

Siemens 2020

Low-Voltage Power Distribution and Electrical Installation Technology

Air Circuit Breakers

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Edition 04/2020

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Making sure power makes its way

Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

Whether industries, infrastructures or buildings: Each environment depends on a reliable power supply.

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Refer to the Industry Mall for current prices www.siemens.com/industrymall

The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with DIN EN ISO 9001:2008.

Technical data

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

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Reliable, versatile and perfectly integrated

All power distribution systems rely on a secure infeed of electrical energy. The 3WL air circuit breakers reliably protect electrical equipment from damage or fire resulting from short circuit, ground fault or overload failures.

The 3WL air circuit breakers are used as incomingfeeder, tie, and outgoing-feeder circuit breakers in electrical installations in industry, buildings and infrastructure applications. They have the ability to communicate and can easily be integrated into higher-level control and energy management systems.

The 3WL air circuit breakers switch and protect motors, capacitors, generators, transformers, busbars and cables. The modular design and standardized range of accessories enable the circuit breakers to be adapted flexibly to different applications. UL 489-compliant versions are available for international use.

The 3WL air circuit breakers can optionally be equipped with a communication module and integrated into higher-level energy management systems. Auxiliary, signaling and position switches report status and fault diagnostics remotely to higher-level control systems.



Air Circuit Breakers



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A multitude of additional information ...

(i) All the important things at a glance

Information + ordering

Information to get you started

For information about air circuit breakers, please visit our website www.siemens.com/3WL

👤 Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact

i Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical basic information 3WL air circuit breakers (109767789)
- Quick selection guide 3WL air circuit breakers (109751638)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

• 3WL air circuit breakers (general) bit.ly/2ZH1rXH

Everything you need for your order

Refer to the Industry Mall for an overview of your products

• Air circuit breakers sie.ag/2IXiZjB

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

🖌 Configurators

Exactly the right circuit breaker for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3WL air circuit breaker at www.siemens.com/lowvoltage/3wl10-configurator www.siemens.com/lowvoltage/3wl-configurator

For your configured 3WL air circuit breaker, you can additionally find

- 3D views
- CAD data
- Unit wiring diagrams
- Dimension drawings

... can be found in our online services

Commissioning + operation

🔅 Configuration software

powerconfig

The combined commissioning and service tool for communication-capable measuring devices and circuit breakers from the SENTRON family. www.siemens.com/powerconfig

i Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/lowvoltage/cax

Training and tutorials

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- Protection systems in low-voltage power distribution (WT-LVAPS)
- 3WL air circuit breakers (WT-LVA3WL)
- Communication with SENTRON components (LV-COM)
- Maintenance and operation of 3WL circuit breakers (LV-CBMAIN)

Video tutorial on the 3WL air circuit breaker – descriptive supplement to Operating Instructions www.lowvoltage.siemens.com/wcms/3wl-tutorial

🗐 Manuals

Manuals are available for downloading in Siemens Industry Online Support at www.siemens.com/lowvoltage/manuals

- Configuration manual 3WL1 air circuit breakers (35681108)
- Configuration manual Low-voltage protection devices selectivity tables (109748621)
- System manual 3WL/3VL circuit breakers with communication capability – Modbus (39850157)
- System manual 3WL/3VL circuit breakers with communication capability – PROFIBUS (12560390)
- Equipment manual 3VA27 molded case circuit breakers & 3WL10 air circuit breakers (109753821)
- Communications manual 3WL air circuit breakers via COM35 – PROFINET IO, Modbus TCP (109757987)
- Communication manual 3WL10 air circuit breakers & 3VA27 molded case circuit breakers (109760220)

👤 The fast track to the experts

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We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog

i) Technical overview – Air circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on air circuit breakers www.siemens.com/lowvoltage/product-support (109766020)

Basic units for AC and DC

IEC 60947-2

4	

				3WL10	1		3WL11	
Basic data								
Rated voltage		V		Up to 690			Up to 1000	
Rated currents		А		630 1250)		630 2000)
Size				0			1	
Installation type			Withdrawa	able Fixe	ed-mounted	Withdrawa	able Fixe	ed-mounted
Number of poles			3/4-pole	9	3/4-pole	3/4-pole	5	3/4-pole
Dimensions								
Width (3-pole 4-pole)		mm	278 34	8	210 280	320 41	0 3	320 410
Height (standard) A05, A15, A16, DC greater than 600 V)		mm	363.5		296	468 51	8	462
Depth		mm	271		183	471		357
Approvals								
General product approvals			VDE, E	AC, CCC, CE	, C-Tick	VDE, E	AC, CCC, CE	, C-Tick
Marine / shipbuilding				RMRS		ABS, DNV,	, LR, BV, GL,	PRS, RMRS
Breaking capacity			В	N	S	N	S	Н
Rated short-circuit breaking capacity								
Rated operational voltage U _e up to 415 V AC I_{cu} I_{cs}		kA	42 42	55 50	66 50	55 55	66 66	85 85
Rated operational voltage U_e up to 500 V AC I_{cu} I_{cs}		kA	42 42	50 50	50 50	55 55	66 66	85 85
Rated operational voltage U_e up to 690 V AC I_{cu} I_{cs}		kA	- -	42 42	50 50	42 42	50 50	66 66
Rated operational voltage up to 690 V AC +20% ⁶⁾ , with Z opti	on: A16 I _{cu} I _{cs}	kA	- -	- -	- -	- -	- -	50 50
Rated operational voltage U _e up to 1000 V AC, with Z option:	A05 I _{cu} I _{cs}	kA	- -	- -	- -	- -	- -	50 50
Rated operational voltage U _e up to 1150 V AC, with Z option:	A15 I _{cu} I _{cs}	kA	- -	- -	- -	- -	- -	- -
Rated short-time withstand current I _{cw} ⁵⁾								
Rated short-time withstand current I_{cw} at U_{e} up to 500 V AC	0.5 s	kA	-	-	-	55	66	85
	1 s	kA	42	42	50	50	66	85
	2 s	kA	-	-	-	35 ¹⁾ /45 ²⁾	45	70
	3 s	kA	24	24	36	35 ¹⁾ /45 ²⁾	35	60
Rated short-time withstand current I_{cw} at U_{e} up to 690 V AC	0.5 s	kA	-	-	-	42	50	66
	1 s	kA	42	42	50	42	50	66
	2 s	kA	-	-	-	35 ¹⁾ /42 ²⁾	45	66
	3 s	kA	24	24	36	30 ¹⁾ /45 ²⁾	35	60
Rated short-time withstand current I _{cw} at DC	1 s	kA	-	-	-	-	-	-
Rated conditional short-circuit current \mathbf{I}_{cc} of the non-autor	natic air circuit bre	akers						
Up to 500 V AC		kA	-	42	50	55	66	85
Up to 690 V AC		kA	-	42	50	42	50	66
Up to 1000 V/1150 V AC, with Z option: A05		kA	-	-	-	-	-	50/-
Up to 1000 V/1150 V AC, with Z option: A15		kA	-	-	-	-	-	-
Up to 220 V/300 V DC		kA	-	-	-	-	-	-
Up to 600 V/1000 V DC		kA	-	-	-	-	-	-

1) Size 1 with $I_{n \text{ max.}} \leq 1250 \text{ A}$ 2) Size 1 with $I_{n \text{ max.}} \geq 1600 \text{ A}$ 3) Size 2 with $I_{n \text{ max.}} \leq 2500 \text{ A}$ 4) Size 2 with $I_{n \text{ max.}} \geq 3200 \text{ A}$ $^{5)}~$ At a rated voltage ${\geq}690$ V the I $_{cw}$ value of the circuit breaker corresponds with the I $_{cu}$ or I $_{cs}$ value

System overview, pages 1/20 and 1/38

AC

1

			AC	DC						
		J								
	3W	L12			3WL13		3WL11	3W	L12	
	Lin to	1150			Up to 1150		1000 DC	Lin to 600	D/1000 DC	
	800				4000 630		2000		4000	
		2			3	-	1		2	
 Withdr	awable	Fixed-m	ounted	Withdrawa	able Fixe	d-mounted	Fixed-mounted	Withdrawable	Fixed-mounted	
3/4-	pole	3/4-	pole	3/4-pol	e .	3/4-pole	4-pole	3/4-pole	3/4-pole	
460	590	460	590	704 91	4	704 914	410	460 590	460 590	
	518	46		468 51		462	462	468 518	462	
	71	35		471	•	357	357	471	357	
	VDE, EAC, CO	CC, CE, C-Tick		VDE, EAC	, CCC, VDE,	CE, C-Tick	VDE, EAC, CCC, CE, C-Tick	VDE, EAC, CO	CC, CE, C-Tick	
AB		/, GL, PRS, RM		ABS, DNV	, LR, BV, GL,		ABS, DNV, LR, BV, GL, PRS, RMRS		V, GL, PRS, RMRS	
N	S	Н	C 7)	н	С Зр	C 4p	DC	C	DC	
66 66	85 85	100 100	130 130	100 100	150 150	130 130	-		-	
66 66	85 85	100 100	130 130	100 100	150 150	130 130	-		-	
50 50	75 75	85 85	100 100	85 85	150 150	130 130	-		-	
 - -	- -	- - 85 85	- -	- - 85 85	- - 125 125	- - 125 125				
- -	- -	50 50	- -	70 70	- -	- -	-		-	
-1-	-1-	50150	-1-	70170	-1-	-1-	_		-	
66	85	100	100	100	130	120	-		_	
66	85	85	100	100	130	120	-		_	
66	66 ³⁾ /85 ⁴⁾	66 ³⁾ /85 ⁴⁾	85	100	130	120	-		_	
55 ³⁾ /66 ⁴⁾	55 ³⁾ /75 ⁴⁾	55 ³⁾ /75 ⁴⁾	75	100	130	120	-		_	
50	75	85	100	85	130	120	-		-	
50	75	85	100	85	130	120	-		_	
50	66 ³⁾ /75 ⁴⁾	66 ³⁾ /85 ⁴⁾	85	85	130	120	-		_	
50	55 ³⁾ /75 ⁴⁾	55 ³⁾ /75 ⁴⁾	75	85	130	120	-		_	
-	-	-	-	-	-	-	20	35 ⁸⁾ /30 ⁹⁾ /	25 10) / 20 11)	
66	85	100	130	100	130	120	_		_	
50	75	85	100	85	130	120	_		_	
	-	85/85	-	85/85	-	-				
_	_	-/50	_	70/70	_	_	_		_	
-	-	-	-	-	-	-	20/20	35	/30	
							20/20		/20	

¹⁰⁾ At $U_e = 600 \text{ V DC}$ ¹¹⁾ At $U_e = 1000 \text{ V DC}$

Breaking capacity

- В Basic
- Ν ECO
- s Standard
- н High
- С Very high

DC DC

 $^{\rm 6)}$ At 690 V AC +5% the I $_{\rm cu}$ = I $_{\rm cs}$ = 85 kA $^{7)}$ Up to 3200 A rated current.

⁸⁾ At U_e = 220 V DC ⁹⁾ At U_e = 300 V DC

System overview, pages 1/20 and 1/38

Basic units for AC

1

IEC 60947-2

3WL11

630 A 800 A 1000 A

3WL10

1250 A 1000 A 1250 A

Rated current				
Isolating function acc. to EN 60947-2			Yes	
Utilization category			В	
Permissible ambient temperature	During operation (in operation with LCD max. 55 °C) ¹⁾	°C	-25 +70	-40 +70
	Storage	°C	-40 +70	-40 +80
Mounting position				NSE0_00061a NSE0_00062a
Degree of protection			IP20 without cabinet door, IP30 with door sealing frame, IP54 with cover	IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover
Supply				
Voltage				
Rated operational voltage U _e at 50/60 Hz	1000 V version	V AC	Up to 690	690/1000
Rated insulation voltage U _i		V AC	1000	1000

Rated insulation voltage U _i		V AC			1000		10	000
Rated impulse withstand voltage U _{imp}	kV			12		1	2	
	Auxiliary circuits	kV			4		4	4
	Control circuits ⁹⁾	kV			2.5		2	.5
Rated rotor operational voltage U _{er}		V					20	000
Permissible load for withdrawable version	ons ^{2) 4) 10)}							
At rear horizontal main connections	Up to 55 °C (Cu bare)	А	630	800	1000	1250	1000	1250
	Up to 60 °C (Cu bare)	А	630	800	1000	1250	1000	1250
	Up to 70 °C	А	630	800	1000	1250	1000 8)	1210 ⁸⁾
Power loss at I _n								
With three-phase symmetrical load,	Fixed-mounted circuit breaker	W	31	50	78	122	100	105
complete device (3/4p)	Withdrawable circuit breaker	W	62	100	156	244	195	205
Switching cycles								
Switching times								
Make time		ms	<20	<20	<20	<20	3	5
Opening time		ms	<20	<20	<20	<20	3	8
Electrical make time (through closing coil)	5)	ms	<50	<50	<50	<50	8	0
Electrical opening time (through shunt trip)	ms	<35	<35	<35	<35	7	'3
Electrical opening time (instantaneous und	ervoltage release)	ms	<50	<50	<50	<50	7	'3
Opening time due to ETU, instantaneous sh		ms	25	25	25	25	5	0
Service life: Breaking capacity N and S, 3	/4-pole							
Mechanical	Without maintenance	Operating cycles	20000	20000	20000	20000	15000	15000
	With maintenance ⁶⁾	Operating cycles	-	-	-	-	25000	25000
Electrical	Without maintenance 440 V	Operating cycles	80007)	8000 7)	80007)	8000 7)	-	-
	Without maintenance 690 V	Operating cycles	80007)	8000 7)	80007)	6500 ⁷⁾	10000	10000
	With maintenance ⁶⁾	Operating cycles	_ 7)	_ 7)	_ 7)	_ 7)	25000	25000
Service life: Breaking capacity H, 3-pole								
Mechanical	Without maintenance	Operating cycles	-	-	-	-	10000	10000
	With maintenance ⁶⁾	Operating cycles	-	-	-	-	15000	15000
Electrical	Without maintenance 690 V	Operating cycles	-	-	-	-	7500	7500
	Without maintenance 1000 V, with Z option: A05	Operating cycles	-	-	-	-	1000	1000
	Without maintenance 1150 V, with Z option: A15	Operating cycles	-	-	-	-	-	-
	With maintenance 6)	Operating cycles	-	-	-	-	15000	15000

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

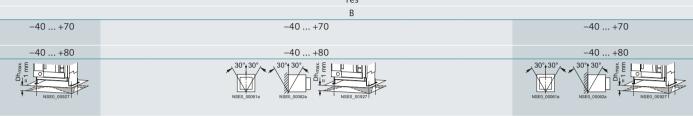
The LCD on the 3WL10 is always active.
 4000 A, size 2 in fixed-mounted version, 3-pole
 ETU76B with graphics display can be used up to max. 55 °C.

6) Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual). Greasing the breaker mechanism on the 3WL10, no replacement of components.

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1





IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover

IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover

IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover

						0/1000						
690/	1000				690/1000							
10	00				1	1000				1000		
1	2					12					12	
2	4					4					4	
2.	.5					2.5					2.5	
20	00				2	2000					2000	
1600	2000	800	1000	1250	1600	2000	2500	3200	3950	4000	5000	5920
1600	1930	800	1000	1250	1600	2000	2500	3020	3810	4000	5000	5810
1490 ⁸⁾	1780 ⁸⁾	800 8)	10008)	1250 ⁸⁾	1600 ⁸⁾	2000 8)	2280 ⁸⁾	2870 ⁸⁾	3600 ⁸⁾	4000 8)	5000 ⁸⁾	5500 ⁸⁾
150	240	40	45	80	85	180	270	410	750	520	630	900
350	440	85	85 95 165 175 320 520 710 925							810	1050	1600

3	5					35						
3	8					34				34		
8	0					100					100	
7.	3					73					73	
7.	3					73					73	
50	0					50					50	
15000	15000	10000	10000	10000	10000	10000	10000	10000	10000	-	-	-
25000	25000	17500	17500	17500	17500	17500	17500	17500	17500	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
10000	10000	7500	7500	7500	7500	7500	7500	4000	2000	-	-	-
25000	25000	17500	17500	17500	17500	17500	17500	17500	17500	-	-	-
10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	5000	5000	5000
15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	10000	10000	10000
7500	7500	7500	7500	7500	7500	7500	7500	4000	2000	2000	2000	2000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
-	-	500	500	500	500	500	500	500	500	500	500	500
15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	10000	10000	10000

7) Periodic greasing of breaker mechanism on 3WL10

(see Manual), components not to be replaced

⁸⁾ Cu painted black

 $^{9)}\,$ Motorized operating mechanism $U_{imp}{=}1.2$ kV $^{10)}$ For 3WL size 2 4000A and size 3 6300A with rear vertical

main connections.

Basic units for AC

IEC 60947-2 (continued)

				3۱	N <u>L10</u>		3WL11		
								1	
			630 A	800 A	1000 A	1250 A	1000 A	1250 A	
Switching cycles									
Service life: Breaking capacity H, 4-pole									
Mechanical	Without maintenance	Operating cycles	-	-	-	-	10000	10000	
	With maintenance 6)	Operating cycles	-	-	-	-	15000	15000	
Electrical	Without maintenance 690 V	Operating cycles	-	-	-	-	7500	7500	
	Without maintenance 1000 V	Operating cycles	-	-	-	-	1000	1000	
	Without maintenance 1150 V ⁷⁾	Operating cycles	-	-	-	-	-	-	
	With maintenance 6)	Operating cycles	-	-	-	-	10000	10000	
Service life: Breaking capacity C									
Mechanical	Without maintenance	Operating cycles	-	-	-	-	-	-	
	With maintenance 6)	Operating cycles	-	-	-	-	-	-	
Electrical	Without maintenance 690 V	Operating cycles	-	-	-	-	-	-	
	With maintenance 690 V ⁶⁾	Operating cycles	-	-	-	-	-	-	
Switching frequency ⁸⁾									
Mechanical/electrical	690 V version	1/h	60/30	60/30	60/30	60/30	-	-	
	1000 V / 1150 V version	1/h	-	-	-	-	-	-	
Connection									
Minimum phase size									
Copper bars, bare		Unit, mm ²	2×40×5	2× 50×5) $2 \times 50 \times 10^{12}$ $2 \times 50 \times 8^{12}$	1× 60×10	2×40×10	
Copper bars, painted black		Unit, mm ²	-	-	-	-	1×60×10	2×40×10	
Auxiliary conductor (Cu) max. number of a	uxiliary conductors × cross-sectio	n (solid/stranded)						
Standard connection = screw	Without end sleeve				-		(AWG 2	2× 1.5 mm² 0 16); ı² (AWG 14)	
	With end sleeve acc. to DIN 4622	28 Part 2			-			1× 1.5 mm² 20 16)	
	With twin end sleeve				-			2× 1.5 mm² 20 16)	
Screwless connection technology	Without end sleeve				2.5 mm² G 20 14)			2× 2.5 mm² 20 14)	
	With end sleeve acc. to DIN 4622	28 Part 2			1.5 mm² 5 20 16)			2× 1.5 mm² 20 16)	
Position signaling switches									
Screwless connection technology					1× 2.5 mm 5 20 14)	2		I× 2.5 mm² !0 14)	
Weights									
3-pole	Fixed-mounted circuit breaker	kg			14		43	43	
	Withdrawable circuit breaker	kg			17.3		45	45	
	Guide frames	kg			21		25	25	
4-pole	Fixed-mounted circuit breaker	kg			16		50	50	
	Withdrawable circuit breaker	kg			19.3		54	54	
	Guide frames	kg			25		30	30	
		U U							

6) Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual). ⁷⁾ Size 2 with order code "A15" and size 3. Data for very high breaking capacity.

⁸⁾ Minimum interval time between 2 tripping operations
 ⁹⁾ 3-pole switching with breaking capacity N and S: 45/h.

3W	L11				30	VL12					<u>3WL</u> 13	
Î												
1600 A	2000 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A	4000 A	5000 A	6300 A
10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	5000	5000	5000
15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	10000	10000	10000
7500	7500	7500	7500	7500	7500	7500	7500	4000	2000	2000	2000	2000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
-	-	500	500	500	500	500	500	500	500	500	500	500
10000	10000	15000	15000	15000	15000	15000	15000	15000	15000	10000	10000	10000
10000	10000	13000	13000	13000	13000	13000	13000	13000	15000	10000	10000	10000
-	-	5000	5000	5000	5000	5000	5000	5000	-	5000	5000	5000
-	-	10000	10000	10000	10000	10000	10000	10000	-	10000	10000	10000
-	_	5000	5000	5000	5000	5000	5000	4000	-	1000	1000	1000
-	-	10000	10000	10000	10000	10000	10000	8000	-	-	-	-
-	20/20	60/60 ⁹⁾	60/60 ⁹⁾									
-	-	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
2× 50×10	3× 50×10	1× 50×10	1× 60×10	2×40×10	2× 50×10	3×50×10	2×100×10	3×100×10	4× 120×10	4× 100×10	6×100×10	6× 120×10
2× 50×10	3× 50×10	1× 50×10	1× 60×10	2×40×10	2× 50×10	3× 50×10	2×100×10	3× 100×10	4×100×10	4× 100×10	6×100×10	6× 120×10
2× 0.5 2	× 1.5 mm ²	_	_	_	2× 0.5	2× 1.5 mm	2	_		2×	0.5 2× 1.5 m	m ²
(AWG 20) 16);				(AWG	20 16);				((AWG 20 16);	
1× 2.5 mm ²						m² (AWG 14					2.5 mm ² (AWG	
1× 0.5 1 (AWG 20						1× 1.5 mm 20 16)	2				0.5 1× 1.5 m (AWG 20 16)	m²
2× 0.5 2 (AWG 20						2× 1.5 mm 20 16)	2				0.5 2× 1.5 m (AWG 20 16)	m²
2× 0.5 2 (AWG 20						2× 2.5 mm 20 14)	2				0.5 2× 2.5 m (AWG 20 14)	m ²
2× 0.5 2 (AWG 20	× 1.5 mm ²				2× 0.5	2× 1.5 mm 20 16)	2			2×	0.5 2× 1.5 m (AWG 20 16)	m²
() (11 0 2)					(, in c	20 10)					() (110 20 111 10)	
1× 0.5 1	× 2.5 mm ²				1× 0.5	1× 2.5 mm	2			1×	0.5 1× 2.5 m	m ²
(AWG 2	0 14)	_		_	(AWG	20 14)					(AWG 20 14)	
43	43	56	56	56	56	56	59	64	85	82	82	90
45	45	60	60	60	60	60	63	68	121	88	88	96
25	25	31	31	31	31	31	39	45	52	60	60	70
50	50	67	67	67	67	67	71	77	103	99	99	108
54	54	72	72	72	72	72	76	82	146	106	106	108
30	30	37	37	37	37	37	47	54	62	84	84	119

¹²⁾ Horizontal ¹³⁾ Vertical

Basic units for DC

Operation Storage

	2000 A	1000 A	2000 A	4000 A						
	1		2							
		Y	es							
		В								
°C		-40.	+70							
°C		-40.	+80							

30°+30°

3WL11

Degree of protection

Mounting position

Utilization category

Rated current Size

Isolating function acc. to EN 60947-2

Permissible ambient temperature

IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover

30°+ 30°

3WL12

				11 55 111	chi cover	
Supply						
Voltage						
Rated operational voltage U _e at 50/60 Hz	1000 V version	V DC	1000		600/1000	
Rated insulation voltage U _i		V DC	1000		1000	
Rated impulse withstand voltage U _{imp}	Main conducting paths	kV	12		12	
	Auxiliary circuits	kV	4		4	
	Control circuits	kV	2.5		2.5	
Permissible load						
At rear horizontal main connections	Up to 40 °C (Cu black painted)	А	2000	1000	2000	4000
	Up to 55 °C (Cu black painted)	А	1910	1000	2000	3640
	Up to 60 °C (Cu black painted)	А	1850	1000	2000	3500
	Up to 70 °C (Cu black painted)	А	1710	1000	1950	3250
Power loss at I _n						
With symmetrical load	Withdrawable circuit breaker	W	150	280	770	1640
Switching cycles						
Switching times						
Make time		ms	35		35	
Opening time		ms	38		34	
Electrical make time (through activation sol	enoid) 1)	ms	100		100	
Electrical opening time (through shunt trip)		ms	73		73	
Electrical opening time (instantaneous unde	ervoltage release)	ms	73		73	
Endurance ³⁾						
Mechanical	Without maintenance	Operating cycles	10000	10000	10000	10000
	With maintenance ²⁾	Operating cycles	15000	17500	17500	17500
Electrical	Without maintenance	Operating cycles	1000	6000	6000	4000
	Without maintenance 1000 V	Operating cycles	1000	1000	1000	1000
	With maintenance ²⁾	Operating cycles	2000	17500	17500	17500

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

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

³⁾ Further technical specifications on request. ⁴⁾ At U_e = 220 V DC

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			3WL11		3WL12	
			2000 A	1000 A	2000 A	4000 A
Breaking capacity						
Short-circuit breaking capacity I _{cc}						
Up to 220 V DC		kA	20		35	
Up to 300 V DC		kA	20		30	
Up to 600 V DC		kA	20		25	
Up to 1000 V DC		kA	20		20	
Rated short-time withstand current I _{cw}						
0.5 s		kA	-	25		
1 s		kA	20	35	⁴⁾ / 30 ⁵⁾ / 25 ⁶⁾ / 2	20 /)
2 s		kA	-		-	
3 s		kA	-		-	
Breaking capacity						
Switching frequency		4 //	_	60	60	60
690 V version		1/h	-	60	60	60
1000 V version		1/h	20	20	20	20
Connection						
Auxiliary conductor (Cu) max. number of	•	(solid/strande		5 24446.0		2 (1) 10 4
Standard connection = strain-relief clamp	Without end sleeve		2× 0.5 2× 1.5 mm ² (AWG 20 16); 1× 2.5 mm ² (AWG 14 1× 0.5 1× 1.5 mm ² (AWG 20 16)			
	With end sleeve acc. to DIN 46228	Part 2			•	
	With twin end sleeve			0.5 2× 1.5 m		
Optional connection = tension spring	Without end sleeve	De ut 2	2× 0.5 2× 2.5 mm ² (AWG 20 14) 2× 0.5 2× 1.5 mm ² (AWG 20 16)			
Moighto	With end sleeve acc. to DIN 46228	Part 2	2>	0.5 2× 1.5 m	Im- (AWG 20	10)
Weights	Fixed-mounted circuit breaker	ke	42	FC	FC	64
3-pole	Withdrawable circuit breaker	kg kg	43	56 60	56 60	64 68
	Guide frames	kg	_	60 31	60 31	68 45
4-pole	Fixed-mounted circuit breaker	kg kg	50	67	67	45
poie	Withdrawable circuit breaker	kg	-	72	72	82
		0				82 54
	Guide frames	kg	-	37	37	

⁵⁾ At $U_e = 300 \text{ V DC}$ ⁶⁾ At $U_e = 600 \text{ V DC}$

⁷⁾ At $U_e = 1000 \text{ V DC}$.

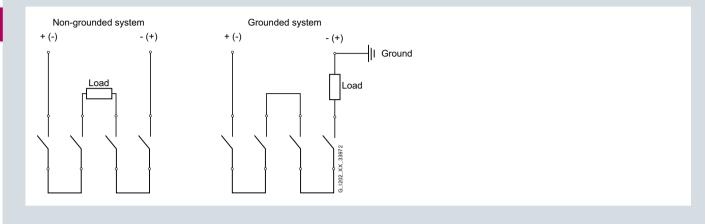
System overview, pages 1/20 and 1/38

Siemens LV 10 · 04/2020 1/11

Basic units for DC

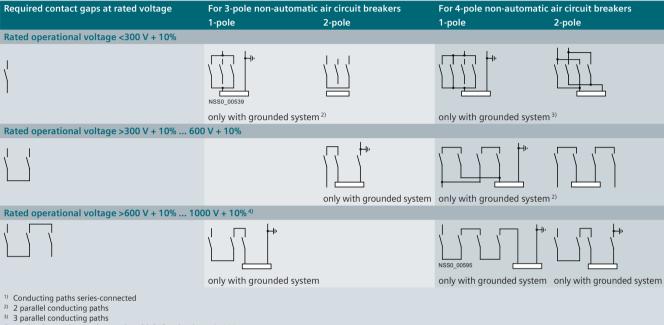
Application examples size 1

Permissible interconnection circuit diagrams for size 1, 1000 V DC non-automatic air circuit breakers



Application examples size 2

The connection to the circuit breakers is not dependent on direction and polarity; the circuit diagrams can be adapted accordingly. If the parallel or series connections are made directly to the connecting bars, for thermal reasons the continuous load on the circuit breakers must only be 80% of the permissible operational current. If the parallel or series connection is made at a distance of 1 m from the connecting bars, the circuit breaker can be used at full operational current load.



4) Version for 1000 V required, order with "-Z" and order code A05

⊢ Grounded system

🗖 Load

Electronic trip unit ETU

With watchdog monitoring



			ETU320 (LI)	ETU350 (LSI)	ETU360 (LSIG)
Ba	sic protection functions				
L	Overload protection (L tripping operation)	Setting range of operating value $I_r = I_n \times$	0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4	0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4	0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4
	Site protection functions 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.410.510.510.71 0.5111.2151.8110 0.55111.2151.8110 0.55111.2151.8110 0.55111.2151.8110 0.55111.2151.8110 0.55111.2151.8111 114171.211.251 1141171.211.251 1141171.211.251 1141171.211.251 1141171.211.251 1141171.211.251 1141.511.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.212.51.3141 1151.512.213.4161 0.511.02.21.00.010.101.010.101.010.101.010.101.010.101.010.101.010.101.010.101.010.101.010.0101.010.010.010.101.010.010.010.010.010.010.010.010.01	-			
Basic protection functions Setting range of operating value , -1, × 0.4 (0.5) (0.5 (0.7) (0.75) (0.8) (0.5) (0.7) (0.5) (1.106aut 0.4) 0.4 (0.5) (0.5 (0.7) (0.5) (1.106aut 0.4) 0.5 (0.1) (1.106aut 0.4)	14 17 21 25 s				
	L Overload protection (L tripping operation) S Short-time delay short-circuit protection (ST tripping) I Instantaneous short-circuit protection (INST tripping operation) N Neutral conductor protection G Ground-fault tripping (GF tripping) Detection of ground-fault current through summation current formation with internal or external N conductor		-	-	-
		Thermal memory can be switched on/off			
		Phase failure sensitivity / asymmetry	-	-	-
S	2 C C C C C C C C C C C C C C C C C C C	Setting range of operating value $I_{sd} = I_n \times$	-		1 1.5 2 2.5 3 4 6 8 10 Default OFF
		Setting range of delay time t_{sd} (t = const.)	-		0.5 0.6 0.7 $0.4 0.5 0.6 0.7 $ $ 0.8 0.85 0.9 $ $0.75 0.8 0.85 0.9 $ $ 0.75 0.8 0.85 0.9 $ $0.95 1 Default 0.4$ $ 1 2 5 8 10 $ $0.75 1 2 5 8 10 $ $ 17 21 25 8 $ $0.75 1 2 5 8 10 $ $ 17 21 25 8 $ $0.75 1 2 5 8 10 $ $ 14 17 21 25 8 $ $0.75 12 5 8 10 $ $ 14 17 21 25 8 $ $0.75 12 5 8 10 $ $ 16 10 10 5 $ $0.75 12 25 3 4 6 $ $ 16 10 10 10.75 $ $0.1 0.2 0.3 0.4 0.5 $ $ 10 12 15 $ $0.8 0.15 0.22 0.3 $ $0.3 0.4 $ $0.1 0.2 0.3 0.4 0.5 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 0.8 1 $ $ 0.3 0.4 $ $0.5 5 0.6 0.7 0.8 1 $ $ 0.3 0.4 0.5 $ $0.6 0.7 0.8 1 $ $ 0.1 0.2 0.3 0.4 0.5 $ $0.6 0.7 0.8 1 $ $ 0.1 0.2 0.4 0.6 0.8 1 $ $0.6 0.$
		ZSI function	-	-	-
T		Setting range $2 = I_n \times$			
Ν		Neutral conductor setting range $I_N = I_n \times$			
G	Ground-fault tripping (GF tripping)	Tripping function can be switched on/off	-	-	
	through summation current formation	Alarm function can be switched on/off	-	-	-
		5	-	-	-
		Setting range of the operating current I_g = $I_n \times$	-	-	
			-	-	-
		0.7510.810.8510.910.7510.810.8510.910.7510.810.8510.910.75110.8510.91Switchable overload protection (from Pi- to Pi-dependent function)Setting range of delay, ta Pi (Reference point 6 x L_)0.751112151811010.75111215181101 1411712112551 0475111215181010.75111215181101 1411712112551 0475111215181010.75111215181101 1411712112551 047511121518100Thermal memory can be switched onloffPermanently switched onPermanently switched onPhase failure sensitivity / asymmetrySetting range of operating value $L_a = L_a \times$ -611512213141 0.51(Ref. 10x L_b)0.8110122163144 0.8110121151Setting range of delay time t_{ac} at Pt-0.010.210.310.41 0.010.1510.2210.0810.1510.221 0.0810.1510.2210.0810.1510.221 0.0810.1510.221 0.0810.1510.221 0.0810.1510.221Setting range of delay time t_{ac} at PtSetting range of delay time t_{ac} at Pt-0.05112121314161 0.051(Ref. 10x L_b)0.0810.1510.2210.31 0.0810.1510.2210.31 0.0810.1510.2210.31 0.0810.1510.2210.31 0.0810.1510.2210.31 0.0810.1510.2210.31 0.045 sSetting range of delay time t_{ac} at PtOFF10.5121314161 200%OFF10.5121314161 0FF10.5121314161 0FF10.5121314161OFF10.5121314161 0FF10.5121314161 0FF10.5121314161 0FF10.5121314161 0FF10.5121314161 0FF10.5121314161Setting range of the operating current $L_g = L_g \times$ Setting range of the delay time t_g -			
			-	-	.5 0.6 0.7 0.4 0.5 0.6 0.7 .8 0.85 0.9 0.75 0.8 0.85 0.9 1 Default 0.4 0.75 0.8 0.85 0.9 0.95 1 Default 0.4 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
			-	-	(Ref. 2× I _n) (I²t dependent)
		and functions 0.4 (10.5) (0.610.7) 0.4 (10.5) (0.610.7) 0.4 (10.5) (0.610.7) 0.4 (10.5) (0.610.7) 0.4 (10.5) (0.610.7) 0.4 (10.5) (0.610.7) 0.75 (0.8) (0.85) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.9) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) (0.8) 0.95 (11.5) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.			

¹⁾ Sizes 1 and 2 / size 3

3W	L10		3WL11 – 3WL13						
 P1980136 P1980136 	4.0 4.0 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	10 - 10 20 - 10 60 L - 60 L	19 9 1990 1990 1991 1997 1997 1997 1997 199						
ETU650 (LSI)	ETU660 (LSIG)	ETU15B (LI)	ETU25B (LSI)	ETU27B (LSIG)	ETU45B (LSIG)	ETU76B (LSIG)			
0.4 1 Default 1 (in steps of 0.001)	0.4 1 Default 1 (in steps of 0.001)	0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 1	0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1	0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1	0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1	0.4 1			
•	•	-	-	-	•	•			
0.75 36 s (in steps of 0.25 s) Default 36 s	0.75 36 s (in steps of 0.25 s) Default 36 s	10 s fixed	10 s fixed	10 s fixed	2 3.5 5.5 8 10 14 17 21 25 30 s	2 30 s			
0.75 5 s (in steps of 0.25 s) Default 5 s	0.75 5 s (in steps of 0.25 s) Default 5 s	-	-	-	1 2 3 4 5 s	1 5 s			
•	•	-	-	-	•	•			
2% 90% (default 50%)	2% 90% (default 50%)	-	At t_{sd} = 20 ms (M)	At t_{sd} = 20 ms (M)	At t_{sd} = 20 ms (M)	■ (on/off)			
0.6 10 OFF (in steps of 0.1)	0.6 10 OFF (in steps of 0.1)	-	1.25 1.5 2 2.5 3 4 6 8 10 12	1.25 1.5 2 2.5 3 4 6 8 10 12	1.25 1.5 2 2.5 3 4 6 8 10 12 OFF	1.25 × I _n 0.8 × I _{cw} OFF			
0.05 0.5 s (Ref. 10× I _n)	0.05 0.5 s (Ref. 10× I _n)	-	-	-	100 200 300 400 ms	100 400 ms			
0.05 0.4 s	0.05 0.4 s	-	M (0.02 ms) 100 200 300 400 ms	M (0.02 ms) 100 200 300 400 ms	M (0.02 ms) 100 200 300 400 ms	M (0.02 ms) 80 4000 ms			
		_	_	_	by CubicleBUS module	by CubicleBUS module			
					sy casteres os modale	sy casteres os modale			
OFF 1.5 15 (in steps of 0.1)	OFF 1.5 15 (in steps of 0.1)	2 3 4 5 6 7 8	Fixed at 2 ≥20 × I _n , max. 50 kA	Fixed at $2 \ge 20 \times I_n$, max. 50 kA	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs}	$\begin{array}{c} \text{OFF } \\ 1.5 \times _n \dots 0.8 \times _{cs} \end{array}$			
		2 3 4 5 6 7 8			OFF 1.5 2.2 3 4	OFF			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100%	- -		max. 50 kA	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs}	OFF 1.5 × I _n 0.8 × I _{cs}			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100% 200%	2 3 4 5 6 7 8 - - - -		max. 50 kA 100%	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs}	OFF 1.5 × I _n 0.8 × I _{cs}			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100% 200% ■	2 3 4 5 6 7 8 - - - - -		max. 50 kA 100%	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs}	OFF 1.5 × I _n 0.8 × I _{cs}			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100% 200% Alternative Rc or G-ret ground-fault	2 3 4 5 6 7 8 - - - - - -		max. 50 kA 100%	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs}	OFF 1.5 × I _n 0.8 × I _{cs}			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100% 200% Alternative Rc or G-ret ground-fault monitoring 0.1 1 (in steps of 0.001)	2 3 4 5 6 7 8 - - - - - - - - - -		max. 50 kA 100% - - A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A);	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs} OFF 50% 100%	OFF 1.5 × I _n 0.8 × I _{cs} OFF 20% 200%			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100% 200% Alternative Rc or G-ret ground-fault monitoring 0.1 1 (in steps of 0.001) $l_g = l_n x$ 50% 90% × l _r (in steps of 1%)	2 3 4 5 6 7 8		max. 50 kA 100% - - A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A);	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs} OFF 50% 100%	OFF 1.5 × I _n 0.8 × I _{cs} OFF 20% 200%			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100% 200% Alternative Rc or G-ret ground-fault monitoring 0.1 1 (in steps of 0.001) $l_g = l_n \times$ 50% 90% × l _r (in steps of 1%) PreAlarm 0.1 1 s Default 0.1 s			max. 50 kA 100% - - A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A) - 100 200 300 400	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs} OFF 50% 100% - A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A) A ¹⁾ (100/400 A); B ¹⁾ (300/600 A); C ¹⁾ (600/800 A); C ¹⁾ (1200/1200 A) 100 200 300 400	OFF 1.5 × I _n 0.8 × I _{cs} OFF 20% 200%			
(in steps of 0.1) OFF 50% 100%	(in steps of 0.1) OFF 50% 100% 200% Alternative Rc or G-ret ground-fault monitoring 0.1 1 (in steps of 0.001) $l_g = l_n \times$ 50% 90% × l_r (in steps of 1%) PreAlarm 0.1 1 s Default 0.1 s (in steps of 0.05 s) t = const. / l ² t			max. 50 kA 100% - - A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A) - 100 200 300 400	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs} OFF 50% 100%	OFF 1.5 × I _n 0.8 × I _{cs} OFF 20% 200% SZ 1, 2: 100 1200 A SZ 3: 400 1200 A SZ 3: 400 1200 A SZ 3: 400 1200 A			

Electronic trip unit ETU

With watchdog monitoring (continued)

		3WL10			
	ETU320 (LI)	ETU350 (LSI)	ETU360 (LSIG)		
Parameter set changeover Switchable between parameter set A and B	-	-	-		
LCD	-	-	-		
Voltage tap on top/bottom	-	-	-		
Metering function	-	-	-		
Tripping operation as a result of extended protection function: (including: phase asymmetry current/voltage, harmonic distortion current/voltage, under/ overvoltage, phase rotation direction, active power in/opposite to normal direction, under/ over-frequency, protection functions dependent on direction of power flow)	-	-	-		
Mode of communication					
Communication PROFIBUS PROFINET Modbus RTU Modbus TCP	-	-	_		
Output modules					
Signals via relay: Overload warning, load shedding / load carrying, leading signal, overload tripping 200 ms, temperature alarm, phase asymmetry, instantaneous short-circuit release, short time-delayed short-circuit release, overload trip, neutral conductor trip, auxiliary relay, ETU faults, grounding protection tripping and grounding protection alarm (only with grounding protection module)	IOM300	IOM300	ЮМ300		

Increment size when settings are made for the ETU76B using the menu

From to	Increment size
0 1	0.1
1 100	1
100 500	5
500 1000	10
1000 1600	50
1600 10000	100
10000 max.	1000



Connection

Main circuit connection

1



Auxiliary circuit connections

3WL 10: Withdrawable / fixed-mounted version

• Direct engagement of the auxiliary conductor vertically onto the circuit breaker or horizontally in the guide frame



Screwless connection technology (push in)

3WL11 - 3WL13: Withdrawable version

- · Connection of the internal auxiliary switches to the male connector on the switch side
- When fully inserted, connection with the sliding contact module in the guide frame

3WL11 - 3WL13: Fixed-mounted version

• Engagement of the auxiliary supply connectors directly onto the circuit breaker

Coding pins on the connectors prevent them being inserted in the wrong slots



Screw connection (SIGUT) (standard)



Screwless connection (tension spring) (optional)

Available for air circuit broaker

Operating mechanism, auxiliary release, auxiliary switch

Operating mechanism

The circuit breakers are available with various optional operating mechanisms:

- Manual operating mechanism with mechanical closing (standard design)
- Manual operating mechanism with mechanical and electrical closing
- Motorized operating mechanism with mechanical and electrical closing

The operating mechanisms with electrical closing are suitable for synchronization tasks.

	Available for a	an circuit breakers
	3WL10	3WL11 – 3WL13
Closing coils (CC)		
Undervoltage releases (UVR) / shunt trips (ST)	•	•
Shunt trips (ST)		•
Remote reset magnets (RR)		
Spring charging motor (MO)		•
Mechanical operating cycles counters	•	•

3WL10 system overview

IEC AC ..

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

Basic units

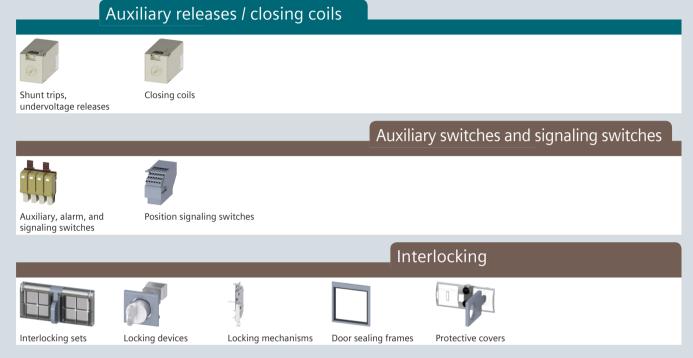


Size 0



Note:

You will find a detailed range of accessories in the Accessories and spare parts section.



Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Online configurator highlights

www.siemens.com/lowvoltage/configurators

Search function with global direct input

Searches for specific terms and jumps to MLFB based on input to the correct configurator

SIEMENS Ingenuity for life	<u>م</u> ۱	og in 🎄 Additional actions 🥠 Support 🔞 Languag	e ×
Configurators for Low-voltage	List of products	Search for (e.g. 3WL1110-4EB36-6EQ8-Z A05+B0 9]
		J D T D O Y	
1 Select Type of Product	2 Select Category		

Product list stores multiple configurations and can transfer them collectively to the shopping cart

/ Projectdata					む Load product list	
ions 🗸						
No.	Article	Quantity	Unit price:	Documents		
1	3WL1106-2E862-1AA2 / Fixed-mounted circuit breaker 3-pole, Size 1, IEC In-630 A to 690 V, 50/60 Hz AC Icu-55 KA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSIN protection adjustable 0.4-1 in with cubicle bus Opt Y Further details	1 Piece	on request	> all documents for position		1
+ 2	3VA2450-6KP32-0AA0 / 3VA molded case circuit breaker circuit breaker 3VA2 IEC frame 630 breaking capacity class H Icu-85kA @ 415V 3-pole, line protection ETUBS0, ISI, incoSA0 overload protection In-200A500A short-circuit protection Isd-0.610k In V Further details	1 Piece	on request	> all documents for position		1

Recall of completed configurations for modification or additional configuration

List	of	products

-	Proje	ctdata					එ Load product list
Actio	ons 🛩						
		No.	Article	Quantity	Unit price:	Documents	
		1	3WL1106-2E862-1AA2 / Fixed-mounted circuit breaker 3-pole, Size 1, IEC In-630 A to 690 V, 50/60 Hz AC Icu-55 kA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSIN protection adjustable 0.4-1 in with cubicle bus Opt Y Further details	1 Piece	on request	all documents for position	··· T Duplicate Configure
	+	2	ETU850, LSI, In=500A overload protection Ir=200A500A short-circuit protection Isd=0.610x In,	1 Fiece	on request	> all documents for position	*
			✓ Further details				

Responsive Design

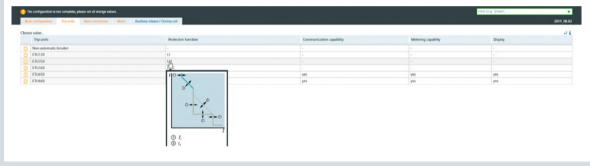


www.siemens.com/lowvoltage/3wl10-configurator

Download an ePlan Selector for 3WL10

The configuration is complete. It	a can order ans product.						ritter (e.g	. "power",	۲
Basic configuration Trip units	Main connection	Motor	Auxiliary release / Closing coil	Result	CAD/CAE				2019_08.0
			Preview				Download -	quick links	
3WL1010-2CE41-0AA0				View W		3D view Unit Wiring Diagram IE	SWLTUTU)-2CE41-0AA0	
			Documentation and reporting			>	< n ci	ick2CAD	
			Choose languages for the data sh	eet deu	itsch 🔻		Download -	all CAD formats	
			Project data for the datasheet				View	Area Model View	
			Download selection of document	types			View option	Isometric	
			□ ↓ PDF Datasheets (PDF)				File type	Joint Photography Experts Group (*.jpg)	
			Selection of download format				Start gene	eration	
			O All in a ZIP file						
						Start generation		all documents	
			Component documentation				オ open docu	uments dialog	
			3WL1010-2CE41-0AA0						
VL1010-2CE41-0AA0		Log Por Datasheet (PDF) Log Por Datasheet (PDF) Log Por Datasheet (PDF)							
			200						
			© Siemens AG Application inform	nation					

Mouseover display of characteristic curves to show the protection function



Direct entry of an already known MLFB or parts of an MLFB

roduct Information Config	jurators	
lect a Configurator 3WL10 A	Air Circuit-Breakers, FS0 V	
/L10 Air Circuit-Breakers, FS	D	
	Selection - Tool for air circuit breakers (ACB) SENTRON 3W A for selective line protection - for motor protection - non-automatic circuit breaker Using this configurator, you can precisely select the optimum configuration for your application. Comprehensive CAx-data provided after successful configuration.	n circuit breaker

Structure of the article numbers

Basic configuration

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

			_									
		3WL10	67	8	9	10	11	1	2	2 13	2 13 14	2 13 14 15
		SVLIU	-	-						_	-	-
Basic unit a	nd ETU											
Max. rated current	630 A		06									
I _n	800 A		0 8									
	1000 A		1 0									
	1250 A		1 2									
Short-circuit	B Basic (42 kA)			1								
breaking capacity	N ECO (55 kA)			2								
I _{cu} at 415 V	S Standard (66	kA)		3								
Non-automatic air	Without metering	Without trip unit			А	Α				-		
circuit breakers	function, without a communication link											
Circuit breakers, ETU 3-series	Without metering	With trip unit	ETU320 LI	(N) ¹⁾	Α	В						
ETU 3-series	function, without a communication link		ETU350 LSI	(N) ¹⁾	A	С						
	communication mix		ETU360 LSIG	(N) ¹⁾	А	D						
Circuit breakers,		With trip unit	ETU650 (LSI)			Е						
ETU 6-series			ETU660 (LSIG)			F						
	Without a communication link	Without metering f	unction		А							-
	With a	Without metering f	unction		В							
	communication link	Metering function		bottom	C							
		Basic	Voltage tap on		D							
		Metering function	Voltage tap on	bottom	E							
		Advanced	Voltage tap on	top	F							
¹⁾ Neutral conductor pro	tection for 3-pole breakers	with an external neutral	conductor transfor	mer or 4-po	le breake	ers						
Number of poles	Fixed-mounted	3-pole					0					
	versions	4-pole	Neutral left				1					
			Neutral right				2					
	Withdrawable	3-pole					3					
		4-pole	Neutral left				4					
			Neutral right				5					
Connection	2)											
Installation type	Withdrawable	Without frame						_	0			
		Rear vertical conne							1			
		Rear horizontal cor		tion (mari	\				2			
		Adapter for compre Front-accessible, ex				onnec	tion		5			
	Fixed-mounted	Rear vertical conne		ior main (Juniec			1			
	versions	Rear horizontal cor						_	2			
		Front terminal for r		ection					3			
		Circular conductor							4			
		Front-accessible, ex			circuit o	onnec	tion		5			

²⁾ Broadened connections available as accessories.

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1

		3WL10	7 8 9 10 - 10	11	12	13	14	15	1
Motor									
Operating	Manual operating mecha	nism				0			
mechanisms	Spring charging motor	24 30 V AC/DC				1			
	-p	48 60 V AC/DC							
		110 V AC/DC				2 3 4			
		230 V AC/DC				4			
Auxiliary re	eleases, closing	coils							
Closing coil (CC),	Without closing coil (CC),	without remote reset ma	agnet (RR)				А		
remote reset	Closing coils (CC)		24 V AC/DC				В		
magnet (RR)			30 V AC/DC				С		
			48 V AC/DC				D		
			60 V AC/DC				E		
			110 120 V AC/DC				F		
			120 127 V AC/DC				G		
			220 240 V AC/DC				н		
			240 250 V AC/DC				J		
	Closing coil (CC) and additionally a remote reset magnet (RR)		24 V AC/DC				K L		
			110 V AC/DC 220 V AC/DC				M		
			220 V ACIDC			_			
2nd auxiliary	Without 2nd auxiliary rele							A B	
release	With undervoltage releas	e (UVR)	24 V AC/DC					B	
			30 V AC/DC					C D	
			48 V AC/DC						
			60 V AC/DC 110 120 V AC/DC					E F G	
			120 127 V AC/DC					G	
			220 240 V AC/DC					н	
			240 250 V AC/DC					H	
			380 400 V AC/DC					K	
			415 440 V AC/DC					L	
	With undervoltage releas	e (UVR),	24 30 V AC/DC					М	
	delayable with external ti	me-delay device;	110 127 V AC/DC					Ν	
	Scope of supply: UVR + ti	me-delay device	220 250 V AC/DC					Р	
	With 2nd shunt trip (ST2)		24 V AC/DC					Q R	
			30 V AC/DC					R	
			48 V AC/DC					S	
			60 V AC/DC					Т	
			110 120 V AC/DC					U	
			120 127 V AC/DC					V	
			220 240 V AC/DC					V W X	
			240 250 V AC/DC					X	
1st auxiliary releas	Without 1st auxiliary rele	ase							
	Shunt trip (ST)		24 V AC/DC						
			30 V AC/DC						
			48 V AC/DC						
			60 V AC/DC						_
			110 120 V AC/DC						_
			120 127 V AC/DC						
			220 240 V AC/DC						_
			240 250 V AC/DC						

Accessory options

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

appropriate order code(s).	3WLZ
Mounting options f In the basic configuration,	basic configuration for fixed mounting the fixed-mounted circuit breaker is mounted onto the rear ed if it is to be extended with functionalities such as externa	
Mounting options for fixed mounting ¹⁾	Floor mounting	Mounting support standard Mounting support extended ²⁾
	Rear panel mounting onto mounting plate	Side wall extended ²⁾
Accessories for	electronic trip units ETU	

Rating plugs

- The electronic trip units are equipped as standard with a rating plug for setting the rated current In which is equal to the maximum rated
- circuit breaker current (<I_{n max}). The rated current of the selected rating plug must be less than or equal to I_{n max}.
 To downrate the circuit breaker, the rated current of less than I_{n max} is selected for the rating plug by means of a Z option.
 Other functions can also be activated using rating plugs (L = OFF or Rc protection).

Rating plug	For setting the rated current I _n	For setting the rated current I _n			В	0	4
				630 A	В	0	6
				800 A	В	0	8
			1000 A	В	1	0	
	For setting the rated current I_n ,		For ETU 6-series	400 A	L	0	4
	with overload protection $L = OFF$			630 A	L	0	6
				800 A	L	0	8
				1000 A	L	1	0
				1250 A	L	1	2
	For setting the rated current ${\boldsymbol{I}}_{{n}},$		For ETU660 only	400 A	G	0	4
		For enabling of the residual current protection function.		630 A	G	0	6
	The residual current function is only possible with the MF Advanced metering function.			800 A	G	0	8
	, araneea metering ranetom			1250 A	G	1	2
	It communication modules can be usigital I/O module (Z option K56), only	one communication module ca	an be used.		F		
Communication modules	COM040 COM041	PROFIBUS PROFINET				0 0	2 3
		Modbus TCP			- F	0	3
	COM043 COM042	Modbus RTU			- F		1 2
	COM042	MODUS RIU				1	2
electronic components is a	odules n a communications interface is orde Iso supplied ready installed. the Breaker Connect module for 24 V						
Breaker Connect modules	110 240 V AC/DC				F	2	6
I/O modules interna	ıl						
I/O modules internal	Digital I/O module IOM040	2 inputs, 2 outputs			К	5	6

¹⁾ These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall.

²⁾ Not possible in connection with or as an alternative to the mounting support, standard (A07)

Order code

S 5 6 5 7

To specify the options, appropriate order code	add "-Z" to the complete Article N (s).	lo. and indicate the 3WL -	_	der c	ode
Accessories for	the motor				
Mechanical operating cycl	es counter, 5-digit		C	0	1
Auxiliary switch	nes and signaling swit	ches			
 For currents <100 mA for The auxiliary/signaling sv minimum load above 	witches for currents >100 mA and up to 4 r PLC connections, these auxiliary and sig vitches for 24 V DC digital signals are des 1 mA at 5 V DC and a pacity of 100 mA at 24 V DC.	maling switches can be replaced.			
Position signaling switche	s for guide frames 1)	2 CO 2 CO 2 CO (connected test disconnected position)	к	5	5
Signaling switches	Ready-to-close signaling switches	1 CO digital, 24 V DC	к	5	0
	Tripped signaling switches (S24)	1 CO digital, 24 V DC	К	5	3
	Spring charged signaling switches (S21) 1 CO digital, 24 V DC	К	5	4
Auxiliary switches	ON / OFF AUX	4 CO digital, 24 V DC	к	5	1
· · · · · · · · · · · · · · · · · · ·		2 CO 400 V AC + 2 CO digital, 24 V DC	К	5	2
Locking, blocki	ng and interlocking				
Locking devices 1)	To prevent movement of	Cylinder lock Made by Ronis	R	7	8
	withdrawable circuit breaker	For no more than 3 padlocks, 8 mm	R	6	5
Locking mechanisms	To prevent movement to disconnec	ted position	R	7	9
Locking devices	To prevent unauthorized activation	Cylinder lock, made by Ronis	s	0	8
Locking devices	in the operator panel (safe OFF)	For no more than 3 padlocks, plastic 4 mm	S	2	2
		For no more than 1 padlock, metal 7 mm	S	2	3
		For no more than 2 padlocks, metal 8 mm	S	0	7
Interlocking sets	For mechanical ON and/or OFF on	For no more than 3 padlocks, plastic 4 mm	s	4	2
5	the operator panel	For no more than 1 padlock, metal 7 mm	S	4	3
		For no more than 2 padlocks, metal 8 mm	S	4	4
Protective covers	For mechanical ON/OFF, not lockabl	le	s	4	1
Door sealing frame IP30	IP3x			2	0_
bool sealing name IF50	11 5A				

¹⁾ Can be used not only when guide frame is ordered separately, but also with complete order (breaker + guide frame).

Guide frames

Guide frames for ordering separately without circuit breakers Guide frames without breakers up to 1250 A



 Note: All CB bus modules COMPSS signaling switche there by means of Z option included in the frame and 		
Number of poles	Connection type	Article No.
3-pole	Rear vertical	3VW8112-0AA01
	Rear horizontal	3VW8112-0AB01
	4× 240 mm ² Cu/Al cable connection, for compression lugs	3VW8112-0AD01
	Front connection bars, extended	3VW8112-0AE01
4-pole	Rear vertical	3VW8112-0BA01
	Rear horizontal	3VW8112-0BB01
	4× 240 mm ² Cu/Al cable connection, for compression lugs	3VW8112-0BD01
	Front connection bars, extended	3VW8112-0BE01

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).					ode
Locking, blocking ar	nd interlocking				
Locking devices				7	8
	withdrawable circuit breaker	For no more than 3 padlocks, 8 mm	R	6	5
Locking mechanisms	To prevent movement to disco	nnected position (only in combination with R78 or R65)	R	7	9
Auxiliary/signaling s	witches				
Position signaling switch PSS for guide frame	For 24 V DC digital signals, for minimum currents	2 CO 2 CO 2 CO (connected test disconnected position)	К	5	5

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard.

For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified. The auxiliary/signaling switches for 24 V DC digital signals are designed for • a minimal load from 1 mA at 5 V DC and

• a maximum breaking capacity of 100 mA at 24 V DC.

Electronic trip units ETU and accessories

Electronic trip unit	ts (ETU)				
	Version	With communications / metering function / enhanced protection functions	Туре	Protective function	Article No.
The second se	With rotary coding switches	No	ETU320	LIN	3VW9011-5AA00
С . ш			ETU350	LSIN	3VW9012-5AA00
			ETU360	LSING	3VW9012-7AA00
Print 1	With display	Yes	ETU650	LSIN	3VW9017-5AA00
			ETU660	LSING	3VW9017-7AA00
Metering function	s for ETU650 or ETU660				
March 1001	Description	Protective function / version	Arrangemen	t	Article No.
M BLOC	Metering function	MF Basic	-		3VW9011-0AT01
5		MF Advanced	-		3VW9011-0AT04
	Set of cables for voltage tap	For 4-pole circuit breakers with neutral right	Top or botton	ı	3VW9011-0AT08
-	for MF	For 4-pole circuit breakers with neutral left	Тор		3VW9011-0AT75
O according to the second			Bottom		3VW9011-0AT76
A DECEMBER OF		For 3-pole circuit breakers	Тор		3VW9011-0AT72
			Bottom		3VW9011-0AT73
External current tr	ansformers for N conductor				
511-	Accessory for	Purpose			Article No.
•	ETU320, ETU350, ETU360, ETU650, ETU660	For 3-pole circuit breakers only			3VW9011-0AA30
External current tr	ansformers for grounded tra	ansformer star point			
	Accessory for	G _{ret} (ground return)			Article No.
	ETU660	100 A			3VW9011-0GF30
		250 A			3VW9011-0GF31
Summation curren	nt transformers external Rc-0	T for residual current measurement			
	Only with MF Advanced m	etering function and Rc rating plug			
	Accessory for	Purpose			Article No.
	ETU660	For external residual current measurement			3VW9011-0RC30
Remote reset mag	nets RR for the circuit break	ers including tripped signal			
194		for resetting the circuit breaker after tripping as a	result of overcu	rrent conditions	
	Accessory for	Voltage			Article No.
	ETU320, ETU350, ETU360,	24 V DC			3VW9011-0AK03
	ETU650, ETU660	110 V AC/DC			3VW9011-0AK05
4		250 V AC/DC			3VW9011-0AK06
Replacement batte	eries for electronic trip units	ETU			
	Accessory for				Article No.
	ETU320, ETU350, ETU360, ET	U650, ETU660			3VW9011-0AT38

Electronic trip units ETU and accessories

	odule / rating plug Only one module is possib 	le per circuit breaker			
-100	Only one module is possib Accessory for	Version	Rated curren	+1	Article No.
'n =400A	ETU320, ETU350, ETU360,	Rating plugs for setting ($< I_{n max}$)	400 A	c 'n	3VW9011-0AA53
	ETU650, ETU660	the rated current I_n	630 A		3VW9011-0AA55
			800 A		3VW9011-0AA56
			1000 A		3VW9011-0AA57
			1250 A		3VW9011-0AA58
	ETU 6-series	Rating plugs without overload protection	400 A		3VW9011-0LF53
	LTO 0-series	$(L = OFF)$ and for setting $(< I_{n max})$			3VW9011-0LF55
		the rated current In	630 A 800 A		3VW9011-0LF56
			1000 A		
					3VW9011-0LF57
			1250 A		3VW9011-0LF58
	ETU660	Rating plug Rc for ETU660, for enabling the residual current protection	400 A		3VW9011-0RC53
		function and setting (< 1) of the rated	630 A		3VW9011-0RC55
		current I _n . The residual current function is	800 A		3VW9011-0RC56
		only possible with the MF Advanced metering function.	1250 A		3VW9011-0RC58
B bus modules -	- communication modules				
		Js of the 6-series and a Breaker Connect module fo d directly on the device by means of a Z option if t			
	Communication modules	Protocol			Article No.
	COM040	PROFIBUS			3VW9011-0AT15
	COM041	PROFINET			3VW9011-0AT14
	COM043	Modbus TCP			3VW9011-0AT16
	COM042	Modbus RTU			3VW9011-0AT17
B bus modules -	 I/O modules external IOM30 	0			
	 For snapping onto standar 	rd mounting rail			
it in	Accessory for	Maximum switching current per contact	Inputs	Outputs	Article No.
	ETU 6-series	 2 A at DC ≤30 V 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	11	10	3VW9011-0AT20
CB bus modules 1	· I/O modules internal IOM040)			
7.8	• When using a digital I/O m	odule IOM040, only one communication module o	can be used.		
	Accessory for	Maximum switching current per contact	Inputs	Outputs	Article No.
A REAL PROPERTY AND A REAL PROPERTY A	ETU 6-series	 2 A at DC ≤30 V 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	2	2	3VW9011-0AT30
Actuator module	COM ACT				
-	 For switching the circuit b Actuation of the closing comparison 	reaker on/off remotely via communication oil (CC) and the 1st shunt trip (ST) ination with a communication module, spring char	rging motor, clos	sing coil and	
	1st shunt trip.Automatically included if t configuration.	he communications interface of the ETU 6-series in	s selected in the	basic circuit breaker	
	 Automatically included if t 	he communications interface of the ETU 6-series is	s selected in the	basic circuit breaker	Article No.

Breaker Connect	: modules		
1	 For the external power supply for the electronics components 		
	Voltage		Article No.
23333	110 240 V AC/DC		3VW9011-0AT06
	24 48 V DC		3VW9011-0AT07
Auxiliary contac	t signaling switch for communications interface		
	Auxiliary contacts for signaling the readiness to close or for position signalin	g switches of the	
1	withdrawable positions.		
ז	 Can only be used in combination with communication module. Can be combined with standard position signaling switches or ready-to-close 	signaling contacts	
	 Note: Both signaling switches are automatically included in the basic circuit 		
4	interface of the ETU 6-series is selected (COM PSS only with withdrawable ve		
	Function		Article No.
J.	Ready-to-close signaling switch for communication COM RTC		3VW9011-0AT11
	Position signaling switch COM PSS (for withdrawable breakers only)		3VW9011-0AT12
est devices and	l Breaker Data Adapters		
-	Can be used for all ETU 3-series and 6-series		
1	Function	Туре	Article No.
<(e	Test device	TD310	3VW9011-0AT32
	For the trip test via ETU and tripping solenoid including release The TTU and the tripping solenoid human factors for bottom built		
	 The ETU and the tripping solenoids are activated by means of a battery built into the test device. 		
	• On activation in the ETU 6-series, the parameters can be configured on the		
	display		
	Breaker Data Adapter	TD410	3VW9011-0AT34
	As gateway for parameterization of the ETU with powerconfig		
	For generation of a report of the set parameters with powerservice Text during and Proclem Data Advectors	TD 420	21/14/0011 04722
	Test devices and Breaker Data Adapters As gateway for parameterization of the ETU with powerconfig 	TD420	3VW9011-0AT33
	 Testing a tripping operation using powerconfig 		
	For use with the powerservice software		
	 Testing of the basic protection functions LSING 		
	 Testing of the enhanced protection functions Test data storage 		
	 Readout of ETU buffer 		
	 Generation of a report of the set parameters 		

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Accessories and spare parts

Accessories for connection

Front terminals fo	or main circuit con	nections acc. to IEC 60947-2			
	To be ordered a	separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
	Fixed-mounted	Front terminals for main circuit connection		3-pole / 3 units	3VW9011-0AL01
00 00				4-pole / 4 units	3VW9011-0AL02
		Extended main terminals, including insulating plate and phase barriers, standard	Front terminals for main circuit connection	3-pole / 3 units 4-pole / 4 units	3VW9011-0AL77 3VW9011-0AL78
*** ***		Broadened main terminals, including insulating plate and	Front terminals for main circuit connection, top	3-pole / 3 units	3VW9011-0AL73
		extended phase barriers	Front terminals for main circuit connection, bottom	3-pole / 3 units	3VW9011-0AL75
			Front terminals for main circuit connection, top, bottom	4-pole / 4 units	3VW9011-0AL74
2 2 2	Withdrawable	Front-accessible terminals for main circuit	Flange of the guide frame	3-pole / 3 units	3VW9011-0AN01
		connection		4-pole / 4 units	3VW9011-0AN02
***		Broadened main circuit connections	Front-accessible terminals for main circuit connection	3-pole / 3 units 4-pole / 4 units	3VW9011-0AN73 3VW9011-0AN74
Rear terminals for	r main circuit conn	ections acc. to IEC 60947-2			
		separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
220	Fixed-mounted	Rear terminals for main circuit		3-pole / 3 units	3VW9011-0AL32
		connection; rotatable for horizontal / vertical connection, including terminal cover		4-pole / 4 units	3VW9011-0AL33
944	Withdrawable	Rear terminals for main circuit		3-pole / 3 units	3VW9011-0AN32
		connection; rotatable for horizontal / vertical connection, including terminal cover		4-pole / 4 units	3VW9011-0AN33
स्त्र हि स्त्र		Broadened main circuit connections	Rear horizontal main	3-pole / 3 units	3VW9011-0AN75
~~ 23 25년			connections	4-pole / 4 units	3VW9011-0AN76
u-/Al cable conne	ections				
	To be ordered a	separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
00 00 00	Fixed-mounted	Circular conductor terminals 4 × 240 mm ² for front cable connection, including insulating plate and high, extended	Front terminals for main circuit connection	3-pole / 3 units 4-pole / 4 units	3VW9011-0AL71 3VW9011-0AL72
	Mithalan I.I.	terminal cover	Descussion in the	2	21440011 04174
Roman Roman	Withdrawable	Set of circular conductor connection pieces 4 × 240 mm ² for compression lugs, rear cable connection	Rear vertical main connections	3-pole / 3 units 4-pole / 4 units	3VW9011-0AN71 3VW9011-0AN72
Auxiliary supply c	onnectors in push	in version			
Carl Carl	Auxiliary condu	ictor terminal in push-in version for upgrading ways fitted at the factory with the exact numl			
A	Version				Article No.
•	Push-in				3VW9011-0AB11

1

erminal covers fo	or fixed circuit bre	eakers	
	 Necessary isol 	or front main circuit connection for fixed-mounting ation measures are always supplied with the corresponding connection technology and do not dered separately.	
	Version	Number of poles / quantity	Article No.
hand hand have	Standard	3-pole / 2 units	3VW9723-0WD30
		4-pole / 2 units	3VW9724-0WD40
had 1	Extended	3-pole / 2 units	3VW9723-0WF30
		4-pole / 2 units	3VW9724-0WF40
ase barriers for	fixed breakers		
	do not need to	ation measures are always supplied with the corresponding connection technology and o be ordered separately. voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.	
	Height	Number of poles / quantity	Article No.
	100 mm	3-pole / 4 units	3VW9723-0WA00
	(Standard)	4-pole / 6 units	3VW9724-0WA1
	200 mm	3-pole / 4 units	3VW9723-0WA0
	(extended)	4-pole / 6 units	3VW9724-0WA1
pport for moun	ting the fixed-mo	unted breaker on the floor	
	For fixed-mou	nted versions	
	Version	Purpose	Article No.
	Mounting suppor (circuit breaker fo (= Z option A07)	eet)	3VW9011-0BB51
I	Mounting suppor (circuit breaker fr including mecha transmission of s position on circu side panel (= Z o	eet), Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) nical Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) witch (for 3VW9011-0BB16) it breaker Mutual mechanical interlockings for 3WL/3VA (for 3VW9011-0BB21)	3VW9011-0BB52
tension kit for r	nodification of th	e side wall of the fixed-mounted breaker	
6		nted versions g on mounting plate on for mechanical transmission of switch position on circuit breaker side panel (= Z option S57)	
	Version	Purpose	Article No.
1	Extension kit for	 Fixation for external auxiliary switches AUX 15 W (3VW9011-0AG15) Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) Mutual mechanical interlockings for 3WL/3VA (for 3VW9011-0BB21) 	3VW9011-0BB53

Motor

Spring charging motor	(MO)		
	Description	Voltage	Article No.
	For automatic charging of	24 30 V AC/DC	3VW9011-0AF01
- Real States	the stored-energy operating	48 60 V AC/DC	3VW9011-0AF02
	mechanism	100 130 V AC/DC	3VW9011-0AF03
		220 250 V AC/DC	3VW9011-0AF04

Mechanica



al operating c	ycles counters		
	Description	Version	Article No.
k	In combination with a spring charging motor	5 digits	3VW9011-0AH07

Auxiliary releases, closing coils

Closing coils CC / shur	t trips ST	
	Voltage	Article No.
	24 V AC/DC	3VW9011-0AD01
	30 V AC/DC	3VW9011-0AD02
	48 V AC/DC	3VW9011-0AD03
1 AV	60 V AC/DC	3VW9011-0AD04
	110 120 V AC/DC	3VW9011-0AD05
	120 127 V AC/DC	3VW9011-0AD06
	220 240 V AC/DC	3VW9011-0AD07
	240 250 V AC/DC	3VW9011-0AD08
	380 400 V AC	3VW9011-0AD17
	415 440 V AC	3VW9011-0AD18
TD320 function test u	nit for closing coil / shunt trip	
	 The TD320 test unit allows the operational availability and functions of the closing coils and shunt trips with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested. The operational availability test is performed cyclically at intervals of 30 seconds. The unit has visual indicators in the form of LEDs on the front in order to display the following states: LED POWER ON LIT: Correct function of the YO/YC test unit LED DEACTIVATION LIT: Power supply failure, wire break LED SHORT-CIRCUIT LIT: Winding short-circuit LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt trip OK 	
	Version	Article No.
	For all closing coils / shunt trips	3VW9011-0AT31

Auxiliary releases, closing coils

uxiliary/signalii	 The auxiliary/signaling switches for 24 V DC of minimum load above 1 mA at 5 V DC and maximum breaking capacity of 100 mA at 	a t 24 V DC. 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition,	
•	Туре	Contacts	Article No.
- d	Ready-to-close signal RTC	1 CO standard	3VW9011-0AH01
		1 CO digital	3VW9011-0AH02
	Auxiliary switch ON/OFF AUX	4 CO standard	3VW9011-0AG01
		4 CO digital	3VW9011-0AG02
		2 CO standard + 2 CO digital	3VW9011-0AG03
	External auxiliary switch ON/OFF AUX	15 CO standard	3VW9011-0AG05
		15 CO digital	3VW9011-0AG06
	Tripped signaling switch S24	1 CO standard	3VW9011-0AH14
		1 CO digital	3VW9011-0AH15
	Spring charged signaling switch S21	1 CO standard	3VW9011-0AH10
		1 CO digital	3VW9011-0AH08
	Position signaling switch PSS (for withdrawable devices)	2 CO 2 CO 2 CO (connected test disconnected position) standard	3VW9011-0AH11
		2 CO 2 CO 2 CO (connected test disconnected position) digital	3VW9011-0AH12
xing for extern	nal auxiliary switches AUX 15 CO		
b.	 External auxiliary switches ON/OFF AUX 15 C 	CO must be ordered separately.	
1	Version		Article No.
	For fixed-mounted circuit breakers with rear particular (in combination with Z option S56 or S57)	nel or floor mounting	3VW9011-0AG15
17	For guide frames		3VW9011-0AG17
ndervoltage re	leases UVR		
	Voltage		Article No.
	24 V AC/DC		3VW9011-0AE01
	30 V AC/DC		3VW9011-0AE02
	48 V AC/DC		3VW9011-0AE03
a k	60 V AC/DC		3VW9011-0AE04
	110 120 V AC/DC		3VW9011-0AE05
	120 127 V AC/DC		3VW9011-0AE06
	220 240 V AC/DC		3VW9011-0AE07
	240 250 V AC/DC		3VW9011-0AE08
	380 400 V AC		3VW9011-0AE17
	415 440 V AC		3VW9011-0AE18
ternal <u>time-de</u>	elay device for undervoltage release		
	 With adjustable delay time from 0.5 to 3 s. Suitable for mounting onto DIN rail. 		
THUM .	Voltage		Article No.
	24 30 V AC/DC		3VW9011-0AE10
	48 V AC/DC		3VW9011-0AE11
			2
			3V/W9011-04F15
	60 V AC/DC 110 127 V AC/DC		3VW9011-0AE15 3VW9011-0AE12

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Interlocking			
Locking devices to	prevent movement of the withdrawable	circuit breakers	
	Version		Article No.
	Ronis cylinder lock (replacement for R7	8)	3VW9011-0BA80
	Padlock 8 mm (replacement for R65), fo	or no more than 3 padlocks	3VW9011-0BA87
Locking mechanis	ms to prevent movement of the withdrav	vable circuit breakers in disconnected position	
	 Only possible as a supplement in con 	junction with R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA87).	
	Description		Article No.
3	Locking mechanism (replacement for R	79)	3VW9011-0BA84
Locking devices in	OFF position		
	For fixed-mounted versions and witheTo prevent unauthorized activation in	the operator panel (safe OFF)	
	 The disconnector unit fulfills the cond 	itions for a supply disconnecting (isolating) device acc. to EN 60204-1.	
	Description		Artikel-Nr.
\$	Cylinder lock, made by Ronis (replacem	ent for S08)	3VW9011-0BA33
Locking devices in	OFF position		
	 For fixed-mounted versions and with To prevent unauthorized activation i The disconnector unit fulfills the cond 		
	Description	Version	
	Padlock 4 mm (replacement for S22)	Plastic for no more than 3 padlocks	3VW9011-0BA41
	Padlock 7 mm (replacement for S23)	Metal for no more than 1 padlock	3VW9011-0BA42
	Padlock 8 mm (replacement for S07)	Metal for no more than 2 padlocks	3VW9011-0BA44
adlockable prote	ctive cover ON/OFF on the operator pane	l i i i i i i i i i i i i i i i i i i i	
	Description	Version	Article No.
	Padlock 4 mm (replacement for S42)	Plastic for no more than 3 locks	3VW9011-0BA22
	Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock	3VW9011-0BA23
	Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks	3VW9011-0BA24
Protective cover fo	or mechanical ON/OFF		
		st unintentional actuation on the operator panel.	
	Description		Article No.
	Not lockable (replacement for S41)		3VW9011-0BA21
Autual mechanica			
- Fe	 Mutual mechanical interlocking for 3 	3WL / 3VA with Bowden cable 2 m	
	Fixing	Mounting	Article No.
1 to	Fixed-mounted	Rear panel or floor mounting	3VW9011-0BB21
	Withdrawable	Mounting onto guide frame	3VW9011-0BB22
Bowden cable, sej			
	One required for each circuit breaker	ſ	
	Variant		Article No.
	1000 mm		3VW9011-0BB23
	2000 mm		3WL9111-0BB45-0A

3WL9111-0BB46-0AA0

Interlocking

Locking mechanisms	s to prevent opening of the control cal	binet doors in ON pos	sition				
2	 To prevent opening of the cabinet door in ON position It additionally prevents the circuit breaker from being closed when the control cabinet door is open 						
1	Fixing		Version	Article No.			
	Fixed mounting onto side panel or floo	or	Direct fixed interlocking	3VW9011-0BB10			
00			Locking with Bowden cable	3VW9011-0BB16			
	Withdrawable		Direct fixed interlocking	3VW9011-0BB14			
			Locking with Bowden cable	3VW9011-0BB18			
Door sealing frame I	P30						
	Can be used up to IP3x degree of pr	Can be used up to IP3x degree of protection					
	Version	Befestigung	Version	Article No.			
	Replacement part for Z option T30.	Fixed-mounted	IP3x	3VW9011-0AP01			
		Withdrawable	IP3x	3VW9011-0AP02			
Protective cover IP54	1						
	 Protective cover / hood IP54 lockabl For implementing degrees of protection Cannot be combined with IP30 doo 	ction IP4x and IP54 whe	n installing in switchboard door.				
	Version	Version		Article No.			
	Lock with unique key	IP54		3VW9011-0AP03			
	Lock with standard key	IP54		3VW9011-0AP13			

System overview 3WL11-3WL13

IEC AC 630-6300 A, IEC DC ..

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

Basic units



Sizes 1 to 3

ETU	J				Access	ories			_
₩• ₩ ₩1. 			LSIN, LSING	LSIN, LSING	Communi- cation modules	Rating plugs	Remote reset magnets	Breaker status sensors (BSS)	Ground-fault modules
	Connectio	on			Acc	essories			_
Fixed-moun withdrawab		Main connect horizontal, fre			Auxiliar	y conductor plug	g-in system		
_		ing mec ry releas	hanisms es	and	A	ccessori	es		_
	0	-dis-				Ra			
Motorized o	perating mechar	nisms Au	xiliary releases		Clo	osing coils			
Nata									

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

A	uxiliary switch	es		Accessories	
Auxiliary switches	NSE0_00996a Position signaling switch	es Signaling switches	P	osition signaling switches	s
_	_		_	Further ad	ccessories
		Olis			
Door sealing frames	Shutters	EMERGENCY-OFF pushbuttons	Operating cycle counters	Support brackets	Grounding connections
				Interlo	cking
	S	NSE0_00987			
Interlocking sets	Key operation	Locking mechanisms			

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Online configurator highlights

www.siemens.com/lowvoltage/3wl-configurator

Ungroup into individual components:

Divides the finished complete article number into single article numbers

SIEMENS Ingenuity for life			✿ Additional actions O Support O Language ×
	on request Recommended retail price		
🤣 The configuration is complete. You can order	this product.		Eiter (a.g. 'power', 🔫
Basic Involver ETU Connection	Motor and auditory releases Auxiliary switches Access	oran Looking Innet CANCAN	
	more an ensuring receives retriend services which	and door	107
	and an animpresses runner second	this booking mean churche	
Ordering individual components • Yes O No	anna an suma frecency renewal sancing automati	uno unung reve unurur.	υ υ
Ordering individual components	anno an anna y coans Thankey an ons Thore		W.
Ordering individual components • Ves O No	Orser number	Properties	
Ordering individual components Wes _No Prot. Export as Excel Name			
Ordering individual components © Ires Ne Vers Ligot as Econ Name Easic broker Motorized operating mechanism	Order number	Properties	
Ordering individual components Wes O No Pret Export as Exer Name	Order number 1981,1216-1916(2-1AA2	Properties Oncer quartity: 1.57	

Automatic generation of the 3D model, 2D dimension drawing and the internal circuit diagram according to IEC



Direct entry of an already known article number or parts of an article number

Direct entry of an already known article number or parts of an article number
3WL Air Circuit Breakers
Product Information Configurators
Select a Configurator 3WL Upgrade Air Circuit Breakers 🔻
3WL Upgrade Air Circuit Breakers
Selection - Tool for air circuit breakers (ACB) SENTRON 3WL from 630 A to 1250 A for selective line protection on available of the protection on available on protection or and automatic circuit breaker Undiguration for your application. Comprehensive CAx-data support of the device is provided after successful configuration with a preallocation use the direct input e.g. 3WL1116- 3EB66-4FG4-2 K07+S07+C01+T40
Start MLFB direct input (complete): 3WL Start

Structure of the article numbers

Basic configuration for AC circuit breakers

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

		3WL1	6 7	-	9 10	11	12	13	14	15	
Basic unit a	and FTU										
Size	2										
	3	2									
	-	SZ 1 SZ 2 SZ 3 SZ 3									
Max. rated current	630 A		06								
I _n	800 A	■ ■ ⁶⁾ _	0 8								
	1000 A	■ ■ ⁶⁾ _	1 0								
	1250 A	■ ■ ⁶⁾ -	1 2								
	1600 A	• • -	1 6								
	2000 A	• • -	2 0								
	2500 A		2 5								
	3200 A		3 2								
	4000 A	- ■ ⁶⁾ ■	4 0								
	5000 A		50								
	6300 A		63								
Short-circuit	N ECO	■ 55 kA	١	2							
breaking capacity		- ■ - 66 kA	١	2							
_{cu} at 500 V	S Standard	■ 66 kA	١	3							
		– ■ – 85 kA		3							
	H High	■ 85 kA		4							
	C Very high	 - ■ ■ 100 k - ■ ■⁸⁾ 130 k 		<u>4</u> 5							
	C Very high	■ ⁹⁾ 150 k		5							
Trip units	Without trip unit			_	ΑΑ						
	With trip unit, without	ETU 15B 7)		LI	A A B B						
	ground-fault tripping	ETU 25B		LSI	СВ						
		ETU 45B (without o	1 21	LSIN	E B						
		ETU 45B (with disp	-	LSIN	F B						
	With trip unit, with	ETU 76B ETU 27B (without o		LSIN LSING	N B D G						
	ground-fault tripping	ETU 45B (without of		LSING	D G E G						
	5	ETU 45B (with disp		LSING	F G						
		ETU 76B		LSING	N G						
Number of poles	3-pole (3WL upgrade)					6					
	4-pole (3WL upgrade)					7					
Connection	า	SZ 1 SZ 2 SZ 3									
Installation type	Fixed-mounted	■ ■ ■ Verti	cal				1				
and the second spec		■ □ ²⁾ □ ³⁾ Horiz									
			t single hole				2 3				
			t double hole								
	Withdrawable		out guide fram	е			4 5 6				
		■ □ ²⁾ □ ³⁾ Horiz									
		■ ■ ■ Vertio					7				
		■ □ ¹⁾ □ ⁵⁾ Flang	jes				8				

 Applies in this case
 ¹⁾ Not available for rated current 4000 A
 Partially applies in
 ²⁾ Not available for rated current 4000 A this case

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³⁾ Not available for rated current 6300 A

6) Not available for breaking capacity C

9) Not available for 4-pole

		3WL1	5	6	7	8	-	9	10	11	12	13	14	15	16
Operating	mechanism	is and au	xiliary	/ rel	ease	es									
Stored energy mechanism	Manual recharging of the stored energy mechanismc	With mechanic With mechanic operation	al and ele	ectrical	2	10 V A 230 V A	C 50/6	50 Hz	/ 220 \	/ DC		1 2 3			
	Motorized operating mechanisms	With mechanic operation	al and ele	ectrical	1		27 V /				250 V DC 125 V DC				
1st auxiliary	Without												А		
release	With shunt trip	24 V DC											В		
	100% OP	30 V DC											С		
		48 V DC											D		
		60 V DC											Е		
		110 127 V A											F		
		208 240 V A	C 50/60 H	lz / 220) 250	V DC							G		
2nd auxiliary	Without													Α	
release	With shunt trip 10	0% OP			2	24 V DC								В	
					3	80 V DC								С	
					4	8 V DC								D	
					6	50 V DC								Е	
					1	10 1	27 V /	AC 50)/60 Hz	/ 110	125 V DC	2		F	
					2	208 2	40 V /	AC 50)/60 Hz	/ 220	250 V DC	-		G	
	With undervoltage	release, instanta	aneous		2	24 V DC								J	
						80 V DC	_							К	
						8 V DC								L	
						50 V DC								U	
											125 V DC			М	
											250 V DC	2		N	
	With under oltere		2 2 2			880 4		AC 50)/60 HZ					P	
	With undervoltage	release, delay u	.2 3.2 9			8 V DC				1110	125 V DC	-		Q R	
											250 V DC			S	
						.00 2 880 4					230 0 00	-		T	
Auxiliary s	witches						15 17		/00 TI2						
1st auxiliary switc	h block	2 NO + 2 NC													2
1st + 2nd auxiliary	switch block	4 NO + 4 NC													4
ist + Zilu duxillary	SWITCH DIOCK	4 NO + 4 NC 6 NO + 2 NC													- 4
		5 NO + 3 NC													8
		2110 - 2110													0

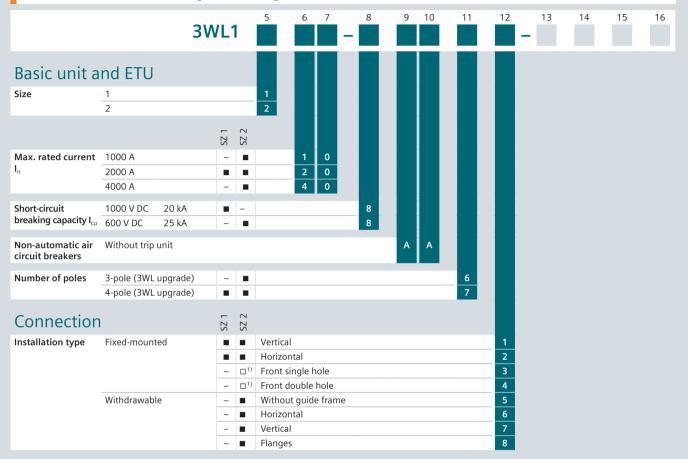
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System overview, page 1/38

Structure of the article numbers

Basic configuration for DC circuit breakers

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator



Applies in this case ¹⁾ Not available for rated current 4000 A
 Partially applies in this case

		3WL1	5 6	7 8	9 10	11	12	13	14	15	
Operating	mechanism	ns and au	xiliary rele	ases							
Stored energy	Manual	With mechani	cal operation					1	-		
mechanism	recharging of the		cal and electrical	110 V AC 5	0/60 Hz / 110	V DC		2			
	stored energy mechanism		g coil suitable for duty, 100% ED	230 V AC 5	60/60 Hz / 220	V DC		3			
	Motorized		cal and electrical	208 240	V AC 50/60 H	z / 220 2	250 V DC	4			
	recharging		g coil suitable for duty, 100% ED	110 127	V AC 50/60 H	z/110	125 V DC	5			
		uninterrupteu	duty, 100 % ED	24 V DC				6			
1st auxiliary	Without								А		
release	With shunt trip	24 V DC							В		
	100% OP	30 V DC							С		
		48 V DC							D		
		60 V DC							E		
			AC 50/60 Hz / 110 .						F		
		208 240 V /	AC 50/60 Hz / 220 .	250 V DC					G		
2nd auxiliary	Without									А	
release	With shunt trip 10	0% OP		24 V DC						В	
				30 V DC						С	
				48 V DC						D	
				60 V DC						E	
					V AC 50/60 H					F	
					V AC 50/60 H	z/220	250 V DC			G	
	With undervoltage short-delay (≤200		aneous (≤80 ms),	24 V DC						J	
	SHOLE-delay (≦200	1115)		30 V DC						K	
				48 V DC						_ L	
				60 V DC		-/110				U M	
					V AC 50/60 H					N	
					V AC 50/60 H		230 V DC			- N	
	With undervoltage	release delay (2 3 2 6	48 V DC	V AC 30/00 A	<u> </u>				Q	
	with anacrootage	release, acidy o			V AC 50/60 H	z/110	125 V DC			R	
					V AC 50/60 H					S T	

1st auxiliary switch block 2 NO + 2 NC 2 1st + 2nd auxiliary switch block 4 NO + 4 NC 4 6 NO + 2 NC 7 5 NO + 3 NC 8

1

Accessory options

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-, appropriate order code(s).	Z" to the complete Article No	and indicate the	3WLZ	Orc	der c	ode
Accessories for bas Rated voltage 1000 V A • Only for circuit breakers of size 1 • Cannot be combined with rated v	C and 690 V IT network	and of size 3 C class.				
Rated voltage	Size 1 ¹⁾	Up to 2000 A		А	0	5
	Size 2 ¹⁾²⁾	Up to 4000 A		А	0	5
	Size 3 ¹⁾	Up to 6300 A		А	0	5
Rated voltage 1150 V A • Only for circuit breakers with hig • Cannot be combined with rated with the combined with the	h breaking capacity H (8th digit of					
Rated voltage	Size 2 1) 2)	Up to 4000 A		А	1	5
	Size 3 1) 3)	Up to 6300 A		А	1	5
Rated voltage 690 V AC • Only for 3WL11 circuit breakers,		H (8th digit of the Article No. is a "4	").			
Rated voltage	Size 1	Up to 2000 A		Α	1	6

¹⁾ When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame. $^{\rm 2)}\,$ Not possible for circuit breakers with very high breaking capacity C.

³⁾ Front connections are tinned as standard.

1

To specify the options, add "-Z" to appropriate order code(s).	the complete Article No.	3WL		der o	ou
Accessories for electro Rating plugs • Only one module is possible per circuit • As standard, the electronic trip units an The rated current of the selected ration	t breaker (not in conjunction w re equipped with a rating plug	vith electronic trip unit ETU15B). which is equal to the maximum rated circuit breaker current (I _{n max}).			
Module	Sizes 1, 2	250 A	В	0	
noutic	51205 1, 2	315 A	B	0	┢
		400 A	B	0	╏
		500 A	B	0	
		630 A	B	0	ł
		800 A	В	0	ł
		1000 A	В	1	ľ
	Sizes 1, 2, 3	1250 A	B	1	┢
	51205 1, 2, 5	1600 A	B	1	╏
		2000 A	B	2	ł
	Sizes 2, 3	2500 A	B	2	┢
	51265 2, 5	3200 A	B	3	ł
		4000 A	B	4	ł
	<u> </u>			5	
	SIZE 3	5000 A	B		
	Size 3	5000 A 6300 A	B	6	Ł
		6300 A	B	6	
Breaker status sensor (BSS)	ing function For determining the stat	6300 A	B F F	6	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾	ing function For determining the stat Including COM15 and br	6300 A tuses ON / OFF / Tripped	F F F	6	
ProFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP	ing function For determining the stat Including COM15 and br Including COM16 and br	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS)	B F F	6 0 0	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ new	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS)	F F F	6 0 1	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ new Metering function Plus (cor	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS)	F F F	6 0 1	Ł
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ new Metering function Plus (cor	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br mmunication module With internal voltage tag	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included)	F F F	6 0 1 3	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ new Metering function Plus (cor	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br mmunication module With internal voltage tap With internal voltage tap	6300 A tuses ON / OFF / Tripped treaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included) to on the lower main conducting paths ²⁾	F F F	6 0 1 3 3	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ Trew Metering function Plus (cor Metering function Plus	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br Mmunication module With internal voltage tap For combination with ex or filters (e.g. in converter appl	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included) to on the lower main conducting paths ²⁾ to on the upper main conducting paths ²⁾ ternal voltage transformer	F F F F F	6 0 1 3 3 3	
Communication and meteri Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ ITEW Metering function Plus (cor Metering function Plus	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br mmunication module With internal voltage tap With internal voltage tap	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included) to on the lower main conducting paths ²⁾ to on the upper main conducting paths ²⁾	F F F F F	6 0 1 3 3 3	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ frew Metering function Plus (cor Metering function Plus EMC filter • Common-mode interference suppresse • Insertion loss (asymmetric) in the rang EMC filter	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br Including COM35 and br Muth internal voltage tap With internal voltage tap For combination with ex For combination with ex	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included) to on the lower main conducting paths ²⁾ to on the upper main conducting paths ²⁾ ternal voltage transformer lications)	F F F F F	6 0 1 3 3 3	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ new Metering function Plus (cor Metering function Plus EMC filter • Common-mode interference suppresses • Insertion loss (asymmetric) in the rang EMC filter Overload and short-circuit presses	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br Including COM35 and br mmunication module With internal voltage tap For combination with ex or filters (e.g. in converter applye 40 kHz to 10 MHz >40 dB. protection for neutre	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included) to on the lower main conducting paths ²⁾ to on the upper main conducting paths ²⁾ ternal voltage transformer lications)	F F F F F	6 0 1 3 3 3 3 3	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ Trew Metering function Plus (cor Metering function Plus EMC filter • Common-mode interference suppresso • Insertion loss (asymmetric) in the rang EMC filter • Overload and short-circuit p • Only possible with 4-pole circuit break nternal current transformer for	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br Including COM35 and br mmunication module With internal voltage tap For combination with ex or filters (e.g. in converter applye 40 kHz to 10 MHz >40 dB. protection for neutre	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included) to on the lower main conducting paths ²⁾ to on the upper main conducting paths ²⁾ ternal voltage transformer lications)	F F F F F F	6 0 1 3 3 3 3 3 3	
Breaker status sensor (BSS) PROFIBUS DP communication port ¹⁾ MODBUS RTU communication port ¹⁾ PROFINET IO / Modbus TCP communication port ¹⁾ new Metering function Plus (cor Metering function Plus EMC filter • Common-mode interference suppresses • Insertion loss (asymmetric) in the rang EMC filter Overload and short-circuit presses	ing function For determining the stat Including COM15 and br Including COM16 and br Including COM35 and br Including COM35 and br mmunication module With internal voltage tap With internal voltage tap For combination with ex or filters (e.g. in converter apply e 40 kHz to 10 MHz >40 dB. Protection for neutrate er with ETU27B to ETU76B	6300 A tuses ON / OFF / Tripped reaker status sensor (BSS) reaker status sensor (BSS) reaker status sensor (BSS) es not included) to on the lower main conducting paths ²⁾ to on the upper main conducting paths ²⁾ ternal voltage transformer lications)	F F F F F	6 0 1 3 3 3 3 3	

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Accessory options

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To specify the options, add "-Z" to the appropriate order code(s).	e complete Article No. and in	dicate the	3WLZ	Ord	der co	ode
Remote resetting						
Automatic reset of the reclosing lockout				к	0	1
• Remote reset for displays and reset button	s including automatic reset of the	reclosing lockout				
Remote reset magnets	24 V DC			к	1	0
	48 V DC			К	1	1
	110 127 V AC 50/60 Hz / 110	125 V DC		К	1	2
	208 240 V AC 50/60 Hz / 220 .	250 V DC		К	1	3
Connection						
Tinned version of the custome	er's connections on the	quide frame				
Only for circuit breakers in withdrawable vThe normal delivery time increases to 15 v	ersion with horizontal connection	-				
Customer's connections ^{1) 2)}	Size 1			А	0	8
	Size 2			Α	0	8
	Size 3			А	0	8
Connection technology for ma	ain connections (fixed r	-				
Top: ³⁾ horizontal Bottom: accessible from front,	Size 1	Up to 1600 A		N	1	1
single hole	Size 2	Up to 3200 A		Ν	1	1
-	Size 3 ⁴⁾	Up to 4000 A		Ν	1	1
Top: vertical Bottom: horizontal	Size 1	Up to 2000 A		Ν	2	0
Bottom: nonzontal	Size 2	Up to 3200 A		N	2	0
	Size 3	Up to 5000 A		Ν	2	0
Top: horizontal	Size 1	Up to 2000 A		Ν	2	4
Bottom: vertical	Size 2	Up to 3200 A		Ν	2	4
	Size 3	Up to 5000 A		Ν	2	4
Connection technology for ma	ain connections (withd					
Top and bottom: ^{5) 6)} accessible from front, single hole	Size 1	Up to 1600 A		Р	0	0
accessible from from, single fible	Size 2	Up to 3200 A		Р	0	0
	Size 3	Up to 4000 A		Р	0	0
Top and bottom: ⁵⁾ accessible from front, double hole	Size 1	Up to 1600 A		Р	0	1
accessible from from, double fible	Size 2	Up to 3200 A		P	0	1
	Size 3	Up to 4000 A		Р	0	1
Top: ^{5) 6)} horizontal Bottom: accessible from front,	Size 1	Up to 1600 A		Р	0	7
single hole	Size 2	Up to 3200 A		P	0	7
-	Size 3	Up to 4000 A		Ρ	0	7

1

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.
- ³⁾ Not for 3WL1 size 1 with high breaking capacity H and circuit breakers with very high breaking capacity C.
- ⁴⁾ Not for size 3 with very high breaking capacity C.
- ⁵⁾ Not for size 2 and 3 circuit breakers with very high breaking capacity C.
- 6) Not for 3WL1 size 1 with high breaking capacity H

8 8 8 9 8 Fixed-mounted Connection technology for 1 Withdrawable Ρ 6 Only possible if the 13th digit of 24 ... 30 V DC Motorized operating mechanisms the Article No. = "1" 0 М 48 ... 60 V DC М 0 5 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC М 0 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC Mechanical operating cycles counter, 5-digit²⁾ **Closing coils** Suitable for uninterrupted 24 V DC М duty, 100% OP 30 V DC 2 Only possible if the 13th digit 2 3 48 V DC of the Article No. = "1" М 2 4 60 V DC М 2 5 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC М 2 6 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC М 3 • Not suitable for uninterrupted 24 V DC duty, 5% OP, synchronizable 3) М 3 3 48 V DC Only possible if the 13th digit М 3 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC

of the Article No. = "1" 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC Opening coils (shunt trips)³⁾⁴⁾ Not suitable for uninterrupted 24 V DC duty, 5% OP, synchronizable 48 V DC 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC

¹⁾ Not for size 2 and 3 circuit breakers with very high breaking capacity C.

²⁾ Only possible with motorized operating mechanism. ³⁾ Overexcited, i.e. switching time 50 ms (standard >80 ms). ⁴⁾ Only possible if the 14th digit of the Article No. for the circuit breaker is "A", i.e. "without 1st auxiliary release".

М 3

м

М

М

3

5

Order code

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

Connection

Top: vertical	Size 1	Up to 2000 A		2
Bottom: horizontal	Size 2	Up to 3200 A	I	2
	Size 3	Up to 5000 A		•
Top: ¹⁾ connecting flange	Size 1	Up to 2000 A		
Bottom: horizontal	Size 2	Up to 3200 A		
	Size 3	Up to 4000 A	1	۶Ì
Top: horizontal	Size 1	Up to 2000 A		
Bottom: vertical	Size 2	Up to 3200 A		۰ I
	Size 3	Up to 5000 A	F	
Top: ¹⁾ horizontal	Size 1	Up to 2000 A		
Bottom: connecting flange	Size 2	Up to 3200 A		۰I
	Size 3	Up to 4000 A	I	

Connection technology for auxiliary conductors (for fixed-mounted and withdrawable versions)

screwless terminals (tension spring)

Operating mechanisms and auxiliary releases

Accessory options

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To specify the options, add "-Z" to the complete Article No. and indicate the Order code appropriate order code(s). Auxiliary switches and signaling switches Position signaling switches for 1 CO | 1 CO | 1 CO R 5 quide frames (connected | test | disconnected position) 3 CO | 2 CO | 1 CO 6 (connected | test | disconnected position) Signaling switches Ready-to-close signaling switches (S20) 1 NO contact 2 С 20 Spring charged signaling switch¹⁾ (S21) 1 NO contact с 26 For the first auxiliary release 1) (S22) 1 CO contact 2 7 For the second auxiliary release 1) (S23) 1 CO contact к 1st tripped signaling switch ^{1) 2)} (S24) 0 7 1 CO contact 2nd tripped signaling switch ^{1) 2) 3)} (S25) 1 NO contact к 0 6 **Further accessories** Pushbuttons / shutdown switches / closing lockouts **EMERGENCY-OFF** pushbuttons Mushroom pushbutton instead of the mechanical 4 OFF pushbutton Electrical ON button S10 in the Possible only for circuit breakers with closing coil With sealing cap operator panel¹ With CES lock Motor shutdown switch on control panel⁴⁾ (S12) 5 Special packaging for increased transport requirements (moisture protection) Cardboard packaging with water-repellent coating on corrugated cardboard (moisture protection) A Arc chute covers Not available for 1000 V version (order code "A05"), - DC version - 4000 A size 2 - 1150 V version (order code "A15") - 130 kA version, size 2 - 150 kA version, size 3 Arc chute covers 3-pole, 4-pole R 0 **Shutters** Shutter: 2-part, lockable, with padlocks¹⁾ 3-pole, 4-pole

- Not possible with "communications interface" option, order code "F02", "F12" or "F35".
- ²⁾ Not available for non-automatic air circuit breakers.
 ³⁾ Only possible with option "K07".
- ⁴⁾ Only for breakers with motorized operating mechanism, not possible with order codes "C11", "C12".

1

To specify the options, add "-Z" to the appropriate order code(s).	e complete Article No. and ind	icate the 3WLZ	Orc	der co	ode
Further accessories					
Measuring transformers (with • Used in converter applications with high h – External 24 V DC supply required – Undervoltage release required • Comprises: – 3 (3-pole) or 4 (4-pole) transformers – 24 V DC relay – Warning signs – Manual					
Transformer	3-pole, 4-pole	Size 2, size 3	К	6	0
Operating manual, printed ve	rsion				
French/Italian			Α	1	1
Spanish/Portuguese			Α	1	2
Mechanical interlocksInterlocking module with Bowden cable 2	m				
Mutual mechanical interlockings		For fixed-mounted breakers	S	5 5	5
		For withdrawable circuit breakers with guide frame	R	5	5
		For guide frames (ordered separately)	R	5	6
Locking devices (for fixed-mo • The disconnector unit fulfills the requirem		· · · · · · · · · · · · · · · · · · ·	R	5	7
Locking devices	To prevent unauthorized	Made by CES	S	0	1
	activation in the operator panel	Made by IKON	S	0	3 5
		Assembly kit FORTRESS or Castell 1)	S	0	5
		Assembly kit for padlocks 2)	S	0	7
		Made by Ronis	S	0	8
Locking devices (for fixed-mo	unted and withdrawable	Made by Profalux e versions)	S	0	9
Locking devices	For operating mechanism handle	with padlock ²⁾	s	3	3

¹⁾ Locks must be ordered from the manufacturer.

²⁾ Padlock not included in the scope of supply.

Accessory options

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To specify the options, add "-Z" to the appropriate order code(s).	complete Article No. and indi	icate the 3WLZ	Orc	ler c	ode
Interlocking					-
 Locking devices (for withdraw The disconnector unit fulfills the requirement active in the connected position, function i Not possible in combination with order context 	ents for main circuit breakers acc. to s retained when circuit breaker is re	EN 60204-1, consisting of a lock in the guide frame, placed.			
Locking devices	To prevent unauthorized activation in the operator panel	Made by CES Made by Ronis Made by Profalux	R R R	6 6 6	1 8 0
Locking devices (for withdraw • Safety lock for mounting onto the circuit b					
Locking devices	To prevent movement of	Made by CES	s	7	1
	withdrawable circuit breaker	Made by Profalux	S	7	5
		Made by Ronis	S	7	6
Locking mechanisms Not possible in combination with order code 	le "R81", "R85" or "R86".				-
For fixed-mounted circuit breakers	To prevent opening of the cabinet	door in ON position	S	3	0
For withdrawable circuit breakers	To prevent opening of the cabinet	door in connected position	R	3	0
	To prevent activation when the ca	binet door is open 1) 3)	R	4	0
	To prevent movement when the c	abinet door is open ²⁾	R	5	0
Locking mechanisms to preven disconnected position • Consisting of Bowden cable and lock in the • Not possible in combination with order cod	cabinet door				-
Made by CES			R R	8	1
Made by Profalux				8	5
Made by Ronis Seals			R	8	6
Door sealing frame for degree of protection	n IP41		т	4	0
Accessories from current	catalog				
 as complete circuit breaker with 3WL1 as 3WL92A or as 3WL92B or as 3WL92D or as 3WL92E or for sizes 1 to 3. 	or withdrawable circuit breakers 3WL 3 or 3WL14 or	1 for use in combination with older guide frames supplied			
Use of the circuit breaker in older guide fra	mes, including the appropriate gu	uide frame coding	Α	4	1

 $^{\scriptscriptstyle 1)}~$ Not available in combination with R50 $\,$

 $^{\scriptscriptstyle 2)}~$ Not available in combination with R40

³⁾ Combination with R81, R85 and R86 on request

Further technical specifications

Manual operating mechanism		3WL11 – 3WL13
Switching on/charging the stored-energy operating me	chanism	
Maximum force required to operate the hand lever		≤230 N
Required number of strokes on the hand lever		9
Closing coils		3WL11 – 3WL13
Primary operating range		
Primary operating range		0.85 1.1 × U,
Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 1.26 × U _s
Rated voltage		
Rated control supply voltage U _s	50/60 Hz AC DC	110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V
Operation		
Power consumption	AC/DC	15 VA/15 W
Min. command duration at U _s for the closing coil Short-circuit protection		60 ms
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; manual operating mechanism with mechanical and electri	cal closing	1 A TDz (slow)/1 A
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; motor and closing coil for the same rated control supply vi motorized operating mechanism with mechanical and elec	-	6 A TDz (slow)/2 A
Smallest permissible DIAZED fuse (operational class gL)/	At U _s = 24 30 V	6 A
automatic circuit breaker with C characteristic	At U _s = 48 60 V	6 A
(for different rated control supply voltages)	At U _s = 110 125 V DC/ 110 127 V AC	2 A
	At U _s = 220 250 V DC/ 208 240 V AC	2 A
Motor		3WL11 – 3WL13
Primary operating range		
Primary operating range		0.85 1.1 × U,
Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 1.26 × U _s
Operation		
Power consumption of motor	AC/DC	24/30 V DC, 110 W; 48/60 V DC, 120 W; 110 127 V AC/110 125 V DC, 150 W; 200 240 V AC/220 250 V DC, 130 W
Time required to charge the spring energy store at $1 \times U_s$		≤10 s
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; motor and closing coil for the same rated control supply ve	oltages	6 A TDz (slow)/2 A
Smallest permissible DIAZED fuse (operational class gL)/	At U _s = 24 30 V	6 A
automatic circuit breaker with C characteristic	At U _s = 48 60 V	6 A
(for different rated control supply voltages)	At U _s = 110 125 V DC/ 110 127 V AC	2 A
	At U _s = 220 250 V DC/ 208 240 V AC	2 A
Signals of the electronic trip unit		3WL11 – 3WL13
Signals of the electronic trip unit		
Measuring accuracy of the electronic trip unit		Protection functions acc. to EN 60947; current indication ≤10%; metering function for base quantities ≤1%; metering function for derived quantities ≤4%

Accessory options

Further technical specifications

Primary operating range Response values	Pickup	≥0.85 × U, (circuit b	roakor can bo cloco	d)
Asponse values	Dropout		cuit breaker is trippe	
Primary operating range	Diopout	0.85 1.1 × U _s	cuit breaker is trippe	20)
Extended operating range for battery operation	At 24 V DC, 30 V DC,	0.85 1.26 × U _s		
······································	48 V DC, 110 V DC, 220 V DC			
Rated voltage				
Rated control supply voltage U _s	Instantaneous 50/60 Hz AC	110 127 V, 208 .	240 V, 380 415	V
	Instantaneous DC) V, 110 125 V, 22	
	Delayed 50/60 Hz AC	110 127 V, 208 .		V
Du a un di a u	Delayed DC	48 V, 110 125 V,	220 250 V	
Operation Power consumption (pickup/uninterrupted duty)	AC	20/5 VA		
ower consumption (pickup/uninterrupted duty)	DC	20/5 W		
Opening time of the circuit breaker	be	20/3 W		
Dening time of the circuit breaker at $U_c = 0$		200 ms		
/ersion UVR (F3)	Instantaneous	73 ms		
	With delay	200 ms		
/ersion UVR-t _d (F8)	With delay, $t_d = 0.2$ to 3.2 s	0.2 3.2 s		
	Reset through additional NC contact – direct tripping	≤100 ms		
ihort-circuit protection				
Smallest permissible DIAZED fuse (operational class gL)/ niniature circuit breaker with C characteristic		1 A TDz (slow)/1 A		
hunt trip (ST) (F1, F2)		3WL11 – 3WL13		
Primary operating range			5% OD	With option option
Primary operating range			5% OP	With spring ener store consisting of shunt trip and capacitor storage device
Primary operating range /ersion	Pickup	For continuous command (100% OP), locks out on momentary- contact commands	>0.7 × U _s (circuit	store consisting of shunt trip and capacitor storage
Primary operating range /ersion Response values	Pickup	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit	>0.7 × U _s (circuit	store consisting of shunt trip and capacitor storag device –
Primary operating range Version Response values Primary operating range	Pickup At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped)	>0.7 × U _s (circuit breaker is tripped)	store consisting of shunt trip and capacitor storag device –
Primary operating range (ersion Response values Primary operating range Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s	store consisting of shunt trip and capacitor storag device
Primary operating range /ersion Response values Primary operating range Extended operating range for battery operation Rated voltage	At 24 V DC, 48 V DC 60 V DC, 110 V DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s	store consisting of shunt trip and capacitor storag device –
Primary operating range Version Response values Primary operating range Extended operating range for battery operation Rated voltage	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 48 V,	store consisting of shunt trip and capacitor storag device - 0.85 1.1 × U _s -
Primary operating range (ersion Response values Primary operating range extended operating range for battery operation Extended voltage Rated voltage Rated control supply voltage Us Deperation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 50/60 Hz AC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V,	 >0.7 × U_s (circuit breaker is tripped) 0.7 1.1 × U_s 0.7 1.26 × U_s 110 127 V, 208 240 V 24 V, 48 V, 110 125 V, 	store consisting of shunt trip and capacitor storag device - 0.85 1.1 × U _s - 110 V, 230 V
Arimary operating range (ersion Response values Arimary operating range Extended operating range for battery operation Reted voltage Rated voltage Rated control supply voltage U _s Operation Power consumption	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 50/60 Hz AC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 15 VA/15 W	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 48 V, 110 125 V, 220 250 V	store consisting of shunt trip and capacitor storag device - 0.85 1.1 × U _s - 110 V, 230 V
Primary operating range Version Response values Primary operating range Extended operating range for battery operation Rated voltage Rated control supply voltage U _s Deperation Power consumption Vin. command duration at U _s	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 50/60 Hz AC DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 48 V, 110 125 V, 220 250 V	store consisting of shunt trip and capacitor storag device - 0.85 1.1 × U _s - 110 V, 230 V 110 V, 220 V 110 V, 220 V
Shunt trip (ST) (F1, F2) Primary operating range Version Response values Primary operating range Extended operating range for battery operation Rated voltage Rated control supply voltage U _s Operation Power consumption Win. command duration at U _s Storage time at Us/s/ Recharging time at U _s	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 50/60 Hz AC DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 15 VA/15 W	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 48 V, 110 125 V, 220 250 V	store consisting of shunt trip and capacitor storag device - 0.85 1.1 × U _s - 110 V, 230 V 110 V, 220 V 110 V, 220 V 1 VA/1 W - max. 5 min/
Primary operating range //ersion Response values Primary operating range Extended operating range for battery operation Extended operating range for battery operation Rated voltage Rated control supply voltage Us Operation Power consumption Min. command duration at Us Storage time at Us/s/ Recharging time at Us	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 50/60 Hz AC DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 15 VA/15 W	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 48 V, 110 125 V, 220 250 V	store consisting of shunt trip and capacitor storag device - 0.85 1.1 × U _s - 110 V, 230 V 110 V, 220 V 110 V, 220 V
Primary operating range /ersion Response values Primary operating range Extended operating range for battery operation Rated voltage Rated control supply voltage Us Operation Power consumption Win. command duration at Us Storage time at Us/s/ Recharging time at Us Opening time of the circuit breaker	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 50/60 Hz AC DC AC/DC	For continuous command (100% OP), locks out on momentary-contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 15 VA/15 W 60 ms -	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 48 V, 110 125 V, 220 250 V	store consisting of shunt trip and capacitor storage device - 0.85 1.1 × U _s - 110 V, 230 V 110 V, 220 V 110 V, 220 V 1 VA/1 W - max. 5 min/ min. 5 s
Primary operating range /ersion Response values Primary operating range Extended operating range for battery operation Rated voltage Rated control supply voltage U _s Poperation Power consumption Min. command duration at U _s Storage time at Us/s/ Recharging time at U _s	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 50/60 Hz AC DC	For continuous command (100% OP), locks out on momentary- contact commands >0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 15 VA/15 W	>0.7 × U _s (circuit breaker is tripped) 0.7 1.1 × U _s 0.7 1.26 × U _s 110 127 V, 208 240 V 24 V, 48 V, 110 125 V, 220 250 V 15 VA/15 W 25 ms -	store consisting of shunt trip and capacitor storag device - 0.85 1.1 × U _s - 110 V, 230 V 110 V, 220 V 110 V, 220 V 1 VA/1 W - max. 5 min/

Primary operating range					
Primary operating range		0.85 1.	1 × U,		
Extended operating range for battery operation	At 24 V DC, 48 V DC 110 V DC 220 V DC	0.7 1.2			
Operation					
Power consumption	AC/DC	50 VA/50	W		
Min. command duration at U _s for the remote reset n	nagnet	60 ms			
Short-circuit protection					
Smallest permissible DIAZED fuse (operational class automatic circuit breaker with C characteristic Contact position-driven auxiliary sy			low)/1 A at 110	V DC and 48 V D) V and 208 2	
Rated voltage	witches (51, 52, 55, 54, 57, 50)	SWLTT-	SWLIS		
Rated insulation voltage U _i	AC/DC	500 V			
Rated operational voltage U	AC/DC	500 V			
Rated impulse withstand voltage U _{imp}		4 kV			
Contact reliability		From 1 m	A at 5 V DC		
Breaking capacity					
Alternating current 50/60 Hz	Rated operational voltage U	24 230	V	380 V, 400	υv
	Rated operational current I_/AC-12	10 A		10 A	
	Rated operational current I /AC-15	4 A		3 A	
Direct current	Rated operational voltage U _e	24 V	48 V	110 V	220 V
	Rated operational current I _a /DC-12	10 A	8 A	3.5 A	1 A
	Rated operational current I _a /DC-13	8 A	4 A	1.2 A	0.4 A
	i e				
Short-circuit protection					
	L)	10 A TDz,	10 A Dz		
Short-circuit protection Largest permissible DIAZED fuse (operational class g Largest permissible miniature circuit breaker with C		10 A TDz, 10 A	10 A Dz		
Largest permissible DIAZED fuse (operational class g Largest permissible miniature circuit breaker with C	characteristic				
Largest permissible DIAZED fuse (operational class g Largest permissible miniature circuit breaker with C Ready-to-close signaling switches (characteristic	10 A			
Largest permissible DIAZED fuse (operational class g Largest permissible miniature circuit breaker with C Ready-to-close signaling switches (Breaking capacity	characteristic	10 A			
Largest permissible DIAZED fuse (operational class g Largest permissible miniature circuit breaker with C Ready-to-close signaling switches (Breaking capacity	characteristic S20) (acc. to DIN VDE 0630)	10 A 3WL11 -			
Largest permissible DIAZED fuse (operational class g	characteristic S20) (acc. to DIN VDE 0630) Rated operational voltage U _e	10 A 3WL11 - 250 V		250 V	
Largest permissible DIAZED fuse (operational class g Largest permissible miniature circuit breaker with C Ready-to-close signaling switches (Breaking capacity Alternating current 50/60 Hz	characteristic S20) (acc. to DIN VDE 0630) Rated operational voltage U _e Rated operational current I _e	10 A 3WL11 – 250 V 8 A		250 V 0.2 A	

Accessory options

Further technical specifications

Tripped signaling switches (S24) and signaling switches for auxiliary releases (S22, S23) (acc. to DIN VDE 0630)

3WL11 - 3WL13

Breaking capacity				
Alternating current 50/60 Hz	Rated operational voltage U _e	250 V		
	Rated operational current I _e /AC-12	8 A		
Direct current	Rated operational voltage U _e	24 V	125 V	250 V
	Rated operational current I _e /DC-12	6 A	0.4 A	0.2 A
	Contact reliability	From 1 mA at 5 V	DC	
Short-circuit protection				
Largest permissible DIAZED fuse (operational class gL)		6 A Dz (quick)		
Tripped signaling switches				
Signal duration after tripping		Until manual or ele	ectrical remote reset	(option)
Position signaling switches on guide fra	ame	3WL11 – 3WL13		
Type of contacts				
Message	"Circuit breaker in connected position"	3 CO	or	1 CO
-	"Circuit breaker in test position"	2 CO	or	1 CO
	"Circuit breaker in disconnected position"	1 CO	or	1 CO
Contact reliability (valid from April 1, 2020)		From 1 mA at 5 V	DC	
Rated voltage				
Rated insulation voltage U _i	50/60 Hz AC	440 V		
	DC	250 V		
Rated operational voltage U _e		250 V		
Rated impulse withstand voltage U _{imp}		4 kV		
Breaking capacity				
Rated operational current I _e	I _e /AC-12	24 V 10 A, 110/12 320/440 V 10 A	7 V 10 A, 220/240 V	10 A,
	I _e /AC-15	220/240 V 4 A, 32	0/440 V 3 A	
	I _e /DC-12	24 V 10 A, 48 V 2.	5 A, 220/240 V 0.2 A	
	I _e /DC-13	24 V 3.0 A, 220/24	10 V 0.1 A	
	A 300 (AC)	120 V 6 A, 240 V 3	3 A	
	R 300 (DC)	125 V 0.22 A, 250	V 0.11 A	
Short-circuit protection				
Largest permissible DIAZED fuse (operational class gL)		8 A TDz (slow)		
Largest permissible automatic circuit breaker with C chara	cteristic	8 A TDz (slow)		

Guide frames for AC

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your Guide frame, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

© Siemens 2020

		3WL	9	5 2		6 7 1	_	8	9	10	11	12	13	14	15	1
Size	1 2 3					1 2 3										
			SZ 1	SZ 2	SZ 3											
Max. rated current	1000 A ⁶⁾			-	-			1								
l _n	1600 A ⁶⁾			-	-			2								
	2000 A 6)				-			3								
	2500 A 6)		-		-			2 3 4 5 6								
	3200 A		-		-			5								
	4000 A ⁶⁾		-	-				6								
	5000 A 6300 A		-	-				7 8								
	0300 A		_	-	-			0								
Number of poles	3-pole								F							
•	4-pole								G							
Main connection	Front, single		□ ¹⁾	□ ²⁾	□ ³⁾					A						
	Front, doub	le hole	•	□ ²⁾	□ ³⁾					В						
	Horizontal		•	□ ²⁾	□ ⁴⁾					С						
	Vertical		•							D						
	Connecting	flange		□ ²⁾	□ ³⁾					E						
Breaking capacity	Ν,	55 kA		-	-										N	
$I_{cu} = I_{cs}$	S,	66 kA		_	-											
	<u>- ,</u> Н,	85 kA	− ⁵⁾	_	_										S H H	
	N, S and H	Up to 100 kA													H	
	C	130 kA	_	-	-											
	C	150 kA	_	_											C C	

Applies in this case

□ Partially applies in

this case

⁴⁾ Not available for rated circuit breaker current 6300 A
 ⁵⁾ Not available for rated circuit breaker current 1000 A + 1600 A

⁶⁾ Not available for breaking capacity C

Options

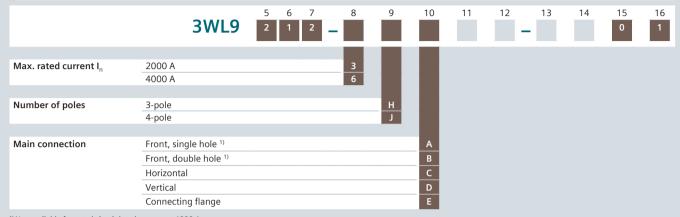
	3WL9	5 2	6 1	7	8	9	10	11	12	13	14	15	1
Number of auxiliary supply connectors	Without 2) 1 connector 2 connectors 3 connectors 4 connectors							0 1 2 3 4					
Type of auxiliary circuit connections	Without ²⁾ With screw terminals (SIGUT, s With screwless terminals (tens		J)						0 1 2				
Position signaling switches	Without 1 CO 1 CO 1 CO (connected 3 CO 2 CO 1 CO (connected	· ·								0 1 2			
Shutters	Without With shutter, 2-part, lockable										A B		

⁸⁾ Can only be selected if the number of the auxiliary supply connector is zero.

 $^{^{1)}\,}$ Not available for rated circuit breaker current 2000 A and breaking capacity H $^{2)}\,$ Not available for rated circuit breaker current 4000 A and breaking capacity C Not available for rated circuit breaker current 4000 A and breaking capacity C
 Not available for rated circuit breaker current 5000 A+6300A+breaking capacity C

Guide frames for DC

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your Guide frame, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator



¹⁾Not available for rated circuit breaker current 4000 A

Optionen

	3WL9	5 2	6 1	7	8	9	10	11	12	13	14	15 0	
Number of auxiliary supply connectors	Without 1 connector 2 connectors 3 connectors 4 connectors							0 1 2 3 4					
Type of auxiliary circuit connections	Without ²⁾ With screw terminals (SIGUT, st With screwless terminals (tensi								0 1 2				
Position signaling switches	Without 1 CO 1 CO 1 CO (connected 3 CO 2 CO 1 CO (connected									0 1 2			
Shutters	Without With shutter, 2-part, lockable										A B		

 $^{\rm 2)}$ Can only be selected if the number of the auxiliary supply connector is zero.

Accessories for electronic trip units ETU

	 For replacement in existing 	circuit breakers, please specify the c	ircuit breaker ID No. when ordering.	
// ²	Туре	With protection function	Metering function	Article No.
5 B	ETU15B	LI	Without	3WL9311-5AA00-0AA2
	ETU25B	LSI	Without	3WL9312-5AA00-0AA2
<u></u>	ETU27B	LSING	Without	3WL9312-7AA00-0AA2
	ETU45B (without display)	LSIN(G)	Without	3WL9314-5AA00-0AA2
			With metering function Plus new	3WL9314-5AA30-0AA2
	ETU76B	LSIN(G)	Without	3WL9317-6AA00-0AA2
			With metering function Plus new	3WL9317-6AA30-0AA2
ating plugs				
Retry Fug In 2000 A	• With the rating plug selecte of the circuit breaker must r	d, the maximum rated current I _{n max} not be exceeded. The following appl	ies: I _n ≤I _{n max} .	
NSE0_009926	Size	Rated current In		Article No.
	1, 2			3WL9111-0AA51-0AA0
	,	315 A		3WL9111-0AA52-0AA0
		400 A		3WL9111-0AA53-0AA0
		500 A		3WL9111-0AA54-0AA0
		630 A		3WL9111-0AA55-0AA0
		800 A		3WL9111-0AA56-0AA0
		1000 A		3WL9111-0AA57-0AA0
	1, 2, 3	1250 A		3WL9111-0AA58-0AA0
	1, 2, 5	1600 A		3WL9111-0AA61-0AA0
		2000 A		3WL9111-0AA62-0AA0
	2, 3	2500 A		3WL9111-0AA63-0AA0
	2, 5	3200 A		3WL9111-0AA64-0AA0
				3WL9111-0AA65-0AA0
	3	4000 A		
	2	5000 A 6300 A		3WL9111-0AA66-0AA0 3WL9111-0AA67-0AA0
		0300 A		SWESTIT-OAAOF-OAAO
round foult modul	~~			
Ground-fault modul				
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transfor is 0.11 [XZ]. If the ground-fa 	round-fault current, e.g. in the star p ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor.	nal load of the 3WL circuit breaker	
	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transfor is 0.11 [XZ]. If the ground-fa 	ormer, class 1, is required. The interr ault current is to be determined usin	nal load of the 3WL circuit breaker	Article No.
	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fa a transformer must be insta 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor.	nal load of the 3WL circuit breaker	Article No. 3WL9111-0AT53-0AA0
	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fa a transformer must be insta Type 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for	nal load of the 3WL circuit breaker	
	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fit a transformer must be instaced Type GFM AT 45B 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0
	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fit a transformer must be instaced Type GFM AT 45B 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0
	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B 	ormer, class 1, is required. The intern ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No.
NSEO_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [\$\vec{A}\$]. If the ground-fit a transformer must be instation Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No.
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line g wiring kit	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line g wiring kit Size	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 Article No. 3WL9111-0AA11-0AA0
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line g wiring kit Size 1 2	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 Article No. 3WL9111-0AA11-0AA0 3WL9111-0AA11-0AA0
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line g wiring kit Size 1 2 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA13-0AA0
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin ETU Release 2 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line g wiring kit Size 1 2 3 1	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA14-0AA0
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin ETU Release 2 	ormer, class 1, is required. The intern ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line g wiring kit Size 1 2 3 1 2 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA15-0AA0
isplay	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin ETU Release 2 - 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line g wiring kit Size 1 2 3 1	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA15-0AA0
isplay	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [\$\overline\$]. If the ground-frict a transformer must be instated a transformer must be instated by the second seco	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line gwiring kit Size 1 2 3 1 2 3 1 2 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA14-0AA0 3WL9111-0AA15-0AA0
isplay	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [22]. If the ground-fi a transformer must be insta Type GFM AT 45B GFM AT 55B – 76B Accessory for ETU45B Isformers, for N conductor includin ETU Release 2 - 	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line gwiring kit Size 1 2 3 1 2 3 3 5 2 3 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 Article No. 3WL9111-0AT81-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0
NSE0_01027a	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [\$\overline\$]. If the ground-frict a transformer must be instated a transformer must be instated by the second seco	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line gwiring kit Size 1 2 3 1 2 3 1 2 3 3 3 5 2 3 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT81-0AA0 3WL9111-0AA18-0AA0 3WL9111-0AA12-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0
isplay	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [\$\overline\$]. If the ground-frict a transformer must be instated a transformer must be instated by the second seco	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line gwiring kit Size 1 2 3 1 2 3 3 Size 1 2 3 3 Size 1 2 3 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT81-0AA0 3WL9111-0AA18-0AA0 3WL9111-0AA12-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA20-0AA0
visplay	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [\$\overline\$]. If the ground-frict a transformer must be instated a transformer must be instated by the second seco	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line gwiring kit Size 1 2 3 1 2 3 3 Size 1 2 3 3 Size 1 2 3 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT81-0AA0 3WL9111-0AA18-0AA0 3WL9111-0AA12-0AA0 3WL9111-0AA12-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA2-0AA0 3WL9111-0AA2-0AA0 3WL9111-0AA23-0AA0
visplay	 Alarm and tripping For direct metering of the g a 1200 A/1 A current transforis 0.11 [\$\overline\$]. If the ground-frict a transformer must be instated a transformer must be instated by the second seco	ormer, class 1, is required. The interr ault current is to be determined usin lled in the neutral conductor. Accessory for ETU45B ETU76B Version 4-line gwiring kit Size 1 2 3 1 2 3 3 Size 1 2 3 3 Size 1 2 3 3	nal load of the 3WL circuit breaker	3WL9111-0AT53-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT56-0AA0 3WL9111-0AT81-0AA0 3WL9111-0AA18-0AA0 3WL9111-0AA11-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA13-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA15-0AA0 3WL9111-0AA20-0AA0

Accessories for electronic trip units ETU

EMC filter

		ppressor filters (e.g. in IT networks, ne range 40 kHz to 10 MHz >40 dB.					
	Variants			Article No.			
	Only for ETU Release 2			3WL9111-0AK34-0AA0			
Sealable and lockable co	overs						
25 -0	Accessory for			Article No.			
	ETU15B to ETU45B			3WL9111-0AT45-0AA0			
	ETU76	ETU76					
Automatic reset of the re	eclosing lockout						
	Version			Article No.			
	Spare part for option K01			3WL9111-0AK21-0AA0			
Remote reset magnets							
	 For mechanical tripped indicato Spare part for options K10 to K1 Note: Automatic reset of the reclos 		is also required				
	Voltage			Article No.			
NSE0_00999a	24 V DC			3WL9111-0AK03-0AA0			
	48 V DC			3WL9111-0AK04-0AA0			
	120 V AC / 125 V DC			3WL9111-0AK05-0AA0			
	208 250 V AC / 208 250 V DC			3WL9111-0AK06-0AA0			
Retrofittable internal wi	ring						
	Purpose	Male connector	Accessory for	Article No.			
	Internal CubicleBUS wiring for connection to terminal X8	Without male connector for retrofitting the communication	ETU45B and ETU76B	3WL9111-0AK30-0AA0			
	For connection of the external N	Without male connector	Not for ETU Release 2	3WL9111-0AK31-0AA0			

ETU Release 2

Locking devices and interlocks

and G transformers to terminal X8

Padlockable protective cover ON / OFF								
965 965	 Consisting of two transparent cover (padlocks not included in scope of s Cover with 6.35 mm hole (for tool a Lock mount for safety lock for key c 	actuation)						
a d d	Version		Article No.					
ASER_DOOBRC	Without safety lock	3WL9111-0BA21-0AA0						
NSEC	Made by CES	3WL9111-0BA22-0AA0						
	Made by IKON		3WL9111-0BA24-0AA0					
Locking devices against	Locking devices against unauthorized closing, in the operator panels							
	 The disconnector unit fulfills the red Spare part for options S01 to S09 	quirements for main circuit breakers acc. to EN 60204-1						
	Variant	Scope of supply	Article No.					
	Assembly kit FORTRESS or Castell	Without locks, cylinders or keys	3WL9111-0BA31-0AA0					
Auro	Made by Ronis	Locks, cylinders and keys included	3WL9111-0BA33-0AA0					
1194495-94	Made by KIRK-Key	Without locks, cylinders or keys	3WL9111-0BA34-0AA0					
	Made by Profalux	Locks, cylinders and keys included	3WL9111-0BA35-0AA0					
	Made by CES	Locks, cylinders and keys included	3WL9111-0BA36-0AA0					
	Made by IKON	Locks, cylinders and keys included	3WL9111-0BA38-0AA0					
	Assembly kit for padlocks	Without padlock	3WL9111-0BA41-0AA0					

3WL9111-0AK33-0AA0

Locking devices and interlocks

	ist unauthorized closing, for withdraw	able circuit breakers	
		requirements for main circuit breakers acc. to EN 60204-1 ame, active in connected position, function is retained when circuit 168	
NSE0_00982	Variant	Scope of supply	Article No.
	Made by CES	Locks, cylinders and keys included	3WL9111-0BA51-0AA0
	Made by IKON	Locks, cylinders and keys included	3WL9111-0BA53-0AA0
	Made by KIRK-Key ¹⁾	Without locks, cylinders or keys	3WL9111-0BA57-0AA0
	Made by Ronis	Locks, cylinders and keys included	3WL9111-0BA58-0AA0
	Made by Profalux	Locks, cylinders and keys included	3WL9111-0BA50-0AA0
ocking devices for o	perating mechanism handle with padle	· · ·	
	Version	Scope of supply	Article No.
	Spare part for S33	Without padlock	3WL9111-0BA71-0AA0
ocking device again	st movement of the withdrawable circ	uit breaker	
	 Safety lock for mounting onto th Spare part for option S71, S75, S 		
	Variant	Scope of supply	Article No.
NSE0_00986	Made by CES	Locks, cylinders and keys included	3WL9111-0BA73-0AA0
	Made by IKON	Locks, cylinders and keys included	3WL9111-0BA75-0AA0
	Made by Profalux	Locks, cylinders and keys included	3WL9111-0BA76-0AA0
	Made by Ronis	Locks, cylinders and keys included	3WL9111-0BA77-0AA0
	Made by KIRK-Key ¹⁾	Without locks, cylinders or keys	3WL9111-0BA80-0AA0
Interlocking systems			
	 2 of the same keys for 3 circuit b Locking device in OFF position Lock in the operator panel A maximum of 2 circuit breakers 		
	Variant		Article No.
	Made by CES		3WL9111-0BA43-0AA0
Locking devices to pre	, ,	circuit breakers in disconnected position	3WL9111-0BA43-0AA0
Locking devices to pr	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note:	lock in the cabinet door on the circuit breaker 86	3WL9111-0BA43-0AA0
Locking devices to pr	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination w	lock in the cabinet door on the circuit breaker	3WL9111-0BA43-0AA0
NSED_00987	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination w (order code "R30") or "Locking	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door"	3WL9111-0BA43-0AA0
seo_ooga	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination w (order code "R30") or "Locking code "R50").).	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door"	
seo_oos	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination w (order code "R30") or "Locking code "R50").). Variant	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door"	Article No.
SEED_00997	event movement of the withdrawable • Consisting of Bowden cable and • Spare part for option R81, R85, R • Note: - Not possible in combination w (order code "R30") or "Locking code "R50").). Variant Made by CES	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door"	Article No. 3WL9111-0BA81-0AA0
ocking devices to pr	event movement of the withdrawable • Consisting of Bowden cable and • Spare part for option R81, R85, R • Note: - Not possible in combination w (order code "R30") or "Locking code "R50").). Variant Made by CES Made by IKON	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door"	Article No. 3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0
80 0 00 NSE0_00987	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination w (order code "R30") or "Locking code "R50").). Variant Made by CES Made by IKON Made by Profalux	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door" mechanism to prevent movement with the cabinet door open" (order	Article No. 3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0
NEC0_00987	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: - Not possible in combination w (order code "R30") or "Locking code "R50").). Variant Made by CES Made by IKON Made by Profalux Made by Ronis event opening of the cabinet door in C Fixed-mounted	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door" mechanism to prevent movement with the cabinet door open" (order	Article No. 3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0
NEC0_00987	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination w (order code "R30") or "Locking code "R50").). Variant Made by CES Made by RON Made by Profalux Made by Ronis event opening of the cabinet door in C Fixed-mounted Defeatable 	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door" mechanism to prevent movement with the cabinet door open" (order	Article No. 3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0
NSE0_00987	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination v (order code "R30") or "Locking code "R50").). Variant Made by CES Made by IKON Made by Profalux Made by Ronis event opening of the cabinet door in C Fixed-mounted Defeatable Note: Not possible in combination v	lock in the cabinet door on the circuit breaker 86 vith "Locking mechanism to prevent opening of the cabinet door" mechanism to prevent movement with the cabinet door open" (order	Article No. 3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0
NEC0_00987	event movement of the withdrawable Consisting of Bowden cable and Spare part for option R81, R85, R Note: Not possible in combination v (order code "R30") or "Locking code "R50").). Variant Made by CES Made by IKON Made by Profalux Made by Ronis event opening of the cabinet door in C Fixed-mounted Defeatable Note: Not possible in combination v	lock in the cabinet door on the circuit breaker 186 with "Locking mechanism to prevent opening of the cabinet door" I mechanism to prevent movement with the cabinet door open" (order 200 position with "Locking mechanism to prevent movement of the withdrawable	Article No. 3WL9111-0BA81-0AA0 3WL9111-0BA83-0AA0 3WL9111-0BA85-0AA0

¹⁾ Locks, cylinders and keys must be ordered from the manufacturer.

Locking devices and interlocks

Locking devices to prev	ent opening of the cabinet door			
	Guide frames			
	 Defeatable Note: 			
	 Note. Not possible in combination wit 	h "Locking mechanism to preve	nt movement of the withdrawable	
	circuit breakers in disconnected			
	Version			Article No.
	Spare part for option R30			3WL9111-0BB13-0AA0
Locking devices to prev	ent movement with the cabinet door o	open		
	Guide frames			
	 Note: Not possible in combination wit 	h "Locking mechanism to prever	nt movement of the withdrawable	
	circuit breakers in disconnected			
	Version			Article No.
	Spare part for option R50			3WL9111-0BB15-0AA0
Mutual mechanical inte	rlockings			
	With Bowden cable 2000 mm (one			
	Туре	When ordered separately	Spare part for	Article No.
	Fixed-mounted circuit breaker	-	Option S55	3WL9111-0BB21-0AA0
NSE0_00989	Module for withdrawable circuit breakers with guide frame	-	Option R55	3WL9111-0BB24-0AA0
	Module for guide frame	✓	Option R56	3WL9111-0BB22-0AA0
	Module for withdrawable circuit breaker	1	Option R57	3WL9111-0BB23-0AA0
	Adapter for size 3 withdrawable circuit breaker	1	-	3WL9111-0BB30-0AA0
Couplings on the circuit	t breaker (with ring) for mutual interlo	cking		
A Charles	Can be used in all circuit breakers			
A P				Article No.
NDED_01886				3WL9112-8AH47-0AA0
Bowden cables				
	Length			Article No.
	2000 mm			3WL9111-0BB45-0AA0
	3000 mm			3WL9111-0BB46-0AA0
	4500 mm			3WL9111-0BB47-0AA0

Test devices

Manual tester, Release 2	for electronic trip units ETU15B to ETU76B	
	 For testing the electronic trip unit functions of all 3WL ETUs (Release 1 and Release 2) 	
		Article No.
		3WL9111-0AT32-0AA0
Function test unit		
	• For testing the tripping characteristics for electronic trip units ETU15B to ETU76B (Release 1 and Release 2)	
		Article No.
		3WL9111-0AT44-0AA0
TD400 Kit IEC		
	 Commissioning /Service Tool for IEC 3WL (ETU Release 2) and 3VA With adapter, cable and case 	
		Article No.
		3VW9011-0AT40
TD400 adapter (spare pa	rt)	
	Version	Article No.
	for 3VA	3VW9011-0AT43
	for 3WL ETU Release 1	3VW9011-0AT44
	for 3WL ETU Release 2	3VW9011-0AT45

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Indicators and control elements

Ready-to-close signali	ng switches (S20)		
£L.	Version	Contacts	Article No.
NEED_COSSI	Spare part for option C22	1 NO contact	3WL9111-0AH01-0AA0
Signaling switch (S22	or S23).		
NREC OUBARD		Contacts	Article No. 3WL9111-0AH02-0AA0
			_
1st tripped signaling s	Not possible with communication	on port, order code "F02", "F12" or "F35" required for circuit breakers or guide frames. lease order additionally	_
	Version	Contacts	Article No.
	Spare part for option K07	1 CO contact	3WL9111-0AH14-0AA0
2nd tripped signaling	 Not possible with communication Auxiliary supply connection X7 If this is not already available, p 	on port, order code "F02", "F12" or "F35" required for circuit breakers or guide frames. lease order additionally n with 1st tripped signaling switch	
	Version	Contacts	Article No.
	Spare part for option K06	1 NO contact	3WL9111-0AH17-0AA0
Operating cycle count			
	Only in conjunction with motor		
	Variant Spare part for option C01	Version Mechanical	Article No. 3WL9111-0AH07-0AA0
Spring charged signal	ing switch		
	Not possible with communication	on port, order code "FO2", "F12" or "F35". required for circuit breakers or guide frames. lease order additionally	
	Version	Contacts	Article No.
Desision sinneling sui	Spare part for option C20	1 NO contact	3WL9111-0AH08-0AA0
Position signaling swi	tches for guide frames Version	Contacts	Article No.
NSE0_00996a	Spare part for options R15 to R16		3WL9111-0AH11-0AA0 3WL9111-0AH12-0AA0
	S10) for operator panel		
NSE0_00997a	 Not possible with communication Not possible with motor shutdom 	y connection X7 required for circuit breakers or guide frames. lease order additionally)	
	Version	Variant	Article No.
	Spare part for options C11 to C12	With sealing cap C11	3WL9111-0AJ02-0AA0
		With CES assembly kit C12	3WL9111-0AJ03-0AA0
		With IKON assembly kit	3WL9111-0AJ05-0AA0

Indicators and control elements

Motor cutout

EMERGENCY

ut switch (S12		
	Mounting onto operator panel Not possible with electrical ON button	
	Version	Article No.
	Spare part for option S25	3WL9111-0AJ06-0AA0
Y-OFF pushbu	ttons	
_	Mushroom pushbutton instead of the mechanical OFF pushbutton	
and Fr.	Variant	Article No.
E0_00985	Spare part for option S24	3WL9111-0BA72-0AA0

Auxiliary conductor connections

(7720au.	circuit breakers 1	Article No.
		3WL9111-0AB01-0AA
tension for male c	onnector	
	Male connector must be ordered separately	
	Version	Article No.
	1000 V	3WL9111-0AB02-0AA
ale connectors and	l extension	
	Version	Article No.
	1000 V	3WL9111-0AB10-0AA
xiliary supply con	nection for circuit breakers or guide frames 2	
	Version	Article No.
	Screw connection (SIGUT)	3WL9111-0AB03-0AA
Sector Card	Screwless connection (tension spring)	3WL9111-0AB04-0AA
ding kits 3		
	Version	Article No.
	For fixed-mounted X5 to X8	3WL9111-0AB07-0AA
ling contact mod	ules for guide frames 🕘	
1 A Star		Article No.
		3WL9111-0AB08-0AA
e-part sliding con	tact modules for guide frames 🕤	
	Version	Article No.
	Screw terminals (SIGUT)	3WL9111-0AB18-0AA
nking blocks for o	ircuit breakers	
		Article No.
		3WL9111-0AB12-0AA

For a complete auxiliary current connection you must order: Fixed-mounted version: 1 + 2 + 31 + 2 + 31 + 4 + 2 and 1 + 5Withdrawable version:

Auxiliary releases

Closing coils / shunt trips				
A CONTRACTOR	Version	Voltage	Article No.	
	100% OP	24 V DC	3WL9111-0AD01-0AA0	
		30 V DC	3WL9111-0AD02-0AA0	
		48 V DC	3WL9111-0AD03-0AA0	
NSE0_01000		60 V DC	3WL9111-0AD04-0AA0	
140		110 125 V DC/110 127 V AC	3WL9111-0AD05-0AA0	
		220 250 V DC/208 240 V AC	3WL9111-0AD06-0AA0	
	5% OP	24 V DC	3WL9111-0AD11-0AA0	
	Switching time 50 ms	48 V DC	3WL9111-0AD12-0AA0	
	(standard >80 ms).	110 125 V DC/110 127 V AC	3WL9111-0AD13-0AA0	
		220 250 V DC/208 240 V AC	3WL9111-0AD14-0AA0	
Undervoltage release				
	Version	Voltage	Article No.	
	Instantaneous	24 V DC	3WL9111-0AE01-0AA0	
		30 V DC	3WL9111-0AE02-0AA0	
		48 V DC	3WL9111-0AE03-0AA0	
		60 V DC	3WL9111-0AE07-0AA0	
		60 V DC 110 125 V DC/110 127 V AC		
			3WL9111-0AE07-0AA0	
		110 125 V DC/110 127 V AC	3WL9111-0AE07-0AA0 3WL9111-0AE04-0AA0	
	Delayed	110 125 V DC/110 127 V AC 220 250 V DC/208 240 V AC	3WL9111-0AE07-0AA0 3WL9111-0AE04-0AA0 3WL9111-0AE05-0AA0	
	Delayed	110 125 V DC/110 127 V AC 220 250 V DC/208 240 V AC 380 415 V AC	3WL9111-0AE07-0AA0 3WL9111-0AE04-0AA0 3WL9111-0AE05-0AA0 3WL9111-0AE06-0AA0	
	Delayed	110 125 V DC/110 127 V AC 220 250 V DC/208 240 V AC 380 415 V AC 48 V DC	3WL9111-0AE07-0AA0 3WL9111-0AE04-0AA0 3WL9111-0AE05-0AA0 3WL9111-0AE06-0AA0 3WL9111-0AE06-0AA0 3WL9111-0AE11-0AA0	
	Delayed	110 125 V DC/110 127 V AC 220 250 V DC/208 240 V AC 380 415 V AC 48 V DC 110 125 V DC/110 127 V AC	3WL9111-0AE07-0AA0 3WL9111-0AE04-0AA0 3WL9111-0AE05-0AA0 3WL9111-0AE06-0AA0 3WL9111-0AE11-0AA0 3WL9111-0AE12-0AA0	

Operating mechanism

Motorized operating mechanisms				
	 Auxiliary supply connection X5 required for circuit breakers or guide frames. If this is not already available, please order additionally 			
	Voltage	Article No.		
	24 30 V DC	3WL9111-0AF01-0AA0		
	48 60 V DC	3WL9111-0AF02-0AA0		
	110 125 V DC/110 127 V AC	3WL9111-0AF03-0AA0		
	220 250 V DC/208 240 V AC	3WL9111-0AF04-0AA0		

Auxiliary contacts

Auxiliary switch blocks		
	Contacts	Article No.
	2 NO contacts + 2 NC contacts	3WL9111-0AG01-0AA0
	2 NO contacts	3WL9111-0AG02-0AA0
	1 NO contact + 1 NC contact	3WL9111-0AG03-0AA0

Door sealing frames, hoods, shutters

.					
Door sealing frames					
	Version	Article No.			
	Spare part for option T40	3WL9111-0AP01-0AA0			
Protective cover IP55					
	Cannot be used in conjunctionHood removable and can be contracted and c	n with door sealing pened on both sid	g frames les		
					Article No.
A 400 10 100 100 100 100 100 100 100 100					3WL9111-0AP02-0AA0
Shutters					
	Version	Number of poles	Size	Breaking capacity	
	Spare part for option R21	3-pole	1	N, S, H	3WL9111-0AP04-0AA0
			2	N, S, H	3WL9111-0AP06-0AA0
				С	3WL9111-0AP43-0AA0
			3	H, C	3WL9111-0AP07-0AA0
		4-pole	1	N, S, H	3WL9111-0AP08-0AA0
			2	N, S, H	3WL9111-0AP11-0AA0
				С	3WL9111-0AP44-0AA0
			3	H, C	3WL9111-0AP12-0AA0

Arc chute

Arc chute				
	Voltage	Size	Breaking capacity	Article No.
	690 V	1	N, S, H	3WL9111-0AS01-0AA0
		2	N, S, H	3WL9111-0AS02-0AA0
			С	3WL9111-0AS10-0AA0
		3	H, C	3WL9111-0AS03-0AA0
	1000 V/1150 V	2	Н, С	3WL9111-0AS05-0AA0
		3	H, C	3WL9111-0AS06-0AA0
Arc chute covers				
	 Parts kit for guide frame Spare part for option R1 Not available for 1000 V version (ordet - 1150 V version (ordet - DC version, - 4000 A size 2, 	10 er code "A05"),		
	 Circuit breakers with 	very high breaking o	capacity C.	
		very high breaking o Size	capacity C.	Article No.
	 Circuit breakers with 	, , , ,	capacity C.	Article No. 3WL9111-0AS32-0AA0
	Circuit breakers with Number of poles	Size	capacity C.	
NSED 01008	Circuit breakers with Number of poles	Size 1	capacity C.	3WL9111-0AS32-0AA0
NSED_01008	Circuit breakers with Number of poles	Size 1 2	capacity C.	3WL9111-0AS32-0AA0 3WL9111-0AS36-0AA0
NSED_DTOOB	Circuit breakers with Number of poles 3-pole	Size 1 2 3	capacity C.	3WL9111-0AS32-0AA0 3WL9111-0AS36-0AA0 3WL9111-0AS38-0AA0



Coding for withdrawable version



	By customer, for 36 coding variants		
	Size	Article No.	
	1 and 2	3WL9111-0AR12-0AA0	
	3	3WL9111-0AR13-0AA0	

Grounding connections

Grounding connection b	between the guide frame and	the withdrawable circuit breaker	
	 Order 2× for 30 kA groun Contacting modules for g 		
	Size		Article No.
NSE0_01018a	1 and 2 ¹⁾		3WL9111-0BA01-0AA0
	3		3WL9111-0BA02-0AA0
Contacting modules for	withdrawable circuit breaker	°S	
1	Number of poles	Size	Article No.
	3-pole	1	3WL9111-0BA05-0AA0
NSE0 01019		2 ¹⁾	3WL9111-0BA06-0AA0
NSEO_01019		3	3WL9111-0BA07-0AA0
	4-pole	1	3WL9111-0BA08-0AA0
		2 ¹⁾	3WL9111-0BA04-0AA0
		3	3WL9111-0BA10-0AA0

 $^{\scriptscriptstyle 1)}\,$ Cannot be used for size 2 with very high breaking capacity C and size 2, 4000 A.

Support brackets



CubicleBUS modules

- Each CubicleBUS module is supplied with a 0.2 m pre-assembled cable to connect the modules with each other. A longer pre-assembled cable is required for connection to the circuit breaker.
- All communication components, CubicleBUS modules and metering functions are available for the electronic trip units ETU45B and ETU76B.

CubicleBUS modules			
	Туре		Article No.
	Digital output modules with rotary	3WL9111-0AT26-0AA0	
	Digital output modules, configural	3WL9111-0AT20-0AA0	
	Digital input module		3WL9111-0AT27-0AA0
NSE0_01023a	Analog output module		3WL9111-0AT23-0AA0
	ZSI module		3WL9111-0AT21-0AA0
Preassembled cables for	CubicleBUS modules		
	For connection to 3WL	Length	Article No.
	With COM15/COM16/COM35	0.5 m	3WL9111-0BC04-0AA0
		1 m	3WL9111-0BC02-0AA0
		2 m	3WL9111-0BC03-0AA0
	Without COM15/COM16/COM35	2 m	3WL9111-0BC05-0AA0
Voltage transformers			
	Required for 3WL circuit breake380 690 V/100 V, class 0.5		
	Number of poles	Metering function	Article No.
	3-pole	With metering function Plus	3WL9111-0BB68-0AA0

Retrofitting and spare parts

• For retrofitting the COM15, COM16 or COM35 communication modules in withdrawable 3WL circuit breakers with Z options A05 (1000 V AC), A15 (1150 V AC) or A16 (690 V + 20%), the following additional assembly kits are required: 3WL9111-0AT62-0AA0 for circuit breakers size 1 or 3WL9111-0AT63-0AA0 for circuit breakers size 2/3

COM35 PROFINET IO / M	odbus TCP modules new	
	Version	Article No.
	For electronic trip units ETU45B and ETU76B	3WL9111-0AT65-0AA0
PROFINET IO / Modbus T	CP retrofit kits new	
	• Retrofit kit for the PROFINET IO / Modbus TCP communication including COM35, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units	
		Article No.
		3WL9111-0AT66-0AA0
PROFIBUS retrofit kits		
	 Retrofit kit for the PROFIBUS communication including COM15, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units 	
		Article No.
		3WL9111-0AT12-0AA0
COM15 PROFIBUS modul	les	
	Version	Article No.
	For electronic trip units ETU45B and ETU76B	3WL9111-0AT15-0AA0
COM16 Modbus RTU mo	dules	
	Version	Article No.
	For electronic trip units ETU45B and ETU76B	3WL9111-0AT17-0AA0
Modbus RTU retrofit kits	IEC	
	 Retrofit kit for the Modbus communication including COM16, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units 	
		Article No.
		3WL9111-0AT18-0AA0
Additional parts for retro	ofitting the COM15/COM16/COM35 communication modules	
	 In withdrawable 3WL circuit breakers with Z options: A05 (1000 V AC) or A15 (1150 V AC) or A16 (690 V + 20%) 	
	Size	Article No.
	1	3WL9111-0AT62-0AA0
	2/3	3WL9111-0AT63-0AA0
Breaker status sensors (B	3SS)	
	Version	Article No.
	 For acquisition via communication of the circuit breaker states ON / OFF / tripped For electronic trip units ETU45B and ETU76B 	3WL9111-0AT16-0AA0

Interfaces

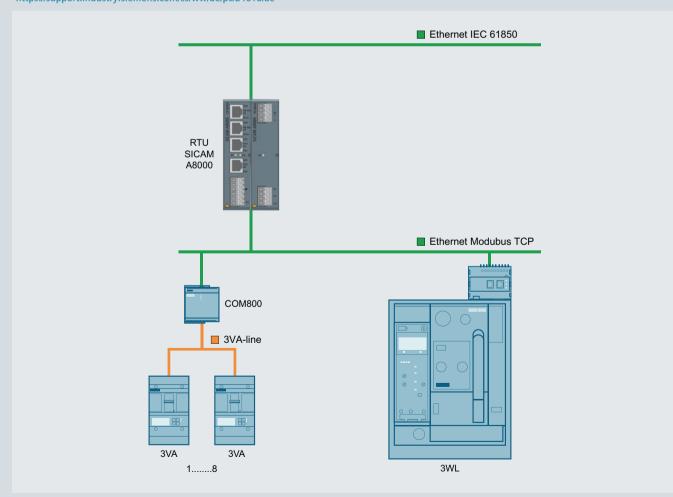
Interface to the IEC 6185	i0 <mark>new</mark>		
	 The SICAM A8000 as an intellig from the SENTRON portfolio via communication protocols (such higher-level systems. 		
	Туре	Operating voltage	Article No.
1	SICAM CP-8021 ¹⁾	-	6MF28021AA00
	SICAM CP-8050 ²⁾	-	6MF2805-0AA00 new
1	SICAM PS-8620	24 60 V DC (12 W)	6MF28620AA00
P	SICAM PS-8622	110 220 V DC (12 W)	6MF28622AA00

¹⁾ Designed for maximum data volumes of 20 devices each with 50 data points

 $^{2)}\,$ Dimensioned for device quantities of 3× 3WL and 8× 3VA

You will find further information at: www.siemens.com/sicam-a8000

For the SICAM CP-8021 and SICAM CP-8050, predefined modules were created to reduce commissioning work to a minimum. The modules can be obtained free of charge from the following link. https://support.industry.siemens.com/cs/ww/de/ps/24618/ae



System overview, page 1/38

Storage devices

Capacitor storage device	s			
	 For shunt trips Storage time 5 min Also suitable for 3VL, 3VA and 3 Note: Rated control supply voltage 			
	Rated control supply voltage/rate	ed operational voltage	Article No.	
	50/60 Hz AC	DC		
	220 240 V 220 250 V			

Spare parts new

Metering function F	lus for retrofitting		
	 As spare part or for retrofitting the For ETU45B or ETU76B Release Voltage transformer required Voltage converter required A measuring accuracy of 3% is 		
			Article No.
			3WL9111-0AT05-0AA0
/oltage converter			
	Version		Article No.
	As spare part or for retrofitting the n	netering function Plus	3WL9111-0AT06-0AA0
Components for co	version of an existing internal voltage ta		
	 Conversion requires 3 component Conversion requires 4 component Conversion of a metering function 	ts for 4-pole 3WL	
	Conversion of internal voltage tap to main contact	Size	Article No.
	From bottom to top	1	3WL9111-0AT71-0AA0
		2	3WL9111-0AT72-0AA0
		3	3WL9111-0AT73-0AA0
	From top to bottom	1	3WL9111-0AT74-0AA0
		2	3WL9111-0AT75-0AA0
		3	3WL9111-0AT76-0AA0
Fransformers (with	out iron core), Rogowski coil only (instrur	ment transformer for the protection function)	
	 Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B External 24 V DC supply required Undervoltage release required (e.g. 3WL9111-0AE01-0AA0) As retrofit kit or as spare part. With new circuit breakers, please use the Z option K60 Scope of supply: Transformer Warning signs Manual 		
	Number of poles	Size	Article No.
	3-pole	1	3WL9111-0AA42-0AA0
		2	3WL9111-0AA43-0AA0
		3	3WL9111-0AA44-0AA0
	4-pole	1	3WL9111-0AA45-0AA0
		2	3WL9111-0AA46-0AA0
		3	3WL9111-0AA47-0AA0

Main conductor connections, fixed-mounted versions (essential accessory)

Front-accessible main c	onnections, single	hole at top	
0000	Not for 3WL1	size 1 with high breaking capacity H	
••••	Size	Rated current I _n	Article No.
	1	Up to 1000 A	3WL9111-0AL01-0AA0
		1250 1600 A	3WL9111-0AL02-0AA0
NSE0 01010	2 ⁴⁾	Up to 2000 A	3WL9111-0AL03-0AA0
		Up to 2500 A	3WL9111-0AL04-0AA0
		Up to 3200 A	3WL9111-0AL05-0AA0
	3	Up to 4000 A	3WL9111-0AL06-0AA0
Front-accessible main c	onnections, single	hole at bottom	
0000	Not for 3WL1	size 1 with high breaking capacity H	
	Size	Rated current In	Article No.
	1	Up to 1000 A	3WL9111-0AL51-0AA0
and the second		1250 1600 A	3WL9111-0AL52-0AA0
NSE0 01010	2 4)	Up to 2000 A	3WL9111-0AL53-0AA0
		Up to 2500 A	3WL9111-0AL54-0AA0
		Up to 3200 A	3WL9111-0AL55-0AA0
	3	Up to 4000 A	3WL9111-0AL56-0AA0
Front-accessible main c	onnections accord	ing to DIN 43673, double hole at top	
99999 99997 m	Size	Rated current In	Article No.
· · · · · · · · · · · · · · · · · · ·	1	Up to 1000 A ¹⁾	3WL9111-0AL07-0AA0
The state of the s		1250 2000 A ⁵⁾	3WL9111-0AL08-0AA0
	2 ⁴⁾	Up to 2000 A	3WL9111-0AL11-0AA0
NSE0 01011		Up to 2500 A	3WL9111-0AL12-0AA0
		Up to 3200 A	3WL9111-0AL13-0AA0
	3	Up to 4000 A	3WL9111-0AL14-0AA0
Front-accessible main c	onnections accord	ing to DIN 43673, double hole at bottom	
0000	Size	Rated current In	Article No.
• • • • • • • • • • • • • • • • • • •	1	Up to 1000 A ¹⁾	3WL9111-0AL57-0AA0
		1250 2000 A ⁵⁾	3WL9111-0AL58-0AA0
	2 ⁴⁾	Up to 2000 A	3WL9111-0AL61-0AA0
NSE0 01011		Up to 2500 A	3WL9111-0AL62-0AA0
NSEU_01011		Up to 3200 A	3WL9111-0AL63-0AA0
	3	Up to 4000 A	3WL9111-0AL64-0AA0
Rear vertical main conn	ections		
\sim	Size	Rated current I _n	Article No.
	1 ²⁾	Up to 2000 A	3WL9111-0AM01-0AA0
	2 ³⁾	Up to 3200 A	3WL9111-0AM02-0AA0
NSED 01012	3	Up to 6300 A	3WL9111-0AM03-0AA0

¹⁾ Nor for 3WL1 size 1 with high breaking capacity H
 ²⁾ In the case of vertical connection size 1 with breaking capacity N and S, up to 1000 A one 3WL9 111-0AM01-0AA0 vertical connection is required, up to 2000 A or with breaking capacity H two 3WL9 111-0AM01-0AA0 vertical connections are required.
 ³⁾ In the case of vertical connection size 2, up to 2500 A one 3WL9 111-0AM02-0AA0 vertical connection is required, up to 2000 A ore 3WL9 111-0AM02-0AA0 vertical connection is required.

up to 3200 A two 3WL9 111-0AM02-0AA0 vertical connections are required.

Not for circuit breakers with very high breaking capacity C.
 Can be used for size 1 with H breaking capacity of 630 A ... 2000 A.

Main conductor connections, withdrawable versions (essential accessory)

Front-accessible main	connections, single hole at to	op or at bottom ^{1) 2)}		
-	Size	Rated current In		Article No.
	1	Up to 1000 A		3WL9111-0AN01-0AA0
mall and it		1250 1600 A		3WL9111-0AN02-0AA0
and a second	2 ³⁾	Up to 2000 A		3WL9111-0AN03-0AA0
2000 0000		Up to 2500 A		3WL9111-0AN04-0AA0
NSE0_01013		Up to 3200 A		3WL9111-0AN05-0AA0
	3	Up to 4000 A		3WL9111-0AN06-0AA0
Front-accessible main	circuit connections, accordin	g to DIN 43673, double hole at top o	or at bottom ¹⁾	
00001	Size	Rated current In		Article No.
00000 00000 00000 00000	1	Up to 1000 A ²⁾		3WL9111-0AN07-0AA0
		1250 2000 A ⁵⁾		3WL9111-0AN08-0AA0
	2 ³⁾	Up to 2000 A		3WL9111-0AN11-0AA0
99999 99999 99999 99999 99999 99999 NSE0 01014		Up to 2500 A		3WL9111-0AN12-0AA0
		Up to 3200 A		3WL9111-0AN13-0AA0
	3	Up to 4000 A		3WL9111-0AN14-0AA0
Supports for front and	DIN connecting bars			
	Number of poles	Size		Article No.
	3-pole for 3 bars	1		3WL9111-0AN41-0AA0
fa fa f ₩		2		3WL9111-0AN42-0AA0
		3		3WL9111-0AN43-0AA0
<u>)</u>	4-pole for 4 bars	1		3WL9111-0AN44-0AA0
NAME_STATE		2		3WL9111-0AN45-0AA0
		3		3WL9111-0AN46-0AA0
Rear vertical main con				
	Size	Rated current In	Terminal pieces	Article No.
	1	Up to 1000 A ²⁾ 1250 2000 A ⁵⁾		3WL9111-0AN15-0AA0
NSE0_01015	2			3WL9111-0AN16-0AA0
	2	Up to 2000 A ³⁾ Up to 2500 A ³⁾		3WL9111-0AN17-0AA0 3WL9111-0AN18-0AA0
		Up to 3200 A ³⁾		3WL9111-0AN21-0AA0
		1600 3200 A ⁴)		3WL9111-0AN38-0AA0
	3	Up to 5000 A		3WL9111-0AN22-0AA0
	5	Up to 6300 A	3 units for 3-pole switches	3WL9111-0AN23-0AA0
		Up to 6300 A, top	4 units for 4-pole switches	3WL9111-0AN20-0AA0
		Up to 6300 A, bottom	4 units for 4-pole switches	3WL9111-0AN10-0AA0
Rear horizontal main o	connections			
	Size	Rated current In		Article No.
	1	Up to 1000 A ²⁾		3WL9111-0AN32-0AA0
		1250 2000 A ⁵⁾		3WL9111-0AN33-0AA0
	2	Up to 2000 A ³⁾		3WL9111-0AN34-0AA0
		Up to 2500 A ³⁾		3WL9111-0AN35-0AA0
		Up to 3200 A ³⁾		3WL9111-0AN36-0AA0
		1600 3200 A ⁴⁾		3WL9111-0AN47-0AA0
	3	Up to 5000 A		3WL9111-0AN37-0AA0
Connecting flange				
\leftarrow	Size	Rated current I _n		Article No.
	1	Up to 1000 A ²⁾		3WL9111-0AN24-0AA0
		1250 2000 A ⁵⁾		3WL9111-0AN25-0AA0
NSE0_OTOTO	2 ³⁾	Up to 2000 A		3WL9111-0AN26-0AA0
NSEO USE		Up to 2500 A		3WL9111-0AN27-0AA0
\rightarrow		Up to 3200 A		3WL9111-0AN28-0AA0
	3	Up to 4000 A		3WL9111-0AN31-0AA0

¹⁾ When using front-accessible main connections (withdrawable circuit breakers) supports are required.
 ²⁾ Not for 3WL1 size 1 with high breaking capacity H
 ³⁾ Not for circuit breakers with very high breaking capacity C.

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

⁵⁾ Can be used for size 1 with H breaking capacity of 630 A ... 2000 A.

Conversion kit

Conversion kit for converting fixed-mounted circuit breakers into withdrawable circuit breakers			
		ct modules must be ordered separately. d to withdrawable is not possible for 3WL1 circuit breakers with very	
	Number of poles	Size	Article No.
	3-pole	1	3WL9111-0BC11-0AA0
		2	3WL9111-0BC12-0AA0
		3	3WL9111-0BC13-0AA0
	4-pole	1	3WL9111-0BC14-0AA0
		2	3WL9111-0BC15-0AA0
		3	3WL9111-0BC16-0AA0

Main contact elements

Main contact elements ^{2) 4)}			
NSE0_01021	 Specified for (depending) 	reaker ID No. must be specified when ordering ³⁾ reach connection on the number of poles on the circuit breaker, order 3 or 4 units) rautomatically adapted to the circuit breaker ID No.	
	Size	I _{n max.}	Article No.
	1	Up to 1600 A ¹⁾	3WL9111-0AM90 L1Y
	2	Up to 2500 A	3WL9111-0AM91 L1Y
		Up to 4000 A	3WL9111-0AM92 L1Y
	3	Up to 6300 A	3WL9111-0AM93 L1Y

Not for size 1 circuit breakers with breaking capacity H and circuit breakers with I_n=2000A.
 Not for circuit breakers with very high breaking capacity C.
 Please specify the circuit breaker ID No. in plain text when ordering.
 Replacement of the main contact elements for 3WL1 circuit breakers with very high breaking capacity C is only possible at the factory.

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For customers with a seat or registered office outside Germany, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
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- for other supplies of hard- and software the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

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Illustrations are not binding.

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¹⁾ The text of the Terms and Conditions of Siemens AG can be downloaded at https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

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Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology Tender specifications Conversion tool Image database CAx download manager Newsletter system Siemens YouTube channel Brochures / catalogs Operating instructions / manuals Siemens Industry Online Support Siemens Industry Online Support app My Documentation Manager (MDM) Configurators Siemens Industry Mall - product catalog and online ordering system Direct forwarding to the Industry Mall Training Local contacts **Technical Support** Information on services Manual for the generation, transmission and distribution of electrical energy Control panels for the North American market Control panel building Energy savings and amortization **Energy Suite** SITOP power supplies Power distribution with Totally Integrated Power

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Catalogs and further information



LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

PDF (E86060-K8280-A101-B1-7600) Print (E86060-K8280-A101-A6-7600)

Air Circuit Breakers and Molded Case

Circuit Breakers with UL Certification

PDF (E86060-K8280-E347-A4-7600)



LV 14 Power Monitoring Made Simple SENTRON PDF/Print (E86060-K1814-A101-A6-7600)



ET D1 Switches and Socket Outlets DELTA PDF



IC 10 Industrial Controls SIRIUS

LV 18

SENTRON

PDF/Print (E86060-K1010-A101-B1-7600)



Industry Mall Information and Ordering Platform on the Internet:

www.siemens.com/industrymall



Siemens TIA Selection Tool for the selection, configuration and ordering of TIA products and devices

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The catalogs listed above and additional catalogs are available in PDF format at Siemens Industry Online Support www.siemens.com/lowvoltage/catalogs Further information on low-voltage power distribution and electrical installation technology is available on the Internet at

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