

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.

Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from the switchboard to the socket outlet.



Catalog · 12/2020

You will find the latest edition and all future editions in the Siemens Industry Online Support at www.siemens.com/lowvoltage/catalogs

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 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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3WA Air Circuit Breakers

Protecting

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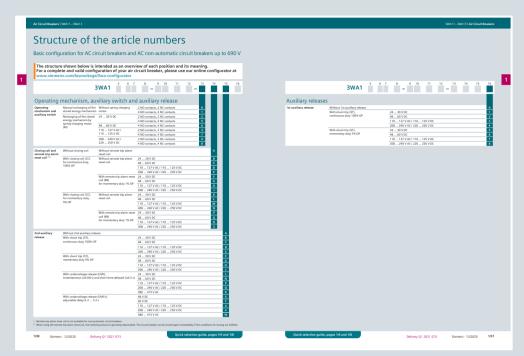
1

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Α

The fast route to the product

Overview of configurable products for better orientation



Configurable products

For products which are conveniently configurable online, the structure of the article numbers is clearly displayed. A link takes you directly to the configurator which permits complete and valid configuration.



Catalog LV 10 · 10/2020

You will find the entire range of products for low-voltage power distribution and electrical installation technology in Catalog LV 10 · 10/2020 at www.siemens.com/lowvoltage/catalogs (109482234)

Clickable article numbers

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.

3WA air circuit breaker. Made for makers. Simply reliable.



In an age of climate change, cost pressure and digitalization, the new 3WA air circuit breaker makes the electrical infrastructure more reliable, efficient and intelligent – for the benefit of everyone who plans, implements or uses it.

Whether a solid, traditional system is required or a communication-capable installation connected to the cloud, the air circuit breaker provides an individual solution for every case. It is a tried and tested quality product that provides reliable protection as a central component of the switchboard. It meets the highest standards in applications and for usability. It is a complete system consisting of integrated low-voltage components of the SENTRON portfolio to achieve perfect interaction in the switchboard.

The 3WA air circuit breaker is therefore the heart of future-proof, high-performance and long-life power distribution.

The 3WA air circuit breaker continues the globally acknowledged tradition at Siemens for circuit breakers with a high standard of quality and reliability. As the next evolutionary step, decisive aspects of its mechanical and electronic design have been improved. This adds new, sophisticated features that meet current market trends and set new standards.

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3WA air circuit breaker continues the Siemens tradition

Choose the 3WA air circuit breaker now. Thanks to web-based upgrades, you will be able to cover all future technological requirements at any time. The combination of a robust mechanism, resilient electronics and automated diagnostics increases the real service life of the circuit breakers, if they are properly maintained, potentially to up to 30 years – and the life cycle costs of installations are greatly reduced.

Highlights:

- The 3WA air circuit breaker puts power distribution into the Internet of Things (IoT) and literally carries its intelligence inside it. All data about power, power quality and circuit breaker status can be measured and included in automation, cloud-based energy management and medium-voltage systems. Based on transparent energy data, the energy efficiency can be improved by up to 30%.
- Protection and metering functionality in one device reduces the space requirement and wiring complexity in the installation.
- Protection algorithms are automatically adapted to the direction of power flow. Distributed power networks such as buildings, infrastructure and industrial plants that produce electricity themselves, store it and feed it into the power system are optimally protected in this way.
- Several million circuit breaker variants can already be generated virtually in 3D and 2D as part of planning. The wiring is planned at the press of a button. This saves several hours of work.
- Features and upgrades can then simply be downloaded from the Internet and imported.
- The robust circuit breaker withstands voltage fluctuations and thus minimizes the risk of faults in the installation. Penalties imposed on system operators for power outages are reduced.

3WA air circuit breaker. Made for makers. Simply reliable.



Trust the tried-and-tested.

Equipped with the rock-solid 3WA air circuit breaker, you can deliver the reliable protection that is generally expected in power distribution.



- Integrated, clearly structured portfolio that covers all requirements and makes the circuit breakers versatile.
- Extensive, modular accessories that make functional expansions easy.
- Proof of breaking capacity with voltage tolerance 690 V +10%. (The circuit breaker standard IEC 60947-2 only requires +5%).
- Long service life with low maintenance for long-lasting reliability.
- Additional test functionality of the electronic trip unit (ETU) for continuous self-monitoring, simple full-range verification of the trip characteristic curves via USB and automatic creation of test reports for documentation purposes.



Benefit from efficiency.

Equipped with the sophisticated 3WA air circuit breaker, you can efficiently meet the highest demands.



- Enhanced protective functions and high selectivity that ensure high availability of the installation.
- Robust mechanics and unbeatable product quality that proves its value even in challenging applications. Highest load capability of the circuit breaker on disconnecting prolonged short-time currents ICW with a duration of up to 3 s. Top performance for operating voltages up to 1150 V AC and ambient temperatures of –40 ... +70 °C.
- Replacement as part of installation planning is simple: The 3WL air circuit breaker can be replaced by the 3WA air circuit breaker according to IEC 61439 without any additional testing if it is operated subject to the same technical requirements.
- Simple, easy, time-saving and cost-saving replacement of 3WL air circuit breakers with the 3WA air circuit breaker in the switchboard.



Create solutions with potential.

Equipped with the pioneering 3WA air circuit breaker, you can easily implement digitalization and automation.



- Individually selectable and subsequently upgradable functionality that provides long-term flexibility. The electronic trip unit ETU600 can be simply upgraded over its entire product life cycle with digital function packages.
- Powerful communication options that transfer data securely. The main focus here is on cyber security. Simultaneous use of two communication protocols in one communication module with switched Ethernet functionality (PROFINET for demanding industrial communication and Modbus TCP for e.g. power monitoring).
- Simple integration into energy management systems in accordance with ISO 50001.
- Selection of the metering functionality according to the energy efficiency standard IEC 60364-8-1.



Enjoy seamless consistency.

Equipped with the 3WA air circuit breaker and the SENTRON portfolio, you can create synergies for your switchgear panels.



- Seamless communication between all low-voltage components enables use of standardized tools and consistency in the data.
- The extensive tool landscape and provision of all necessary engineering data simplifies selection, planning, ordering, configuration and commissioning.
- Less work thanks to data-based engineering.
- Simple and quick planning with SIMARIS software tools, e.g. for verifying the selectivity of the entire power distribution.



the basis for a holistic energy system in the digital

age.

3WA Air Circuit Breakers

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A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about 3WA air circuit breakers, please visit our website

www.siemens.com/3WA



👤 Contact persons in your region

We are there when you need us

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



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Quick selection guide 3WA air circuit breakers (109781967)
- Brochure 3WA air circuit breakers (109781968)

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



Our video range

Siemens YouTube channel

• Power Distribution Low Voltage (EN) bit.ly/3iiuhXS



Everything you need for your order

Refer to the Industry Mall for an overview of your products

• 3WA air circuit breakers sie.ag/3heeyYv

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/3wa-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

SENTRON powerconfig

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

Free download SENTRON powerconfig mobile via: **App Store and Play Store**



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



Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

• Equipment manual – 3WA air circuit breakers (109763061)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

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



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 (109781188)

Switching devices for AC and DC

IEC 60947-2

				_			A	_				
				3WA	11				3WA12			
Basic data												
Rated operational voltage U _e		V		≤100					≤1150			
Rated current I _n		Α		630 :	2500			2	000 400	0		
Size			1400-1-1	1			140.1		2			
Type of mounting			Withdra	wable		ed- inted	With	ndrawable		Fixed- mounted		
Number of poles			3/4-p	ole	3/4-	pole	3	/4-pole		3/4-pc	ole	
Dimensions												
Width (3-pole 4-pole)		mm	320 4			410		60 590		460 5		
Height (for breaking capacity N, S, M, H and D C and E)		mm	468 5			462	4	68 518		437 4		
Depth		mm	471	l	3:	57		471		357		
Approvals General product approvals			\/DE E	AC CC	C, CE, C-	Tick		VDE EA	AC, CCC, CE	C-Tick		
Marine / shipbuilding			ABS, DNV				AB		LRS, BV, PF		ИRS	
			,	RMF		.,,		, , ,		.,,		
Breaking capacity			N	S	M	E	S	M	Н	С	Е	
Rated short-circuit breaking capacity												
I _{cu} I I _{cs} at U _e up to 415/440 V AC		kA	55 55		85 85		66 66	85 85	100 100			
$I_{cu} \mid I_{cs}$ at U_e up to 500 V AC		kA	55 55	66 66	85 85	-1-	66 66	85 85	100 100	130 130	-1-	
I _{cu} I _{cs} at U _e up to 690 V AC		kA	42 42	50 50	66 66	85 85	50 50	66 66	85 85	100 100	85 85	
$I_{cu} I_{cs}$ at U_e up to 1000 V AC		kA	- -	- -	- -	50 50	- -	- -	- -	- -	85 85	
I _{cu} I _{cs} at U _e up to 1150 V AC		kA	- -	- -	- -	- -	- -	- -	- -	- -	50 50	
Rated short-circuit making capacity U _e												
I _{cm} at U _e up to 415 V AC		kA	121	145	187	-	145	187	220	286	-	
I _{cm} at U _e up to 500 V AC		kA	121	145	187	-	145	187	220	286	-	
I _{cm} at U _e up to 690 V AC		kA	88	105	145	187 105	105	145	187	220	187	
I_{cm} at U_e up to 1000 V AC I_{cm} at U_e up to 1150 V AC		kA kA	_	_	_	-	_	_	_	_	187 105	
Rated short-time withstand current I _{cw} 1)		N/1			_						103	
I _{cw} at U _e up to 500 V AC	0.5 s	kA	55	66	85	-	66	85	100	100	-	
CW C I	1 s	kA	50	66	85	-	66	85	85	100	-	
	2 s	kA	35 ²⁾ /45 ³⁾	45	70	-	66	66 ⁴⁾ /85 ⁵⁾	66 ⁴⁾ /85 ⁵⁾	85	-	
	3 s	kA	30 ²⁾ /35 ³⁾	35	60	-	55 ⁴⁾ /66 ⁵⁾	55 ⁴⁾ /75 ⁵⁾	55 ⁴⁾ /75 ⁵⁾	75	-	
I _{cw} at U _e up to 690 V AC	0.5 s	kA	42	50	66	85	50	66	85	100	85	
	1 s	kA	42	50	66	85	50	66	85	100	85	
	2 s	kA	35 ²⁾ /42 ³⁾		66	70	50	66	66 ⁴⁾ / 85 ⁵⁾		66 ⁴⁾ /85 ⁵⁾	
	3 s	kA	30 ²⁾ /35 ³⁾		60	60	50		55 ⁴⁾ /75 ⁵⁾		55 ⁴⁾ /75 ⁵⁾	
I _{cw} at U _e up to 1000 V AC	0.5 s	kA	-	-	-	50	-	-	-	-	85	
	1 s 2 s	kA kA	-	_	-	50 50	-	_	-	_	85 66 ⁴⁾ / 85 ⁵⁾	
	3 s	kA	_	_	_	50	_	_	_	_	55 ⁴⁾ /75 ⁵⁾	
I _{cw} at U _e up to 1150 V AC	0.5 s	kA	_	_	_	-	_	_	_	_	50	
CW 6 - F	1 s	kA	-	_	_	_	-	-	-	-	50	
	2 s	kA	-	-	-	-	-	-	-	-	50	
	3 s	kA	_	-	-	-	-	-	-	-	50	
I _{cw} at U _e up to 220 V DC	1 s	kA	-	-	-	-	-	-	-	-	-	
I _{cw} at U _e up to 300 V DC	1 s	kA	-	-	-	-	-	-	-	-	-	
I _{cw} at U _e up to 600 V DC	1 s	kA	-	-	-	-	-	-	-	-	-	
I _{cw} at U _e up to 1000 V DC	1 s	kA	_	_	_	_	_	-	_	_	_	

AC

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 $^{^{1)}}$ At rated operational voltage $\rm U_e \ge 690~V$, the $\rm I_{cw}$ value of the circuit breaker corresponds to the I_{cu} or I_{cs} value

²⁾ Size 1 with $I_{n \text{ max}} \le 1250 \text{ A}$ ³⁾ Size 1 with $I_{n \text{ max}} \ge 1600 \text{ A}$

⁴⁾ I_{n max} ≤2500 A ⁵⁾ I_{n max} ≥3200 A

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	3WA13			3W/	A12		
	347713			5117	112		
	≤1150			≤600 /	1000		
	4000 6300			1000			
	3			2			
Withdrawable	!	Fixed- mounted	Withd	rawable		ed- nted	
3/4-pole		3/4-pole	3/4	-pole			
эл-рые		5/ 1- pole	517	Pole	3/4-pole		
704 914		704 914	460) 590	460	590	
468 518		437 462		3 518		1462	
471		357		171		57	
	VDE, EAC, CCC, CE, C-Tick			VDE, EAC, CO	CC, CE, C-Tick		
Al	BS, DNV, GL, LRS, BV, PRS, CCS, RM	DNV, GL, LRS, BV, PRS, CCS, RMRS			BV, PRS, CCS, RMR	S	
Н	С	Е	D	E	D	Е	
- -	- -	- -	- -	- -	- -	- -	
100 100	150 150 (3-pole);	- -	- -	- -	- -	- -	
	130 130 (4-pole)						
85 85	150 150 (3-pole); 130 130 (4-pole)	150 150 (3-pole); 130 130 (4-pole)	- -	- -	- -	-1-	
- -	-1-	125 125	- -	- -	- -	- -	
- -	-1-	70 70	- -	- -	- -	- -	
220	330 (3-pole); 286 (4-pole)	-	-	-	-	-	
220	330 (3-pole); 286 (4-pole)	-	-	-	-	-	
187	330 (3-pole); 286 (4-pole)	330 (3-pole); 286 (4-pole)	-	-	-	-	
-	-	275	-	-	-	-	
-	-	154	-	-	-	-	
100	130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole)	-	-	-	-	
100	130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole)	_	_	_	_	
100 100	130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole)	_	-	-	-	
85	130 (3-pole); 120 (4-pole) 130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole) 130 (3-pole); 120 (4-pole)				_	
85	130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole)	_	_	_	_	
85	130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole)	_	_	_	_	
85	130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole)	_	_	_	_	
	- -	125 (3-pole); 120 (4-pole)	_	_	_	_	
_	_	125 (3-pole); 120 (4-pole)	_	_	-	-	
-	_	125 (3-pole); 120 (4-pole)	_	_	_	-	
-	-	125 (3-pole); 120 (4-pole)	-	-	-	-	
-	-	70 70	-	-	-	-	
-	-	70 70	-	-	-	-	
-	-	70 70	-	-	-	-	
-	-	70 70	-	-	-	-	
-	-	-	35	-	35	-	
-	-	-	30	-	30	-	
_	_	_	25	_	25	_	

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Switching devices for AC and DC

IEC 60947-2 (continued)

				3WA	11		3WA12					
Breaking capacity			N	S	М	E	S	М	Н	С	E	
Rated conditional short-circuit current I _{cc} of the non-auto	matic air circ	cuit bre	akers									
Up to 500 V AC		kA	55	66	85	-	66	85	100	100	-	
Up to 690 V AC		kA	42	50	66	85	50	66	85	100	85	
Up to 1000 V AC		kA	-	-	-	50	-	-	-	-	85	
Up to 1150 V AC		kA	-	-	_	-	-	-	-	-	50	
Up to 220 V/300 V DC		kA	-	_	-	-	-	-	-	-	-	
Up to 600 V/1000 V DC		kA	-	-	-	-	-	-	-	-	-	
IT system capability												
1-pole short-circuit breaking capacity I _{IT} acc to.	≤500 V	kA	50	50	50	-	50	50	50	50	-	
IEC 60947-2 Annex H	≤690 V	kA	-	-	-	50	-	-	-	-	50	
	1000 V	kA	-	-	-	-	-	-	-	-	-	

AC





	3WA13		3WA12						
н	С	E	D	E	D	E			
100	130 (3-pole); 120 (4-pole)	-	-	-	-	-			
85	130 (3-pole); 120 (4-pole)	130 (3-pole); 120 (4-pole)	-	-	_	-			
-	-	125 (3-pole); 120 (4-pole)	-	-	-	-			
-	-	70	-	-	-	-			
_	-	-	35/30	-/-	35/30	-1-			
-	-	-	25/-	-/20	25/-	-/20			
50	50	-	-	-	-	-			
-	-	50	-	-	-	-			
-	-	-	-	-	-	-			

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Switching devices for AC

IEC 60947-2



Rated current I _n			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A		
General data											
Isolating function acc. to EN 60947-2						Yes					
Utilization category	Utilization category					В					
Permissible ambient temperature	Operation	°C				-40 +70)				
	Storage	°C	-40 +80								
Mounting position				S 30°							
Degree of protection			IP20) without c		et door, IP		or sealing fra	ime,		
Voltage											
Rated operational voltage U _e at 50/60 Hz	1000 V version	V AC				≤1000					
Rated insulation voltage U _i		V AC				1000					
Rated impulse withstand voltage	Main conducting paths	kV				12					
U _{imp}	Auxiliary circuits	kV				4					
•	Control circuits	kV				2.5					
Permissible load											
Permissible load for withdrawable	versions										
For all connection types	Up to 55 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	-		
(except rear vertical main	Up to 60 °C (Cu bare)	Α	630	800	1000	1250	1600	1930	_		
connections)	Up to 70 °C (Cu bare)	Α	630	800	1000	1210	1490	1780	_		
With rear vertical connections	Up to 55 °C (Cu bare)	А	630	800	1000	1250	1600	2000	2500		
	Up to 60 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	2500		
	Up to 70 °C (Cu bare)	Α	630	800	1000	1250	1545	1855	2215		
Permissible load for fixed-mounted	versions										
For all connection types	Up to 55 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	-		
(except rear vertical main	Up to 60 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	-		
connections)	Up to 70 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	-		
With rear vertical connections	Up to 55 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	2500		
	Up to 60 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	2500		
	Up to 70 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	2500		
Power loss at I _n											
With three-phase symmetrical load	Fixed-mounted circuit breaker	W	30	45	70	105	135	240	360		
with maximum rated current, complete device (3/4p)	Withdrawable circuit breaker	W	55	85	130	205	310	440	600		

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2000 A	2500 A	3200 A	4000 A	4000 A	5000 A	6300 A			
	Ye			Yes					
	E			В					
	-40				-40 +70				
	-40	h max 0.04 in max			-40 +80				
× 30°	\$ 30° \$ 30°	\$ 30°							
IP20 wit	hout control cabinet doc		IP20 without contro	ol cabinet door, IP41 with	door sealing frame,				
	IP55 wit	th cover			IP55 with cover				
		150			4450				
	≤11	150			≤1150				
	≤11	150			≤1150				
	1	2			12				
	4				4				
	2.	.5			2.5				
2000	2500	2200		4000	5000				
2000	2500	3200	-	4000	5000	-			
2000	2500	3020	-	4000	5000	-			
2000	2280 2500	2870 3200	4000	4000 4000	5000 5000	5920			
2000	2500		3910						
		3200 2945		4000	5000	5810			
2000	2390	2945	3645	4000	5000	5500			
2000	2500	3200	_	4000	5000	-			
2000	2500	3200	_	4000	5000				
2000	2500	3200	_	4000	5000	_			
2000	2500	3200	4000	4000	5000	6300			
2000	2500	3200	4000	4000	5000	6300			
2000	2500	3200	4000	4000	5000	5920			
2000	2300	3200	4000	4000	3000	3920			
180	270	410	750	520	630	900			
320	520	710	1040	810	1050	1600			
320	320	710	1010	010	1030	1000			

Switching devices for AC

IEC 60947-2 (continued)

3	V	V	4	1	•
i	N.P.	9	riby.	F.	
١			1	-	
					ŀ

						D'AND			
Rated current I _n			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
Switching times									
Closing time		ms				35			
Opening time		ms				38			
Electrical closing time (through closi	na coil)	ms				80 / 50 ¹⁾			
Electrical opening time (through shu		ms				73			
Electrical opening time (instantaneo		ms				73			
Opening time due to ETU, instantant	•	ms				50			
Service life/endurance									
Breaking capacity N, 3/4-pole									
Mechanical	Without maintenance	Operating cycles				15000			
	With maintenance 2)	Operating cycles				30000			
Electrical	Without maintenance 690 V	Operating cycles				10000			
	With maintenance 2)	Operating cycles				30000			
Breaking capacity S, 3/4-pole									
Mechanical	Without maintenance	Operating cycles				15000			
	With maintenance 2)	Operating cycles				30000			
Electrical	Without maintenance 690 V	Operating cycles				15000			
	With maintenance 2)	Operating cycles				30000			
Breaking capacity M, 3/4-pole									
Mechanical	Without maintenance	Operating cycles				10000			
<u></u>	With maintenance 2)	Operating cycles				15000			
Electrical	Without maintenance 690 V	Operating cycles				7500			
	With maintenance 2)	Operating cycles				15000			
Breaking capacity E, 3/4-pole									
Mechanical	Without maintenance	Operating cycles				10000			
	With maintenance 2)	Operating cycles				15000			
Electrical	Without maintenance 690 V	Operating cycles				7500			
	Without maintenance 1000 V	Operating cycles				1000			
	Without maintenance 1150 V	1 3 3				_			
	With maintenance 2)	Operating cycles				15000			
Breaking capacity H, 3/4-pole									
Mechanical	Without maintenance	Operating cycles				-			
EL . C. I	With maintenance 2)	Operating cycles							
Electrical	Without maintenance 690 V	Operating cycles				_			
Prophing conscitute 214 pale	With maintenance 2)	Operating cycles							
Breaking capacity C, 3/4-pole Mechanical	Without maintenance	Operating cycles							
Mechanical	With maintenance 2)	Operating cycles				_			
Flectrical	Without maintenance 690 V	Operating cycles							
Electrical		Operating cycles				_			
On a making a fine manager	With maintenance 690 V ²⁾	Operating cycles							
Operating frequency									
Breaking capacity N and S									
Electrical	3-pole	1/h				45			
	4-pole	1/h				60			
Breaking capacity M, H and C		4.0				60.165			
Electrical	3/4-pole	1/h				60 / 60			
Breaking capacity E	24					20.:			
Electrical	3/4-pole	1/h				20 / 20			

 $^{^{1)}}$ Closing time through closing coil for momentary duty for synchronization purposes = 50 ms

Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual: www.siemens.com/lowvoltage/manuals).

3WA12 3WA13





2000 A	2500 A	3200 A	4000 A	4000 A	5000 A	6300 A
	25				25	
	35 34				35 34	
	100				100	
	73					
	/3				73	
	73				73	
	50				50	
	-				-	
	_				_	
	-				-	
	-				-	
	4000					
	1000				-	
7500	2000		2000			
7500	7500	4000	2000		-	
	2000	00			-	_
	1000)()			_	
	2000				_	
7500	7500		2000		_	
	2000				_	
	1000	00			5000	
	2000				10000	
7500	7500		2000		2000	
	100				1000	
	500)			500	
	2000	00			10000	
	1000	00			7500	
	2000	00			15000	
7500	7500	4000	2000		2000	
20000	20000	20000	20000		15000	
	500				5000	
	1000	00			10000	
5000	5000	4000	1000		1000	
10000	10000	10000	10000		10000	
	45				-	
	60				-	
	60 / 6	60			60 / 60	
	20/2	20			20 / 20	

Switching devices for AC

IEC 60947-2 (continued)



Rated current I _n			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A			
Connection												
Main conductor minimum cross-section	ons											
Copper bars, bare	Copper bars, bare Unit, mm ²				1× 40×10 1× 50×10 1× 60×10 2× 40×10 2× 50×10 3× 50×10 4× 50×10							
Copper bars, painted black Unit, mm ²				1×40×10 1×50×10 1×60×10 2×40×10 2×50×10 3×50×10 4×50×10								
Auxiliary conductor (Cu) max. number of auxiliary conductors × cross-section (solid/												
Standard connection = push-in	Without end sleeve				2× 0.5 2	.5 mm ² (AV	VG 20 14)				
With end sleeve acc. to DIN 46228 Part 2				2× 0.5 2	.5 mm² (AV	VG 20 14)					
	With twin end sleeve			2× 0.5 1.5 mm ² (AWG 20 16)								
	Stripped length			10 12 n	nm (0.39	0.47 inch)						
Optional connection with screw	Without end sleeve				2× 0.5 2	.5 mm ² (AV	VG 20 14)				
connection	With end sleeve acc. to DIN 46228 F	Part 2	1× 0.5 1.5 mm² (AWG 20 16)									
	With twin end sleeve				1× 0.5 1	.5 mm ² (AV	VG 20 16)				
	Stripped length				7 8 mr	m (0.28 (0.31 inch)					
Position signaling switch												
Spring-loaded terminals for standard	Without end sleeve		0.08 2.5 mm² (AWG 20 12)									
signaling contacts	With end sleeve acc. to DIN 46228 F	Part 2	0.25 1.5 mm²									
	Stripped length		5 6 mm (0.2 0.24 inch)									
Push-in connection for communication	Without end sleeve				0.14 1.5	5 mm² (AW	G 20 16)					
signaling contacts	With end sleeve acc. to DIN 46228 F	Part 2			0.25 1.5	5 mm² (AW	G 20 16)					
	Stripped length				9 r	mm (0.35 ir	nch)					
Weights												
3-pole	Fixed-mounted circuit breaker	kg	43	43	43	43	43	43	43			
	Withdrawable circuit breaker	kg	45	45	45	45	45	45	45			
	Guide frames	kg	25	25	25	25	25	25	25			
4-pole	Fixed-mounted circuit breaker	kg	50	50	50	50	50	50	50			
	Withdrawable circuit breaker	kg	54	54	54	54	54	54	54			
	Guide frames	kg	30	30	30	30	30	30	30			

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2000 A	2500 A	3200 A	4000 A	4000 A	5000 A	6300 A	
3× 50×10	2× 100×10	3× 100×10	4× 120×10	4× 100×10	6× 100×10	6× 120×10	
3× 50×10	2× 100×10	3× 100×10	4× 120×10	4× 100×10	6× 100×10	6× 120×10	
	2× 0.5 2.5 mm	` '			.5 2.5 mm² (AWG 20 .		
	2× 0.5 2.5 mm	· '			.5 2.5 mm² (AWG 20 .		
	2× 0.5 1.5 mm	` '			.5 1.5 mm² (AWG 20 .		
	<u> </u>	39 0.47 inch)			12 mm (0.39 0.47 ii		
	2× 0.5 2.5 mm	` '			.5 2.5 mm² (AWG 20 .		
	1× 0.5 1.5 mm	` '		1× 0.5 1.5 mm ² (AWG 20 16)			
1× 0.5 1.5 mm ² (AWG 20 16)				1× 0.5 1.5 mm ² (AWG 20 16)			
	7 8 mm (0.2	8 0.31 inch)		7 8 mm (0.28 0.31 inch)			
		(AWG 20 12)		0.08 2.5 mm² (AWG 20 12)			
	0.25	1.5 mm²		0.25 1.5 mm²			
	5 6 mm (0	2 0.24 inch)		5 6 mm (0.2 0.24 inch)			
	0.14 1.5 mm ²	(AWG 20 16)		0.14 1.5 mm² (AWG 20 16)			
	0.25 1.5 mm ²	(AWG 20 16)		0.25 1.5 mm² (AWG 20 16)			
	9 mm (0	.35 inch)			9 mm (0.35 inch)		
56	59	64	85	82	82	90	
60	63	68	121	88	88	96	
31	39	45	52	60	60	70	
67	71	77	103	99	99	108	
72	76	82	146	106	106	108	
37	47	54	62	84	84	119	

Switching devices for DC

IEC 60947-2





2					
Rated current I _n			1000 A	2000 A	4000 A
General data					
Isolating function acc. to EN 60947-2				Yes	
Utilization category				В	
Permissible ambient temperature	During operation	°C		-40 +70	
	(in operation with LCD max. 55 °C)	°C		40 .00	
Mounting position	Storage			-40 +80	
Mounting position			\$ 30°	2 30. 2 30. Emm 1 4.	
Degree of protection			IP20 without control	cabinet door, IP41 with IP55 with cover	n door sealing frame,
Voltage					
Rated operational voltage U _e	1000 V version	V DC		1000	
Rated insulation voltage U _i		V DC		1000	
Rated impulse withstand voltage	Main conducting paths	kV		12	
U_{imp}	Auxiliary circuits	kV		4	
·	Control circuits	kV		2.5	
Permissible load					
Permissible load for withdrawable ver	rsions				
For all connection types	Up to 40 °C (Cu bare)	Α	1000	2000	4000
(except rear vertical main connections)	Up to 55 °C (Cu bare)	Α	1000	2000	3640
	Up to 60 °C (Cu bare)	Α	1000	2000	3500
	Up to 70 °C (Cu bare)	Α	1000	1950	3250
With rear vertical connections	Up to 40 °C (Cu bare)	Α	1000	2000	4000
	Up to 55 °C (Cu bare)	Α	1000	2000	4000
	Up to 60 °C (Cu bare)	Α	1000	2000	3640
	Up to 70 °C (Cu bare)	Α	1000	2000	3400
Permissible load for fixed-mounted ve	ersions				
For all connection types	Up to 40 °C (Cu bare)	Α	1000	2000	4000
(except rear vertical main connections)	Up to 55 °C (Cu bare)	Α	1000	2000	4000
	Up to 60 °C (Cu bare)	Α	1000	2000	4000
	Up to 70 °C (Cu bare)	A	1000	2000	3900
With rear vertical connections	Up to 40 °C (Cu bare)	Α	1000	2000	4000
	Up to 55 °C (Cu bare)	Α	1000	2000	4000
	Up to 60 °C (Cu bare)	Α	1000	2000	4000
	Up to 70 °C (Cu bare)	А	1000	2000	4000
Power loss at I _n					
With three-phase symmetrical load,	Withdrawable circuit breaker	W	280	770	1640
complete device (3/4p)	Fixed-mounted circuit breaker	W	140	390	820
Switching times			-	-	
Closing time		ms	35	35	35
Opening time	10	ms	34	34	34
Electrical closing time (through closing of		ms	100	100	100
Electrical opening time (through shunt t		ms	73	73	73
Electrical opening time (instantaneous u	indervoitage release)	ms	73	73	73

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3WA12



				-			
Rated current I _n			1000 A	2000 A	4000 A		
Service life/endurance							
Breaking capacity D, 3/4-pole							
Mechanical	Without maintenance	Operating cycles	10000	10000	10000		
	With maintenance 1)	Operating cycles	20000	20000	20000		
Electrical	Without maintenance 600 V	Operating cycles	6000	6000	4000		
	With maintenance 1)	Operating cycles	20000	20000	20000		
Breaking capacity E, 3/4-pole		,					
Mechanical	Without maintenance	Operating cycles	10000	10000	10000		
	With maintenance 1)	Operating cycles	20000	20000	20000		
Electrical	Without maintenance 1000 V	Operating cycles	1000	1000	1000		
	With maintenance 1)	Operating cycles	20000	20000	20000		
Operating frequency							
Breaking capacity D							
Electrical	3/4-pole	1/h	60 / 60	60 / 60	60 / 60		
Breaking capacity E							
Electrical	3/4-pole	1/h	20 / 20	20 / 20	20 / 20		
Connection							
Main conductor minimum cross-section	ons						
Copper bars, bare		Unit, mm²	1× 50 × 10	2× 50 x 10	3 x 100 x 10 on the infeed and outgoing side; 6 x 250 x 500 x ! for jumpers		
Copper bars, painted black		Unit, mm ²	1× 50 x 10	2× 50 x 10	3 x 100 x 10 on the infeed and outgoing side; 6 x 250 x 500 x for jumpers		
Auxiliary conductor (Cu) max. numbe	r of auxiliary conductors × cross-	section (solid/str	randed)				
Standard connection = push-in	Without end sleeve		2× 0.5 2.5 mm ² (AWG 20 14)				
	With end sleeve acc. to DIN 4622	28 Part 2	2× 0.5 2.5 mm² (AWG 20 14)				
	With twin end sleeve		2× 0.	5 1.5 mm ² (AWG 20	16)		
	Stripped length		10.	12 mm (0.39 0.47	inch)		
Optional connection with screw	Without end sleeve		2× 0.5 2.5 mm² (AWG 20 14)				
connection	With end sleeve acc. to DIN 4622	28 Part 2	1× 0.	5 1.5 mm ² (AWG 20	16)		
	With twin end sleeve		1× 0.	5 1.5 mm ² (AWG 20	16)		
	Stripped length		7 8 mm (0.28 0.31 inch)				
Position signaling switch							
Spring-loaded terminals for standard	Without end sleeve		0.08	3 2.5 mm² (AWG 20 .	12)		
signaling contacts	With end sleeve acc. to DIN 4622	28 Part 2		0.25 1.5 mm²			
	Stripped length			6 mm (0.2 0.24 ir			
Push-in connection for communication	Without end sleeve			1 1.5 mm² (AWG 20			
signaling contacts	With end sleeve acc. to DIN 4622	28 Part 2	0.25	5 1.5 mm² (AWG 20 .	16)		
	Stripped length			9 mm (0.35 inch)			
Weights							
3-pole	Fixed-mounted circuit breaker	kg	56	56	64		
	Withdrawable circuit breaker	kg	60	60	68		
	Guide frames	kg	31	31	45		
4-pole	Fixed-mounted circuit breaker	kg	67	67	77		
	Withdrawable circuit breaker	kg	72	72	82		
	Guide frames	kg	37	37	54		

¹⁾ Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual: www.siemens.com/lowvoltage/manuals).

Switching devices for DC

Application examples

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.

Required contact gaps at rated voltage	DC 1-pole disconnection Grounded system	DC 2-pole (all-pole) disconnection Grounded system	Non-grounded system
Rated operational voltage <300 V			
\	Load	Load	Load
Rated operational voltage >300 V 600 V			
	Load	Load	Load
Rated operational voltage >600 V 1000 V			
	Load	X X X X Load	Load X X X

Note:

DC 2-pole (all-pole) disconnection; grounded system

The grounded pole is always assigned to the individual conducting path, so that, in the event of a ground fault, there are always 2 conducting paths in series in a circuit with 3-pole circuit breakers and 3 conducting paths in series in a circuit with 4-pole circuit breakers.

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Electronic trip unit ETU600

Protective functions

ETU600 LSI, ETU600 LSIG,	ETU600 LSIG Hi-Z		Current metering	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Protective function	Setting range	Setting values with rotary switch				
L: Overload protection LT						
Tripping operation	Can be switched on/off					-
Current setting I _r	0.4 1.0 × I _n	0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1.0 x I _n	•	•	•	•
Tripping time t_r at $6 \times I_r$	For I ² t: 0.5 30 s and at I ⁴ t: 0.5 5 s	1/2/5/8/10/14/17/21/25s		•	•	•
Characteristic LT curve	I²t and I⁴t					
Thermal memory	Can be switched on/off					
Cooling time constant	10 and 18 x t _r					
Phase failure detection	Can be switched on/off					
Overload pre-alarm PAL	Can be switched on/off					
Current setting I _{r PAL}	0.7 1.0 x I _r					
Delay time t _{r PAI}	0.5 1.0 x t _r					
L: Overload protection LT, n	eutral conductor					
Tripping	Can be switched on/off					
Current setting I _N	$0.2 2.0 \times I_n$ for 4-pole	circuit breakers max. I _{nmax}			-	
Current setting I _{N PAL}	0.7 1.0 × I _N	111102				
S: Delayed short-circuit prot						
Tripping	Can be switched on/off					-
Current setting I _{sd}	0.6 x I _n 0.8 x I _{cw}	1.5/2/2.5/3/4/5/6/8/10xI _r				
Tripping time t _{sd}	0.02 0.4 s	For Fix: 0.08 / 0.15 / 0.22 / 0.3 / 0.4 s For I ² t: 0.1 / 0.2 / 0.3 / 0.4 s	•	•	•	•
Characteristic ST curve	I ⁰ t and I ² t					
Reference point I _{ST ref}	6-12 x I _r					
Intermittent acquisition	Can be switched on/off					
S: Directed delayed short-ci	rcuit protection dST					
Tripping	Can be switched on/off					
Current setting I _{sd} FW	0.6 x I _n 0.8 x I _{cw}					
Current setting I _{sd} REV	0.6 x I _n 0.8 x I _{cw}					
Tripping time t _{sd} FW	0.05 0.4 s					
Tripping time t _{sd} REV	0.05 0.4 s					
I: instantaneous short-circu	it protection INST					
Tripping	Can be switched on/off					
Current setting I _i	1.5 x I _n 0.8 x I _{cs}	1.5/2/3/4/6/8/10/12/15 x I _n				
Reverse power protection R						
Tripping	Can be switched on/off					
Setting value P _{RP}	0.05 0.5 × P _n					
Tripping time t _{RP}	0.01 25 s					
Enhanced protective function	ons EPF					
Unbalance (voltage, current)						
Harmonic distortion					-	
Voltage						
Active power					-	
Frequency					-	
Phase rotation					-	
DAS+ dynamic arc sentry						
Current setting I _{i DAS+}	1.5 10 x I _n					
Current setting I _{g DAS+}	With LSIG GFx option plu Residual: - Sizes 1 and 2: 100 2 - Size 3: 400 2000 A Direct: 15 2000 A		•	•	•	•
Tripping time t _{g DAS+}	0 5 s					
Second parameter set						

[■] Available, feature of the application package

[☐] Can be retrofitted

Electronic trip unit ETU600

Protective functions

ETU600 LSIG			Current metering	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Protective function	Setting range					
G: Ground fault GF						
Tripping	Can be switched on/off			-		-
Method of ground fault detection	Residual	Detection of ground-fault current via summation current formation in all phases and the N-conductor	•	•	•	•
	Direct	Direct metering of the ground-fault current with a current transformer	•	•	•	•
	Dual	Protection zone UREF: Detection of the ground-fault current by means of summation current formation, Protection zone REF: Measurement of the ground-fault current with an external current transformer	•	•	•	•
Characteristic GF curve	With LSIG GFx option plug	For Fix (I ⁰ t) / I ² t / I ⁴ t / I ⁶ t	-	•	•	-
Current setting I _g with LSIG GFx option plug	Detection method Residual	Sizes 1 and 2: 100 2000 A Size 3: 400 2000 A	•	•	•	-
	Detection method Direct	15 2000 A	•	•	•	•
Tripping time t _q	For Fix (I°t)	0 5 s	-	-	-	-
, and the second	For I ^x t at 3 x I _g	0 30 s		-		
Intermittent acquisition	Can be switched on/off			-		-
G: ground fault GF alarm						
Alarm	Can be switched on/off		-	-		-
Current setting I _{g alarm} with LSIG GFx option plug	Detection method Residual	Sizes 1 and 2: 100 5000 A Size 3: 400 5000 A	•	•	•	•
	Detection method Direct	15 5000 A	•	•	•	•
Alarm time t _{g alarm}		0 0.5 s		•	•	•

ETU600 LSIG Hi-Z			Current metering	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Protective function	Setting range					
G: Ground fault GF Hi-Z						
Tripping	Can be switched on/off			-		-
Method of ground fault detection	Residual	Detection of ground-fault current via summation current formation in all phases and the N-conductor	•	•	•	•
	Dual Hi-Z, For high-impedance connection of the external current transformers	Protection zone UREF: Detection of the ground-fault current by means of summation current formation, Protection zone REF: Measurement of the ground-fault current with an external current transformer combination	•	•	•	•
Characteristic GF curve	With LSIG GFx option plug	For Fix (I ⁰ t) / I ² t / I ⁴ t / I ⁶ t	•	•	-	•
Current setting I _g with LSIG GFx option plug	Protection zone UREF	Size 2: 100 2000 A and Size 3: 400 2000 A	•	-	-	•
	Protection zone REF	15 2000 A				
Tripping time t _g	For Fix (I°t)	0 5 s				-
-	For I ^x t 3 x I _g in protection zone UREF	0 30 s	•		•	•
Intermittent acquisition	Can be switched on/off		-	-	-	-
G: ground fault GF alarm						
Alarm	Can be switched on/off				-	
Current setting I _{g alarm} with LSIG GFx option plug	Protection zone UREF	Size 2: 100 5000 A and Size 3: 400 5000 A	•	•	•	•
Alarm time t _{g alarm}		0 0.5 s	•	•	•	•

Electronic trip unit ETU600

Operation, interfaces and metering function

ETU600		Current metering	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring	Non- automatic circuit breakers
Operation and interfaces						
Rotary switch			-	-	-	_
Display and operating keys		•				-
SENTRON powerconfig configur	ration software					-
Fieldbus communication						-
Color display		-	-	-		-
Bluetooth 1) and USB interface		-				-
Communication						
Prepared for connection of	Status messages of the circuit breaker					
a communication module (ready4COM feature)	Status messages of the electronic trip unit ETU600		•	•	•	-
	Remote operation, requires a communication module, closing coil, shunt trip		•	•	•	
Communication module COM19	90 PROFINET-IO/Modbus-TCP					
Digital input and output on	the electronic trip unit ETU600					
Parameterizable input	For activating DAS+ dynamic arc sentry or can be used for parameter set changeover	•	•	•	•	-
Parameterizable output	Can be used as a "life contact" and for display of "Parameter set B active" or "DAS+ dynamic arc sentry active".	•	•	•	•	-
IOM230 digital input and οι	ıtput module					
Two parameterizable inputs	For controlling the circuit breaker and transmitting information from the switchboard via communication.	0			0	0
Three parameterizable outputs	For signaling events, states, tripping operations or alarms of the switching device	0				

¹⁾ A country-specific radio license is required for operating the Bluetooth interface. Prior to activating the Bluetooth function, make sure that the license is available: www.siemens.com/lowvoltage/certificates

⁻ Not available

Available, feature of the application package

[☐] Can be retrofitted

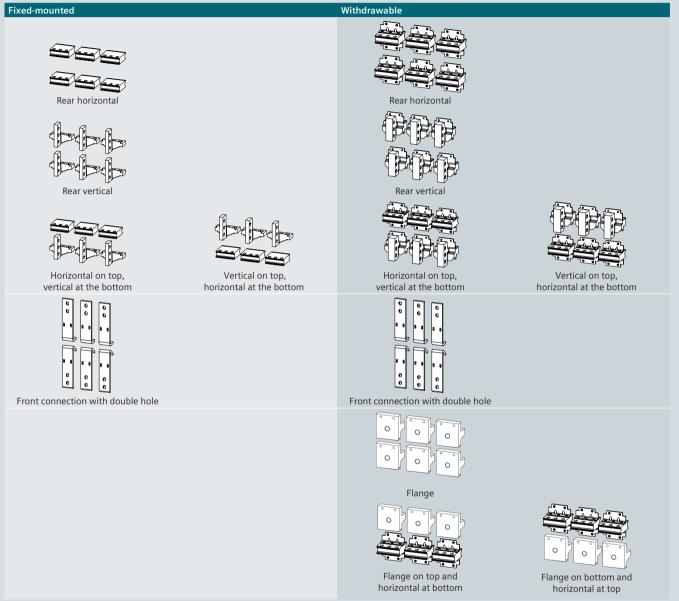
ETU600		Current metering	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Metering function					
Integrated voltage tap at top/bottom					
Voltage tap module VTM					
Type acc. to IEC 61557-12	PMF-I				
	PMF-II				
	PMF-III				
Metering values acc. to IEC61557-12					
Phase current I _{L1} , I _{L2} , I _{L3}	Class 1		-		
Neutral conductor current I _N	Class 1				
Voltage U _{LN}	Class 0.5				
Voltage U _{LL}	Class 0.5		-		-
Active energy E _a	Class 2				
Reactive energy E _r					
Apparent energy E _{ap}					
Active power P	Class 2				-
Reactive power Q					-
Apparent power S					
Power totals S, P, Q					
Power factor PF					
cos φ					
Frequency f					
Current unbalance					
Voltage unbalance		0			
Total harmonic distortion THD-I					
Total harmonic distortion THD-U					

Available, feature of the application packageCan be retrofitted

Connection

Main circuit connection

3WA11 - 3WA13



Secondary disconnect terminal

The auxiliary and control cables are connected at the manual connectors using the push-in technology of the auxiliary conductor connections of the circuit breaker.

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

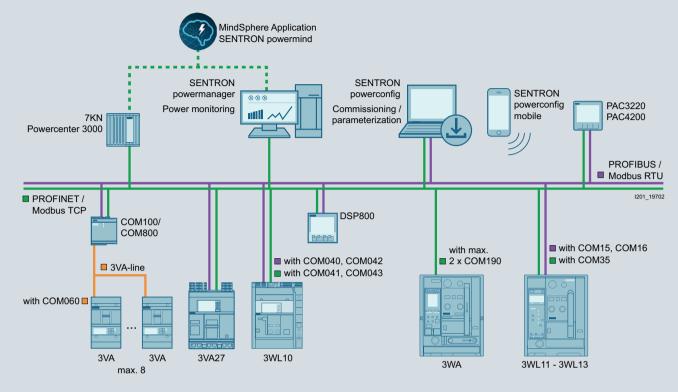






Screw connection (optional)

Communication



The 3WA can be equipped with up to two PROFINET IO / Modbus TCP COM190 communication modules and up to five IOM230 digital input/output modules.

For the optional communications interface with COM190 communication module, a "ready4COM" must be selected as the switching device. The first COM190 communication module must be selected via a Z option. If you want to use a further COM190 communication module, this must be ordered separately as an accessory. Both COM190 communication modules can be run in parallel.

The first IOM230 digital input/output module can be selected via a Z option.

The up to four further digital input/output modules must be ordered separately as accessories.

You will find further information on the COM190 in the equipment manual – 3WA air circuit breakers (109763061)

Technical specifications	COM190
Operating values	
U _s	24 V DC ±20%
Rated power dissipation	1 W
Switched Ethernet Ports	2
Protocol	PROFINET IO (CC-C) and Modbus TCP
Security functions	Yes
Number	Up to 2

Technical specifications	IOM230
Operating values	
U_s	24 V DC ±20%
Rated power dissipation	1 W
Inputs	2
Outputs	3
Maximum switching current	24 V DC, 4 A
	250 V AC, 5 A
Maximum continuous current	24 V DC, 0.2 A
	250 V AC, 0.2 A
Number	Up to 5

System overview 3WA11-3WA13

Switching devices for AC and DC

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

Switching devices



Sizes 1 to 3

Main circuit connection







Front double hole Flange

ľ

Main connection vertical, horizontal

Electronic trip unit and metering function



ETU600

Operating mechanisms and auxiliary switches



Spring charging motor

Closing coil and remote trip alarm reset coil





Closing coil (CC)

Remote trip alarm reset coil

Note:

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

Auxiliary releases







Closing coil (CC)

Shunt trip (ST)

Undervoltage release

Accessories for electronics









Communication module

Digital input/output module Sealable and lockable

Internal current sensors

Accessories for auxiliary circuit











Trip alarm switch





Motor disconnect

Local electric close

Emergency OPEN button

Interlocks and locking provisions









Locking provision for charging handle

Locking provision against unauthorized closing

Mutual mechanical interlockings

Locking mechanisms

Other accessories







Door sealing frame

Arc chute cover

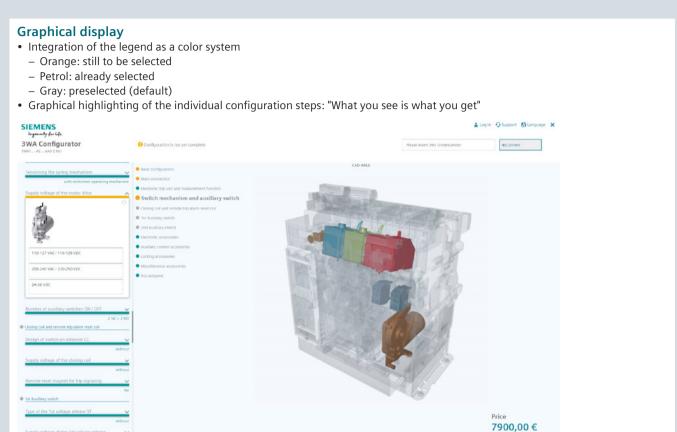
Automatic reset of the reclosing lockout

Note:

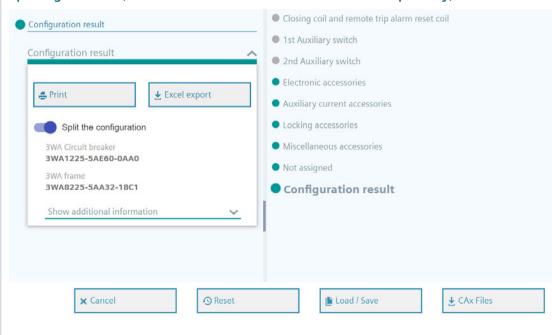
You will find a detailed range of accessories in the Accessories section.

Online configurator highlights

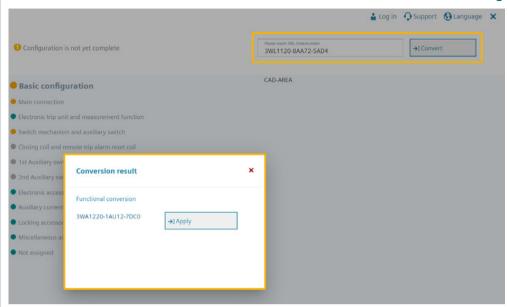
www.siemens.com/lowvoltage/3wa-configurator



Splitting function (Frame and circuit breaker can be ordered separately)



Direct conversion of a 3WL article number to a 3WA article number in the configurator



Responsive design (adapted to the differing requirements of the displaying devices)



Dynamic customer price during configuration



Basic configuration for AC circuit breakers and AC non-automatic circuit breakers up to 690 V

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/3wa-configurator

	•	3WA	1		5	6	7		8	9	10	11	12	13	14	
	•	J 4 4 /-	1 1					_								
Switching o	device															
	revice															
Size (SZ)	1				1											
	2				2											
	3				3											
		SZ 1	275	SZ 3												
Max. rated current	630 A			_		0	6		-							
I _{n max}	800 A		-	-		0	8									
	1000 A		-	-		1	0									
	1250 A		-	-		1	2									
	1600 A		-	-		1	6									
	2000 A		•	-		2	0				i i					
	2500 A			-		2	5									
	3200 A	- 1	•	-		3	2									
	4000 A	- 1	■ 1)	-		4	0									
	5000 A		-			5	0									
	6300 A		-	•		6	3									
Short-circuit	N 55 kA	•	-	-					2							
breaking capacity	S 66 kA			-					3							
_{cu} at 500 V	M 85 kA		_	-					4							
	H 100 kA	-	•	•					5							
	C 130 kA	-	•	-					6							
	3-pole: 150 kA	_	_						c							
				_					6							
	4-pole: 130 kA								0							
	4-pole: 130 kA uit breakers								b	А	Α					
	4-pole: 130 kA								0	A						
Non-automatic circ	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit	feature Curre	ent m	neter					Ь	C						
Non-automatic circo Application packages with	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600	feature Curre Curre	ent m	neter		ady4C		ature	.	C A C						
Application packages with protective and	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit	feature Curre Curre PMF-I	ent m	neter	ing, re	Volta	ige ta	ature	5	C						
Non-automatic circo Application packages with	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering	Curre Curre PMF-I Energ	ent m	neter	ing, re	Volta on to	ige ta _l op	ature p	5	C A C L						
Non-automatic circon Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit	Curre Curre PMF-I Energe	ent m	neter	ing, re	Volta on to Volta	ige ta _l op ige ta _l	ature p	5	C A C						
Non-automatic circon Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker, voltage supply of the	Curre Curre PMF-I Energe	ent m ent m I gy Ef	neter neter	ing, re	Volta on to Volta on b	ige ta p ige ta ottom	ature p	5	C A C L						
Non-automatic circon Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit et un	Curre Curre PMF-I Energe	ent m ent m I gy Ef	neter neter ficier sic Po	ing, re	Volta on to Volta on b	nge ta op nge ta ottom nge ta	ature p	o	C A C L						
Non-automatic circon Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap	Curre Curre PMF-I Energe	ent m ent m I gy Ef	neter neter ficier sic Po	ing, re	Volta on to Volta on b Volta on to	nge ta op nge ta ottom nge ta	ature p		C A C L						
Non-automatic circon Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit et un	Curre Curre PMF-I Energe	ent m ent m I IJ Bas	neter neter ficier sic Po	ing, re	Volta on to Volta on b Volta on to Volta on b	age tapp age tap ottom age tap age tap ottom	ature p		C A C L E M						
Non-automatic circon Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap	Curre Curre PMF-I Energe PMF-I Monit	ent m ent m I I III Bas	neteri neteri ificier ssic Po	ncy ower	Volta on to Volta on b Volta on to Volta on to Volta on b Volta	age tapp age tap ottom age tap op age tap ottom age tap	ature p		C A C L E						
Non-automatic circo Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap	Curre Curre PMF-I Energe	ent m ent m I I III Bas	neteri neteri ificier ssic Po	ncy ower	Volta on to Volta on to Volta on to Volta on to Volta on b Volta on to	age tapp age tap ottom age tap op age tap ottom age tap	ature p p		C A C L F N						
Non-automatic circo Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap	Curre Curre PMF-I Energe PMF-I Monit	ent m ent m I I III Bas	neteri neteri ificier ssic Po	ncy ower	Volta on to Volta	age tapp age tap ottom age tap op age tap ottom age tap	ature p		C A C L E M						
Non-automatic circon Application packages with protective and metering functions for circuit breakers	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM	FMF-I PMF-I PMF-I POWe	ent m ent m I III Bas III Ac	neteri neteri ificier ssic Pc ng	ncy ower	Volta on to Volta on to Volta on b Volta on to Volta on to	age tapped tappe	ature p		C A C L F N	A					
Non-automatic circon Application packages with protective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap	FMF-I PMF-I PMF-I POWe	ent m ent m I III Bas III Ac	neteri neteri ificier ssic Po	ncy ower	Volta on to Volta on to Volta on to Volta on to Volta on to	age tapped	ature p		C A C L F N	A					
Non-automatic circon Application packages with protective and metering functions for circuit breakers Application packages with protective and	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM	FMF-I PMF-I PMF-I POWe	ent m ent m I II Bas Ettorin	neterineterineterineterineterineterineterine	ncy ower	Volta on to Volta on to Volta on b Volta on to Volta on to	age tapped	ature p		C A C L F N						
Non-automatic circo Application backages with brotective and metering functions for circuit breakers Application backages with brotective and metering functions	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM	FMF-I PMF-I PMF-I POWe	ent m ent m I II Bas Ettorin	neterineterineteri	ncy ower	Volta on to Volta on to Volta on b Volta on to Volta on to Volta on to Volta on to Volta on to Volta on to Volta on b	age tapped	ature p		C A C L F N	A					
Application packages with protective and metering functions for circuit breakers Application packages with protective and metering functions for circuit breakers	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM Protective functions	FMF-I PMF-I PMF-I POWe	ent m ent m I II Bas Ettorin	neterineterineteri	ncy ower	Volta on to Volta on to Volta on b Volta on to Volta on to Volta on to Volta on to Volta on to Volta on to Volta on b	age tapped	ature p		C A C L F N	A					
Non-automatic circon Application packages with protective and metering functions for circuit breakers Application packages with protective and metering functions for circuit breakers	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM	FMF-I PMF-I PMF-I POWe	ent m ent m I II Bas Ettorin	neterineterineteri	ncy ower	Volta on to Volta on to Volta on b Volta on to Volta on to Volta on to Volta on to Volta on to Volta on to Volta on b	age tapped	ature p p p p p p p p p p p p p p p p p p p	e	C A C L F M G	E F G	0				
Non-automatic circon Application packages with protective and metering functions for circuit breakers	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM Protective functions	FMF-I Monit	ent m nt m I III Bas torin	neteri	ing, re mcy ower	Volta on to Volta on b Volta on to Volta on b LSI LSIG	age ta pp age ta ottom age ta op age ta ottom age ta op age ta ottom Hi-Z	ature p p p p a 3-pol 4-pol	e e, Ne	C A C L F N	E F G	1				
Non-automatic circon Application packages with protective and metering functions for circuit breakers Application packages with protective and metering functions for circuit breakers	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM Protective functions	FMF-I Monit	ent m ent m I I III Bas torin	neterineterineterineterineterineterineterineterineterineterine	ing, re mcy ower	Volta on to Volta on to Volta on b Volta on to Volta on to Volta on to Volta on to Volta on to Volta on to Volta on b	age ta pp age ta ottom age ta op age ta ottom age ta op age ta ottom Hi-Z	3-poi 4-poi 3-poi	e e, Ne	C A C L F M F G G	E F G	1				
Application packages with protective and metering functions for circuit breakers Application packages with protective and metering functions for circuit breakers	4-pole: 130 kA uit breakers uit breakers, ready4COM Electronic trip unit ETU600 Electronic trip unit ETU600 with metering function, internal voltage tap in the circuit breaker voltage supply of the ETU600 through the VTM680 voltage tap module and ready4COM Protective functions	FMF-I Monit	ent m ent m l gy Ef III Bas ttorin out out out out out	neteri	ing, re mcy ower ced rring	Volta on to Volta on b Volta on to Volta on b LSI LSIG	age tal op age tal ottom age tal op age tal ottom age tal ottom	3-poi 4-poi 3-poi	e e, Ne e e, Ne	C A C L F M G	E F G	1				

¹⁾ Not available for breaking capacity C

		3WA1	5	6	7	8	9	10	11	12	13	14	15	16
Connection	1	SZ 1 SZ 2 SZ 3								П				
Type of mounting	Fixed-mounted	■ ■ ¹⁾ ■	Verti	ical						1				
		■ 2) ■ 3) ■ 4)	Hori	zontal						2				
		■ 2) ■ 5) ■ 6)	Fron	it						3				
		■ 2) ■ 3) ■ 4)	Verti	ical / hor	rizontal					3 5				
		■ 2) ■ 3) ■ 4)	Hori	zontal /	vertical					6				
	Withdrawable		With	out guid	de frame					0				
		■ ■ ¹⁾ ■	Verti	ical						1				
		■ 2) ■ 3) ■ 4)	Hori	zontal						2				
		2) 5) 6	Fron	it						3				
		2) 5) 6	Flan	ge						4				
		2) 3) 4	Verti	ical / hor	rizontal					5				
		2) 3) 4)	Hori	zontal /	vertical					6				
		■ 2) ■ 5) ■ 6)	Flan	ge / hori	zontal					7				
		■ ²⁾ ■ ⁵⁾ ■ ⁶⁾		zontal /						8				

The 4000 A vertical connections for the 3WA1 have different dimensions from the 3WL1.
 Dimensionally compatible connections can be ordered with the additional Z option D01.
 Not available for 2500 A
 Not available for 4000 A

³⁾ Not available for 4000 A
4) Not available for 6300 A
5) Not available for 4000 A and for breaking capacity C
6) Not available for 5000 A and 6300 A and for breaking capacity C

Basic configuration for AC circuit breakers and AC non-automatic circuit breakers up to 690 V

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/3wa-configurator

		5 6 7	8 9 10 11	12 13	14	15		
	3	SWA1	_	_				
norating	machanism au	viliary switch and	d auxiliary release					
		•	•					
perating nechanism and	Manual recharging of the stored energy mechanism		2 NO contacts, 2 NC contacts 4 NO contacts, 4 NC contacts	1				
uxiliary switch	Recharging of the stored energy mechanism by	24 30 V DC	2 NO contacts, 2 NC contacts 4 NO contacts, 4 NC contacts	2 5				
	spring charging motor	48 60 V DC	4 NO contacts, 4 NC contacts	6				
	(M)	110 127 V AC /	2 NO contacts, 2 NC contacts	3				
		110 125 V DC	4 NO contacts, 4 NC contacts	7				
		208 240 V AC /	2 NO contacts, 2 NC contacts	4				
		220 250 V DC	4 NO contacts, 4 NC contacts	8				
Closing coil and	Without closing coil	Without remote trip alarm			А			
emote trip alarm eset coil 1)2)	With closing coil (CC)	reset coil	24 30 V DC					
	for continuous duty,	Without remote trip alarm reset coil	48 60 V DC		С			
	100% OP		110 127 V AC / 110 125 V DC		D			
			208 240 V AC / 220 250 V DC		E			
		With remote trip alarm reset			F			
		coil (RR)	48 60 V DC		G			
		for momentary duty 1% OP	110 127 V AC / 110 125 V DC		Н			
-			208 240 V AC / 220 250 V DC					
	With closing coil (CC)	Without remote trip alarm	24 30 V DC		K			
	for momentary duty,	reset coil	48 60 V DC					
	5% OP		110 127 V AC / 110 125 V DC		М			
			208 240 V AC / 220 250 V DC		N			
		With remote trip alarm reset			Р			
		coil (RR)	48 60 V DC		Q			
		for momentary duty 1% OP	110 127 V AC / 110 125 V DC		R			
			208 240 V AC / 220 250 V DC	S				
nd auxiliary	Without 2nd auxiliary relea	92				Α		
elease	With shunt trip (ST),		24 30 V DC			В		
	continuous duty 100% OP		48 60 V DC			С		
			110 127 V AC / 110 125 V DC			D		
			208 240 V AC / 220 250 V DC			Е		
	With shunt trip (ST),		24 30 V DC			F		
	momentary duty 5% OP		48 60 V DC			G		
			110 127 V AC / 110 125 V DC			н		
			208 240 V AC / 220 250 V DC			J		
	With undervoltage release		24 30 V DC			L		
	instantaneous (≤0.08 s) ar	d short-time delayed (≤0.2 s)	48 60 V DC			N		
			110 127 V AC / 110 125 V DC					
			208 240 V AC / 220 250 V DC					
			380 415 V AC			R		
	With undervoltage release		48 V DC			S		
	adjustable delay 0.2 3.2	S	60 V DC					
			110 127 V AC / 110 125 V DC					
			208 240 V AC / 220 250 V DC			V		
			380 415 V AC			W		

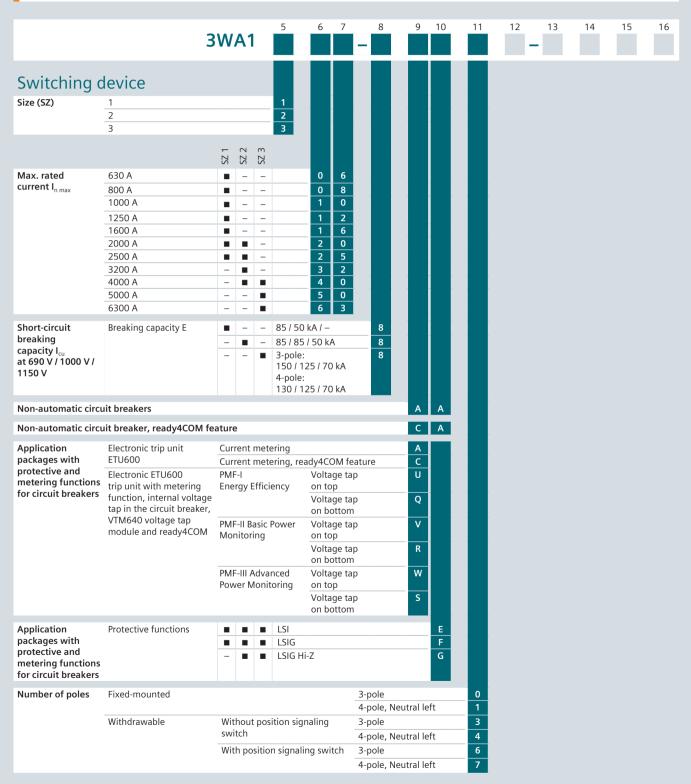
¹⁾ Remote trip alarm reset coil is not available for non-automatic circuit breakers

²⁾ When using the remote trip alarm reset coil, the reclosing lockout is generally deactivated. The circuit breaker can be closed again immediately if the conditions for closing are fulfilled.

	3WA1	5 6 7	8	9 10	11	12	13	14	15	16
Auxiliary releases	;									
1st auxiliary release	Without 1st auxiliary release									0
	With shunt trip (ST),		24 30 V	DC DC						1
	continuous duty 100% OP		48 60 V	DC DC						2
			110 127	7 V AC / 110	125 V DC					3
			208 240	O V AC / 220	250 V DC					4
	With shunt trip (ST),		24 30 V	DC DC						5
	momentary duty 5% OP		48 60 V	DC DC						6
			110 127	7 V AC / 110	125 V DC					7
			208 240	O V AC / 220	250 V DC					8

Basic configuration for AC circuit breakers and AC non-automatic circuit breakers in a 690 V IT system and for higher voltages

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/3wa-configurator



	į	3W	/A1		5 6 7 8 9 10 11 12 13 14 15	16
Connection		SZ 1	SZ 2	SZ 3		
Type of mounting Fi	ixed-mounted		3)		Vertical 1	
		1)	2)	4)	Horizontal 2	
		■ 1)	2)	■ 5)	Front double hole 3	
		■ 1)	2)	4)	Vertical on top / horizontal at the bottom 5	
		■ 1)	2)	4)	Horizontal on top / vertical at the bottom 6	
W	/ithdrawable				Without guide frame 0	
			3)		Vertical 1	
		■ 1)	2)	4)	Horizontal 2	
		■ 1)	2)	■ 5)	Front double hole 3	
		■ 1)	2)	■ 5)	Flange 4	
		■ 1)	2)	4)	Vertical on top / horizontal at the bottom 5	
		■ 1)	2)	4)	Horizontal on top / vertical at the bottom 6	
		1)	2)	■ 5)	Flange on top / horizontal at the bottom	
		■ 1)	2)	■ 5)	Horizontal on top / flange at the bottom	

Only ≤2000 A is available for size 1
 Only ≤3200 A is available for size 2
 Vertical connection for 3WA size 2 for 4000 A has different dimensions than for the 3WL.
 With Z option D01, vertical connection can be changed to the connection compatible with 3WL.
 Only ≤5000 A is available for size 3
 Only for 4000 A is available for size 3

Basic configuration for AC circuit breakers and AC non-automatic circuit breakers in a 690 V IT system and for higher voltages

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/3wa-configurator

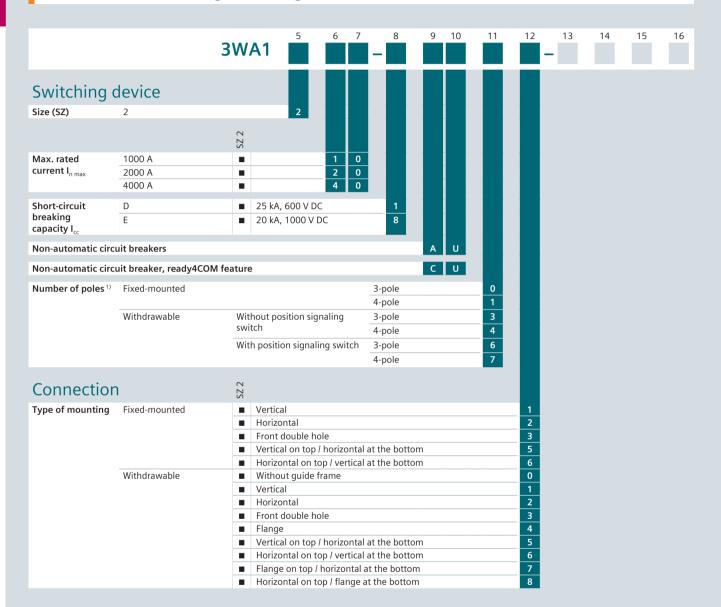
www.sieme	ns.com/lowvoltage	/3wa-configurator	· •						
	3	5 6 7 BWA1	8 9 10 11 -	12 13	14	15	1		
Operating	mechanism, au	xiliary switch and	d auxiliary release						
Operating mechanism and	Manual recharging of the stored energy mechanism	Without spring charging	0						
auxiliary switch	Recharging of the stored energy mechanism by	24 30 V DC	4 No contacts, 4 Ne contacts						
	spring charging motor (M)	48 60 V DC 110 127 V AC /	4 NO contacts, 4 NC contacts 2 NO contacts, 2 NC contacts	6 3					
		110 125 V DC 208 240 V AC /	4 NO contacts, 4 NC contacts 2 NO contacts, 2 NC contacts	7					
		220 250 V DC	4 NO contacts, 4 NC contacts	8					
Closing coil and emote trip alarm	Without closing coil	Without remote trip alarm re			Α				
eset coil 1)	With closing coil (CC) for continuous duty,	Without remote trip alarm reset coil	24 30 V DC		В				
	100% OP	reset con	48 60 V DC		С				
			110 127 V AC / 110 125 V DC 208 240 V AC / 220 250 V DC		D E				
		With remote trip alarm reset			F				
		coil (RR)	48 60 V DC		G				
		for momentary duty 1% OP	110 127 V AC / 110 125 V DC		Н				
			208 240 V AC / 220 250 V DC		J				
	With closing coil (CC)	Without remote trip alarm	24 30 V DC		К				
	for momentary duty,	reset coil	48 60 V DC		L				
	5% OP		110 127 V AC / 110 125 V DC		М				
			208 240 V AC / 220 250 V DC		N				
		With remote trip alarm reset			P				
		coil (RR) for momentary duty 1% OP	48 60 V DC		Q				
			110 127 V AC / 110 125 V DC		R				
			208 240 V AC / 220 250 V DC		S				
2nd auxiliary	Without 2nd auxiliary rele	ase				Α			
elease	With shunt trip (ST),		24 30 V DC			В			
	continuous duty 100% OP		48 60 V DC			С			
			110 127 V AC / 110 125 V DC			D			
	Mil I (GT)		208 240 V AC / 220 250 V DC			E			
	With shunt trip (ST), momentary duty 5% OP		24 30 V DC 48 60 V DC			F G			
			110 127 V AC / 110 125 V DC			Н			
			208 240 V AC / 220 250 V DC			J			
	With undervoltage release	(UVR).	24 30 V DC						
		nd short-time delayed (≤0.2 s)	48 60 V DC			N			
			110 127 V AC / 110 125 V DC						
			208 240 V AC / 220 250 V DC						
			380 415 V AC						
	With undervoltage release		48 V DC			S			
	adjustable delay 0.2 3.2	' S	60 V DC						
			110 127 V AC / 110 125 V DC						
			208 240 V AC / 220 250 V DC						
			380 415 V AC			W			

¹⁾ Remote trip alarm reset coil is not available for non-automatic circuit breakers

	3WA1 5 6 7	8 9 10 11 12 13 14 15 	16							
Auxiliary releases										
1st auxiliary release	Without 1st auxiliary release		0							
	With shunt trip (ST),	24 30 V DC								
	continuous duty 100% OP	48 60 V DC	2							
		110 127 V AC / 110 125 V DC	3							
		208 240 V AC / 220 250 V DC	4							
	With shunt trip (ST),	24 30 V DC	5							
	momentary duty 5% OP	48 60 V DC	6							
		110 127 V AC / 110 125 V DC	7							
		208 240 V AC / 220 250 V DC	8							

Basic configuration for DC non-automatic 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/3wa-configurator



	2	BWA1	5 6	7 8	9	10	11	12	13	14	15	16		
	3	VVAI			_				_					
Operating	mechanism, au	xiliary s	witch a	nd aux	iliary	relea	ise							
Operating	Manual recharging of the		ing charging	2 NO co	ontacts, 2 l	NC conta	cts		0					
mechanism and	stored energy mechanism			4 NO contacts, 4 NC contacts										
auxiliary switch	Recharging of the stored	24 30 V D	OC .		ontacts, 2 N				2					
	energy mechanism by spring charging motor	40 601/5			ontacts, 4 N				5 6 3					
	(M)	48 60 V D			ontacts, 4 N		-							
		110 127			2 NO contacts, 2 NC contacts 4 NO contacts, 4 NC contacts 7									
		208 240	V AC /		ontacts, 2 N									
		220 250	V DC		ontacts, 4 N				8					
Closing coil	Without closing coil									Α				
J	With closing coil (CC)		24 3	0 V DC					В					
	for continuous duty, 100%	OP		48 6	0 V DC					С				
				110	127 V AC /	110 1	25 V DC			D				
					240 V AC /	220 2	50 V DC			E				
	With closing coil (CC)	ın.		24 3						K				
	for momentary duty, 5% O	IP		48 6		110 1	25 1/ DC			L				
					127 V AC /					M				
				208	240 V AC /	220 2	50 V DC			IN				
2nd auxiliary	Without 2nd auxiliary relea								Α					
release	With shunt trip (ST), continuous duty 100% OP			24 3							В			
	Continuous duty 100% OF			48 6		110 1	2F \/ DC				C D			
					127 V AC /					E				
	With shunt trip (ST),				208 240 V AC / 220 250 V DC 24 30 V DC									
	momentary duty 5% OP			48 6							F G			
				110	127 V AC /	110 1	25 V DC				н			
				208	240 V AC /	220 2	50 V DC				J			
	With undervoltage release			24 3							L			
	instantaneous (≤0.08 s) ar	nd short-time	delayed (≤0.2								N			
					127 V AC /						P			
					240 V AC <i>l</i> 415 V AC	220 2	50 V DC				Q R			
	With undervoltage release	(UVR-t)		48 V D							S			
	adjustable delay 0.2 3.2			60 V D							T			
					127 V AC /	110 1	25 V DC				U			
				208	240 V AC /	220 2	50 V DC				V			
				380 415 V AC										
1st auxiliary releas	se	Without 1st	auxiliary relea	se								0		
,	With shunt trip (ST),					24 30 V DC								
	continuous duty 100% OP					48 60 V DC								
					127 V AC /							3		
					240 V AC /	220 2	50 V DC					4		
		With shunt t		24 3								5		
momentary duty 5% OP					48 60 V DC 110 127 V AC / 110 125 V DC							6		
					208 240 V AC / 110 125 V DC							7 8		
				۷۰۰	2+0 V AC /	∠∠∪ ∠	20 V DC					٥		

Accessory options

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

To specify the options, add "-Z" to the complete Article No. and Order code indicate the appropriate order code(s). 3WA....-....-....-Z Option plug for electronic trip unit • To reduce the rated current of the circuit breaker Only one module is possible per circuit breaker. As standard, the electronic trip unit is equipped with an option plug which is equal to the maximum rated breaker current (I_{n max}). The rated current of the selected option plug must be less than I_{n max}. Option plug 250 A _ **B02** B03 315 A 400 A B04 B05 500 A B06 630 A 800 A B08 B10 1000 A B12 1250 A B16 1600 A 2000 A **B20** 2500 A B32 3200 A 4000 A 5000 A ī B50 IOM230 digital input/output module Module with 2 inputs and 3 outputs A module including adapter for mounting on the secondary disconnect terminal system of the F23 circuit breaker, connecting cables and CubicleBUS² terminating resistor; five modules can be operated at the same time. Further modules must be ordered separately as 3WA9111-0EC11, which includes the adapter for mounting on the secondary disconnect terminal system of the circuit breaker and the adapter for external mounting on a standard mounting rail. COM190 communication module • The precondition for connection is a circuit breaker or non-automatic circuit breaker with the "ready4COM" feature F19 PROFINET IO / Modbus TCP A module including 2 Switched Ethernet ports, circuit breaker internal. A module including adapter for mounting on the secondary disconnect terminal system of the circuit breaker, connecting cables and CubicleBUS2 terminating resistor; two communication modules can be run at the same time. The second communication module must be ordered separately as 3WA9111-0EC13. **Automatic reset** · Only possible for circuit breakers with an electronic trip unit Automatic reset Automatic reset of the reclosing lockout after ETU tripping; this option is not required when K01 ordering a circuit breaker with a remote trip alarm reset coil RR. Tinned version of the main connections on the guide frame • Only for switching devices in withdrawable version with horizontal connection or flange connection. Cannot be ordered for circuit breakers without a guide frame The normal delivery time increases to 15 work days **Tinned connections** Sizes 1, 2, 3 D08

To specify the options, add "-Z" to the indicate the appropriate order code(s)			3WAZ	Order code
Broadened vertical main conn Only possible on complete order for a with		ordering the guide	frame separately	
Main circuit connection	For 3WA1, 4000 A, size 2	Compatible with	3WL1240 for retrofit	D01
Secondary disconnect termina Cannot be ordered for circuit breakers with	-			
Secondary disconnect terminal system	With screw connection instead of	push-in connection	n (standard)	N03
Mechanical operating cycles c	ounter			
Mechanical operating cycles counter, 5-digit	Can be used with all circuit breake spring charging motor	ers and non-automa	atic circuit breakers including those without a	C01
Signaling switch				
Tripped signaling switch	2nd tripped signaling switch (S25) Trip alarm switch is installed in circ Can only be used with circuit brea	cuit breakers as sta		К06
Pushbuttons / shutdown switc	hes / closing lockouts / s	special packa	ging / Arc chute cover	
Emergency OPEN button	Mushroom pushbutton instead of	the mechanical OF	F pushbutton	C25
Local electrical close on the operator panel (S10)	This prevents unauthorized electri the operator panel. Mechanical closing remain possible. Only poss combination with a closing coil (Co	osing and remote sible in	With sealing cap With CES lock	C11 C12
Motor disconnect switch on operator panel (S12)	This prevents automatic charging energy mechanism by the spring c			C24
Cardboard packaging with water-repellent	coating on corrugated cardboard	(moisture protect	ion)	P61
Arc chute cover mounted on the guide	Not available for:			R10
frame	Fixed-mountedBreaking capacity C, E and D4000 A size 2			
Sealable and lockable cover	For electronic trip unit			F40
Internal current sensors (without one of the converter applications with high had been applied in converter applications with high had been applied in the converted of the converted of the current of the converted of the current of	armonic components; can only be us	sed for circuit break		
Internal current sensors	Sizes 2, 3			K60
Mutual mechanical interlockin Interlocking module with Bowden cable 2 to				
Mutual mechanical interlockings	For fixed-mounted breakers			S55
	For withdrawable circuit breakers			R55
	For guide frames (ordered separat For withdrawable circuit breakers	<u> </u>	v)	R56 R57
	To withdrawable circuit breakers	(ordered separately	y,	N37

Accessory options

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

To specify the options, add "-Z" to the indicate the appropriate order code(s		3WAZ	Order code
Locking provisions (for fixed-	mounted and withdrawa	ble circuit breakers)	
Locking provision	To prevent unauthorized	Made by CES	S01
	activation in the operator panel	Made by IKON	S03
	of the circuit breaker. The disconnector unit fulfills the	Assembly kit FORTRESS or CASTELL 1)	S05
	requirements for main circuit	Assembly kit for padlocks 2)	S07
	breakers according to EN 60204-1	Made by RONIS	508
		Made by PROFALUX	S09
Locking provision	For charging handle with padlock	2)	S33
Locking provisions (for withday	rawable circuit breakers)		
Locking provision to prevent movement of		Made by CES	S71
the withdrawable circuit breakers	the circuit breaker	Made by PROFALUX	S75
		Made by RONIS	S76
Locking provisions against un The disconnector unit fulfills the requirem the connected position, function is retaine Not available in combination with order co Only possible on complete order for a with	ents for main circuit breakers acc. to ed when circuit breaker is replaced. ode "R81", "R85" or "R86".	EN 60204-1, consisting of a lock in the guide frame, active in	
Made by CES			R61
Made by RONIS			R68
Made by PROFALUX			R60
Locking mechanisms Not available in combination with order co R30 and R50 only possible on complete or R40 can only be ordered with the circuit b	der for a circuit breaker with a guide	frame or when ordering the guide frame separately	
For fixed-mounted circuit breakers	To prevent opening of the control	cabinet door in ON position	S30
For withdrawable circuit breakers	To prevent opening of the control	cabinet door in connected position	R30
	To prevent activation when the co	ntrol cabinet door is open 3)	R40
	To prevent movement when the c	ontrol cabinet door is open 4)	R50
Locking provisions to prevent position Consisting of Bowden cable and lock in the Not available in combination with order cools Only possible for a complete order for a ci	e control cabinet door ode "R30", "R40", "R50", "R61", "R68" o		
Made by CES			R81
Made by PROFALUX			R85
Made by RONIS			R86
Increased degree of protectio	n for installation in a cor	ntrol cabinet	
Door sealing frame for degree of protection	n IP41		T40

¹⁾ Locks must be ordered from the manufacturer.

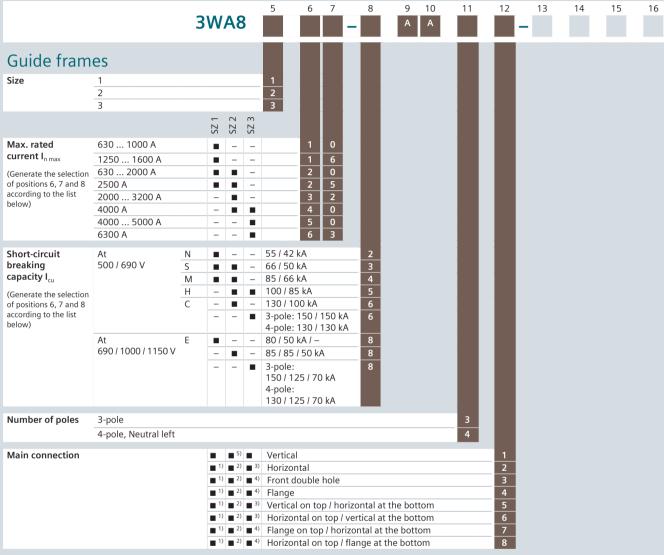
²⁾ Padlock not included in the scope of supply

³⁾ Not available in combination with R50

⁴⁾ Not available in combination with R40

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/3wa-configurator



Only ≤2000 A is available for size 1
 Only ≤3200 A is available for size 2

The following combinations of positions 6, 7 and 8 are technically possible

BG	Breaking capacity at I _{n max}	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A	5000 A	6300 A
						Repr	esentation	67-8				
1	N	10-2	10-2	10-2	16-2	16-2	20-3	25-3	-	-	-	-
	S	10-3	10-3	10-3	16-3	16-3	20-3	25-3	-	-	-	-
	M	20-4	20-4	20-4	20-4	20-4	20-4	25-4	_	-	-	-
	E	20-8	20-8	20-8	20-8	20-8	20-8	25-8	_	_	-	_
2	S	-	-	-	-	-	20-5	25-5	32-5	40-5	-	-
	M	-	-	-	-	-	20-5	25-5	32-5	40-5	-	-
	Н	-	-	-	-	-	20-5	25-5	32-5	40-5	-	-
	E	_	-	_	_	-	20-8	25-8	32-8	40-8	_	-
	С	-	_	_	-	_	32-6	32-6	32-6	_	-	_
3	Н	-	-	-	-	-	-	-	-	40-5	50-5	63-5
	E	-	-	-	-	-	-	-	-	50-8	50-8	63-8
	С	-	-	-	-	-	-	-	-	50-8	50-8	63-8

³⁾ Only ≤5000 A is available for size 3

 $^{^{4)}}$ Only for 4000 A is available for size 3

⁵⁾ Vertical connection for 3WA size 2 for 4000 A has different dimensions than for the 3WL. With Z option D01, vertical connection can be changed to the connection compatible with 3WL.

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/3wa-configurator

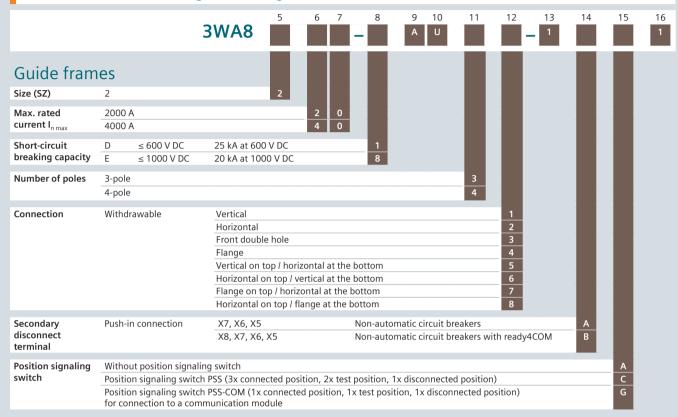
	3WA8	5 6 7	8 9 10 -	11	12 13	14	15	16
							П	
Push-in connection 1)	SZ 1, SZ 2, SZ 3	X7, X6, X5		-automatic cire out ready4CO		A		
		X8, X7, X6, X5	circu	uit breakers/no uit breakers wi ly4COM featur	th	В		
	SZ 2 / SZ 3	X9, X8, X7, X6, X5	ETC	uding external 600 for circuit 600 LSIG Hi-Z	trip controller breakers with	K	П	
Position signaling	Without position signaling switch						Α	
switch	Position signaling switch PSS (3x co Position signaling switch PSS-COM (for connection to a communication	1x connected position, 1x to					G	

 $^{^{\}mbox{\tiny 1)}}$ Conversion to screw-type connection is possible with Z option N03.

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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/3wa-configurator



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Accessories and spare parts

Accessories for ele	ectronic trip unit				
Electronic trip unit ETU6	00				
IN LIXY	Basic protective functions			Article No.	
	LSI / LSIG			3WA9111-0EE6	52
****	LSIG Hi-Z			3WA9111-0EE6	i3
889					
Replacement battery for	ETU600				
9				Article No.	
11				3WA9111-0EE8	31
Option plug				_	_
Option plug	Basic configuration	Size	Rated current I _n	Article No.	
Ins A	Protective function LSI, LT, ST, INST	5120	Rated carrette	3WA9111-0EB	
	Protective function LSIG, LT, ST, INST, GF			3WA9111-0EX	
	(ground-fault protection with extended setti	ing range)		31113111 021	
		1, 2	250 A		02
			315 A		03
			400 A		04
			500 A		05
			630 A		06
			800 A		08
			1000 A		10
		1, 2, 3	1250 A		12
			1600 A		16
			2000 A		20
			2500 A		25
		2, 3	3200 A		32
			4000 A		40
		3	5000 A		50
			6300 A		63
Function packages for E	ТU600				
	Protective and alarm functions			Article No.	
3 3 3	Ground fault alarm (GF alarm)			3WA9111-0ES0	
	Directed short-time-delayed short-circuit pro (requires an optional voltage tap module)	tection (dST) and reverse	e power protection (RP)	3WA9111-0ES0)5
	Enhanced protective functions (EPF)			Article No.	
	Full package with unbalance, voltage, active power, frequency, THD and phase sequence detection				1
	Phase unbalance current and phase unbalan	ce voltage		3WA9111-0ES1	2
	Undervoltage and overvoltage			3WA9111-0ES1	3
	Active power import and active power expor	rt		3WA9111-0ES1	4
	Under-frequency and over-frequency			3WA9111-0ES1	5
	Total harmonic distortion for current and vo	ltage		3WA9111-0ES1	6
	Phase sequence detection			3WA9111-0ES1	7
	Functional expansions			Article No.	
	Second protection parameter set			3WA9111-0ES2	1
	Extended metering function			Article No.	
	Upgrade to metering function PMF-II Basic Po		3	3WA9111-0ES5	
	Upgrade to metering function PMF-III Advance	ed Power Monitoring (met	ering values, see catalog page 1/21)	3WA9111-0ES5	3
External current sensors					
5-1		ize		Article No.	
	For mounting on busbar 1			3WA9111-0AA2	
	2			3WA9111-0AA2	
A	3			3WA9111-0AA2	
- i	For busbar connection 1			3WA9111-0AA3	
	2			3WA9111-0AA32	
	3			3WA9111-0AA3	33

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Accessories for electronic trip unit

Internal current sensors (without energy core) for applications with frequency converters Note: Used in converter applications with high harmonic components - External 24 V DC supply required Undervoltage release required Scope of supply Size Article No. All parts for 3-pole breaker 2 3WA9111-0AA43 3 3WA9111-0AA44 All parts for 4-pole breaker 2 3WA9111-0AA46 3 3WA9111-0AA47 Sealable and lockable cover Accessory for Article No. ETU600 3WA9111-0EM22 Automatic reset of the reclosing lockout Article No. Spare part for option K01 or for retrofitting 3WA9111-0EM31 Remote trip alarm reset coil · For mechanical tripped indicator Including automatic reset of the reclosing lockout 3WA9111-0EM31 Voltage Article No. 24 ... 30 V DC 3WA9111-0EM42 48 ... 60 V DC 3WA9111-0EM44 110 ... 127 V AC / 110 ... 125 V DC 3WA9111-0EM45 208 ... 240 V AC / 220 ... 250 V DC 3WA9111-0EM46 Second tripping solenoid (F6) with reclose lockout Version Article No. For external control via the external trip controller ETC600, 3WA9111-0EM61 including the necessary parts for the secondary disconnect terminal



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Accessories and spare parts

Locking provisions and interlocks

Interlocking sets for mechanical Close/Open

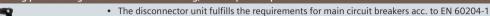


- Consisting of two transparent covers each for sealing or for attaching padlocks (padlocks not included in scope of supply)
- Cover with 6.35 mm hole (for tool actuation)
- · Lock mount for safety lock for key operation



Version	Article No.
Without safety lock	3WA9111-0BA21
Made by CES	3WA9111-0BA22
Made by IKON	3WA9111-0BA23

Locking provision against unauthorized closing, in the operator panels





• Spare part for options S01 to S09 Scope of supply Article No. Assembly kit FORTRESS or CASTELL 1) Without locks, cylinders or keys 3WA9111-0BA31 Made by RONIS Locks, cylinders and keys included 3WA9111-0BA32 Made by KIRK-Key 1) Without locks, cylinders or keys 3WA9111-0BA33 Made by PROFALUX Locks, cylinders and keys included 3WA9111-0BA34 Made by CES Locks, cylinders and keys included 3WA9111-0BA35 Made by IKON Locks, cylinders and keys included 3WA9111-0BA36 Assembly kit for padlocks Without padlock 3WA9111-0BA37

$\label{locking} \textbf{Locking provision against unauthorized closing of the withdrawable circu\underline{\textbf{i}}\textbf{t} \ \textbf{breaker}$



- The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1
- Consisting of lock in the guide frame, active in connected position, function is retained when circuit breaker is replaced
- · Spare part for option R60, R61, R68

	Variant	Scope of supply	Article No.
	Made by CES	Locks, cylinders and keys included	3WA9111-0BA51
	Made by IKON	Locks, cylinders and keys included	3WA9111-0BA53
	Made by KIRK-Key 1)	Without locks, cylinders or keys	3WA9111-0BA57
	Made by RONIS	Locks, cylinders and keys included	3WA9111-0BA58
	Made by PROFALUX	Locks, cylinders and keys included	3WA9111-0BA50

Locking provision for charging handle with padlock



 Version
 Scope of supply
 Article No.

 Spare part for S33
 Without padlock
 3WA9111-0BA71

Locking provision to prevent movement of the withdrawable circuit breaker

- Safety lock for mounting onto the circuit breaker
- Spare part for option S71, S75, S76



	,	
Variant	Scope of supply	Article No.
Made by CES	Locks, cylinders and keys included	3WA9111-0BA73
Made by IKON	Locks, cylinders and keys included	3WA9111-0BA75
Made by PROFALUX	Locks, cylinders and keys included	3WA9111-0BA76
Made by RONIS	Locks, cylinders and keys included	3WA9111-0BA77
Made by KIRK-Key 1)	Without locks, cylinders or keys	3WA9111-0BA80

¹⁾ Locks, cylinders and keys must be ordered from the manufacturer. Suitable cylinder lock KIRK Key C 900-301. Suitable lock FORTRESS CLIS X005. Suitable lock CASTELL FS2.

Locking provisions and interlocks

Interlock systems



- 2 of the same keys for 3 circuit breakers
- Locking provision in OFF position
- Lock in the operator panel
- A maximum of 2 circuit breakers can be switched on

Variant	Article No.
Made by CES	3WA9111-0BA43

Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position

- Consisting of Bowden cable and breaker mechanism in the control cabinet door
- Spare part for option R81, R85, R86
- Note: Not possible in combination with "Locking mechanism to prevent opening of the control cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the control cabinet door open" (order code "R50")



Variant	Article No.
Made by CES	3WA9111-0BA81
Made by IKON	3WA9111-0BA82
Made by PROFALUX	3WA9111-0BA83
Made by RONIS	3WA9111-0BA84

Locking mechanisms to prevent opening of the control cabinet door when the circuit breaker is closed



Defeatable
 Note: Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

Version	Article No.	
Spare part for option S30	Fixed-mounted circuit breaker	3WA9111-0BB12
Spare part for option R30	Guide frames	3WA9111-0BB13

Locking mechanisms to prevent movement when the control cabinet door is open



- Mounted on guide frame
- Note: Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

Version	Article No.
Spare part for option R50	3WA9111-0BB15

Mutual mechanical interlockings



With Bowden cable 2000 mm (one required for each circuit breaker)

(
Туре	Circuit breaker and guide frame when ordered separately	Spare part for	Article No.
Fixed-mounted circuit breaker	-	Option S55	3WA9111-0BB21
Module for withdrawable circuit breakers with guide frame	-	Option R55	3WA9111-0BB22
Module for guide frame	✓	Option R56	3WA9111-0BB23
Module for withdrawable circuit breaker	✓	Option R57	3WA9111-0BB24
Adapter for size 3 withdrawable circuit breaker	✓	-	3WA9111-0BB25

Coupling on the circuit breaker for mutual interlocking with Bowden cable



Can be used in all circuit breakers

Article No.
3WA9111-0RR31

Bowden cable for mutual mechanical interlocking



mechanical interlocking		
Length	Article No.	
2000 mm	3WA9111-0BB41	
3000 mm	3WA9111-0BB42	
4500 mm	3WA9111-0BB43	

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

Accessories and spare parts

Indicators and control elements

2nd trip alarm switch (S25)



- Can only be used with a circuit breaker with an electronic trip unit
- The 1st trip alarm switch (1 changeover contact) is installed in every circuit breaker with a trip unit as standard

Version	Contacts	Article No.
Spare part for option K06	1 NO contact	3WA9111-0AH03

Mechanical operating cycles counter (5-digit)



Version For circuit breakers / non-automatic circuit breakers Article No.

Spare part for option C01 With manual operating mechanism 3WA9111-0AH04

With spring charging motor 3WA9111-0AH05

Spring charged signaling switch (S21)



- Standard when a spring charging motor is installed to charge the stored energy mechanism
- · When a spring charging motor is retrofitted, the spring charged signaling switch can also be retrofitted

ContactsArticle No.1 NO contact3WA9111-0AH06

Position signaling switch for withdrawable circuit breakers



Contacts

PSS: 6 changeover contacts; 3× connected position, 2× test position, 1× disconnected position

3WA9111-0AH11

PSS-COM: 3 changeover contacts; 1× connected position, 1× test position, 1× disconnected position and option for connection to a communication module

3WA9111-0AH12

Local electric close (S10) for operator panel



- Scope of supply: Button + wiring
- Not available with motor disconnect switch
- Note: Possible only for circuit breakers with closing coil



 Version
 Variant
 Article No.

 Spare part for option C11
 With sealing cap
 3WA9111-0AH21

 With CES assembly kit
 3WA9111-0AH22

 Spare part for option C12
 With IKON assembly kit
 3WA9111-0AH23

Motor disconnect switch (S12)





- Mounting onto operator panel
- Only in combination with the spring charging motor for charging the stored energy mechanism
- Not available in combination with local electric close

VersionArticle No.Spare part for option S253WA9111-0AH24

Emergency OPEN button



• Mushroom pushbutton instead of local mechanical open

VariantArticle No.Spare part for option S243WA9111-0AH25



Secondary disconnect terminals for circuit breakers and guide frames

- For size 1, up to 4 secondary disconnect terminal blocks are possible; for sizes 2 and 3, up to 5 secondary disconnect terminal blocks are possible
- Circuit breakers and non-automatic circuit breakers with secondary disconnect terminal blocks are supplied from the factory:
 - Non-automatic circuit breakers with 3 blocks
 - Non-automatic circuit breakers with ready4COM feature with 4 blocks
 - Non-automatic circuit breakers with ETU600 LSI or LSIG with 4 blocks
 - Non-automatic circuit breaker with ETU600 LSIG-HiZ with 5 blocks

Secondary disconnect terminal				
	Version	Variant	Article No.	
	Base part 1		3WA9111-0AB01	
	1000 V extension 1)		3WA9111-0AB02	
Million	Manual connector 2	Screw connection	3WA9111-0AB03	
		Push-in connection	3WA9111-0AB04	
	Coding kit 3	For fixed-mounted X5 to X8	3WA9111-0AB07	
	Sliding contact module 4	For guide frames	3WA9111-0AB08	
A	Blanking block		3WA9111-0AB12	

For a complete secondary disconnect terminal block, you must order:

Fixed-mounted version: 1 + 2 + 3Withdrawable version: 1 + 4 + 2

1) Secondary disconnect terminal for circuit breakers with breaking capacity C and E must be ordered separately

Auxiliary releases

Closing coil (CC) / sh	nunt trip (ST)			
	 Suitable for continuous du 	Suitable for continuous duty		
The state of the s	Version	Voltage	Article No.	
	100% OP	24 30 V DC	3WA9111-0AD02	
	Switching time ≦80 ms	48 60 V DC	3WA9111-0AD04	
		110 125 V DC/110 127 V AC	3WA9111-0AD05	
		220 250 V DC/208 240 V AC	3WA9111-0AD06	
Closing coil (CC)				
	 For momentary duty, with 	cut-off switch S15		
The state of the s	Version	Voltage	Article No.	
	5% OP	24 30 V DC	3WA9111-0AD12	
	Switching time 50 ms	48 60 V DC	3WA9111-0AD14	
		110 125 V DC/110 127 V AC	3WA9111-0AD15	
		220 250 V DC/208 240 V AC	3WA9111-0AD16	

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Accessories and spare parts

Auxiliary releases

Shunt trip (ST) • For momentary duty, with cut-off switch S14 Version Voltage Article No. 5% OP 24 ... 30 V DC 3WA9111-0AD22 Switching time 50 ms 48 ... 60 V DC 3WA9111-0AD24 110 ... 125 V DC/110 ... 127 V AC 3WA9111-0AD25 220 ... 250 V DC/208 ... 240 V AC 3WA9111-0AD26 Capacitor trip device • For shunt trips • Storage time 5 min Also suitable for 3VL, 3VA, 3WL and 3WN circuit breakers • Note: Rated control supply voltage must match the rated control supply voltage of the shunt trip Rated control supply voltage/rated operational voltage Article No. AC 50/60 Hz 220 ... 240 V 220 ... 250 V 3WA9111-0AD81 Undervoltage release (UVR) Voltage Version Article No. Instantaneous ≤0.08 s (UVR) and 24 ... 30 V DC 3WA9111-0AE02 short-time delayed ≤0.2 s 48 ... 60 V DC 3WA9111-0AE04 110 ... 125 V DC/110 ... 127 V AC 3WA9111-0AE05 220 ... 250 V DC/208 ... 240 V AC 3WA9111-0AE06 380 ... 415 V AC 3WA9111-0AE07 Delayed (UVR-t), 48 V DC 3WA9111-0AE13 adjustable delay 0.2 ... 3.2 s 60 V DC 3WA9111-0AE14

Operating mechanism

Spring charging motor to charge the stored energy mechanism				
D-//	Voltage	Article No.		
	24 30 V DC	3WA9111-0AF02		
	48 60 V DC	3WA9111-0AF04		
	110 125 V DC/110 127 V AC	3WA9111-0AF05		
	220 250 V DC/208 240 V AC	3WA9111-0AF06		

110 ... 125 V DC/110 ... 127 V AC

220 ... 250 V DC/208 ... 240 V AC

380 ... 415 V AC

3WA9111-0AE15

3WA9111-0AE16

3WA9111-0AE17

Auxiliary contacts

Auxiliary switches (AUX)					
	Contacts	Article No.			
	2 NO contacts + 2 NC contacts	3WA9111-0AG01			
	2 NO contacts	3WA9111-0AG02			
	1 NO contact + 1 NC contact	3WA9111-0AG03			

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Door sealing frame, protective cover

Door sealing frame		
	Version	Article No.
Spare part for option T40		3WA9111-0AP01
Protective cover IP55		
P	 Cannot be used in conjunction with door sealing frames Hood removable and can be opened on both sides 	
Af .		Article No.
		3WA9111-0AP03

Arc chute, arc chute cover

Arc chute				
CacPM	Voltage	Size	Breaking capacity	Article No.
	690 V AC	1	N, S	3WA9111-0AS01
			M	3WA9111-0AS02
		2	S, M, H	3WA9111-0AS10
			С	3WA9111-0AS11
		3	Н	3WA9111-0AS17
			С	3WA9111-0AS18
	1000 V AC	1	E	3WA9111-0AS04
				3WA9111-0AS05
		2	E	3WA9111-0AS12
		3	E	3WA9111-0AS18
	600 V DC	2	D	3WA9111-0AS13
	1000 V DC	1	E	3WA9111-0AS06
		2	E	3WA9111-0AS14
Arc chute cover				
	 Parts kit for guide frame Spare part for option R² Not available for: Breaking capacity C, 4000 A size 2 	10		
1	Number of poles	Size		Article No.
	3-pole	1		3WA9111-0AS31
		2		3WA9111-0AS32
		3		3WA9111-0AS33
	4-pole	1		3WA9111-0AS41
		2		3WA9111-0AS42
		3		3WA9111-0AS43

Coding for withdrawable version

Coding for withdrawable version					
	 Variant coding by the customer with 36 coding options 				
	Size	Article No.			
	1, 2	3WA9111-0AR11			
	3	3WA9111-0AR12			
₹6					

Accessories and spare parts

Grounding connections

Grounding connection between the guide frame and the circuit breaker • For 30 kA and 60 kA ground short-circuit current · For 60 kA ground short-circuit current, order 2x contact modules for guide frame Contact module Size Article No. For guide frames 1, 2 1) 3WA9111-0BG01 3 3WA9111-0BG02 For withdrawable circuit breakers 3WA9111-0BG11 3-pole 3WA9111-0BG21 4-pole 2 3-pole 1) 3WA9111-0BG12 3-pole 2) 3WA9111-0BG13 4-pole 1) 3WA9111-0BG22

4-pole 2)

- 1) Cannot be used for size 2 with breaking capacity C and size 2, 4000 A.
- 2) Not for breaking capacity E

Support brackets

Support brackets



• For mounting fixed-mounted circuit breakers on vertical plane

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• Only for sizes 1 and 2 (1 set = 2 units)

Article No.

3WA9111-0BB50

3WA9111-0BG23

Modules of the CubicleBUS²

COM190 Modbus TCP PROFINET IO communication module Article No. Circuit breaker internal or on standard mounting rail, including adapter for mounting on the secondary 3WA9111-0EC13 disconnect terminal system of the circuit breaker, adapter for mounting on standard mounting rail, connecting cables and CubicleBUS2 terminating resistor IOM230 digital input/output module (2 inputs and 3 outputs) Article No. Including adapter for mounting on the secondary disconnect terminal system of the circuit breaker, 3WA9111-0EC11 adapter for mounting on standard mounting rail, connecting cables and terminating resistor for Cubicle BUS² Terminating resistor for CubicleBUS² Version Article No. For CubicleBUS² on the last module 3WA9111-0EC50 Version Article No. For mounting the modules of the CubicleBUS² on the secondary disconnect terminal system of the 3WA9111-0EC60 For mounting the modules of the CubicleBUS² on standard mounting rail 3WA9111-0EC61

Internal voltage tap

Set of components for components	onversion of an existing internal volta	age tap		
	Conversion of internal voltage tap on main contact	Circuit breaker	Size	Article No.
	From bottom to top	3-pole	1	3WA9111-0EK11
==			2	3WA9111-0EK12
AA			3	3WA9111-0EK13
		4-pole	1	3WA9111-0EK21
			2	3WA9111-0EK22
			3	3WA9111-0EK23
	From top to bottom	3-pole	1	3WA9111-0EK31
			2	3WA9111-0EK32
			3	3WA9111-0EK33
		4-pole	1	3WA9111-0EK41
			2	3WA9111-0EK42
			3	3WA9111-0EK43
Retrofit of the internal v	oltage tap on the lower main conduc	ting paths		
-	For breaking capacity	All parts for circuit breaker	Size	Article No.
Oddod on mond	N, S, M, H, C with VTM680 voltage tap module	3-pole	1	3WA9111-0EK51
=			2	3WA9111-0EK52
三三三			3	3WA9111-0EK53
اهراه اهراها		4-pole	1	3WA9111-0EK61
			2	3WA9111-0EK62
			3	3WA9111-0EK63
	E	3-pole	1	3WA9111-0EK55
	with VTM640 voltage tap module		2	3WA9111-0EK56
			3	3WA9111-0EK57
		4-pole	1	3WA9111-0EK65
			2	3WA9111-0EK66
			3	3WA9111-0EK67
Retrofit kit to connect ar	n external voltage transformer			
, ii	Size			Article No.
No.	2, 3 including VTM640 voltage tap modul	e and the necessary connection c	omponents	3WA9111-0EK81

Main conductor connections, fixed-mounted versions

-accessible main conr	nections according to DIN 43	673, double hole for main connection at top	
	Size	Breaking capacity Rated current I _n	Article No.
1	1	N, S ≤1000 A AC	3WA9111-0AL11
		N, S 1250 2000 A AC; M, E ≤2000 A AC	3WA9111-0AL12
	2	S, M, H, E 2000 A AC; D, E ≤2000 A DC	3WA9111-0AL21
7		S, M, H, E 2500 A AC	3WA9111-0AL22
		S, M, H, E 3200 A AC; D, E 4000 A DC	3WA9111-0AL23
3	3	H 4000 A AC	3WA9111-0AL31
t-accessible main conr	nections according to DIN 43	673, double hole for main connection at bottom	
9	Size	Breaking capacity Rated current I _n	Article No.
1	1	N, S ≤1000 A AC	3WA9111-0AL13
of		N, S 1250 2000 A AC; M, E ≤2000 A AC	3WA9111-0AL14
	2	S, M, H, E 2000 A AC; D, E ≤2000 A DC	3WA9111-0AL24
7		S, M, H, E 2500 A AC	3WA9111-0AL25
		S, M, H, E 3200 A AC; D, E 4000 A DC	3WA9111-0AL26
3	3	H 4000 A AC	3WA9111-0AL32

Accessories and spare parts

Main conductor connections, fixed-mounted versions

Rear vertical main connections					
	Size	Breaking capacity Rated current I _n	Article No.		
	1	N, S, M, E ≤2000 A AC ¹⁾	3WA9111-0AM11		
		N, S, M, E 2500 A AC	3WA9111-0AM12		
	2	S, M, H, C, E ≤3200 A AC ²⁾	3WA9111-0AM21		
	3	H, C, E ≤6300 A AC	3WA9111-0AM33		

¹⁹ In the case of vertical connection size 1 with breaking capacity N and S, up to 1000 A one 3WA9111-0AM11 vertical connection is required for each connection, from 1250 A to 2000 A

Main conductor connections for withdrawable units

Wall conductor connections for Withdrawasic and					
Front-accessible ma	ain connections, according to DIN	43673, double hole at top or at bottom 1)			
	Size	Breaking capacity Rated current I _n	Article No.		
	1	N, S ≤1000 A AC	3WA9111-0AN11		
		N, S 1250 2000 A AC; M, E ≤2000 A AC	3WA9111-0AN12		
111	2	N, S 1250 2000 A AC; M, E ≤2000 A AC	3WA9111-0AN21		
0		S, M, H, E 2500 A AC	3WA9111-0AN22		
		S, M, H, E 3200 A AC; D, E 4000 A DC	3WA9111-0AN23		
	3	H 4000 A AC	3WA9111-0AN31		
Supports for front-a	accessible main connections accor	ding to DIN 43673			
	Number of poles	Size	Article No.		
	3-pole, set for 3 bars,	1	3WA9111-0AN81		
	top or bottom	2	3WA9111-0AN82		
0	Number of poles 3-pole, set for 3 bars,	N, S 1250 2000 A AC; M, E ≤2000 A AC S, M, H, E 2500 A AC S, M, H, E 3200 A AC; D, E 4000 A DC H 4000 A AC ding to DIN 43673	3WA9111-0AN21 3WA9111-0AN22 3WA9111-0AN23 3WA9111-0AN31 Article No. 3WA9111-0AN81		



Rear vertical main connections				
	Size	Breaking capacity Rated current I _n	Article No.	
	1	N, S ≤1000 A AC	3WA9111-0AV11	
		N, S 1250 2000 A AC; M, E ≤2000 A AC	3WA9111-0AV12	
	2	S, M, H, E 2000 A AC; D, E ≤2000 A DC ²⁾	3WA9111-0AV21	
		S, M, H, E 2500 A AC ²⁾	3WA9111-0AV22	
		S, M, H, E 3200 A AC; D, E 4000 A DC ²⁾	3WA9111-0AV23	
		C 2000 3200 A AC	3WA9111-0AV24	
	3	H, C, E ≤5000 A AC	3WA9111-0AV31	

	3	H, C, E ≤5000 A AC	3WA9111-0AV31	
Rear horizontal main connections				
	Size	Breaking capacity Rated current I _n	Article No.	
	1	N, S ≤1000 A AC	3WA9111-0AX11	
3		N, S 1250 2000 A AC; M, E ≤2000 A AC	3WA9111-0AX12	
	2	S, M, H, E 2000 A AC; D, E ≤2000 A DC ²⁾	3WA9111-0AX21	
		S, M, H, E 2500 A AC ²⁾	3WA9111-0AX22	
		S, M, H, E 3200 A AC; D, E 4000 A DC ²⁾	3WA9111-0AX23	
		C 2000 3200 A AC	3WA9111-0AX24	
	3	H, C, E ≤5000 A AC	3WA9111-0AX31	

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

²⁾ Not for circuit breakers with very high breaking capacity C.

Connec	ting flange
•	
0	
6	0

Size	Breaking capacity Rated current I _n	Article No.
1	N, S ≤1000 A AC	3WA9111-0AW11
	N, S 1250 2000 A AC; M, E ≤2000 A AC	3WA9111-0AW12
2	S, M, H, E 2000 A AC; D, E ≤2000 A DC	3WA9111-0AW21
	S, M, H, E 2500 A AC	3WA9111-0AW22
	S, M, H, E 3200 A AC; D, E 4000 A DC	3WA9111-0AW23
3	H 4000 A AC	3WA9111-0AW31

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or with breaking capacity M or E two 3WA9111-0AM11 vertical connections required for each connection.

In the case of vertical connection size 2, up to 2500 A one 3WA9111-0AM21 vertical connection is required for each connection for breaking capacity S, M, H, E, D, for 3200 A and always for breaking capacity C, two 3WA9111-0AM21 vertical connections are required for each connection

Conversion kit

Conversion kit for converting fixed-mounted circuit breakers into withdrawable circuit breakers



- Guide frames and sliding contact modules must be ordered separately.
 Conversion from fixed-mounted to withdrawable circuit breakers is not possible for 3WA circuit breakers with breaking capacity C and breaking capacity E

Number of poles	Size	Article No.
3-pole	1	3WA9111-0BC11
	2	3WA9111-0BC12
	3	3WA9111-0BC13
4-pole	1	3WA9111-0BC14
	2	3WA9111-0BC15
	3	3WA9111-0BC16

Main contact elements

Main contact elements for AC circuit breakers



- - To be ordered only once for each circuit breaker
- On the following circuit breakers, the main contact elements can only be replaced in the factory: 3WA1 size 1 breaking capacity M and E 3WA1 size 2 breaking capacity C 3WA1 size 3 breaking capacity C and E

Number of poles	Size	Breaking capacity	Rated current I _n	Article No.
3	1	N	≤1000 A	3WA9111-0AQ01
			1250 A	3WA9111-0AQ02
			1600 A	3WA9111-0AQ04
		S	≤1000 A	3WA9111-0AQ03
			1250 1600 A	3WA9111-0AQ04
		N, S	2000 2500 A	3WA9111-0AQ05
	2	S, M , H, E	2000 A	3WA9111-0AQ08
			2500 A	3WA9111-0AQ11
			3200 A	3WA9111-0AQ13
		S, M, H, E	4000 A	3WA9111-0AQ15
	3	Н	4000 A	3WA9111-0AQ20
			5000 6300 A	3WA9111-0AQ22
4	1	N	≤1000 A	3WA9111-0AQ51
			1250 A	3WA9111-0AQ52
			1600 A	3WA9111-0AQ54
		S	≤1000 A	3WA9111-0AQ53
			1250 1600 A	3WA9111-0AQ54
		N, S	2000 2500 A	3WA9111-0AQ55
	2	S, M , H, E	2000 A	3WA9111-0AQ58
			2500 A	3WA9111-0AQ61
			3200 A	3WA9111-0AQ63
		S, M, H, E	4000 A	3WA9111-0AQ65
	3	Н	4000 A	3WA9111-0AQ70
			5000 6300 A	3WA9111-0AQ72

Main contact elements for DC non-automatic circuit breakers



• Note: To be	e ordered only	once for each circuit breaker		
Number of poles	Size	Breaking capacity	Rated current I _n	Article No.
3	2	D, E	1000 / 2000 A	3WA9111-0AQ17
			4000 A	3WA9111-0AQ18
4	4 2 D, E	1000 / 2000 A	3WA9111-0AQ67	
	4000 A	3WA9111-0AQ68		



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General information

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Tender specifications	www.siemens.com/lowvoltage/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
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Siemens Industry Mall – product catalog and	www.siemens.com/industrymall
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Local contacts	www.siemens.com/lowvoltage/contact
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SIMARIS planning tools	sie.ag/2m3oFbS

Information + ordering

Technical overviews	
Air circuit breakers	www.siemens.com/lowvoltage/product-support (109781188)
All the important things at a glance	
Air circuit breakers	www.siemens.com/3WA
Your product in detail	
Quick selection guide – 3WA air circuit breakers	www.siemens.com/lowvoltage/product-support (109781967)
Brochure – 3WA air circuit breakers	www.siemens.com/lowvoltage/product-support (109781968)
Our video range	
Power Distribution Low Voltage (EN)	bit.ly/3iiuhXS
Everything you need for your order	
3WA air circuit breakers	sie.ag/3heeyYv
Configurators	
3WA air circuit breakers	www.siemens.com/lowvoltage/3wa-configurator

Commissioning + operation

Tools / software	
SENTRON powerconfig configuration software	www.siemens.com/powerconfig
Manuals	
Equipment manual – 3WA air circuit breakers	www.siemens.com/lowvoltage/manuals (109763061)

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

PDF (E86060-K8280-A101-B2-7600)



LV 14 Power Monitoring Made Simple SENTRON

E86060-K1814-A101-A7-7600



LV 18
Air Circuit Breakers and Molded Case
Circuit Breakers with UL Certification
SENTRON

PDF (E86060-K8280-E347-A5-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



IC 10 Industrial Controls SIRIUS

E86060-K1010-A101-B1-7600



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Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

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