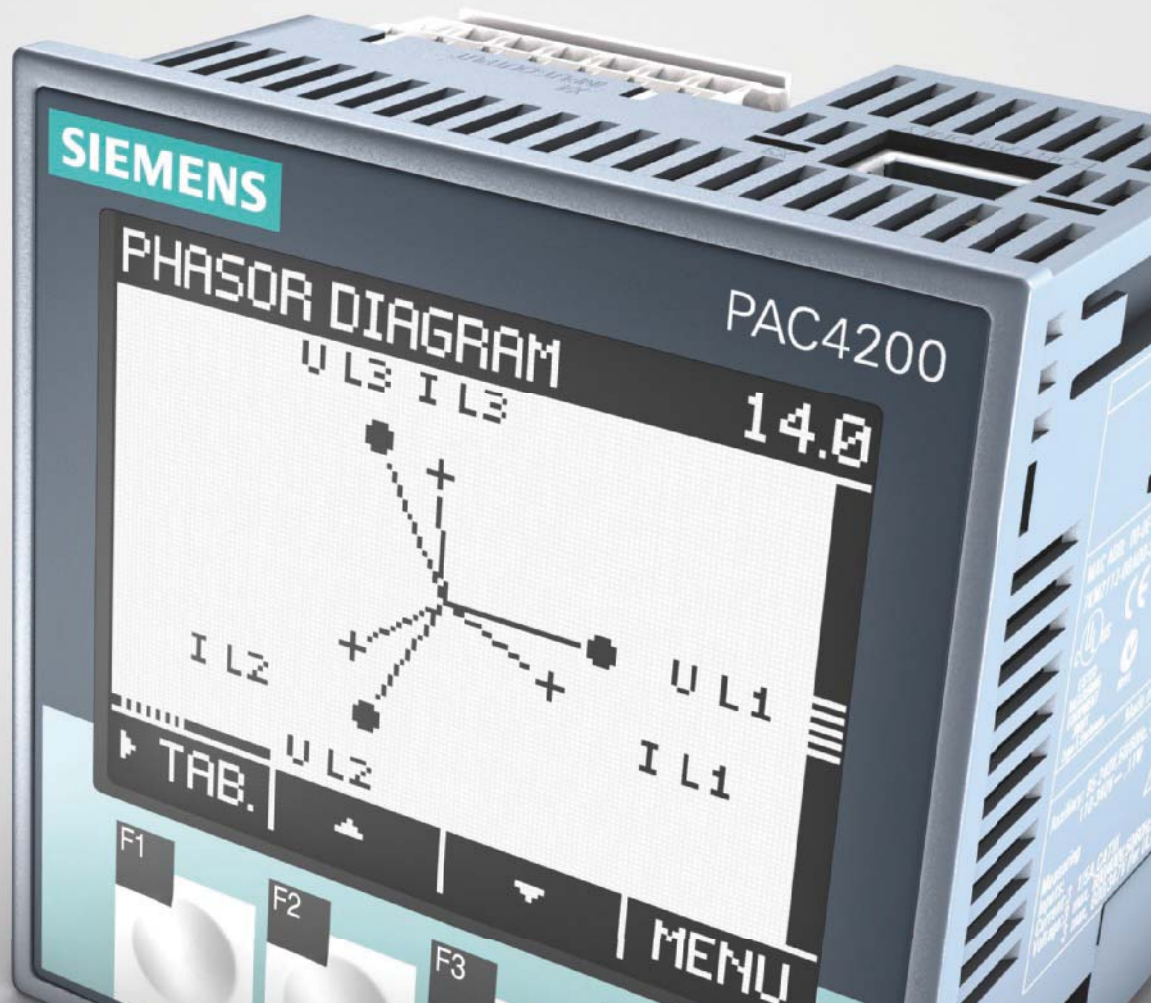


Low-Voltage Power Distribution and Electrical Installation Technology

Protection, Switching, Measuring and Monitoring Devices

Catalog LV 10.1 · 2012



SENTRON

Answers for infrastructure.

SIEMENS

Air Circuit Breakers

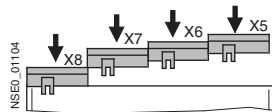
3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC

Accessories and spare parts

Overview

Determination of the number of auxiliary supply connectors required

This selection is only required if the guide frame is ordered under a separate Order No.



The required number of auxiliary supply connectors depends on:

- Operating mechanism type
- Electronic Trip Unit with/without current transformer
- Type and number of auxiliary releases
- Number of auxiliary switches
- COM15/COM16 communication interface

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

For ordering the auxiliary supply connectors see at "Accessories and spare parts, Guide frames for AC circuit breakers/non-automatic air circuit breakers", pages 1/38 to 1/41 and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/47.

Air Circuit Breakers

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

Accessories and spare parts

Selection and ordering data

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

Size	Max. rated circuit breaker current I_n max.	Breaking capacity I_{cu}	DT	Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.													
A		kA		Order No. (Order No. supplements required acc. to table below)	Basic price per PU		kg														
Front main circuit connection, single hole																					
I	1000	... 66	B	3WL9 211-1AA□□-□□A1	1	1 unit	103	25.000													
I	1600	... 66	B	3WL9 211-2AA□□-□□A1	1	1 unit	103	25.000													
II	2000	... 100	B	3WL9 212-3AA□□-□□A1	1	1 unit	103	31.000													
II	2500	... 100	B	3WL9 212-4AA□□-□□A1	1	1 unit	103	39.000													
II	3200	... 100	B	3WL9 212-5AA□□-□□A1	1	1 unit	103	45.000													
III	4000	... 100	B	3WL9 213-6AA□□-□□A1	1	1 unit	103	60.000													
Front main circuit connection, double hole																					
I	1000	... 66	B	3WL9 211-1AB□□-□□A1	1	1 unit	103	25.000													
I	1600	... 66	B	3WL9 211-2AB□□-□□A1	1	1 unit	103	25.000													
I	2000	... 85	B	3WL9 211-3AB□□-□□A1	1	1 unit	103	25.000													
II	2000	... 100	B	3WL9 212-3AB□□-□□A1	1	1 unit	103	31.000													
II	2500	... 100	B	3WL9 212-4AB□□-□□A1	1	1 unit	103	39.000													
II	3200	... 100	B	3WL9 212-5AB□□-□□A1	1	1 unit	103	45.000													
III	4000	... 100	B	3WL9 213-6AB□□-□□A1	1	1 unit	103	60.000													
Horizontal main circuit connection																					
I	1000	... 66	B	3WL9 211-1AC□□-□□A1	1	1 unit	103	25.000													
I	1600	... 66	B	3WL9 211-2AC□□-□□A1	1	1 unit	103	25.000													
I	2000	... 85	B	3WL9 211-3AC□□-□□A1	1	1 unit	103	25.000													
II	2000	... 100	B	3WL9 212-3AC□□-□□A1	1	1 unit	103	31.000													
II	2500	... 100	B	3WL9 212-4AC□□-□□A1	1	1 unit	103	39.000													
II	3200	... 100	B	3WL9 212-5AC□□-□□A1	1	1 unit	103	45.000													
III	4000	... 100	B	3WL9 213-6AC□□-□□A1	1	1 unit	103	60.000													
III	5000	... 100	B	3WL9 213-7AC□□-□□A1	1	1 unit	103	60.000													
III	4000	... 150	B	3WL9 213-6AC□□-□□C1	1	1 unit	103	63.000													
III	5000	... 150	B	3WL9 213-7AC□□-□□C1	1	1 unit	103	63.000													
Number of auxiliary supply connectors				Order No. supplements	Add. price																
Without				0	None																
1 connector				1	✓																
2 connectors				2	✓																
3 connectors				3	✓																
4 connectors				4	✓																
For required number of auxiliary supply connectors, see table on page 1/37																					
Type of auxiliary circuit connections				0	None																
Without				1	✓																
With screw connection (SIGUT, standard)				2	✓																
With screwless connection method (tension spring)																					
Position signaling switches				0	None																
Without				1	✓																
Option 1				2	✓																
Connected position 1 CO, test position 1 CO, disconnected position 1 CO																					
Option 2																					
Connected position 3 CO, test position 2 CO, disconnected position 1 CO																					
Shutters				A	None																
Without				B	✓																
With shutter, Size I					✓																
2-part, Size II					✓																
lockable, Size III					✓																
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	Additional price
					3WL9 2 1 -Z																
					□□□																
Rated voltage 1000 V AC and 690 V IT networks																					
Size I (breaking capacity H)					A 05															✓	
Size II, except 4000 A (breaking capacity H)					A 05															✓	
Size III, not necessary with circuit breakers with very high breaking capacity					A 05															✓	
Rated voltage 1150 V AC																					
Size II, except 4000 A (breaking capacity H)					A 15															✓	
Rated voltage 690 V AC (+ 20 %)																					
Size I (breaking capacity H)					A 16															✓	
Tinned version of the customer's connections on guide frame ¹⁾²⁾																					
Only for guide frames with horizontal connection or flange connection																					
Size I					A 08															✓	
Size II					A 08															✓	
Size III					A 08															✓	

For main circuit connection vertical and main circuit connecting flange see the following page.
All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 1/32 to 1/36.

✓ Additional price

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

Air Circuit Breakers

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

Accessories and spare parts

Size	Max. rated circuit breaker current I_n max.	Breaking capacity I_{cu}	DT	Guide frames for 3-pole circuit breakers/non-automatic air circuit breakers Order No. (Order No. supplements required acc. to table below)	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg															
	A	kA																						
Vertical main circuit connection																								
I	1000	... 66	B	3WL9 211-1AD□□-□□A1		1	1 unit	103	25.000															
I	1600	... 66	B	3WL9 211-2AD□□-□□A1		1	1 unit	103	25.000															
I	2000	... 85	B	3WL9 211-3AD□□-□□A1		1	1 unit	103	25.000															
II	2000	... 100	B	3WL9 212-3AD□□-□□A1		1	1 unit	103	31.000															
II	2500	... 100	B	3WL9 212-4AD□□-□□A1		1	1 unit	103	39.000															
II	3200	... 100	B	3WL9 212-5AD□□-□□A1		1	1 unit	103	45.000															
III	4000	... 100	B	3WL9 213-6AD□□-□□A1		1	1 unit	103	60.000															
III	5000	... 100	B	3WL9 213-7AD□□-□□A1		1	1 unit	103	60.000															
III	6300	... 100	B	3WL9 213-8AD□□-□□A1		1	1 unit	103	70.000															
III	4000	... 150	B	3WL9 213-6AD□□-□□C1		1	1 unit	103	63.000															
III	5000	... 150	B	3WL9 213-7AD□□-□□C1		1	1 unit	103	63.000															
III	6300	... 150	B	3WL9 213-8AD□□-□□C1		1	1 unit	103	74.000															
Main circuit connection connecting flanges																								
I	1000	... 66	B	3WL9 211-1AE□□-□□A1		1	1 unit	103	25.000															
I	1600	... 66	B	3WL9 211-2AE□□-□□A1		1	1 unit	103	25.000															
I	2000	... 85	B	3WL9 211-3AE□□-□□A1		1	1 unit	103	25.000															
II	2000	... 100	B	3WL9 212-3AE□□-□□A1		1	1 unit	103	31.000															
II	2500	... 100	B	3WL9 212-4AE□□-□□A1		1	1 unit	103	39.000															
II	3200	... 100	B	3WL9 212-5AE□□-□□A1		1	1 unit	103	45.000															
III	4000	... 100	B	3WL9 213-6AE□□-□□A1		1	1 unit	103	60.000															
Number of auxiliary supply connectors				Order No. supplements	0	Add. price																		
Without				1	1	None																		
1 connector				2	2	✓																		
2 connectors				3	3	✓																		
3 connectors				4	4	✓																		
4 connectors						✓																		
For required number of auxiliary supply connectors, see table on page 1/37																								
Type of auxiliary circuit connections				0	None																			
Without				1	✓																			
With screw connection (SIGUT, standard)				2	✓																			
With screwless connection method (tension spring)					✓																			
Position signaling switches				0	None																			
Without				1	✓																			
Option 1				2	✓																			
Option 2					✓																			
Shutters				A	None																			
Without				B	✓																			
With shutter, 2-part, lockable					✓																			
					✓																			
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	Additional price			
					3	W	9	2	1	-Z			
Rated voltage 1000 V AC and 690 V IT networks																								
Size I (breaking capacity H)																							✓	
Size II, except 4000 A (breaking capacity H)																							✓	
Size III, not necessary with circuit breakers with very high breaking capacity																							✓	
Rated voltage and insulating voltage 1150 V AC																								✓
Size II, except 4000 A (breaking capacity H)																								✓
Rated voltage 690 V AC (+ 20 %)																								✓
Size I (breaking capacity H)																								✓
Tinned version of the customer's connections on the guide frame ¹⁾²⁾																								✓
Only for guide frames with horizontal connection or flange connection																								✓
Size I																							✓	
Size II																								✓
Size III																								✓

For main circuit connection front, single hole, main circuit connection front, double hole, and main circuit connection horizontal see the previous page.

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 1/32 to 1/36.

✓ Additional price

1) Front connections are tinned as standard.

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

Air Circuit Breakers

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

Accessories and spare parts

Size	Max. rated circuit breaker current $I_{n \max}$	Breaking capacity I_{cu}	DT	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.													
				Order No. (Order No. supplements required acc. to table below)	Basic price per PU		kg														
A		kA																			
Front main circuit connection, single hole																					
I	1000	... 66	B	3WL9 211-1BA□□-□□A1	1	1 unit	103	30.000													
I	1600	... 66	B	3WL9 211-2BA□□-□□A1	1	1 unit	103	30.000													
II	2000	... 100	B	3WL9 212-3BA□□-□□A1	1	1 unit	103	37.000													
II	2500	... 100	B	3WL9 212-4BA□□-□□A1	1	1 unit	103	47.000													
II	3200	... 100	B	3WL9 212-5BA□□-□□A1	1	1 unit	103	54.000													
III	4000	... 100	B	3WL9 213-6BA□□-□□A1	1	1 unit	103	84.000													
Front main circuit connection, double hole																					
I	1000	... 66	B	3WL9 211-1BB□□-□□A1	1	1 unit	103	30.000													
I	1600	... 66	B	3WL9 211-2BB□□-□□A1	1	1 unit	103	30.000													
I	2000	... 85	B	3WL9 211-3BB□□-□□A1	1	1 unit	103	30.000													
II	2000	... 100	B	3WL9 212-3BB□□-□□A1	1	1 unit	103	37.000													
II	2500	... 100	B	3WL9 212-4BB□□-□□A1	1	1 unit	103	47.000													
II	3200	... 100	B	3WL9 212-5BB□□-□□A1	1	1 unit	103	54.000													
III	4000	... 100	B	3WL9 213-6BB□□-□□A1	1	1 unit	103	84.000													
Horizontal main circuit connection																					
I	1000	... 66	B	3WL9 211-1BC□□-□□A1	1	1 unit	103	30.000													
I	1600	... 66	B	3WL9 211-2BC□□-□□A1	1	1 unit	103	30.000													
I	2000	... 85	B	3WL9 211-3BC□□-□□A1	1	1 unit	103	30.000													
II	2000	... 100	B	3WL9 212-3BC□□-□□A1	1	1 unit	103	37.000													
II	2500	... 100	B	3WL9 212-4BC□□-□□A1	1	1 unit	103	47.000													
II	3200	... 100	B	3WL9 212-5BC□□-□□A1	1	1 unit	103	54.000													
III	4000	... 100	B	3WL9 213-6BC□□-□□A1	1	1 unit	103	84.000													
III	5000	... 100	B	3WL9 213-7BC□□-□□A1	1	1 unit	103	84.000													
III	4000	... 130	B	3WL9 213-6BC□□-□□C1	1	1 unit	103	87.000													
III	5000	... 130	B	3WL9 213-7BC□□-□□C1	1	1 unit	103	87.000													
Number of auxiliary supply connectors				Order No. supplements	Add. price																
Without				0	None																
1 connector				1	✓																
2 connectors				2	✓																
3 connectors				3	✓																
4 connectors				4	✓																
For required number of auxiliary supply connectors, see table on page 1/37																					
Type of auxiliary circuit connections				0	None																
Without				1	✓																
With screw connection (SIGUT, standard)				2	✓																
With screwless connection method (tension spring)																					
Position signaling switches				0	None																
Without				1	✓																
Option 1	Connected position 1 CO, test position 1 CO, disconnected position 1 CO			2	✓																
Option 2	Connected position 3 CO, test position 2 CO, disconnected position 1 CO																				
Shutters				A	None																
Without				B	✓																
With shutter, 2-part, lockable					✓																
Size I					✓																
Size II					✓																
Size III					✓																
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	Additional price
				3WL9 2 1 -Z	□□																
Rated voltage 1000 V AC and 690 V IT networks				NEW	A 0 5																✓
Size I (breaking capacity H)					A 0 5																✓
Size II, except 4000 A (breaking capacity H)					A 0 5																✓
Size III, not necessary with circuit breakers with very high breaking capacity																					
Rated voltage 1150 V AC					A 1 5																✓
Size II, except 4000 A (breaking capacity H)																					
Rated voltage 690 V AC (+ 20 %)				NEW	A 1 6																✓
Size I (breaking capacity H)																					
Tinned version of the customer's connections on the guide frame ¹⁾²⁾					A 0 8																✓
Only for guide frames with horizontal connection or flange connection					A 0 8																✓
Size I					A 0 8																✓
Size II					A 0 8																✓
Size III					A 0 8																✓

For main circuit connection vertical and main circuit connecting flange see the following page.

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 1/32 to 1/36.

✓ Additional price

1) Front connections are tinned as standard.

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

Air Circuit Breakers

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

Accessories and spare parts

Size	Max. rated circuit breaker current I_n max.	Breaking capacity I_{cu}	DT	Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
				Order No. (Order No. supplements required acc. to table below)	Basic price per PU		kg	
A		kA						
Vertical main circuit connection								
I	1000	... 66	B	3WL9 211-1BD□□-□□A1	1	1 unit	103	30.000
I	1600	... 66	B	3WL9 211-2BD□□-□□A1	1	1 unit	103	30.000
I	2000	... 85	B	3WL9 211-3BD□□-□□A1	1	1 unit	103	30.000
II	2000	... 100	B	3WL9 212-3BD□□-□□A1	1	1 unit	103	37.000
II	2500	... 100	B	3WL9 212-4BD□□-□□A1	1	1 unit	103	47.000
II	3200	... 100	B	3WL9 212-5BD□□-□□A1	1	1 unit	103	54.000
III	4000	... 100	B	3WL9 213-6BD□□-□□A1	1	1 unit	103	84.000
III	5000	... 100	B	3WL9 213-7BD□□-□□A1	1	1 unit	103	84.000
III	6300	... 100	B	3WL9 213-8BD□□-□□A1	1	1 unit	103	119.000
III	4000	... 130	B	3WL9 213-6BD□□-□□C1	1	1 unit	103	88.000
III	5000	... 130	B	3WL9 213-7BD□□-□□C1	1	1 unit	103	88.000
III	6300	... 130	B	3WL9 213-8BD□□-□□C1	1	1 unit	103	124.000
Main circuit connection connecting flanges								
I	1000	... 66	B	3WL9 211-1BE□□-□□A1	1	1 unit	103	30.000
I	1600	... 66	B	3WL9 211-2BE□□-□□A1	1	1 unit	103	30.000
I	2000	... 85	B	3WL9 211-3BE□□-□□A1	1	1 unit	103	30.000
II	2000	... 100	B	3WL9 212-3BE□□-□□A1	1	1 unit	103	37.000
II	2500	... 100	B	3WL9 212-4BE□□-□□A1	1	1 unit	103	47.000
II	3200	... 100	B	3WL9 212-5BE□□-□□A1	1	1 unit	103	54.000
III	4000	... 100	B	3WL9 213-6BE□□-□□A1	1	1 unit	103	84.000
Number of auxiliary supply connectors				Order No. supplements	Add. price			
Without				0	None			
1 connector				1	✓			
2 connectors				2	✓			
3 connectors				3	✓			
4 connectors				4	✓			
For required number of auxiliary supply connectors, see table on page 1/37								
Type of auxiliary circuit connections								
Without				0	None			
With screw connection (SIGUT, standard)				1	✓			
With screwless connection method (tension spring)				2	✓			
Position signaling switches								
Without				0	None			
Option 1 Connected position 1 CO, test position 1 CO, disconnected position 1 CO				1	✓			
Option 2 Connected position 3 CO, test position 2 CO, disconnected position 1 CO				2	✓			
Shutters								
Without				A	None			
With shutter, 2-part, lockable				B	✓			
					✓			
					✓			
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	Additional price		
Rated voltage 1000 V AC and 690 V IT networks					3WL9 2 1			
Size I (breaking capacity H)				NEW	A 0 5	✓		
Size II, except 4000 A (breaking capacity H)					A 0 5	✓		
Size III, not necessary with circuit breakers with very high breaking capacity					A 0 5	✓		
Rated voltage 1150 V AC					A 1 5	✓		
Size II, except 4000 A (breaking capacity H)					A 1 5	✓		
Rated voltage 690 V AC (+ 20 %)				NEW	A 1 6	✓		
Size I (breaking capacity H)					A 1 6	✓		
Tinned version of the customer's connections on the guide frame ¹⁾²⁾					A 0 8	✓		
Only for guide frames with horizontal connection or flange connection					A 0 8	✓		
Size I					A 0 8	✓		
Size II					A 0 8	✓		
Size III					A 0 8	✓		

For main circuit connection front, single hole, main circuit connection front, double hole, and main circuit connection horizontal see the previous page.

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see pages 1/32 to 1/36.

✓ Additional price


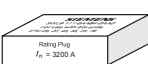

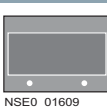

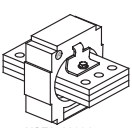
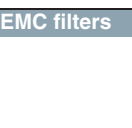
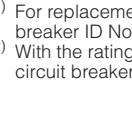
1) Front connections are tinned as standard.

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

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Electronic Trip Units with device holder & optional measurement function¹⁾							
 NSE0_01610b	Type	With protection function	Measurement function				
	ETU15B	LI	Without	C	3WL9 311-5AA00-0AA2	1 1 unit	103 0.720
	ETU25B	LSI	Without	C	3WL9 312-5AA00-0AA2	1 1 unit	103 0.720
	ETU27B	LSING	Without	C	3WL9 312-7AA00-0AA2	1 1 unit	103 0.720
	ETU45B (without display)	LSIN(G)	Without With measurement function <i>Plus</i>	C B	3WL9 314-5AA00-0AA2 3WL9 314-5AA20-0AA2	1 1 unit 1 1 unit	103 0.720 103 0.720
	ETU76B	LSIN(G)	Without With measurement function <i>Plus</i>	C B	3WL9 317-6AA00-0AA2 3WL9 317-6AA20-0AA2	1 1 unit 1 1 unit	103 0.720 103 0.720
Rating plugs²⁾							
 NSE0_00992b	For size	Rated current I_n (A)					
	I, II	250	B	3WL9 111-0AA51-0AA0	1 1 unit	103 0.010	
		315	B	3WL9 111-0AA52-0AA0	1 1 unit	103 0.010	
		400	B	3WL9 111-0AA53-0AA0	1 1 unit	103 0.010	
		500	B	3WL9 111-0AA54-0AA0	1 1 unit	103 0.010	
		630	B	3WL9 111-0AA55-0AA0	1 1 unit	103 0.010	
		800	B	3WL9 111-0AA56-0AA0	1 1 unit	103 0.010	
		1000	B	3WL9 111-0AA57-0AA0	1 1 unit	103 0.010	
	I, II, III	1250	B	3WL9 111-0AA58-0AA0	1 1 unit	103 0.010	
		1600	B	3WL9 111-0AA61-0AA0	1 1 unit	103 0.010	
	II, III	2000	B	3WL9 111-0AA62-0AA0	1 1 unit	103 0.010	
		2500	B	3WL9 111-0AA63-0AA0	1 1 unit	103 0.010	
		3200	B	3WL9 111-0AA64-0AA0	1 1 unit	103 0.010	
4000		B	3WL9 111-0AA65-0AA0	1 1 unit	103 0.010		
III	5000	B	3WL9 111-0AA66-0AA0	1 1 unit	103 0.010		
	6300	B	3WL9 111-0AA67-0AA0	1 1 unit	103 0.010		
Ground-fault modules³⁾							
 NSE0_01027a	GFM AT 45B (only for ETU45B) alarm and tripping		B	3WL9 111-0AT53-0AA0	1 1 unit	103 0.030	
Displays							
 NSE0_01609	4-line displays for ETU45B		B	3WL9 111-0AT81-0AA0	1 1 unit	103 0.060	
Current transformers for N conductor protection							
 NSE0_00990a	Internal transformers for N conductors (not for ETU Release 2)		Size I	B	3WL9 111-0AA11-0AA0	1 1 unit	103 0.200
			Size II	B	3WL9 111-0AA12-0AA0	1 1 unit	103 0.280
			Size III	B	3WL9 111-0AA13-0AA0	1 1 unit	103 0.500
		Including wiring kit					
 NSE0_00991a	Internal transformers for N conductors Only for ETU Release 2		Size I	B	3WL9 111-0AA14-0AA0	1 1 unit	103 0.200
			Size II	B	3WL9 111-0AA15-0AA0	1 1 unit	103 0.280
			Size III	B	3WL9 111-0AA16-0AA0	1 1 unit	103 0.500
		Including wiring kit					
 NSE0_00991a	External transformers for N conductors (for T5, "Measurement Method" function see Technical Information at www.siemens.com/lowvoltage/support .)		Size I	B	3WL9 111-0AA21-0AA0	1 1 unit	103 0.300
			Size II	B	3WL9 111-0AA22-0AA0	1 1 unit	103 0.380
			Size III	B	3WL9 111-0AA23-0AA0	1 1 unit	103 0.680
		Including wiring kit					
 NSE0_00991a	External transformers for N conductors with copper connection pieces		Size I	B	3WL9 111-0AA31-0AA0	1 1 unit	103 1.600
			Size II	B	3WL9 111-0AA32-0AA0	1 1 unit	103 4.260
			Size III	B	3WL9 111-0AA33-0AA0	1 1 unit	103 8.500
		Including wiring kit					
EMC filters							
EMC filters		Common-mode interference suppressor filters (e. g. in IT networks, caused by frequency converters)		Not for ETU Release 2	B	3WL9 111-0AK32-0AA0	1 1 unit 103 0.280
		Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB.		Only for ETU Release 2	B	3WL9 111-0AK34-0AA0	1 1 unit 103 0.280

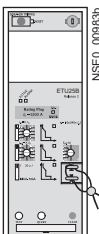
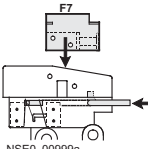
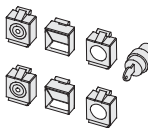
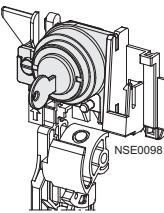
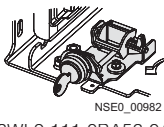
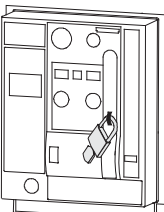
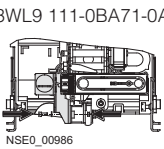
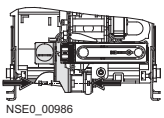
1) For replacement in existing circuit breakers please specify the circuit breaker ID No. when ordering.
2) With the rating plug selected, the maximum rated current $I_{n,max}$ of the circuit breaker must not be exceeded. The following applies $I_n \leq I_{n,max}$.

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

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
More accessories for Electronic Trip Units							
 NSE0_00983b	Sealable and lockable covers	For ETU15B to ETU45B	B	3WL9 111-0AT45-0AA0	1	1 unit	103 0.050
		For ETU76	B	3WL9 111-0AT46-0AA0	1	1 unit	103 0.050
	Automatic reset of the reclosing lockout	Spare part for option K01 , see "-Z" + order code, page 1/33 .	B	3WL9 111-0AK21-0AA0	1	1 unit	103 0.050
	Remote reset coils¹⁾	24 V DC	B	3WL9 111-0AK03-0AA0	1	1 unit	103 0.200
		48 V DC	B	3WL9 111-0AK04-0AA0	1	1 unit	103 0.200
	Spare part for option K10 to K13 , see "-Z" + order code, page 1/33 .	120 V AC/ 125 V DC	B	3WL9 111-0AK05-0AA0	1	1 unit	103 0.200
		208-250 V AC/ 208-250 V DC	B	3WL9 111-0AK06-0AA0	1	1 unit	103 0.200
 NSE0_00999a	Retrofittable internal CubicleBUS wiring for connection to terminal X8 (without male connector ²⁾)	For ETU45B and ETU76B	B	3WL9 111-0AK30-0AA0	1	1 unit	103 0.150
	Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8 (without male connector, not for ETU Release 2)		D	3WL9 111-0AK31-0AA0	1	1 unit	103 0.020
	Retrofittable internal wiring for connection of the external N- and G-transformers to terminal X8 for ETU Release 2 (without male connector)		D	3WL9 111-0AK33-0AA0	1	1 unit	103 0.020
Locking devices							
 NSE00980	Interlocking set for mechanical ON/OFF consisting of 2 transparent covers each for sealing or for attaching padlocks ⁴⁾ , Cover with 6.35 mm hole (for tool actuation), lock mount for safety lock for key operation	Without safety lock	B	3WL9 111-0BA21-0AA0	1	1 unit	103 0.100
		Made by CES	B	3WL9 111-0BA22-0AA0	1	1 unit	103 0.300
		Made by IKON	B	3WL9 111-0BA24-0AA0	1	1 unit	103 0.300
 NSE00981	Locking devices against unauthorized closing, in the operator panels The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1	Assembly kit FORTRESS ³⁾ or CASTELL ³⁾	B	3WL9 111-0BA31-0AA0	1	1 unit	103 0.200
		Made by Ronis	B	3WL9 111-0BA33-0AA0	1	1 unit	103 0.400
		Made by KIRK-Key ³⁾	B	3WL9 111-0BA34-0AA0	1	1 unit	103 0.270
		Made by Profalux	B	3WL9 111-0BA35-0AA0	1	1 unit	103 0.250
		Made by CES	B	3WL9 111-0BA36-0AA0	1	1 unit	103 0.200
		Made by IKON	B	3WL9 111-0BA38-0AA0	1	1 unit	103 0.200
		Assembly kit for padlocks ⁴⁾	B	3WL9 111-0BA41-0AA0	1	1 unit	103 0.360
 NSE0_00982	Locking devices against unauthorized closing, for withdrawable circuit breakers The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 consisting of lock in the cabinet door, active in connected position; function is retained when circuit breaker is replaced Spare part for option R60, R61, R68 , see "-Z" + order code, page 1/35 .	Made by CES	B	3WL9 111-0BA51-0AA0	1	1 unit	103 0.300
		Made by IKON	B	3WL9 111-0BA53-0AA0	1	1 unit	103 0.300
		Made by KIRK-Key ³⁾	B	3WL9 111-0BA57-0AA0	1	1 unit	103 0.300
		Made by Ronis	B	3WL9 111-0BA58-0AA0	1	1 unit	103 0.300
		Made by Profalux	B	3WL9 111-0BA50-0AA0	1	1 unit	103 0.227
 NSE00984	Locking devices for operating mechanism handle with padlock⁴⁾ Spare part for option S33 , see "-Z" + order code, page 1/35 .		B	3WL9 111-0BA71-0AA0	1	1 unit	103 0.080
 NSE00984	Locking devices against movement of the withdrawable circuit breakers Safety lock for mounting on the circuit breaker. Spare part for option S71, S75, S76 see "-Z" + order code, page 1/35 .	Made by CES	B	3WL9 111-0BA73-0AA0	1	1 unit	103 0.300
		Made by IKON	B	3WL9 111-0BA75-0AA0	1	1 unit	103 0.200
		Made by Profalux	B	3WL9 111-0BA76-0AA0	1	1 unit	103 0.300
		Made by Ronis	B	3WL9 111-0BA77-0AA0	1	1 unit	103 0.300
		Made by KIRK-Key ³⁾	B	3WL9 111-0BA80-0AA0	1	1 unit	103 0.400
 NSE0_00986	Interlocking systems 2 of the same keys for 3 circuit breakers, locking device OFF position, key-operated switch on operator panel. A maximum of 2 circuit breakers can be switched on.	Made by CES	B	3WL9 111-0BA43-0AA0	1	1 unit	103 0.360

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

2) Required if communication is retrofitted.

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

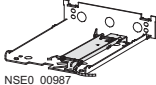
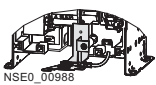
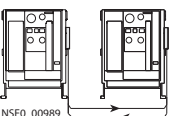
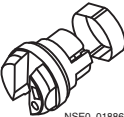
4) Padlock not included in the scope of supply.

■ Start of delivery on request.

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Locking mechanisms							
 <p>NSE0_00987</p> <p>3WL9 111-0BA83-0AA0</p>	<p>To prevent movement of the withdrawable circuit breakers in disconnected positions, consisting of Bowden wire and lock in the cabinet door</p> <p>Made by CES Made by IKON Made by Profalux Made by Ronis</p>	B B B B	<p>3WL9 111-0BA81-0AA0</p> <p>3WL9 111-0BA83-0AA0</p> <p>3WL9 111-0BA85-0AA0</p> <p>3WL9 111-0BA86-0AA0</p>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	103 103 103 103	0.800 0.800 0.800 0.800
 <p>NSE0_00988</p> <p>3WL9 111-0BB12-0AA0</p>	<p>Spare part for option R81, R85, R86, see "-Z" + order code, page 1/35.</p> <p>Not possible in combination with "Locking device to prevent opening of the cabinet door" (order code "R30") or "Locking device to prevent movement with the cabinet door open" (order code "R50").</p>						
	<p>To prevent opening of the cabinet door in ON position (can be defeated)</p> <p>Spare part for option S30, see "-Z" + order code, page 1/35.</p>	Fixed mounting	B	3WL9 111-0BB12-0AA0	1	1 unit	103 0.600
	<p>To prevent opening of the cabinet door (can be defeated)</p> <p>Spare part for option R30, see "-Z" + order code, page 1/35.</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>	Guide frames	B	3WL9 111-0BB13-0AA0	1	1 unit	103 0.150
	<p>To prevent movement with the cabinet door open</p> <p>Spare part for option R50, see "-Z" + order code, page 1/35.</p> <p>Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").</p>	Guide frames	B	3WL9 111-0BB15-0AA0	1	1 unit	103 0.150
Interlocks							
 <p>NSE0_00989</p> <p>3WL9 111-0BB21-0AA0</p>	<p>Mutual mechanical interlocking, with 2000 mm Bowden wire (one required for each circuit breaker)</p>	Fixed-mounted circuit breakers	B	3WL9 111-0BB21-0AA0	1	1 unit	103 2.700
	<p>Spare part for option S55, see "-Z" + order code, page 1/34.</p>						
	<p>Module for withdrawable circuit breakers with guide frame</p> <p>Spare part for option R55, see "-Z" + order code, page 1/34.</p> <p><u>When ordered separately</u></p>		B	3WL9 111-0BB24-0AA0	1	1 unit	103 1.130
	<p>Module for guide frame</p> <p>Spare part for option R56, see "-Z" + order code, page 1/34.</p>		B	3WL9 111-0BB22-0AA0	1	1 unit	103 1.100
	<p>Module for withdrawable circuit breaker</p> <p>Spare part for option R57, see "-Z" + order code, page 1/34.</p>		B	3WL9 111-0BB23-0AA0	1	1 unit	103 0.150
	<p>Adapter for size III Withdraw. circuit breaker</p>		B	3WL9 111-0BB30-0AA0	1	1 unit	103 0.100
	<p>Couplings on the circuit breaker (with ring) for mutual interlocking Can be used in all circ. breakers</p>		B	3WL9 112-8AH47-0AA0	1	1 unit	103 0.160
 <p>NSE0_01886</p> <p>3WL9 112-8HA47-0AA0</p>	<p>Bowden wires</p> <p>2000 mm 3,000 mm 4,500 mm</p>	B B B	<p>3WL9 111-0BB45-0AA0</p> <p>3WL9 111-0BB46-0AA0</p> <p>3WL9 111-0BB47-0AA0</p>	1 1 1	1 unit 1 unit 1 unit	103 103 103	0.150 0.220 0.360

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

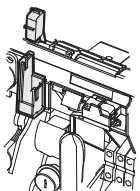
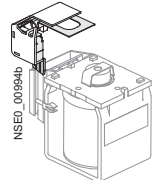
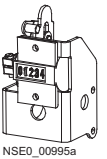
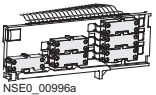
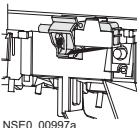
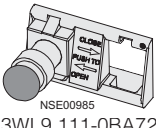
Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Test devices							
Manual tester Release 2 for Electronic Trip Units ETU15B to ETU76B For testing the Electronic Trip Unit functions	B	3WL9 111-0AT32-0AA0		1	1 unit	103	1.100
Function testers For testing the tripping characteristics for Electronic Trip Units ETU15B to ETU76B	D	3WL9 111-0AT44-0AA0		1	1 unit	103	8.210
Capacitor storage devices							
Capacitor storage devices <u>For shunt release</u> Storage time 5 min Rated control supply voltage must match the rated control supply voltage of the shunt release Suitable also for 3VL and 3WN circuit breakers.			Rated control supply voltage/rated operational voltage				
			50/60 Hz V AC	V DC			
			220 ... 240	220 ... 250	B	3WL9 111-0BA14-0AA0	1 1 unit 103 0.520

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Indicators, control elements							
 NSE0_00993a		Ready-to-close signaling switches 1 NO contact Spare part for option C22 , see "-Z" + order code, page 1/33 .	B	3WL9 111-0AH01-0AA0	1	1 unit	103 0.020
		Signaling switches ¹⁾²⁾ Spare part for option C26 and C27 , see "-Z" + order code, page 1/33 .	1st or 2nd auxiliary release	B	3WL9 111-0AH02-0AA0	1	1 unit 103 0.020
 NSE0_0094b		Tripped signaling switches ¹⁾²⁾ 1 CO contact Spare part for option K07 , see "-Z" + order code, page 1/33 .	B	3WL9 111-0AH14-0AA0	1	1 unit	103 0.080
		Operating cycles counters, mechanical ³⁾ Spare part for option C01 , see "-Z" + order code, page 1/33 .	B	3WL9 111-0AH07-0AA0	1	1 unit	103 0.100
 NSE0_0095a		Stored energy status signaling switches ¹⁾²⁾ 1 NO contact Spare part for option C20 , see "-Z" + order code, page 1/33 .	B	3WL9 111-0AH08-0AA0	1	1 unit	103 0.030
		Position signaling switches for guide frames	1st block (3 CO) 2nd block (6 CO)	B	3WL9 111-0AH11-0AA0 3WL9 111-0AH12-0AA0	1 1	1 unit 103 0.200 1 unit 103 0.400
 NSE0_0096a		Electrical ON buttons ¹⁾⁴⁾ (button+wiring) ²⁾ , for operator panel. Possible only for circuit breakers with closing coil.	With sealing cap With CES assembly kit With IKON assembly kit	B	3WL9 111-0AJ02-0AA0 3WL9 111-0AJ03-0AA0 3WL9 111-0AJ05-0AA0	1 1 1	1 unit 103 0.150 1 unit 103 0.140 1 unit 103 0.140
 NSE0_0097a		Motor shutdown switches ⁵⁾ (mounting on operator panel)	B	3WL9 111-0AJ06-0AA0	1	1 unit	103 0.100
 NSE00985		EMERGENCY-STOP pushbuttons Mushroom pushbutton instead of the mechanical OFF pushbutton Spare part for option S24 , see "-Z" + order code, page 1/33 .	B	3WL9 111-0BA72-0AA0	1	1 unit	103 0.080

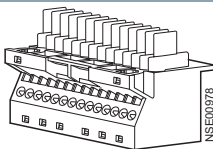
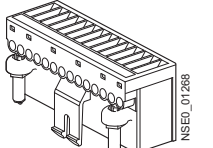
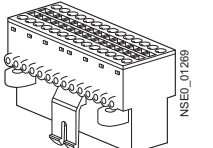
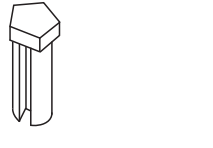
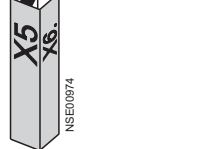
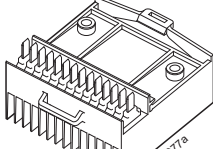
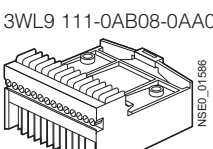
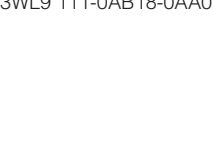
1) Not possible with communications interface option, order code "F02" or "F12".
2) X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see pages 1/37 and 1/47).

3) Only in conjunction with motorized operating mechanism.
4) Not possible with motor shutdown switch.
5) Not possible with electrical ON button.

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Auxiliary conductor connections							
 3WL9 111-0AB01-0AA0		Male connectors for circuit breakers ①	B	3WL9 111-0AB01-0AA0	1	1 unit	103 0.100
 3WL9 111-0AB02-0AA0		Extension for the 1000 V male connector versions (male connector must be ordered separately)	B	3WL9 111-0AB02-0AA0	1	1 unit	103 0.150
 3WL9 111-0AB03-0AA0		Male connectors and extension for 1000 V	B	3WL9 111-0AB10-0AA0	1	1 unit	103 1.000
 3WL9 111-0AB03-0AA0		Auxiliary supply connectors for circuit breakers or guide frames ② Screw connection (SIGUT)	B	3WL9 111-0AB03-0AA0	1	1 unit	103 0.070
 3WL9 111-0AB04-0AA0		Auxiliary supply connectors for circuit breakers or guide frames ② Screwless connection method (tension spring)	B	3WL9 111-0AB04-0AA0	1	1 unit	103 0.070
 3WL9 111-0AB07-0AA0		Coding kits ③ for fixed-mounted version (X5 to X8)	B	3WL9 111-0AB07-0AA0	1	1 unit	103 0.020
 3WL9 111-0AB08-0AA0		Sliding contact modules for guide frames ④	B	3WL9 111-0AB08-0AA0	1	1 unit	103 0.100
 3WL9 111-0AB18-0AA0		One-part sliding contact modules for guide frames Screw connection (SIGUT) ⑤	B	3WL9 111-0AB18-0AA0	1	1 unit	103 0.120
		Blanking blocks for circuit breakers	B	3WL9 111-0AB12-0AA0	1	1 unit	103 0.030

For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

Withdrawable version: ① + ④ + ②

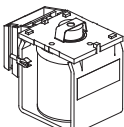
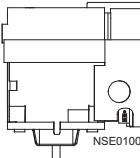
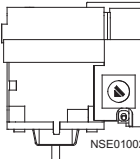
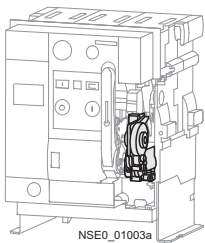
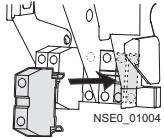
or

① + ⑤

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Auxiliary releases							
Closing coils/shunt releases							
 NSE01000 3WL9 111-0AD06-0AA0		24 V DC	100 % OP	B	3WL9 111-0AD01-0AA0	1	1 unit 103 0.700
		30 V DC		B	3WL9 111-0AD02-0AA0	1	1 unit 103 0.700
		48 V DC		B	3WL9 111-0AD03-0AA0	1	1 unit 103 0.700
		60 V DC		B	3WL9 111-0AD04-0AA0	1	1 unit 103 0.700
		110 ... 125 V DC/110 ... 127 V AC		B	3WL9 111-0AD05-0AA0	1	1 unit 103 0.700
		220 ... 250 V DC/208 ... 240 V AC		B	3WL9 111-0AD06-0AA0	1	1 unit 103 0.700
 NSE01001 3WL9 111-0AE0.-0AA0		24 V DC	5 % OP ¹⁾	B	3WL9 111-0AD11-0AA0	1	1 unit 103 0.700
		48 V DC		B	3WL9 111-0AD12-0AA0	1	1 unit 103 0.700
		110 ... 125 V DC/110 ... 127 V AC		B	3WL9 111-0AD13-0AA0	1	1 unit 103 0.700
		220 ... 250 V DC/208 ... 240 V AC		B	3WL9 111-0AD14-0AA0	1	1 unit 103 1.800
Undervoltage releases							
 NSE01002 3WL9 111-0AE1.-0AA0		Instantaneous					
		24 V DC		B	3WL9 111-0AE01-0AA0	1	1 unit 103 0.730
		30 V DC		B	3WL9 111-0AE02-0AA0	1	1 unit 103 0.730
		48 V DC		B	3WL9 111-0AE03-0AA0	1	1 unit 103 0.730
		60 V DC		B	3WL9 111-0AE07-0AA0	1	1 unit 103 0.730
		110 ... 125 V DC/110 ... 127 V AC		B	3WL9 111-0AE04-0AA0	1	1 unit 103 0.730
		220 ... 250 V DC/208 ... 240 V AC		B	3WL9 111-0AE05-0AA0	1	1 unit 103 0.730
		380 ... 415 V AC		B	3WL9 111-0AE06-0AA0	1	1 unit 103 0.730
		Delayed					
		48 V DC		B	3WL9 111-0AE11-0AA0	1	1 unit 103 0.740
	110 ... 125 V DC/110 ... 127 V AC		B	3WL9 111-0AE12-0AA0	1	1 unit 103 0.740	
	220 ... 250 V DC/208 ... 240 V AC		B	3WL9 111-0AE13-0AA0	1	1 unit 103 0.740	
	380 ... 415 V AC		B	3WL9 111-0AE14-0AA0	1	1 unit 103 0.740	
Operating mechanisms							
Motorized operating mechanisms²⁾							
 NSE0_01003a 3WL9 111-0AF0.-0AA0		24 ... 30 V DC		B	3WL9 111-0AF01-0AA0	1	1 unit 103 1.510
		48 ... 60 V DC		B	3WL9 111-0AF02-0AA0	1	1 unit 103 1.510
		110 ... 125 V DC/110 ... 127 V AC		B	3WL9 111-0AF03-0AA0	1	1 unit 103 1.510
		220 ... 250 V DC/208 ... 240 V AC		B	3WL9 111-0AF04-0AA0	1	1 unit 103 1.510
Auxiliary contacts							
 NSE0_01004 3WL9 111-0AG03-0AA0		Auxiliary switch blocks	2 NO + 2 NC	B	3WL9 111-0AG01-0AA0	1	1 unit 103 0.180
			2 NO	B	3WL9 111-0AG02-0AA0	1	1 unit 103 0.080
			1 NO + 1 NC	B	3WL9 111-0AG03-0AA0	1	1 unit 103 0.070

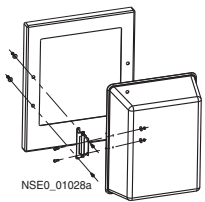
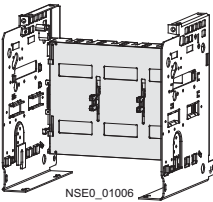
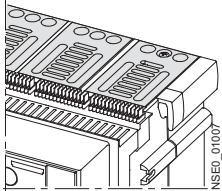
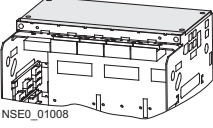
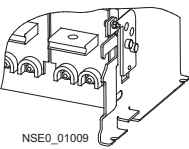
¹⁾ Overexcited, i. e. operating time 50 ms (standard >80 ms).

²⁾ X7 manual connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see pages 1/37 and 1/47).

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Door sealing frames, hoods, shutters							
 <p>NSE0_01028a</p> <p>3WL9 111-0AP02-0AA0</p>	<p>Door sealing frames</p> <p>Spare part for option T40, see "-Z" + order code, page 1/33.</p>	B	3WL9 111-0AP01-0AA0		1 1 unit	103	0.360
	<p>Protective covers, IP55</p> <p>Cannot be used in conjunction with door sealing frames, hood removable and can be opened on both sides</p>	B	3WL9 111-0AP02-0AA0		1 1 unit	103	1.600
 <p>NSE0_01006</p> <p>3WL9 111-0AP0.-0AA0</p>	<p>Shutters</p> <p>Spare part for option R21, see "-Z" + order code, page 1/34.</p>						
	3-pole	Size I	B	3WL9 111-0AP04-0AA0		1 1 unit	103 0.500
		Size II	B	3WL9 111-0AP06-0AA0		1 1 unit	103 0.630
		Size III	B	3WL9 111-0AP07-0AA0		1 1 unit	103 0.860
	4-pole	Size I	B	3WL9 111-0AP08-0AA0		1 1 unit	103 0.600
		Size II	B	3WL9 111-0AP11-0AA0		1 1 unit	103 0.770
		Size III	B	3WL9 111-0AP12-0AA0		1 1 unit	103 1.070
Arc chute							
 <p>NSE0_01007</p> <p>3WL9 111-0AS0.-0AA0</p>	<p>Arc chute</p> <p>690 V</p>	Size I	B	3WL9 111-0AS01-0AA0		1 1 unit	103 1.110
		Size II	B	3WL9 111-0AS02-0AA0		1 1 unit	103 1.680
		Size III	B	3WL9 111-0AS03-0AA0		1 1 unit	103 2.980
	1000 V / 1150 V	Size II	B	3WL9 111-0AS05-0AA0		1 1 unit	103 3.140
		Size III	B	3WL9 111-0AS06-0AA0		1 1 unit	103 5.620
 <p>NSE0_01008</p> <p>3WL9 111-0AS3.-0AA0</p>	<p>Arc chute covers¹⁾</p> <p>Parts kit for guide frame</p> <p>Spare part for option R10, see "-Z" + order code, page 1/34.</p>						
	3-pole	Size I	B	3WL9 111-0AS32-0AA0		1 1 unit	103 1.850
		Size II	B	3WL9 111-0AS36-0AA0		1 1 unit	103 2.600
		Size III	B	3WL9 111-0AS38-0AA0		1 1 unit	103 4.050
	4-pole	Size I	B	3WL9 111-0AS42-0AA0		1 1 unit	103 2.340
		Size II	B	3WL9 111-0AS44-0AA0		1 1 unit	103 3.300
		Size III	B	3WL9 111-0AS46-0AA0		1 1 unit	103 5.210
Coding for withdrawable version							
 <p>NSE0_01009</p> <p>3WL9 111-0AR12-0AA0</p>	<p>Coding for withdrawable version</p> <p>By customer, for 36 coding variants</p>	B	3WL9 111-0AR12-0AA0		1 1 unit	103	0.400



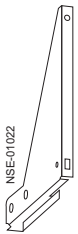
¹⁾ Not available for

- 1000-V version (order code "A05"),
- 1150-V version (order code "A15"),
- DC version,
- 4000 A size II,
- circuit breaker with very high breaking capacity C.

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Grounding connection							
 NSE0 01018a 3WL9 111-0BA02-0AA0 Contacting module for guide frame	Size I, II ²⁾	B	3WL9 111-0BA01-0AA0	1	1 unit	103	0.330
	Size III	B	3WL9 111-0BA02-0AA0	1	1 unit	103	0.350
Contacting modules for withdrawable circuit breakers							
 NSE01019 3WL9 111-0BA07-0AA0	3-pole	Size I	B	3WL9 111-0BA05-0AA0	1	1 unit	1.250
		Size II ²⁾	B	3WL9 111-0BA06-0AA0	1	1 unit	1.530
		Size III	B	3WL9 111-0BA07-0AA0	1	1 unit	2.270
4-pole	Size I	B	3WL9 111-0BA08-0AA0	1	1 unit	103	1.500
	Size II ²⁾	B	3WL9 111-0BA04-0AA0	1	1 unit	103	1.850
	Size III	B	3WL9 111-0BA10-0AA0	1	1 unit	103	2.950
Support brackets							
 NSE-01022 3WL9 111-0BB50-0AA0	Support brackets For mounting fixed-mounted circuit breakers on vertical plane, only for sizes I and II (1 set = 2 units)	B	3WL9 111-0BB50-0AA0	1	1 unit	103	7.000

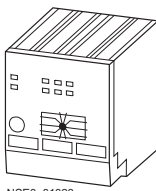
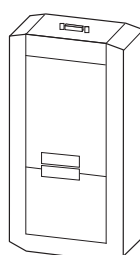

1) For 60 kA ground short-circuit current, order 2.

2) Can also be used for size II, 4000 A.

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
CubicleBUS modules¹⁾								
 <p>NSE0_01023a</p> <p>3WL9 111-0AT23-0AA0</p>		Digital output modules with rotary coding switch, relay outputs	B	3WL9 111-0AT26-0AA0	1	1 unit	103	0.240
		Digital output modules, configurable, relay outputs	B	3WL9 111-0AT20-0AA0	1	1 unit	103	0.310
		Digital input module	B	3WL9 111-0AT27-0AA0	1	1 unit	103	0.240
		Analog output modules	B	3WL9 111-0AT23-0AA0	1	1 unit	103	0.240
		Zone Selective Interlocking modules	B	3WL9 111-0AT21-0AA0	1	1 unit	103	0.240
Parameterization systems								
 <p>NSE0_01024a</p> <p>3WL9 111-0AT28-0AA0</p>		BDA Plus²⁾³⁾ Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using the local interface; Breaker Data Adapter, connection cable to the 3WL open circuit breaker and to the programming device (e. g. notebook); can be run with Internet Explorer with JAVA2 VM 1.4.0-01 and higher; with Ethernet interface for connection to Ethernet/Intranet/Internet	B	3WL9 111-0AT33-0AA0	1	1 unit	103	1.200
		Connection cables for BDA Plus Connection cable for connection of BDA Plus to terminal X8 of the 3WL open circuit breaker. Required if neither COM15 nor COM16 nor other external CubicleBUS modules are available, length 2 m.	B	3WL9 111-0BC21-0AA0	1	1 unit	103	0.350
	Powerconfig parameterization software Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using powerconfig software, see chapter "Software", "Configuring, Visualizing and Controlling with SENTRON". Free download from:  http://support.automation.siemens.com/WWW/view/en/50241697							
Accessories for communications								
		Preassembled cables for CubicleBUS modules 0.2 m long, for connection to 3WL with COM15/COM16	B	3WL9 111-0BC04-0AA0	1	1 unit	103	0.020
		1 m long, for connection to 3WL with COM15/COM16	B	3WL9 111-0BC02-0AA0	1	1 unit	103	0.050
		2 m long, for connection to 3WL with COM15/COM16	B	3WL9 111-0BC03-0AA0	1	1 unit	103	0.060
		2 m long, for connection to 3WL without COM15/COM16	B	3WL9 111-0BC05-0AA0	1	1 unit	103	0.070
	SENTRON manuals for communication solutions Detailed description of the communication functions for circuit breakers. Installation, connection, commissioning, data transmission to the PLC. PROFIBUS, German, token fee PROFIBUS, English, token fee MODBUS, German, token fee MODBUS, English, token fee Free download from: www.siemens.com/lowvoltage/manuals			A5E0151347 A5E0151353 3ZX10 12-0WL10-1AB1 3ZX10 12-0WL10-1AC1				
	Voltage transformers, 3-pole, for 3WL circuit breakers with measurement function Plus⁴⁾ 380 ... 690 V/100 V, class 0.5	B	3WL9 111-0BB68-0AA0	1	1 unit	103	2.600	

All communication components, **CubicleBUS** modules and measurement functions are available for ETU45B and ETU76B.

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.

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

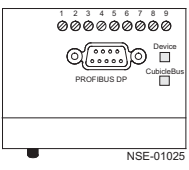
4) Is required for operation of the measurement function *Plus*.

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

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
Retrofitting and spare parts								
 <p>3WL9 111-0AT15-0AA0</p>	PROFIBUS retrofit kits	Retrofit kit for PROFIBUS communications including COM15, BSS and set of cables for all 3WL circuit breakers for ETU45B and ETU76B	B	3WL9 111-0AT12-0AA0	1	1 unit	103	0.260
	COM15 PROFIBUS module	For ETU45B and ETU76B	B	3WL9 111-0AT15-0AA0	1	1 unit	103	0.140
	COM16 MODBUS modules	For ETU45B and ETU76B	B	3WL9 111-0AT17-0AA0	1	1 unit	103	0.140
	MODBUS IEC retrofit kits	Retrofit kit for MODBUS communications including COM16, BSS and set of cables for all 3WL air circuit breakers for ETU45B and ETU76B	B	3WL9 111-0AT18-0AA0	1	1 unit	103	0.260
	Breaker status sensor (BSS)	For ETU45B and ETU76B	B	3WL9 111-0AT16-0AA0	1	1 unit	103	0.120
	Measurement function <i>Plus</i>¹⁾	For ETU Release 2 (voltage transformer required)	B	3WL9 111-0AT04-0AA0	1	1 unit	103	0.250

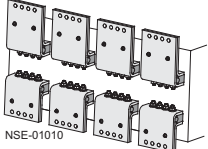
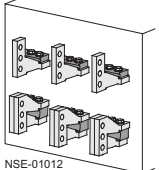
All communication components, **CubicleBUS** modules and measurement functions are available for the ETU45B and ETU76B.

¹⁾ A measuring accuracy of 3 % is reached if retrofitted.

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg	
Main conductor connections, fixed mounting (essential accessory)								
3WL9 111-0AL06-0AA0	Specified for each connection							
 NSE-01010	Front-accessible main connections, single hole at top	Size I, up to 1,000 A	B	3WL9 111-0AL01-0AA0	1	1 unit	103	1.100
		Size I, 1250 to 1600 A	B	3WL9 111-0AL02-0AA0	1	1 unit	103	1.600
		Size II, up to 2000 A	B	3WL9 111-0AL03-0AA0	1	1 unit	103	2.000
		Size II, up to 2500 A	B	3WL9 111-0AL04-0AA0	1	1 unit	103	3.600
		Size II, up to 3200 A	B	3WL9 111-0AL05-0AA0	1	1 unit	103	3.500
		Size III, up to 4000 A	B	3WL9 111-0AL06-0AA0	1	1 unit	103	6.100
3WL9 111-0AL56-0AA0	Front-accessible main connections, single hole at bottom	Size I, up to 1,000 A	B	3WL9 111-0AL51-0AA0	1	1 unit	103	1.000
Size I, 1250 to 1600 A		B	3WL9 111-0AL52-0AA0	1	1 unit	103	1.300	
Size II, up to 2000 A		B	3WL9 111-0AL53-0AA0	1	1 unit	103	1.800	
Size II, up to 2500 A		B	3WL9 111-0AL54-0AA0	1	1 unit	103	3.100	
Size II, up to 3200 A		B	3WL9 111-0AL55-0AA0	1	1 unit	103	3.000	
Size III, up to 4000 A		B	3WL9 111-0AL56-0AA0	1	1 unit	103	5.200	
3WL9 111-0AL14-0AA0	Front-accessible main connections, acc. to DIN 43673, double hole at top	Size I, up to 1,000 A	B	3WL9 111-0AL07-0AA0	1	1 unit	103	1.400
Size I, 1250 to 1600 A		B	3WL9 111-0AL08-0AA0	1	1 unit	103	2.000	
Size II, up to 2000 A		B	3WL9 111-0AL11-0AA0	1	1 unit	103	2.400	
Size II, up to 2500 A		B	3WL9 111-0AL12-0AA0	1	1 unit	103	4.500	
Size II, up to 3200 A		B	3WL9 111-0AL13-0AA0	1	1 unit	103	4.400	
Size III, up to 4000 A		B	3WL9 111-0AL14-0AA0	1	1 unit	103	7.800	
3WL9 111-0AL64-0AA0	Front-accessible main connections, acc. to DIN 43673, double hole at bottom	Size I, up to 1,000 A	B	3WL9 111-0AL57-0AA0	1	1 unit	103	1.300
Size I, 1250 to 1600 A		B	3WL9 111-0AL58-0AA0	1	1 unit	103	1.700	
Size II, up to 2000 A		B	3WL9 111-0AL61-0AA0	1	1 unit	103	2.000	
Size II, up to 2500 A		B	3WL9 111-0AL62-0AA0	1	1 unit	103	3.700	
Size II, up to 3200 A		B	3WL9 111-0AL63-0AA0	1	1 unit	103	3.600	
Size III, up to 4000 A		B	3WL9 111-0AL64-0AA0	1	1 unit	103	6.400	
 NSE-01012	Rear vertical main connections	Size I ¹⁾ , up to 1600 A	B	3WL9 111-0AM01-0AA0	1	1 unit	103	0.500
		Size II ²⁾ , up to 3200 A	B	3WL9 111-0AM02-0AA0	1	1 unit	103	2.200
		Size III, up to 6300 A	B	3WL9 111-0AM03-0AA0	1	1 unit	103	5.000

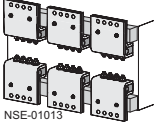
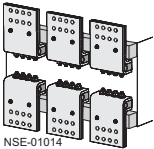
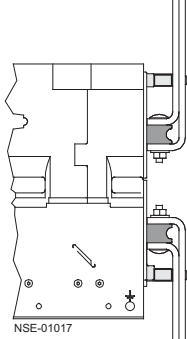

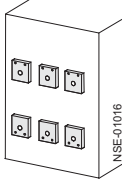
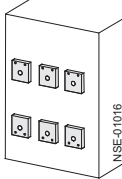
1) In the case of vertical connection size I, up to 1000 A one 3WL9 111-0AM01-0AA0 vertical connection is required, up to 1600 A two 3WL9 111-0AM01-0AA0 vertical connections are required.

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

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		
Main conductor connections, withdrawable versions (essential accessory)									
Specified for each connection									
 NSE-01013 3WL9 111-0AN06-0AA0	Front-accessible main connections, single hole at top or at bottom¹⁾	Size I, up to 1,000 A	B	3WL9 111-0AN01-0AA0	1	1 unit	103	1.000	
		Size I, 1250 to 1600 A	B	3WL9 111-0AN02-0AA0	1	1 unit	103	1.300	
		Size II, up to 2000 A	B	3WL9 111-0AN03-0AA0	1	1 unit	103	1.800	
		Size II, up to 2500 A	B	3WL9 111-0AN04-0AA0	1	1 unit	103	3.100	
		Size II, up to 3200 A	B	3WL9 111-0AN05-0AA0	1	1 unit	103	3.000	
		Size III, up to 4000 A	B	3WL9 111-0AN06-0AA0	1	1 unit	103	5.200	
 NSE-01014 3WL9 111-0AN14-0AA0	Front-accessible main connections, acc. to DIN 43673, double hole at top or at bottom¹⁾	Size I, up to 1,000 A	B	3WL9 111-0AN07-0AA0	1	1 unit	103	1.300	
		Size I, 1250 to 1600 A	B	3WL9 111-0AN08-0AA0	1	1 unit	103	1.700	
		Size II, up to 2000 A	B	3WL9 111-0AN11-0AA0	1	1 unit	103	2.000	
		Size II, up to 2500 A	B	3WL9 111-0AN12-0AA0	1	1 unit	103	3.700	
		Size II, up to 3200 A	B	3WL9 111-0AN13-0AA0	1	1 unit	103	3.600	
		Size III, up to 4000 A	B	3WL9 111-0AN14-0AA0	1	1 unit	103	6.400	
 NSE-01017 3WL9 111-0AN41-0AA0	Supports for front and DIN connecting bars	3-pole for 3 bars	Size I	B	3WL9 111-0AN41-0AA0	1	1 unit	103	0.700
			Size II	B	3WL9 111-0AN42-0AA0	1	1 unit	103	1.350
			Size III	B	3WL9 111-0AN43-0AA0	1	1 unit	103	2.420
		4-pole for 4 bars	Size I	B	3WL9 111-0AN44-0AA0	1	1 unit	103	1.200
			Size II	B	3WL9 111-0AN45-0AA0	1	1 unit	103	2.200
			Size III	B	3WL9 111-0AN46-0AA0	1	1 unit	103	3.200
 NSE-01015 3WL9 111-0AN23-0AA0	Rear vertical main connections	Size I, up to 1,000 A	B	3WL9 111-0AN15-0AA0	1	1 unit	103	0.660	
		Size I, 1250 to 1600 A	B	3WL9 111-0AN16-0AA0	1	1 unit	103	0.870	
		Size II, up to 2000 A	B	3WL9 111-0AN17-0AA0	1	1 unit	103	1.150	
		Size II, up to 2500 A	B	3WL9 111-0AN18-0AA0	1	1 unit	103	1.490	
		Size II, up to 3200 A	B	3WL9 111-0AN21-0AA0	1	1 unit	103	2.580	
		Size III, up to 5,000 A	B	3WL9 111-0AN22-0AA0	1	1 unit	103	6.380	
		Size III, up to 6300 A (3 busbar connection pieces for 3-pole circuit breakers)	B	3WL9 111-0AN23-0AA0	1	1 unit	103	19.170	
		Size III, up to 6300 A, at top (4 busbar connection pieces for 4-pole circuit breakers)	B	3WL9 111-0AN20-0AA0	1	1 unit	103	18.410	
		Size III, up to 6300 A, at bottom (4 busbar connection pieces for 4-pole circuit breakers)	B	3WL9 111-0AN10-0AA0	1	1 unit	103	18.300	
		 NSE-01016 3WL9 111-0AN24-0AA0	Rear horizontal main connections	Size I, up to 1,000 A	B	3WL9 111-0AN32-0AA0	1	1 unit	103
Size I, 1250 to 1600 A	B			3WL9 111-0AN33-0AA0	1	1 unit	103	0.770	
Size II, up to 2000 A	B			3WL9 111-0AN34-0AA0	1	1 unit	103	1.020	
Size II, up to 2500 A	B			3WL9 111-0AN35-0AA0	1	1 unit	103	1.240	
Size II, up to 3200 A	B			3WL9 111-0AN36-0AA0	1	1 unit	103	2.170	
Size III, up to 5,000 A	B			3WL9 111-0AN37-0AA0	1	1 unit	103	3.860	
 NSE-01016 3WL9 111-0AN24-0AA0	Connecting flanges	Size I, up to 1,000 A	B	3WL9 111-0AN24-0AA0	1	1 unit	103	0.610	
		Size I, 1250 to 1600 A	B	3WL9 111-0AN25-0AA0	1	1 unit	103	0.640	
		Size II, up to 2000 A	B	3WL9 111-0AN26-0AA0	1	1 unit	103	0.980	
		Size II, up to 2500 A	B	3WL9 111-0AN27-0AA0	1	1 unit	103	1.020	
		Size II, up to 3200 A	B	3WL9 111-0AN28-0AA0	1	1 unit	103	1.310	
		Size III, up to 4000 A	B	3WL9 111-0AN31-0AA0	1	1 unit	103	2.370	

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

Air Circuit Breakers

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

Accessories and spare parts

Designation	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
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kg

Conversion sets

For converting fixed-mounted circuit breakers into withdrawable circuit breakers

Guide frames and sliding contact modules must be ordered separately.

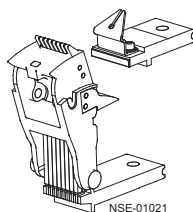
Number of poles	Size						
3-pole	I	B	3WL9 111-0BC11-0AA0	1	1 unit	103	5.100
	II	B	3WL9 111-0BC12-0AA0	1	1 unit	103	5.900
	III	B	3WL9 111-0BC13-0AA0	1	1 unit	103	8.100
4-pole	I	B	3WL9 111-0BC14-0AA0	1	1 unit	103	6.400
	II	B	3WL9 111-0BC15-0AA0	1	1 unit	103	6.450
	III	B	3WL9 111-0BC16-0AA0	1	1 unit	103	10.700

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	$I_{n,max}$						
I	Up to 1600 A	B	3WL9 111-0AM90 L1Y¹⁾	1	1 unit	103	2.800
II	Up to 2500 A	B	3WL9 111-0AM91 L1Y¹⁾	1	1 unit	103	5.870
II	Up to 4000 A	B	3WL9 111-0AM92 L1Y¹⁾	1	1 unit	103	7.700
III	Up to 6300 A	B	3WL9 111-0AM93 L1Y¹⁾	1	1 unit	103	13.740



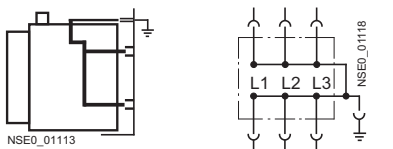
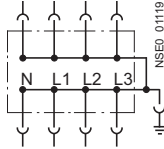
NSE-01021

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

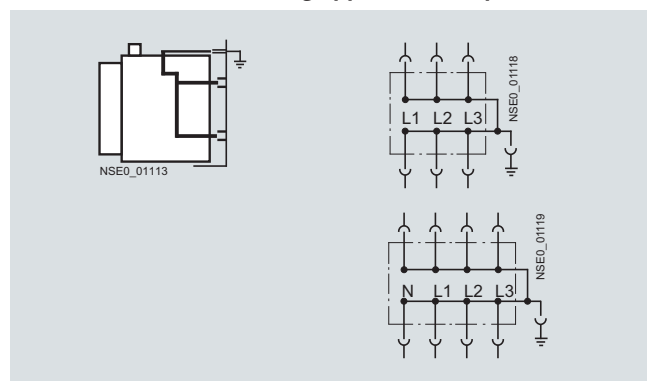
Air Circuit Breakers

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

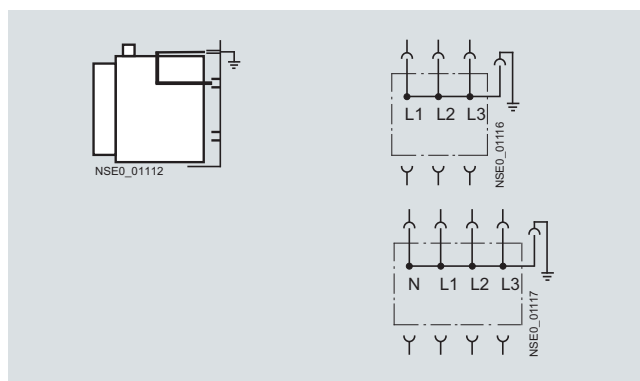
Accessories and spare parts

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

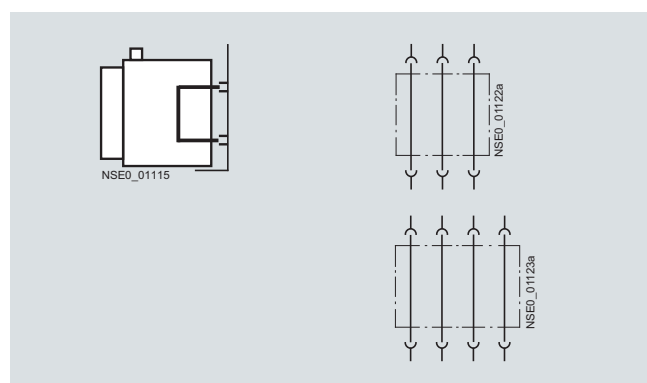
Conversion for the following applications is possible



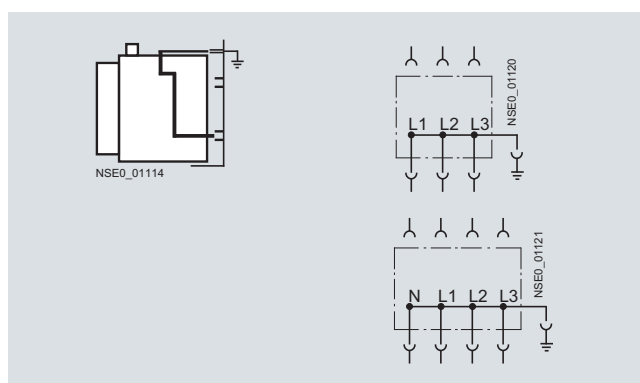
Top and bottom system components are short-circuited and grounded (as-supplied state)



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



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



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

Air Circuit Breakers

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

Accessories and spare parts

Options

Structure of the Order No.

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

An important prerequisite for computer-based order processing is that order numbers must be structured according to standardized criteria.

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

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

The standardized structure ensures that only one Order No. has to be administered for one device.

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

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

Accessories: with first order (components are already mounted)

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

Additional accessory components can be ordered ready-mounted.

These supplements are identified by "-Z".

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

Accessories: for retrofitting (components for subsequent fitting)

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

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

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

Documentation

Operating manual Complete set	German/English	Order No.	3ZX18 12-0WL00-0AN1	Delivery time class C On request On request
	French/Italian	Order No.	3ZX18 12-0WL00-0AJ1	
	Spanish/Portuguese	Order No.	3ZX18 12-0WL00-0AL1	
PROFIBUS manual Communication	German	Order No.	A5E0151347	
	English	Order No.	A5E0151353	
MODBUS manual Communication	German	Order No.	3ZX10 12-0WL10-1AB1	
	English	Order No.	3ZX10 12-0WL10-1AC1	

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

More information

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

Air Circuit Breakers

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

3- and 4-pole, fixed-mounted versions

Selection and ordering data

For general data see page 1/8.

Size	Max. rated circuit breaker current I_n max.	DT	3-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Order No. For Order No. supplements, see page 1/31	Price per PU				kg
			A					
Horizontal main circuit connection								
II	1000	B	3WL12 10-8□□32-....		1	1 unit	103	56.000
II	2000	B	3WL12 20-8□□32-....		1	1 unit	103	56.000
II	4000 ¹⁾	B	3WL12 40-8□□32-....		1	1 unit	103	64.000
Vertical main circuit connection								
II	1000	B	3WL12 10-8□□31-....		1	1 unit	103	56.000
II	2000	B	3WL12 20-8□□31-....		1	1 unit	103	56.000
II	4000 ¹⁾	B	3WL12 40-8□□31-....		1	1 unit	103	85.000
Front main circuit connection, single hole								
II	1000	B	3WL12 10-8□□33-....		1	1 unit	103	56.000
II	2000	B	3WL12 20-8□□33-....		1	1 unit	103	56.000
Front main circuit connection, double hole								
II	1000	B	3WL12 10-8□□34-....		1	1 unit	103	56.000
II	2000	B	3WL12 20-8□□34-....		1	1 unit	103	56.000
Non-automatic air circuit breakers²⁾			Order No. supplements	Add. price				
without Electronic Trip Unit			AA	None				
Standard Order No. supplements (for further Order No. supplements, see page 1/31)								
Manual operating mechanism with mechanical closing			1AA2	None				

Size	Max. rated circuit breaker current I_n max.	DT	4-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Order No. For Order No. supplements, see page 1/31	Price per PU				kg
			A					
Horizontal main circuit connection								
II	1000	B	3WL12 10-8□□42-....		1	1 unit	103	67.000
II	2000	B	3WL12 20-8□□42-....		1	1 unit	103	67.000
II	4000 ¹⁾	B	3WL12 40-8□□42-....		1	1 unit	103	77.000
Vertical main circuit connection								
II	1000	B	3WL12 10-8□□41-....		1	1 unit	103	75.000
II	2000	B	3WL12 20-8□□41-....		1	1 unit	103	75.000
II	4000 ¹⁾	B	3WL12 40-8□□41-....		1	1 unit	103	103.000
Front main circuit connection, single hole								
II	1000	B	3WL12 10-8□□43-....		1	1 unit	103	67.000
II	2000	B	3WL12 20-8□□43-....		1	1 unit	103	67.000
Front main circuit connection, double hole								
II	1000	B	3WL12 10-8□□44-....		1	1 unit	103	67.000
II	2000	B	3WL12 20-8□□44-....		1	1 unit	103	67.000
Non-automatic air circuit breakers²⁾			Order No. supplements	Add. price				
without Electronic Trip Unit			AA	None				
Standard Order No. supplements (for further Order No. supplements, see page 1/31)								
Manual operating mechanism with mechanical closing			1AA2	None				

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	Additional price
		3WL1 2 . 0 - 8 -Z	
		□□□	
		3 0 5	3-pole 4-pole
Rated voltage 1000 V DC			
Size II	Up to 2000 A	A 0 5	✓ ✓
Size II	Up to 4000 A	A 0 5	✓ ✓

Note:

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

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air circuit breakers/non-automatic air circuit breakers up to 6300 A (AC), IEC", "Options", page 1/32 onwards.

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

Available only directly from the company mat – Maschinen- und Anlagentechnik (for address see page 1/60).

✓ Additional price

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

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

Air Circuit Breakers

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

3-pole, withdrawable versions
Selection and ordering data

Size	Max. rated circuit breaker current I_n max.	DT	3-pole non-automatic air circuit breakers	DC	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Order No. For Order No. supplements, see page 1/31	Price per PU				kg
Without guide frames (for guide frames, see page 1/61)								
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 ¹⁾	B	3WL12 40-8□□35-....		1	1 unit	103	68.000
With guide frames, horiz. main circuit connection								
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 ¹⁾	B	3WL12 40-8□□36-....		1	1 unit	103	113.000
With guide frames, vert. main circuit connection								
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 ¹⁾	B	3WL12 40-8□□37-....		1	1 unit	103	121.000
With guide frames, connecting flanges								
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 ¹⁾	B	3WL12 40-8□□38-....		1	1 unit	103	113.000

Non-automatic air circuit breakers²⁾

without Electronic Trip Unit

Order No. supplements

Add. price

AA

None

Standard Order No. supplements (for further Order No. supplements for circuit breakers and guide frames, see page 1/31)

Manual operating mechanism with mechanical closing

1AA2

None

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	Additional price
		3WL1 2 . 0 - 8 . . 3 -Z	3-pole
Rated voltage 1000 V DC			
Size II ⁴⁾ Up to 2000 A		A 0 5	✓
Size II ⁴⁾ Up to 4000 A		A 0 5	✓
Tinned version of the customer's connections on the guide frame ³⁾ Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.			
Size II		A 0 8	✓

Note:

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

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air circuit breakers/non-automatic air circuit breakers up to 6300 A (AC), IEC", "Options", page 1/32 onwards.

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

Available only directly from the company mat – Maschinen- und Anlagentechnik (for address see page 1/60).

✓ Additional price


- Provisions to dissipate heat must be made on the line side.
- For permissible rated short-time current I_{cw} and short-circuit breaking capacity I_{cc} for non-automatic air circuit breakers, see page 1/5.
- The permissible temperature-rise limits according to IEC 60947-3 are 5 K lower for a tin surface than for a silver surface.
- If ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

Air Circuit Breakers

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

4-pole, withdrawable versions

Selection and ordering data

Size	Max. rated circuit breaker current $I_{n \text{ max.}}$	DT	4-pole non-automatic air circuit breakers 	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
			Order No. For Order No. supplements, see page 1/31	Price per PU			
Without guide frames (for guide frames, see page 1/61)							
II	1000	B	3WL12 10-8□□45-....	1	1 unit	103	75.000
II	2000	B	3WL12 20-8□□45-....	1	1 unit	103	75.000
II	4000 ¹⁾	B	3WL12 40-8□□45-....	1	1 unit	103	82.000
With guide frames, horizontal main circuit connection							
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 ¹⁾	B	3WL12 40-8□□46-....	1	1 unit	103	136.000
With guide frames, vertical main circuit connection							
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 ¹⁾	B	3WL12 40-8□□47-....	1	1 unit	103	146.000
With guide frames, connecting flanges							
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 ¹⁾	B	3WL12 40-8□□48-....	1	1 unit	103	136.000

Non-automatic air circuit breakers²⁾

without Electronic Trip Unit

Order No. supplements **AA** Add. price None

Standard Order No. supplements (for further Order No. supplements for circuit breakers and guide frames, see page 1/31)

Manual operating mechanism with mechanical closing

1AA2 None

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
3WL1 2 . 0 - 8 . . 4 -Z
 □□□

Additional price

4-pole

Rated voltage 1000 V DC

Size II⁴⁾ Up to 2000 A

A 05

✓

Size II⁴⁾ Up to 4000 A

A 05

✓

Tinned version of the customer's connections on the guide frame³⁾

Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.

Size II

A 08

✓

Note:

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

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air circuit breakers/non-automatic air circuit breakers up to 6300 A (AC), IEC", "Options", page 1/32 onwards.

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

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

✓ Additional price

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

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

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

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

5) **mat – Maschinen- und Anlagentechnik**

Dr. Becker GmbH
 Rudolf-Diesel-Straße 22
 22941 Bargteheide, Germany
 Tel.: +49 (4532) 2021-01
 Fax: +49 (4532) 2021-21
 E-mail: info@m-a-t.de
 Internet: www.m-a-t.de

Air Circuit Breakers

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

Accessories and spare parts

Selection and ordering data

Guide frames for DC non-automatic air circuit breakers

Size	Max. rated circuit breaker current $I_{n \max}$	DT	For 3-pole non-automatic air circuit breakers Order No. (Order No. supplements required acc. to table below)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
kg							
Front main circuit connection, single hole							
II	2000	B	3WL9 212-3DA□□-□□A1	1	1 unit	103	31.000
Front main circuit connection, double hole							
II	2000	B	3WL9 212-3DB□□-□□A1	1	1 unit	103	31.000
Horizontal main circuit connection							
II	2000	B	3WL9 212-3DC□□-□□A1	1	1 unit	103	31.000
II	4000	B	3WL9 212-6DC□□-□□A1	1	1 unit	103	60.000
Vertical main circuit connection							
II	2000	B	3WL9 212-3DD□□-□□A1	1	1 unit	103	31.000
II	4000	B	3WL9 212-6DD□□-□□A1	1	1 unit	103	60.000
Main circuit connection connecting flanges							
II	2000	B	3WL9 212-3DE□□-□□A1	1	1 unit	103	31.000
II	4000	B	3WL9 212-6DE□□-□□A1	1	1 unit	103	60.000

Number of auxiliary supply connectors

Without

- 1 connector
- 2 connectors
- 3 connectors
- 4 connectors

For required number of auxiliary supply connectors, see table on page 1/37

Type of auxiliary circuit connections

Without

- With screw connection (SIGUT, standard)
- With screwless connection method (tension spring)

Position signaling switches

Without

- Option 1 Connected 1 CO, test 1 CO, disconnected 1 CO
- Option 2 Connected 3 CO, test 2 CO, disconnected 1 CO

Shutters

Without

With shutter, 2 parts, lockable

Order No. supplements

Add. price

0	3-pole
1	None
2	✓
3	✓
4	✓
0	None
1	✓
2	✓
0	None
1	✓
2	✓
A	None
B	✓

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	Add. price
		3WL9 2 1 2 - A1 -Z □□□	
Rated voltage 1000 V DC		A 0 5	✓
Tinned version of the customer's connections on the guide frame ¹⁾			
Only for guide frames with horizontal connection or flange connection		A 0 8	✓

For guide frames for 4-pole DC non-automatic air circuit breakers see the following page.

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air Circuit Breakers/ Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", page 1/32 onwards.

✓ Additional price

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

Air Circuit Breakers

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

Accessories and spare parts

Size	Max. rated circuit breaker current $I_{n \max}$	DT	For 4-pole non-automatic air circuit breakers Order No. (Order No. supplements required acc. to table below)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A							kg
Front main circuit connection, single hole								
II	2000	B	3WL9 212-3EA□□-□□A1		1	1 unit	103	37.000
Front main circuit connection, double hole								
II	2000	B	3WL9 212-3EB□□-□□A1		1	1 unit	103	37.000
Horizontal main circuit connection								
II	2000	B	3WL9 212-3EC□□-□□A1		1	1 unit	103	37.000
II	4000	B	3WL9 212-6EC□□-□□A1		1	1 unit	103	84.000
Vertical main circuit connection								
II	2000	B	3WL9 212-3ED□□-□□A1		1	1 unit	103	37.000
II	4000	B	3WL9 212-6ED□□-□□A1		1	1 unit	103	84.000
Main circuit connection connecting flanges								
II	2000	B	3WL9 212-3EE□□-□□A1		1	1 unit	103	37.000
II	4000	B	3WL9 212-6EE□□-□□A1		1	1 unit	103	84.000
				Order No. supplements	Add. price			
Number of auxiliary supply connectors					4-pole			
Without				0	None			
1 connector				1	✓			
2 connectors				2	✓			
3 connectors				3	✓			
4 connectors				4	✓			
For required number of auxiliary supply connectors, see table on page 1/37								
Type of auxiliary circuit connections								
Without				0	None			
With screw connection (SIGUT, standard)				1	✓			
With screwless connection method (tension spring)				2	✓			
Position signaling switches								
Without				0	None			
Option 1				1	✓			
Connected 1 CO, test 1 CO, disconnected 1 CO								
Option 2				2	✓			
Connected 3 CO, test 2 CO, disconnected 1 CO								
Shutters								
Without				A	None			
With shutter, 2 parts, lockable				B	✓			
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	Add. price		
					3WL9 2 1 2 - A1 -Z			
					□□□			
Rated voltage 1000 V DC						A 0 5	✓	
Size II								
Tinned version of the customer's connections on the guide frame ¹⁾							✓	
Only for guide frames with horizontal connection or flange connection								
Size II						A 0 8	✓	

For guide frames for 3-pole DC non-automatic air circuit breakers [see previous page](#).

All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see "3WL Air Circuit Breakers/ Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", [page 1/32 onwards](#).

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