SENTRON 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

For general data see page 15/6.

Size	Max. rated circuit breaker current	DT	3-pole non-automatic circuit breakers	DC	PU (UNIT,	PS*	PG	Weight per PU approx.
	In max.		Order No.	Price	SET, M)			
	А		For Order No. supplements, see page 15/23	per PU	,			kg
Horizontal ma	in circuit connection							
II	1000	В	3WL12 10-8□□32		1	1 unit	103	56.000
II.	2000	В	3WL12 20-8□□32		1	1 unit	103	56.000
	4000 ¹⁾	В	3WL12 40-8□□32		1	1 unit	103	64.000
Vertical main	circuit connection							
II	1000	В	3WL12 10-8□□31		1	1 unit	103	56.000
	2000 4000 ¹)	В	3WL12 20-8□□31		1	1 unit	103	56.000
II		В	3WL12 40-8□□31		1	1 unit	103	85.000
Front main ci	rcuit connection, single hole							
11	1000	В	3WL12 10-8□□33		1	1 unit	103	56.000
II	2000	В	3WL12 20-8□□33		1	1 unit	103	56.000
Front main ci	rcuit connection, double hole							
11	1000	В	3WL12 10-8□□34		1	1 unit	103	56.000
II	2000	В	3WL12 20-8□□34		1	1 unit	103	56.000
Non-automati	c circuit breakers ²⁾		Order No. supplements	Add. price				
Without electroni	c release		AA	None				
Standard Ord	er No. supplements (for further	Ord	er No. supplements, see pag	e 15/23)				

Manual operating mechanism with mechanical closing **1AA2** None

Size	Max. rated circuit breaker current	DT	4-pole non-automatic circuit breakers	DC	PU (UNIT,	PS*	PG	Weight per PU approx.
	I _{n max.}		Order No.	Price	SET, M)			
	A		For Order No. supplements, see page 15/23	per PU	,			kg
Horizontal main	n circuit connection							
11	1000	В	3WL12 10-8□□42		1	1 unit	103	67.000
11	2000	В	3WL12 20-8□□42		1	1 unit	103	67.000
	4000 ¹⁾	В	3WL12 40-8□□42		1	1 unit	103	77.000
Vertical main c	ircuit connection							
II	1000	В	3WL12 10-8□□41		1	1 unit	103	75.000
11	2000	В	3WL12 20-8□□41		1	1 unit	103	75.000
	4000 ¹⁾	В	3WL12 40-8□□41		1	1 unit	103	103.000
Front main circ	uit connection, single hole							
11	1000	В	3WL12 10-8□□43		1	1 unit	103	67.000
II	2000	В	3WL12 20-8□□43		1	1 unit	103	67.000
Front main circ	uit connection, double hole							
	1000	В	3WL12 10-8□□44		1	1 unit	103	67.000
II	2000	В	3WL12 20-80044		1	1 unit	103	67.000
Non-automatic	circuit breakers ²⁾		Order No. supplements	Add. price				
Without electronic	release		AA	None				
Standard Order	r No. supplements (for further	Ord	er No. supplements, see page	15/23)				
Manual operating r	mechanism with mechanical closing		1AA2	None				
				1234 5 6 7	8 9 10 1	1 12 13 1	4 15 16	A status via a

	complete Order No. 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 - 8Z	Add. price		
				3-pole	4-pole	
Rated voltage 10	00 V DC					
Size II	Up to 2000 A		A 0 5	х	х	
Size II	Up to 4000 A		A 0 5	х	х	

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)", "Options", page 15/24 onwards.

x = Additional price

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

Available only directly from the company "mat" – Maschinen- und Anlagentechnik (for address see "Appendix, External Partners").

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

 $^{2)}$ For permissible rated short-time current $I_{\rm CW}$ and short-circuit switching capacity $I_{\rm CC}$ for non-automatic circuit breakers see page 15/3.

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© Siemens AG 2010 SENTRON 3WL Air Circuit Breakers 3WL Non-Automatic Air Circuit Breakers up to 4000 A (DC)

3-pole, withdrawable versions

Selection and ordering data Weight per PU Size Max. rated circuit breaker DT 3-pole non-automatic PS* PG PU (DC) current circuit breakers (UNIT, SET approx. In max. Order No. Price M) For Order No. supplements, per PU see page 15/23 А kg Without guide frames (for guide frames, see page 15/53) 1000 3WL12 10-80035-.... 60.000 В 1 unit 103 2000 В 3WL12 20-8 35-.... 1 unit 103 60.000 П 40001) П В 3WL12 40-8 35-... 1 unit 103 68.000 With quide frames. horizontal main circuit connection 1000 В 3WL12 10-8□□36-.... 103 91.000 1 unit Ш 3WL12 20-8 36-.... П 2000 В 1 unit 103 91.000 4000¹⁾ В 3WL12 40-80036-.... 103 113.000 П 1 unit With guide frames, vertical main circuit connection 3WL12 10-80037-.... 3WL12 20-80037-.... 1000 91 000 103 B 1 unit 1 В 103 2000 91.000 1 unit 4000¹⁾ В 3WL12 40-80037-.... 103 121.000 1 unit With guide frames, connecting flanges 3WL12 10-8□□38-.... 3WL12 20-8□□38-.... 1000 91.000 П B 1 unit 103 1 2000 B 103 91 000 Ш 1 unit 4000¹⁾ В 113.000 3WL12 40-8 38-.... 103 Ш 1 1 unit Non-automatic circuit breakers²⁾ Add. price Order No. supplements Without electronic release AA None Standard Order No. supplements (for further Order No. supplements for circuit breakers and guide frames, see page 15/23)

Manual operating mechanism with mechanical closing

None

Add "-Z" to the co and indicate the ap	mplete Order No. opropriate order code(s).	Order No. with "-Z" and additional order code	1234 5 6 7 8 9 3WL1 2 . 0 – 8 .	10 11 12 13 14 15 16 . 3 . – – Z	Add. price
					3-pole
Rated voltage 100	0 V DC				
Size II ⁴⁾	Up to 2000 A		A 0 5		х
Size II ⁴⁾	Up to 4000 A		A 0 5		х
Only for circuit bre	he customer's connections on the gui akers in withdrawable version with ho y time increases to 15 work days.		on.		
Size II			A 0 8		х

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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)", "Options", page 15/24 onwards.

x = 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 switching capacity I_{cc} for non-automatic circuit breakers see page 15/3.

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

⁴⁾ If ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker <u>and</u> guide frame. An external overload and short-circuit protection device is available from the company "mat" for the SENTRON 3WL non-automatic air circuit breakers.

Available only directly from the company "mat" – Maschinen- und Anlagentechnik (for address see "Appendix⇒, External Partners").

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SENTRON 3WL 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	PT DT 4-pole non-automatic circuit breakers		DC	PU (UNIT,	PS*	PG	Weight per PU
	I _{n max.}		Order No. For Order No. supplements, see page 15/23	Price per PU	SET, M)			approx.
	А		see page 13/23					kg
Without guid (for guide fra	le frames ames, see page 15/53)							
II	1000	В	3WL12 10-8□□45		1	1 unit	103	75.000
	2000 4000 ¹⁾	B B	3WL12 20-8□□45 3WL12 40-8□□45		1	1 unit 1 unit	103 103	75.000 82.000
With guide fr horizontal ma	rames, ain circuit connection							
11	1000	В	3WL12 10-8□□46		1	1 unit	103	109.000
 	2000 4000 ¹⁾	B B	3WL12 20-8□□46 3WL12 40-8□□46		1	1 unit 1 unit	103 103	109.000 136.000
With guide fr vertical main	rames, a circuit connection							
1	1000	В	3WL12 10-8□□47		1	1 unit	103	109.000
1	2000 4000 ¹⁾	B B	3WL12 20-8□□47 3WL12 40-8□□47		1	1 unit 1 unit	103 103	109.000 146.000
With quide fr	rames, connecting flanges	D	SWL12 40-0⊔⊔4/		I	T UTIL	103	140.000
	1000	В	3WL12 10-8□□48		1	1 unit	103	109.000
ll	2000	B	3WL12 20-8□□48		1	1 unit	103	109.000
1	40001)	В	3WL12 40-8□□48		1	1 unit	103	136.000
Non-automat	tic circuit breakers ²⁾		Order No. supplements	Add. price				
Without electron	nic release		AA	None				

Standard Order No. supplements (for further Order No. supplements for circuit breakers and guide frames, see page 15/23)

Manual operating mechanism with m	echanical closing	1AA2	None		
Add "-Z" to the complete Order No. and indicate the appropriate order co	ode(s).	Order No. with "-Z" and additional order code	1234 5 6 7 3WL12.0	8 9 10 11 12 13 14 15 16 - 8 4Z	Add. price
					4-pole
Rated voltage 1000 V DC					
Size II ⁴⁾ Up to 20	000 A		A 0 5		х
Size II ⁴⁾ Up to 40	000 A		A 0 5		х
Tinned version of the customer's con Only for circuit breakers in withdrawa The normal delivery time increases to Size II	ble version with horizon		A 0 8		x

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)", "Options", page 15/24 onwards.

x = Additional price

- ¹⁾ Provisions to dissipate heat must be made on the line side.
- $^{2)}$ For permissible rated short-time current $I_{\rm CW}$ and short-circuit switching capacity $I_{\rm CC}$ for non-automatic circuit breakers see page 15/3.
- ³⁾ The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.
- ⁴⁾ If ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker <u>and</u> guide frame.

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

Available only directly from the company "mat" – Maschinen- und Anlagentechnik (for address see "Appendix⇒, External Partners").

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Accessories and spare parts

Selection and ordering data

Size	Max. rated circuit breaker current	DT	For 3-pole non-automatic circ	uit breakers	PU	PS*	PG	Weigh
	I _{n max}		Order No. (Order No. supplements required according to table below)	Price per PU	(UNIT, SET, M)			per Pl approx
	А		(able below)				103 103 103 103	k
Front main circ	uit connection, single hole							
l	2000	В	3WL9 212-3DA		1	1 unit	103	31.00
Front main circ	uit connection, double hole							
	2000	В	3WL9 212-3DB		1	1 unit	103	31.00
	i circuit connection							
	2000 4000	B B	3WL9 212-3DC□□-□□A1 3WL9 212-6DC□□-□□A1		1 1	1 unit 1 unit		31.00 60.00
	rcuit connection	D			1	1 drift	100	00.00
	2000	В	3WL9 212-3DDDD-DDA1		1	1 unit	103	31.00
1	4000	В	3WL9 212-6DDDD-DDA1		1	1 unit	103	60.00
	nnection connecting flanges							
 	2000 4000	B B	3WL9 212-3DE□□-□□A1 3WL9 212-6DE□□-□□A1		1 1	1 unit 1 unit		31.00 60.00
			Order No. supplements	Add. price				
Number of auvi	liary supply connectors		Order No. supplements	3-pole				
Vithout	nary suppry connectors		0	None				
connector			1	X				
connectors			2	х				
connectors connectors			3 4	××				
or required numb	er of auxiliary supply connectors,		-	^				
see table on page								
Гуре of auxiliar	y circuit connections							
Vithout	tions (CICLIT)		0	None				
Vith screw connec Vith screwless cor	nection method (tension spring)		1	××				
Position signal	, i o,		-	~				
Vithout			o	None				
Option 1	Connected 1 CO contact,		1	x				
	test 1 CO contacts, disconnected 1 CO contact							
Option 2	Connected 3 CO contacts,		2	×				
	test 2 CO contacts,		-	^				
	disconnected 1 CO contact							
Shutters			_					
Vithout Vith shutter, 2 part			AB	None x				
				1234 5 6 7	8 9 10 1	1 12 13 14	15.16	
Add "–Z" to the con and indicate the ap	mplete Order No. opropriate order code(s).		Order No. with "-Z" and additional order code	3WL9 2 1 2				Ado pric
Rated voltage 1000	V DC							
	Size II			A 0 5				
inned version of th rame ¹⁾	ne customer's connections on the guide							
	nes with horizontal connection or flange con-							
nection								

Guide frames for 4-pole DC non-automatic circuit breakers

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 15/24 onwards.

x = 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.

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

Accessories and spare parts

Size	Max. rated circuit breaker current					PS*	PG	Weight per PU
	I _{n max}		Order No. (Order No. supplements required according to table below)	Price per PU	(UNIT, SET, M)			approx.
	А							kg
Front main circ	cuit connection, single hole							
11	2000	В	3WL9 212-3EADD-DDA1		1	1 unit	103	37.000
	uit connection, double hole							
	2000	В	3WL9 212-3EB		1	1 unit	103	37.000
	n circuit connection							
 	2000 4000	B B	3WL9 212-3EC□□-□□A1 3WL9 212-6EC□□-□□A1		1	1 unit 1 unit	103 103	37.000 84.000
	ircuit connection					. and		0 1.000
11	2000	В	3WL9 212-3ED		1	1 unit	103	37.000
	4000	В	3WL9 212-6EDDD-DDA1		1	1 unit	103	84.000
	nnection connecting flanges							
 	2000 4000	B B	3WL9 212-3EEDD-DDA1 3WL9 212-6EEDD-DDA1		1 1	1 unit 1 unit	103 103	37.000 84.000
			Order No. supplements	Add. price				
Number of aux	iliary supply connectors			4-pole				
Without			0	None				
1 connector 2 connectors			1 2	X X				
3 connectors			3	x				
4 connectors			4	х				
For required numb see table on page	per of auxiliary supply connectors,							
1 0	ry circuit connections							
Without	,		0	None				
With screw connect			1	X				
	nnection method (tension spring)		2	х				
Position signal	ling switches							
Without	Connected 1 CO contact		0 1	None				
Option 1	Connected 1 CO contact, test 1 CO contacts.			х				
	disconnected 1 CO contact							
Option 2	Connected 3 CO contacts,		2	х				
	test 2 CO contacts, disconnected 1 CO contact							
Shutters	disconnected i CO contact							
Without			A	None				
With shutter, 2 par	ts, lockable		B	X				
Add "-Z" to the co	mplete Order No		Order No. with "–Z"	1234 5 6 7	8 9 10 1	1 12 13 1	4 15 16	Add.
	ppropriate order code(s).		and additional order code	3WL9 2 1 2			A1 –Z	price
Rated voltage 100	0 V DC							
Thated voltage 100	Size II			A 0 5				x
Tinned version of t	the customer's connections on the guide			A 03				X
frame ¹⁾	are outstomer a connections on the guide							
Only for guide fran	nes with horizontal connection or							
flange connection								
	Size II			A 0 8				х

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 15/24 onwards.

x = 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.