2		without			

Size	Max. rated circuit-breaker current $I_{n \text{ max.}}$	4-pole non-automatic circuit-breakers		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
		Order No. For Order No. supplements, see page 15/17	Price per PU				
<b>Without guide frames (for guide frames see page 15/44)</b>							
II	1000	B	3WL12 10-8□□45-....	1	1 unit	103	72.000
II	2000	B	3WL12 20-8□□45-....	1	1 unit	103	72.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□45-....	1	1 unit	103	82.000
<b>With guide frames, horizontal main circuit connections</b>							
II	1000	B	3WL12 10-8□□46-....	1	1 unit	103	109.000
II	2000	B	3WL12 20-8□□46-....	1	1 unit	103	109.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□46-....	1	1 unit	103	136.000
<b>With guide frames, vertical main circuit connections</b>							
II	1000	B	3WL12 10-8□□47-....	1	1 unit	103	109.000
II	2000	B	3WL12 20-8□□47-....	1	1 unit	103	109.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□47-....	1	1 unit	103	136.000
<b>With guide frames, connecting flanges</b>							
II	1000	B	3WL12 10-8□□48-....	1	1 unit	103	109.000
II	2000	B	3WL12 20-8□□48-....	1	1 unit	103	109.000
II	4000 <sup>1)</sup>	B	3WL12 40-8□□48-....	1	1 unit	103	136.000
<b>Non-automatic circuit-breakers<sup>2)</sup></b>		Order No. supplements		Additional price			
Without electronic trip unit		AA		without			
<b>Standard Order No. supplements (for further Order No. supplements see page 15/17)</b>							
Manual operating mechanism with mechanical closing		1AA2		without			

Rated voltage 1000 V DC: 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 AC up to 6300 A", "Options", page 15/17 onwards.

An external overload and short-circuit protection device is available from the company "mat" for the SENTRON 3WL non-automatic circuit-breakers.  
To be purchased only directly from "mat – Maschinen- und Anlagentechnik" (for address, please contact your local Siemens representative).

- 1) Provisions to dissipate heat must be made on the line side.
- 2) For permissible short-time current rating  $I_{cw}$  and rated short-circuit switching capacity  $I_{cc}$  for non-automatic circuit-breakers, see Catalog LV 1T, "General Data", "Technical Specifications".

\* You can order this quantity or a multiple thereof.

# 3WL Air Circuit-Breakers

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

### Accessories/spare parts

#### Selection and ordering data

##### Guide frames for non-automatic circuit-breaker (DC)

Size	Max. rated circuit-breaker current $I_{n \max}$		<b>For 3-pole non-automatic circuit-breakers</b>	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	DT	Order No. (Order No. supplements required according to table below)	Price per PU			kg
<b>Front main circuit connections, single hole</b>							
II	2000	B	<b>3WL9 212-3DA□□-□□A 1</b>		1	1 unit	103 31.000
<b>Front main circuit connections, double hole</b>							
II	2000	B	<b>3WL9 212-3DB□□-□□A 1</b>		1	1 unit	103 31.000
<b>Horizontal main circuit connections</b>							
II	2000	B	<b>3WL9 212-3DC□□-□□A 1</b>		1	1 unit	103 31.000
II	4000	B	<b>3WL9 212-6DC□□-□□A 1</b>		1	1 unit	103 60.000
<b>Vertical main circuit connections</b>							
II	2000	B	<b>3WL9 212-3DD□□-□□A 1</b>		1	1 unit	103 31.000
II	4000	B	<b>3WL9 212-6DD□□-□□A 1</b>		1	1 unit	103 60.000
<b>Main circuit connections connecting flanges</b>							
II	2000	B	<b>3WL9 212-3DE□□-□□A 1</b>		1	1 unit	103 31.000
II	4000	B	<b>3WL9 212-6DE□□-□□A 1</b>		1	1 unit	103 60.000

Size	Max. rated circuit-breaker current $I_{n \max}$		<b>For 4-pole non-automatic circuit-breakers</b>	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	DT	Order No. (Order No. supplements required according to table below)	Price per PU			kg
<b>Front main circuit connections, single hole</b>							
II	2000	B	<b>3WL9 212-3EA□□-□□A 1</b>		1	1 unit	103 37.000
<b>Front main circuit connections, double hole</b>							
II	2000	B	<b>3WL9 212-3EB□□-□□A 1</b>		1	1 unit	103 37.000
<b>Horizontal main circuit connections</b>							
II	2000	B	<b>3WL9 212-3EC□□-□□A 1</b>		1	1 unit	103 37.000
II	4000	B	<b>3WL9 212-6EC□□-□□A 1</b>		1	1 unit	103 84.000
<b>Vertical main circuit connections</b>							
II	2000	B	<b>3WL9 212-3ED□□-□□A 1</b>		1	1 unit	103 37.000
II	4000	B	<b>3WL9 212-6ED□□-□□A 1</b>		1	1 unit	103 84.000
<b>Main circuit connections connecting flanges</b>							
II	2000	B	<b>3WL9 212-3EE□□-□□A 1</b>		1	1 unit	103 37.000
II	4000	B	<b>3WL9 212-6EE□□-□□A 1</b>		1	1 unit	103 84.000

	Order No. supplements	Add. price	Additional price
<b>Number of auxiliary supply connectors</b>			
None	0	3-pole	4-pole
1 connector	1	without	without
2 connectors	2	x	x
3 connectors	3	x	x
4 connectors	4	x	x
For required number of auxiliary supply connectors, see table on page 15/23			
<b>Type of auxiliary circuit connections</b>			
None	0	without	without
with SIGUT screw-type terminals	1	x	x
with tension spring connection	2	x	x
<b>Position indicator switches</b>			
None	0	without	without
Option 1	1	x	x
Option 2	2	x	x
operation 1 CO contact, test 1 CO contact, disconnected 1 CO contact			
operation 3 CO contacts, test 2 CO contacts, disconnected 1 CO contacts			
<b>Shutters</b>			
None	A	without	without
with shutter, 2 parts, lockable	B	x	x

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
**3WL9 2 1 2 - . . . . . A1-Z**  
 □□□

Rated voltage 1000 V DC **A05**

x additional price  
 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 AC up to 6300 A", "Options", page 15/17 onwards.

\* You can order this quantity or a multiple thereof.